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ILOOLED IBLUED INGOOM OF SAUDI ARABIA

Company pre-Qualification

Project:

Consultant :

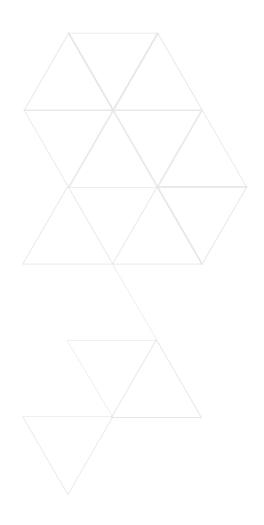
Contractor:

We believe that the best way to predict your future is to Create it





- -Company Profile
- -Organization chart
- -Quality manual
- -Our product & services
- ISO Certificate
- SASO Certificate
- Our Latests project
- Our important client
- Previous project
- -Governmental Certificates & licenses



Company profile









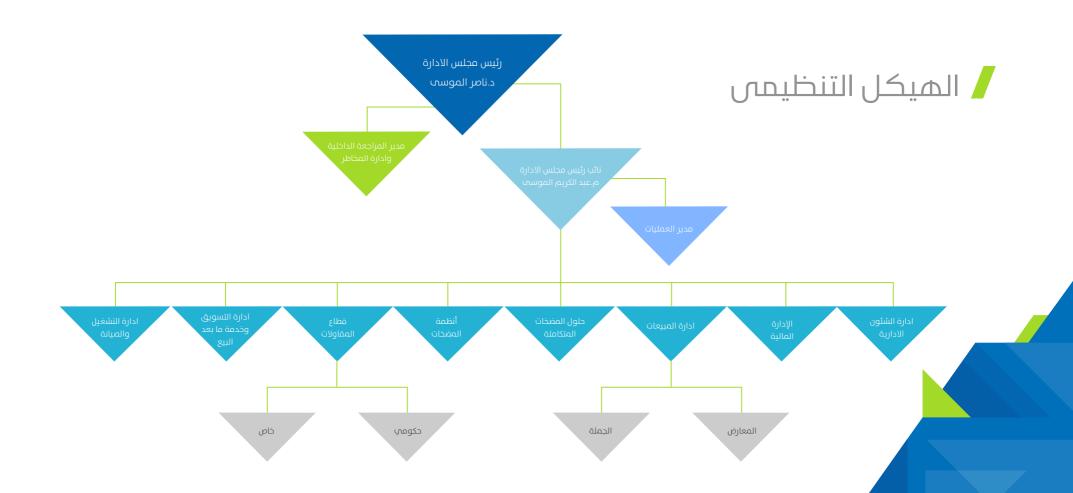




تأسست الموسم على رؤية عظيمة ليست محدودة بالعقل تخلق منصة من العمل الجاد الذي يؤدي إلى إنجازاتنا ورضا عملائنا، نحن ننتقى الأشخاص المناسبين الذين لديهم شغف ورؤية ومهارات عالية لإنجاز المهام، أنا وجميع موظفي الموسم نعمل كشخص واحد لنكون كيان سعودي رائد.

منذ بدايتنا المتواضعة في عام 1971م في متجر صغير متخصص في خدمة مضخات المياه المنزلية الصغيرة، وإدراكاً لأهمية ونوعية المياه في حياة الشعوب، وللمضي قدماً في دعم حكومتنا في ملف المياه بدأنا بتوفير أعلى جودة من مضخات الآبار كشركة رائدة في هذا المجال في المملكة العربية السعودية.

بعد ما يقرب من 50 عامًا، تخدم الموسم عملائها في العديد من المجالات مثل المقاولات العامة وأنظمة الضخ وحلول المياه والطاقة والصيانة والتشغيل والحلول التقنية للمنظومات الصناعية.













حدمات التشغيل والصيانة

- عقـود الإشـراف والصيانـة (شـبكات الميـاه شـبكات ميـاه الصـرف الصحــي وشـبكات تصريـف ميـاه الامطــار)
 - الاستشارات الفنية
 - صيانة جميع أنواع المضخات
 - صيانة محطات التحلية ومحطات توليد الطاقة
 - صيانة جميع أنواع المولدات والمحركات
 - تنفد شبكات المياه والصرف الصحب والوصلات المنزلية

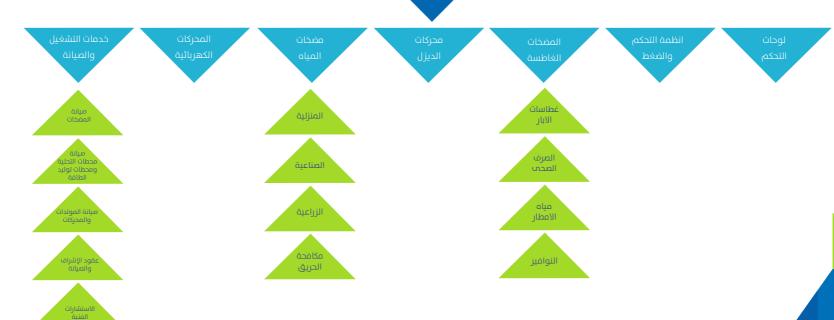


🖊 مراكز الصيانة المركزية

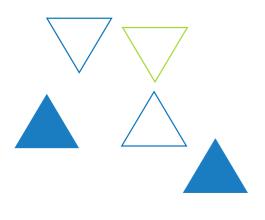
- صيانة المضخات الغاطسة
- لف وصيانة المحركات الغاطسة
- صيانة المضخات الراسية والافقية
- صيانة مضخات الصرف الصحب وتصريف مياه الامطار
 - تجميع وصيانة مضخات مكافحة الحريق
 - تجميع وصيانة بوسترات مضخات المياه
 - صيانة جميع المحركات والمولدات الكهربائية

المنتجات والخدمات

المنتجات والخدمات









انحیاشه مهأ

- تشغيل وصيانة الشبكة الهيدولوجية ومراقبة الابار بالمملكة (وزارة المياه والكهرباء)

 - تشغيل وصيانة مجمع الضخ الشامل بتبوك (المديريه العامه للمياه بتبوك)
- تشغيل وصيانة محطات المياة بالحرس الوطني بخشم العان بالرياض (وزارة الحرس الوطني)
- تشغيل وصيانة محطات وابار وشبكات محافظة العلا (المديريه العامه للمياه بالمدينة المنوره)
 - تشغيل وصيانة محطات وشبكات محافظة تبوك (المديريه العامه للمياه بتبوك)١
 - مشروع استكمال شبكات الصرف لمدينة حائل (المرحلة الثانية)
 - تشغيل وصيانة شبكات السيول بالرياض- (أمانة منطقة الرياض)1
 - تشغيل وصيانة محطة تحلية مياة البحر بمنفذ البطحاء (وزارة الماليه هيئة الجمارك)
- · تشغيل وصيانة الخزانات الاستراتيجية ونقاط التوزيع بالقصيم (المديريه العامه للمياه بالقصيم)
 - · تشغيل وصيانة محطات الصرف الصحب بجازان (المديريه العامه للمياه بجازان)
- تشغيل وصيانة محطة تحلية المياة بالعويقيله بالحدود الشمالية (المديريه العامه للمياه بالحدود الشماليه)



- تشغيل وصيانة نقاط توزيع عرر بالحدود الشمالية (المديريه العامه للمياه بالحدود الشمالية)
 - مشروع استكمال مجمع الضخ والابار بمياه تبوك الشامل
 - المديريه العامه للمياه بجازان
 - توصيلات مياه الصرف الصحي لمدينة حائل
 - استكمال الأعمال المدنية والكهربائية بمحطة التحلية بمنطقة جازان
 - تنفيذ مشروع التوصيلات المنزلية لمياه الصرف الصحي (تيماء تبوك)
 - توريد وتركيب محطة ضخ ومضخات مياه المديريه العامه للمياه بتبوك
 - تورید وترکیب مضخات وأعمال المیاه وزارة الحرس الوطنب
 - تورید وترکیب مضخات وأعمال المیاه وزارة الدفاع
 - مختبرات المياه بأجزاء مختلفة بالمدينة المنورة التابعه للمديرية العامه للمياه بالمدينة
- بطاقة 300 م 3 / يوم من مشروع المياه المزارية الطائف التابع للمديرية العامه للمياه بالمدينة المنوره
 - تنفیذ شبکة میاه وخزانات حوطة سدیر بالریاض
 - تشغيل وصيانة مختبر المياة المزكزي بالحدود الشمالية (المديريه العامه للمياه بالحدود الشماليه)























ا عملاؤنا

















































































































OUR PARTNER





























OUR CLIENTS













































































































- Operation and maintenance of water purification Ayqlh northern border area station
- Operation and maintenance of the distribution points in the northern border area of Arar
- Completion of pumping and evaporation complex in Tabuk water
- General Directorate of Water, Tabuk
- Implementation of strategic reservoirs local station in Jazan
- Sewage Houses Connection of the city of Hail
- Complete civil and electrical works a local station in Jazan region (there are an extension)
- Implementation of a project Home connections sewage (Tema-Tabouk
- Supply and installation of WTP & pumping Station-Algan
- · Supply and installation of MBR ministry of National Garud-Riyadh
- Supply and installation of WTP ministry of defense
- Water laboratories in different parts in the Medina processing
- capacity of 300 m 3 / day of water project Al Mezariah Taif
- Implementation of a water network and reservoirs Hotat Sadir in Riyadh
- Maintenance Directorate General of Water Labs northern border area

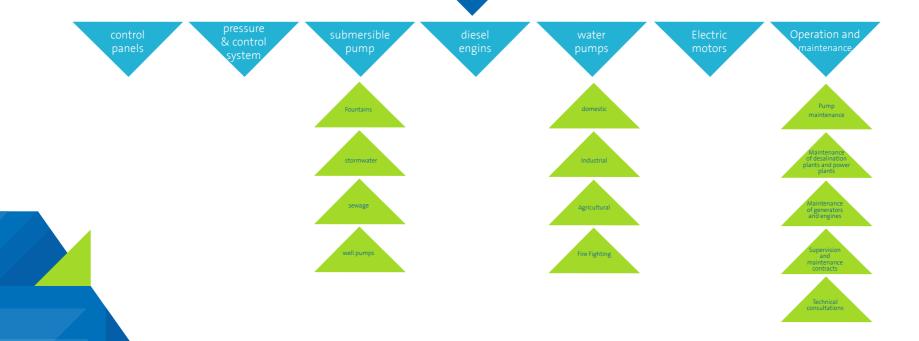
OUR PROJECTS

- Operation and maintenance of the hydraulic network and Wells Monitoring in the Kingdom
- Implementation of strategic reservoirs in Jizan
- Operation and maintenance Tabuk al-shamel
- Operation and maintenance water treatment in National Graud- Riyadh
- Operation and maintenance of water projects in AlOyla-1
- Operation and maintenance of water projects in AlOyla-2
- Operation and maintenance of water projects treatment plants with networks in Tabuk-1
- Completion of Hail drainage networks (part II)
- Operation and maintenance of networks storm water drainage and groundwater in Riyadh-1
- · Operation and maintenance of Sea water Al Bathah
- Operation and maintenance of Strategic Tank in AlQasuim
- Operation and maintenance of STP in Jazan





PRODUCTS & SERVICES



CENTRAL MAINTENANCE CENTERS

- Maintenance of submersible pumps
- Roll and maintain submersible motors
- Maintenance of vertical and horizontal pumps
- Maintenance of sewage pumps and drainage of rain water
- Collection and maintenance of fire fighting pumps
- Collection and maintenance of water pump posters
- Maintenance of all engines and generators





- Supervision and maintenance contracts (water networks,
- sewage networks and rainwater drainage systems)
- Technical consultations
- Maintenance of all types of pumps
- Maintenance of desalination plants and power plants
- Maintenance of all types of generators and engines
- running out of water and sanitation systems and home links



Our goal

(Why go to work)

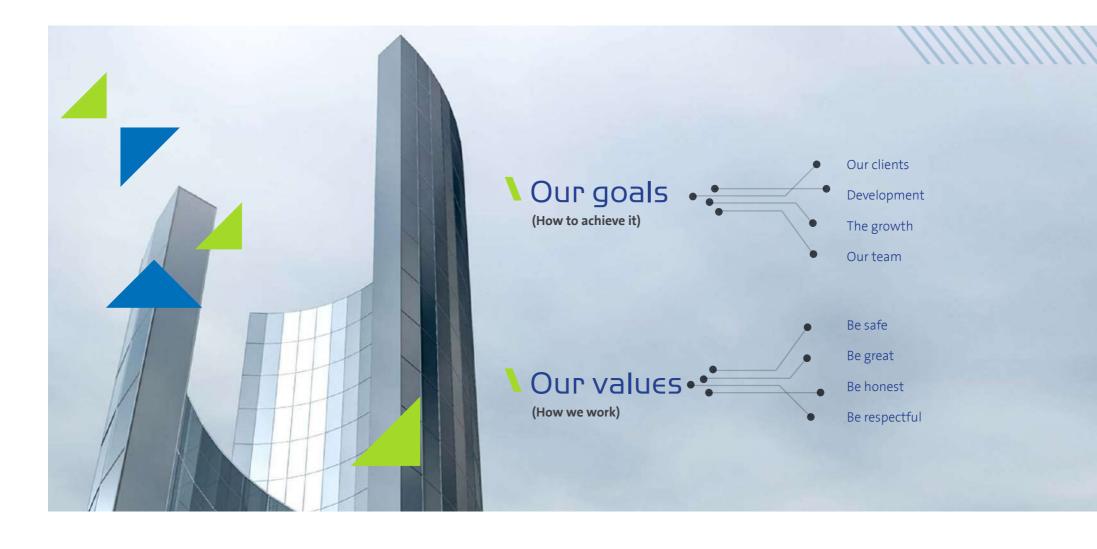
To build a leading company through the positive and effective influence in our society and the lives of our partners

Our Service

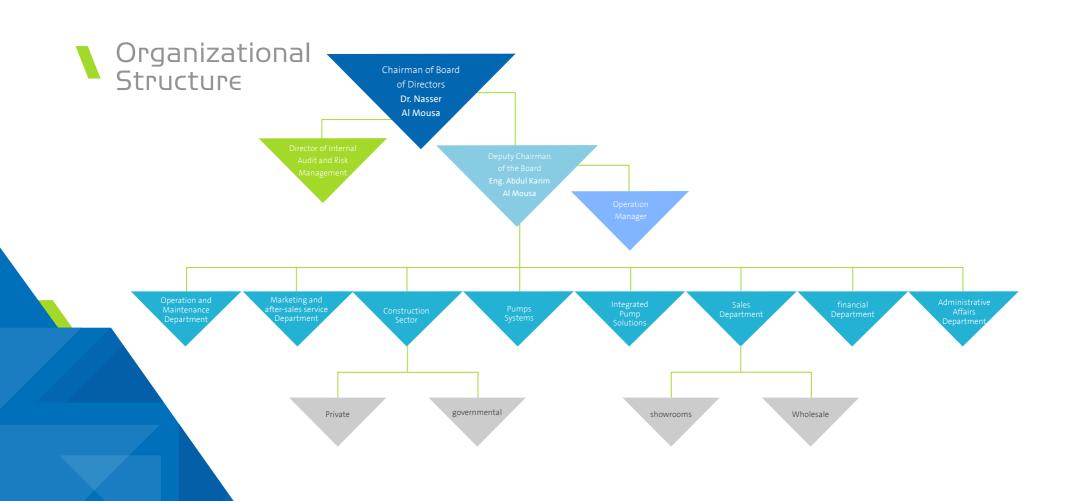
(How to communicate with our customers)

By creating positive moments with each connect











Our story

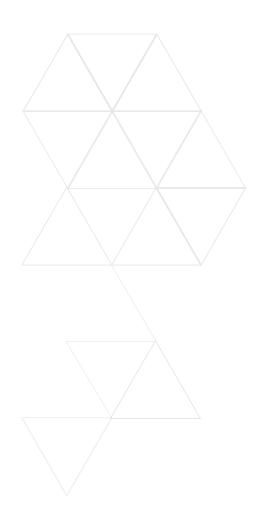
The founding principle for Almousa is one of a vision for great things. A vision that is not limited by the mind, but instead creates a platform of hard work that leads to our achievements and the satisfaction of our customers, We compile the right people that possess a similar passion, vision and skills to get the job done, I as well as the entire Almousa employees work as one to become a Saudi Leading company for trading and contracting .

With our humble start in 1970 in a small shop specialized in servicing the small domestic water pumps, we realized the importance of water and water quality to our people life, moving forward to support the government in the water Agenda we started the artesian deep well digging and providing the highest quality of deep well pumps as a leading company in this filed in Saudi Arabia.

After almost 50 years Almousa is serving its customer in many fields such as general contracting, pumping systems and solutions, water and energy, service and maintenance . We believe that the best way to predict your future is to create it



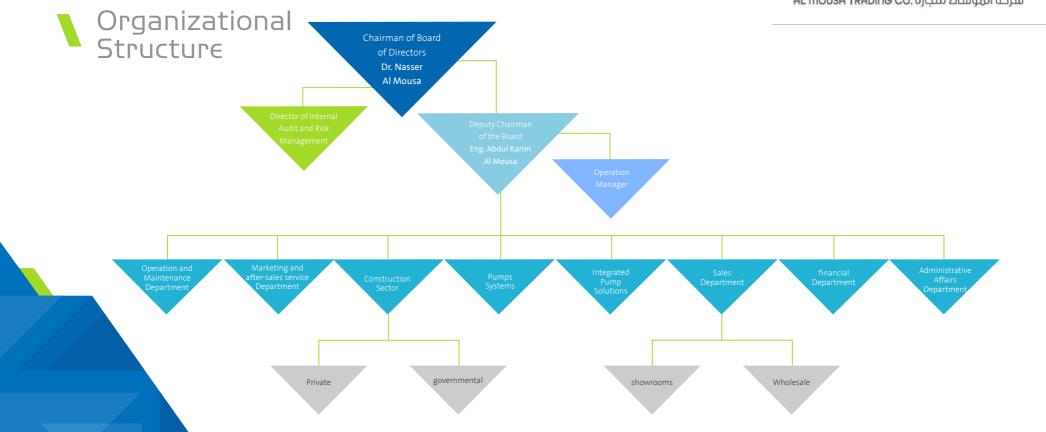
















QHSE POLICY

Al Mousa Trading Co. is committed to supply our customers the quality Water pumps (Firefighting, Submersible, Chilled, Booster and domestic water pumps) which are consistent and conforms with customers as well as statutory and regulatory requirement, and to protect environment, health and safety of all interested parties which work at our office, warehouse and workshop. To achieve these objectives Al Mousa Trading Co. will:

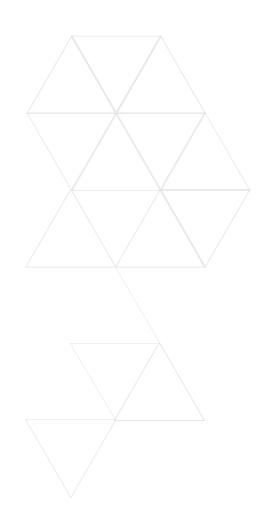
- Maintain an integrated QHSE Management System that complies with ISO 9001:2015, ISO 45001:2018 and 14001:2015 as well as QHSE regulations and legal requirements of the Kingdom of Saudi Arabia.
- Provide the necessary resources for the implementation and management of its Health, Safety and Environmental system.
- Ensure that all employees and visitors understand safe working practices and use of protective equipment as individual responsibility their own safety the safety of others.
- Provide information, instruction, training and supervision that is reasonably necessary to ensure that each worker is safe from injury and risks to health
- Maintain as far as possible a commitment to continually improve our performance through
- Provide safe working conditions and equipment to minimize or eliminate incidents.
- Provide clear procedures for action to be taken in the event of an emergency.
- Ensure safe handling and transportation of heavy material.
- Review and revise this policy regularly.

We seek the co-operation of all workers, customers and other people. We encourage suggestions for realising our health and safety objectives to create a safe working environment with a zero-accident rate.

This policy applies to all business operations and functions, including those situations where workers are required to work off-site.



Rev.03-QHSD-SOP-POL-01 QHSE POLICY

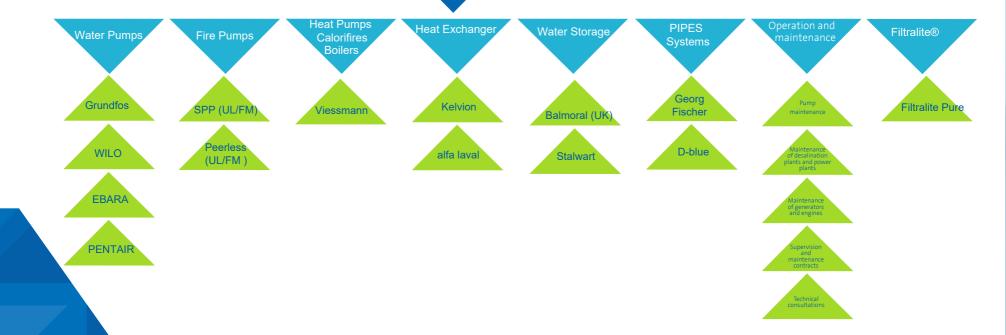








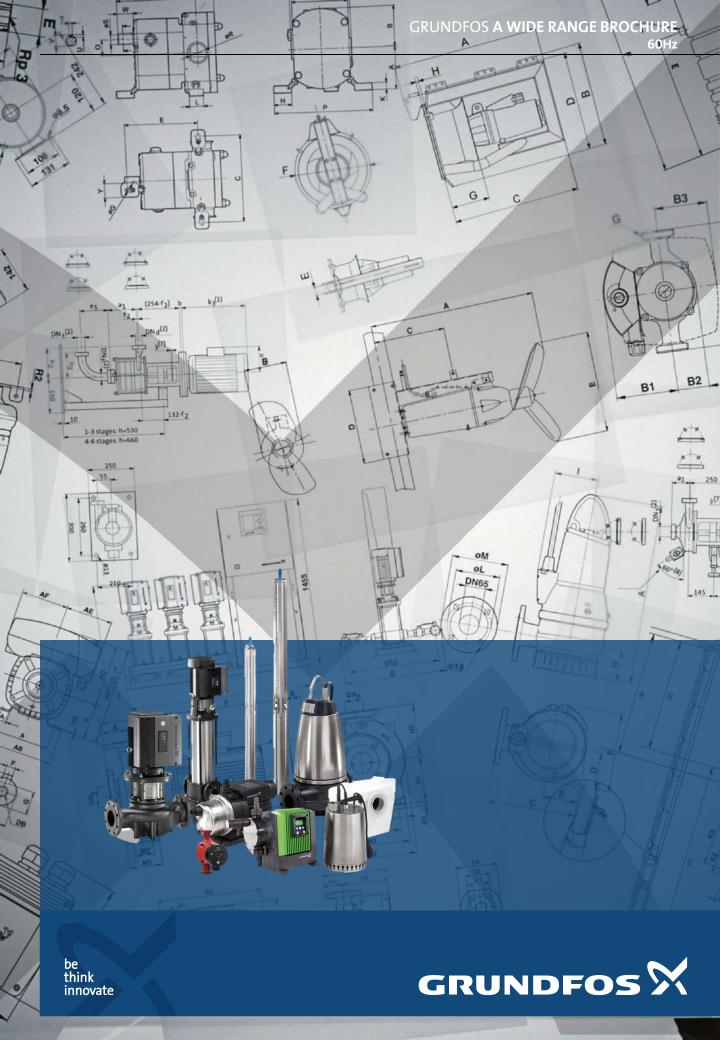
PRODUCTS & SERVICES





GRUNDFOS Water Pumps





be think innovate is our promise to add value to our costumers and partners. be think innovate is our promise to ensure reliable operations. be think innovate is our promise to contribute to global sustainability.





A global business

With over 17,000 employees and production of more than 16 million pump units a year, Grundfos is one of the world's leading pump manufacturers. More than 80 companies in over 55 countries help to bring pumps to every corner of the world – from supplying drinking water to Antarctic expeditions, irrigation of Dutch tulips, groundwater monitoring beneath waste heaps in Germany, to air-conditioning in Egyptian hotels.

Efficient, sustainable products

Grundfos is constantly striving to make its products more user-friendly and reliable – and also energy-saving and efficient, so that both users and the environment benefit from their improvements. Grundfos pumps are equipped with ultramodern electronics, allowing them to regulate their output according to current needs. This not only ensures convenience for the user, but also saves a great deal of energy.

Research and development

In order to maintain its leading position, Grundfos constantly places a great deal of emphasis on customer oriented research and development. Customers are consulted when new products are developed or when established products are improved.



Research and development make use of the latest technology within the pump industry, collaborating with universities and higher education institutions in search of new and better solutions for the design and function of the products.

Corporate values

The Grundfos Group is based on values such as sustainability, openness, trustworthiness, responsibility, and also on partnership with clients, suppliers and the whole of society around us, with a focus on humanity that concerns our own employees as well as the many million who benefit from water that is procured, utilised and removed as wastewater with the help of Grundfos pumps.

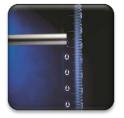
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Heating and hot water service systems

Circulator pumps for circulation of hot water in central and district systems and circulation in domestic hot water service systems.

Cooling and airconditioning systems

Circulator pumps for circulation of cold water and other liquids in cooling and airconditioning systems.

Pressure boosting and liquid transfer

Vertical and horizontal centrifugal pumps and pressure boosting systems for liquid transfer and boosting hot and cold water.

Industrial applications

A wide range of pumps for the transfer of water, cooling lubricants and other liquids in industrial and process systems.

Dosing

Dosing pumps for wastewater treatment systems, swimming pools and industry.













Domestic water supply

Submersible pumps, jet pumps, multistage centrifugal pumps and compact systems for water supply in homes, gardens and hobby applications.

Environmental applications

Purpose-built submersible pumps for remedial pumping of contaminated groundwater and for sampling for water quality analyses.

Groundwater supply

Submersible and dry installed pumps for groundwater supply, irrigation and groundwater lowering.

Renewable-energy systems

Renewable-energy based water supply systems suitable for remote locations not connected to the electricity supply grid.

Sewage and wastewater

Drainage, effluent and sewage pumps, for a wide range of applications in building services as well as transfer of raw sewage in municipal sewage systems.

		2			
Page	Product name	Heating	Cooling	Pressure Boosting / Liquid Transfer	Industrial Application
6	Grundfos MAGNA, UPE Series 2000	•	•		
6	Grundfos UP, UP(S)-N Series 100	•	•		
6	Grundfos UPS Series 200	•	•		
7	TP	•	•	•	•
7	TPE Series 1000	•	•		•
7	TPE Series 2000	•	•	_	•
8	HS	•	•	•	•
8	NB, NBG(E)	•	•	•	•
8	NK, NKG(E)	•	•	•	•
9	CM, CME		•	•	•
9	SPK, CHK, MTH, CRK, MTR, MTA				•
9 10	CR, CRI, CRN CRE, CRIE, CRNE		•	•	•
10	CR, CRN high pressure			•	•
10	CRT			•	
11	Hydro MPC			•	
11	Hydro Multi-B E(S)			•	
11	BM, BMB			•	•
12	BME, BMET			•	•
12	Smart Digital Sets - DDA, DDC, DDE		•	-	•
12	DMH		•		•
13	DMX		•		•
13	Oxiperm Pro				
13	Selcoperm				
14	Euro-HYGIA				•
14	MAXA, MAXANA				•
14	SIPLA				•
15	NOVAlobe				•
15	SQ, SQE				
15	SQFlex				
16	SP-A, SP, SP-G			_	•
16	MS Motor			•	•
16	MMS Motors				•
17	MP1				
17	SQE-N, SP-NE				
17 18	MQ KP, AP, AP35B, AP50B – stainless steel				
18	DPK				
18	DWK				
19	SL1, SLV				
19	S Range				
19	KPL, KWM				
20	SRP				
20	AMD, AMG, AFG				
20	Diffusers				
21	Control MPC	•	•	•	•
21	CUE	•	•	•	•
21	CU 3, CU 300, CU 301				
21	R100	•	•	•	•
22	MP 204	•	•	•	•
22	LiqTec	•	•	•	•
22	Tanks				

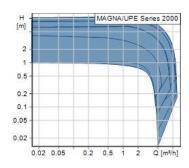


Dosing and	Domestic Water	Environmental	Groundwater	Renewable	Sewage / Wastewater
Dosing and Disinfection	Supply	Application	Supply	Energy System	Wastewater
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GRUNDFOS MAGNA, UPE Series 2000

Circulator pumps, canned rotor type electronically controlled



Technical Data

Flow (Q) max.	12 m³/h
Head (H) max.	10.5 m
Liquid temperature	2 °C to 95°C
Operating pressure max.	10 bar

Applications

Circulation of hot water in

Heating systems in blocks of flats, schools, hospitals, hotels, industry etc.

Features and benefits

- Low noise level
- Low energy consumption, Energy labelling: Class A
- Wide range
- Automatic performance adjustment
- Simple installation (no extra equipment or fittings required)
- Safe selection.

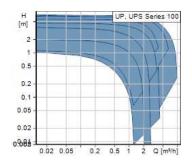
Options

- Stainless steel pump housing
- Twin-head versions
- Wireless remote control, R100
- Communication via GENIbus or LON



GRUNDFOS UP, UP(S)-N Series 100

Circulator pumps, canned-rotor type



Technical Data

Flow (Q) max.	10 m³/h
Head (H) max.	7 m
Liquid temperature	-25°C to 110°C
Operating pressure max.	10 bar

Applications

Circulation of hot or cold water in

- Domestic hot water recirculation
- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

Features and benefits

- Maintenance-free
- Low-noise
- Low-energy
- Wide range
- Corrosion-resistant stainless steel, brass pump housing

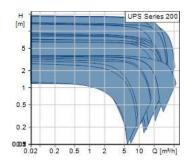
Options

24-hour timer



GRUNDFOS UPS Series 200

Circulator pumps, canned-rotor type



Technical Data

Flow (Q) max.	54 m³/h
Head (H) max.	18.5 m
Liquid temperature	-10°C to 120°C
Operating pressure max.	10 bar

Applications

Circulation of hot or cold water in

- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

Features and benefits

- Maintenance-free
- Built-in thermal switch
- Low-noise
- Low-energy
- Energy labelling up to class B
- Single-phase with built-in protection module
- Wide range

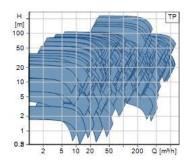
- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing
- Twin-head versions
- Communication via GENIbus or LON





ΤP

Single-stage in-line pumps



Technical Data

Flow (Q) max.	1270 m ³ /ł
Head (H) max.	225 m
Liquid temperature	150 °C
Operating pressure max.	25 bar

Applications

Circulation of hot or cold water in

- Heating systems
- District heating plants
- Local heating plants
- Domestic hot water systems
- Cooling and air-conditioning systems

Features and benefits

- Compact design
- Wide range
- Standard IE3/IE2 motor
- Service-friendly
- Various types of shaft seals depending on liquid, temperature and pressure

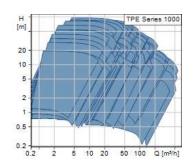
Options

- Bronze pump housing
- Bronze impeller
- Stainless steel impeller
- Twin-head versions



TPE Series 1000

Single-stage in-line pumps with MGE motor



Technical Data

Flow (Q) max.	576 m³/h
Head (H) max.	95.5 m
Liquid temperature	-25°C to 120°C
Operating pressure max.	16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Cooling and air-conditioning systems
- Industrial plants

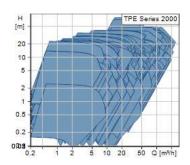
Features and benefits

- Low-energy
- Adaptation to existing operating conditions
- Simple installation
- Many control facilities
- Wireless remote control, R100
- Communication via GENIbus, BACnet MS/TP, LON, Modbus RTU or Profibus



TPE Series 2000

Single-stage in-line pumps with MGE motor



Technical Data

Flow (Q) max.	235 m³/h
Head (H) max.	42 m
Liquid temperature	-25°C to 120°C

Operating pressure max. 16 bar

Applications

Circulation of hot or cold water in

- Heating systems
- Domestic hot water systems
- Cooling and air-conditioning systems

Features and benefits

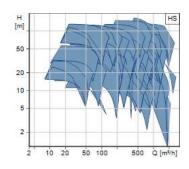
- Low-energy
- Adaptation to existing operating conditions
- Simple installation

- Parallel operation
- Wireless remote control, R100
- Communication via GENIbus or LON
- Twin-head versions



HS

Horizontal split case pumps



Technical Data

Flow (Q) max. 3060 m³/h Head (H) max. 183 m Liquid temperature 100°C Operating pressure max. 16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- · Other industrial systems

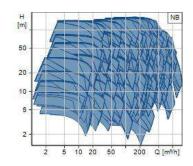
Features and benefits

- Standard dimensions according to EN / ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12 756 shaft seal



NB, NBG(E)

End-suction close-coupled pumps according to EN 733 / ISO 2858



Technical Data

Flow (Q) max. 1310 m³/h Head (H) max. 157 m Liquid temperature 120°C Operating pressure max. 16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- · Washdown systems
- Other industrial systems

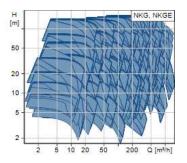
Features and benefits

- Standard dimensions according to EN / ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12 756 shaft seal



NK, NKG(E)

End-suction long-coupled pumps according to EN 733 / ISO 2858



Technical Data

Flow (Q) max. 1480 m³/h Head (H) max. 160 m Liquid temperature 120°C Operating pressure max. 16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Water supply systems
- Air-conditioning systems
- Cooling plants
- Industry
- Fire fighting systems
- Environment engineering

Features and benefits

- Standard dimensions according to EN standard
- Wide range
- Robust design
- Heavy-duty
- Flexible motor range

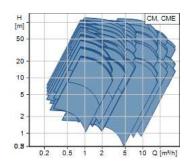
- Various types of shaft seal depending on liquid, temperature and pressure
- Cast iron or bronze impeller





CM, CME

Compact horizontal end-suction pumps



Technical Data

Flow (Q) max.	35 m³/h
Head (H) max.	120 m
Liquid temperature	-20°C to 120°C
Operating pressure max.	16 bar

Applications

- · Washing & cleaning
- Water treatment
- Temperature control
- Pressure boosting

Features and benefits

- · Reliability Peace of mind
- · Compactness Fits in everywhere
- · Flexibility Customise to the needs
- · Noiseless Out of mind

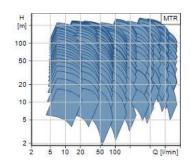
Options

- Cast iron AISI 304(W.no 1.4301) -AISI316 (W.no 1.4401)
- All versions with integreted frequency converter CME or stand alone CM +CUE
- Connections: NPT- RP-ANSI-JIS- DIN-Vitaulic- Clamps



SPK, CHK, MTH, CRK, MTR, MTA

Multistage centrifugal immersible pumps



Technical Data

Flow (Q) max.	104 m³/h
Head (H) max.	267 m
Liquid temperature	-20°C to 90°C
Operating pressure max.	25 bar

Applications

- Machine tools
- Components washing machines
- Chiller units
- Industrial washing machines
- Filter and conveyor systems
- Temperature control
- Boiler feed
- General pressure boosting

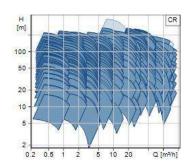
Features and benefits

- Flexible installation length
- · Wide range
- Reliability
- Service-friendly
- Simple installation



CR, CRI, CRN

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	184 m³/h
Head (H) max.	267 m
Liquid temperature	-30°C to 120°C
Operating pressure max.	30 bar

Applications

The pumps are suitable for liquid transfer in

- Washing systems
- Cooling and air-conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- · Boiler feeding systems

Features and benefits

- · Reliability
- High efficiency
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids

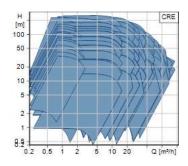
Options

 Dry-running protection and motor protection via LiqTec



CRE, CRIE, CRNE

Vertical multistage pumps with MGE motor



Technical Data

Flow (Q) max.	183 m³/h
Head (H) max.	271 m
Liquid temperature	120 °C
Operating pressure max.	24 bar

Applications

The pumps are suitable for liquid transfer in

- Washing systems
- Cooling and air-conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems

Features and benefits

- Wide range
- Reliability
- In-line design
- High efficiency
- Service-friendly
- Space-saving
- Many control facilities

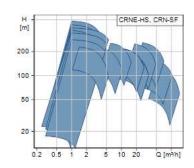
Options

Wireless remote control, R100



CR, CRN High Pressure

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	146 m³/h
Head (H) max.	482 m
Liquid temperature	-30°C to 120°C
Operating pressure max.	50 bar

Applications

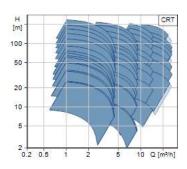
The pumps are suitable for liquid transfer in

- Washing systems
- Water treatment systems
- Industrial plants
- Boiler feeding systems



CRT

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	26.5 m³/h
Head (H) max.	236 m
Liquid temperature	-25°C to 120°C
Operating pressure max.	25 bar

Applications

The pumps are suitable for liquid transfer in

- Process water systems
- Washing in cleaning systems
- Sea water systems
- Pumping of acids and alkalis
- Ultra filtration systems
- Reverse osmosis systems
- Swimming baths

Features and benefits

- High corrosion resistance
- Reliability
- High efficiency
- Service-friendly
- Space-saving

Options

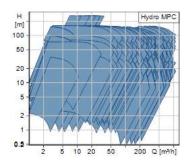
 Dry-running protection and motor protection via LiqTec





Hydro MPC

Turnkey booster systems



Technical Data

Flow (Q) max. 1100 m³/h Head (H) max. 162 m Liquid temperature 5°C to 70°C Operating pressure max. 16 bar

Applications

Hydro MPC are suitable for pressure boosting in

- Water supply
- Heating
- Air-Condition
- Water treatment

Features and benefits

- Constant pressure
- Simple installation
- · Low energy
- Application optimised software

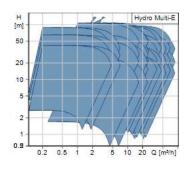
Options

External Communication



Hydro Multi-B E(S)

Turnkey booster systems



Technical Data

Flow (Q) max. 78 m³/h
Head (H) max. 113 m
Liquid temperature 0°C to 60°C
Operating pressure max. 16 bar

Applications

- Offices
- Schools
- Hotels
- Apartment blocks
- Shopping centres

Features and benefits

- Constant pressure
- Simple installation
- · Low-energy
- Wide range
- Small footprint
- Reliable

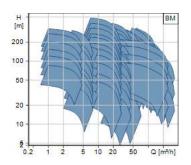
Options

External communication, Control 2000



BM, BMB

4", 6", 8" booster modules



Technical Data

Flow (Q) max. 327 m³/h
Head (H) max. 390 m
Liquid temperature 40°C
Operating pressure max. 70 bar

Applications

The booster modules are suitable for pressure boosting in

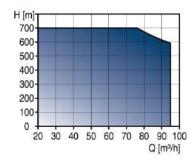
- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

- Various material versions
- Low-noise
- Simple installation
- Modular design
- Compact design
- Leakage-free



BME, BMET

Booster module with external motor



Technical Data

Flow (Q) max.	95 m³/ł
Head (H) max.	700 m
Liquid temperature	40°C
Operating pressure max.	70 bar

Applications

The booster systems are suitable for pressure boosting in

- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

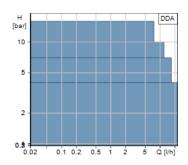
Features and benefits

- High-pressure/high-flow
- Low-energy
- Simple installation
- · Compact design



SMART Digital Sets DDA, DDC, DDE

Diaphragm dosing pump with internal stepper motor drive



Technical Data

Flow (Q) max.	30 l/h
Liquid temperature	-10°C to 45°C
Operating pressure max.	16 bar

Applications

- Water and wastewater treatment
- Process water
- Food and beverage industry
- Ultrafiltration and reverse osmosis
- Pulp and paper industry

Features and benefits

- Internal stroke-speed and frequency control
- Manual, pulse and 0/4-20 mA control
- Batch, timer cycle, timer week control
- FlowControl with selective fault diagnosis, pressure monitoring
- Integrated flow measurement and AutoFlowAdapt
- 0/4-20mA and 2 relay outputs
- Auto deaeration
- Power supply 100-240 V, 50/60 Hz.

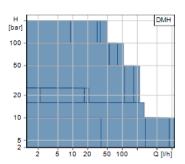
Options

• E-box for Profibus DP network.



DMH

Hydraulically driven diaphragm dosing pumps with external motor



Technical Data

Flow (Q) max.	2000 l /h
Liquid temperature	50°C
Operating pressure max.	200 bar

Applications

- Drinking water treatment
- Wastewater treatment (settlement/sludge treatment)
- Pulp/paper and textile industries

Features and benefits

- Robust design
- Stroke length adjustment
- Control options:
 - Pulse input
 - Analogue input
 - Level input from storage tank

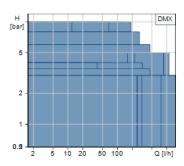
- Available with API 675 approval
- Available with ATEX approval





DMX

Diaphragm dosing pumps with external motor



Technical Data

Flow (Q) max.	2000 l/h
Liquid temperature	50°C
Operating pressure max.	10 bar

Applications

- · Drinking water treatment
- Wastewater treatment (settlement/sludge treatment)
- Pulp/paper and textile industries

Features and benefits

- Robust design
- Stroke length adjustment
- Control options:
 - Pulse input
 - Analogue input
 - Level input from storage tank



Oxiperm

Chlorine dioxide generating and dosing system

Technical Data

Dilute acid - chlorite generation:

Oxiperm OCD-162 5-60 g/h

Oxiperm OCD-164 30-2000 g/h

Concentrated acid - chlorite generation:

Oxiperm OCC-164 150 g/h - 10 kg/h

Chlorite - chlorine generation:

Oxiperm OCG-166 0.75 - 10 kg/h

Applications

Disinfection in

- Water and wastewater treatment systems
- Utility water
- Water conditioning
- Food and beverage processes
- Plant processes

Features and benefits

- Safe and reliable generation of chlorine dioxide through proven methods of superior disinfection
- Easy to use controls and operations
- High efficiency generation of chlorine dioxide with a minimum of by-products
- Low chemical consumption
- Batch and continuous feed generators
- · Fieldbus and alarm communication
- Generation using dilute or concentrated precursor chemicals



Selcoperm

Onsite sodium hypochlorite generators

Technical Data

Selcoperm electrolytic Cl₂ generator 125 g/h up to 2000 g/h

Applications

Disinfection in

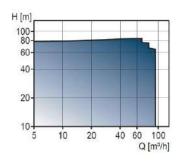
- Water and wastewater treatment systems
- Groundwater supply
- Utility water
- Water conditioning
- Food and beverage processes
- Plant processes

- Safe and reliable generation of stable sodium hypochlorite solutions on location to minimize risks and costs
- Generation of sodium hypochlorite with salt and electricity, reducing plant operation costs
- Integrated generation system that reduces hydrogen gas exposure
- Interlocked safety devices and control systems for easy operation
- No explosion proof environments required for installation
- Durable, long-lasting equipment requiring a minimum of service



Euro-HYGIA

Single-stage end-suction sanitary pumps



Technical Data

Flow (Q) max.

95 m³/h
(250 m³/h on
request)

Head (H) max.

85 m

Liquid temperature

95°C
(up to 150°C
on request)

Operating pressure max.

16 bar

Applications

- Liquid transfer in breweries and dairies
- Mixing in soft drink applications
- Food processing plants
- Pure water systems (WFI)
- Process pumping in pharmaceutical industry
- CIP (Cleaning-In-Place) systems.

Features and benefits

- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- Customised solutions
- Materials: AISI 316L (DIN EN 1.4404/1.4435)
- · Gentle media handling.

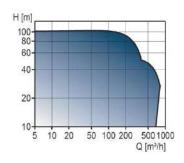
Options

· Wireless remote control, R100



MAXA, MAXANA

End-suction process pumps



Technical Data

Flow (Q) max.	800 m³/h
Head (H) max.	97 m
Liquid temperature	95°C (up to 150°C on request)
Operating pressure max.	10 bar

Applications

- Gentle pumping of mash and wort for beer filtration (hot side)
- Liquid transfer in dairies
- Water treatment plants
- Chemical and environmental handling systems
- Liquids with high content of solid particles.

Features and benefits

- Optimised hydraulics
- Gentle product handling
- Materials: AISI 316 (DIN EN 1.4404)
- Service and repair friendly.

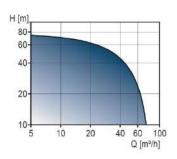
Options

- · Electronically speed controlled versions
- ATEX-certified pumps
- · Electro-polished versions
- Double mechanical shaft seals (tandem/back-to-back)



SIPLA

Compact horizontal end-suction pumps



Technical Data

Flow (Q) max.	55 m³/h
Head (H) max.	78 m
Liquid temperature	95°C
Operating pressure max.	10 bar

Applications

- CIP return pumping
- · Transfer of glycerine
- Transfer of yeast
- Transfer of whev

Features and benefits

- Meets the 3A hygienic standard
- · High air-content handling
- Efficient priming.

- Electronically speed controlled versions
- ATEX-certified pumps
- Fully cleanable versions





NOVAlobe

Sanitary rotary lobe pumps

Pump model	Displacement litres/rev	Max. diff. pressure (bar)
NOVAlobe 10/0.06	0.06	16
NOVAlobe 20/0.12	0.12	16
NOVAlobe 30/0.33	0.33	16
NOVAlobe 40/0.65	0.65	16
NOVAlobe 50/1.29	1.29	16

Technical Data

Differential pressure	up to 16 bar
Displacement	0.06 to 1.29 l/rev
Liquid temperature	95°C
Max. viscosity	1.000.000 cP

Applications

- Dairy industry
- Food processing plants
- Soft drink applications
- Confectionary and sugar
- Pharma/personal care
- Brewery industry

Features and benefits

- Interchangeable rotor and shaft seal designs
- Various connection types
- Large shaft diameter and compact design for high differential pressure
- Standard surface finish of Ra ≤ 0.8 μm for easy cleanability
- EHEDG-certified cleanability with full drainability in vertical installation

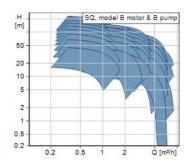
Options

- · Customised shaft seal solution
- Pressure relief valve
- Thermal jacket
- Aseptic front cover



SQ, SQE

3" Submersible pumps



Technical Data

Flow (Q) max.	9 m³/h
Head (H) max.	230 m
Liquid temperature	0°C to 40°C
Installation depth	max. 150 m

Applications

The pumps are suitable for

- Domestic water supply systems
- Groundwater supply to waterworks
- Irrigation in horticulture and agriculture
- Groundwater lowering
- Industrial applications

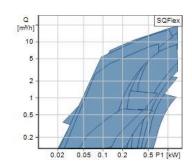
Features and benefits

- Integrated dry-running protection
- Soft start
- Over- and undervoltage protection
- High efficiency



SQFlex

Renewable-energy based water supply system



Technical Data

Flow (Q) max.	90 m³/day
Head (H) max.	120 m
Liquid temperature	0 °C to 40 °C
Voltage supply	30-300 VDC or 1x90-240 V 50 / 60 Hz
Installation depth	max. 150 m

Applications

The SQFlex systems are suitable for remote locations, such as

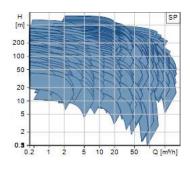
- Villages, schools, hospitals, singlefamily houses
- Farms and irrigation of greenhouses
- Game parks and game farms
- Conservation areas

- Energy supply: Solar modules, wind turbine, generator or batteries
- Simple installation
- Reliable water supply
- Virtually no maintenance
- Expansion possibilities
- · Cost-efficient pumping
- Dry-running protection



SP, SP A, SP-G

4", 6", 8" 10" Submersible pumps



Technical Data

Flow (Q) max. 417 m³/h
Head (H) max. 800 m
Liquid temperature 60°C
Installation depth max. 600 m

Applications

The pumps are suitable for

- Groundwater supply to waterworks
- Irrigation in horticulture and agriculture
- Groundwater lowering
- · Pressure boosting
- Industrial applications

Features and benefits

- High efficiency
- Long service life as all components are stainless steel
- Motor protection via CU 3

Options

 Data can be monitored and controlled via CU 3/R100



MS Motor

Stainless steel 4" and 6" submersible motors

Motor sizes

4" motor 0.25 to 7.5 kW6" motor 5.5 to 30 kW

Applications

The Grundfos MS submersible motors can be fitted on all Grundfos SP A, SP pumps and can be used in the high-pressure booster modules, type BM and BMB.

Features and benefits

- Overprotection by means of a built-in Tempcon temperature transmitter
- Standardized NEMA head and shaft end
- Completely encapsulated in stainless steel
- Liquid cooled and has liquid lubricated bearings

Options

Material variants available



MMS Motor

Stainless steel 6", 8", and 10" rewindable submersible motors

Motor sizes

6" motor
 8" motor
 10" motor
 3.7 to 37 kW
 22 to 110 kW
 10" motor
 92 to 190 kW

Applications

The Grundfos MMS submersible motors can be fitted on all Grundfos SP and SP-G pumps.

Features and benefits

- Wide range of rewindable motors
- Easily rewinded
- Protection against upthrust
- · High efficiency
- 6" and 8" have standardized NEMA head and shaft end
- Mechanical shaft seal ceramic/carbon or SiC/SiC
- PVC or PE/PA windings

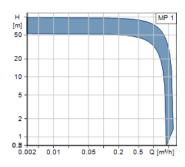
- Material variants available
- Overtemperature protection via Pt100





MP₁

Environmental pump



Technical Data

Flow (Q) max. $2.45 \text{ m}^3/\text{h}$ Head (H) max. 98 mLiquid temperature $0^{\circ}\text{C to }35^{\circ}\text{C}$

Applications

The pumps are suitable for

Sampling

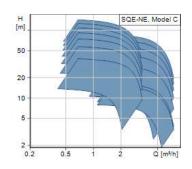
Features and benefits

- Compact design
- Fit into 50mm boreholes



SQE-NE, SP-NE

Submersible pumps for environmental use with variable speed motor



Technical Data

Flow (Q) max.	7.5 m³/h
Head (H) max.	144 m
Liquid temperature	0°C to 35°C
Installation depth	max. 600 m

Applications

The pumps are suitable for

- Pumping up contaminated groundwater
- Sampling
- Remedial pumping

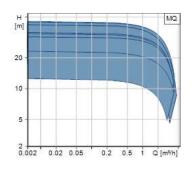
Features and benefits

- Integrated dry-running protection
- Soft start
- Over- and undervoltage protection
- High efficiency



MQ

Self-priming multistage centrifugal pumps



Technical Data

Flow (Q) max.	4.5 m³/h
Head (H) max.	45 m
Liquid temperature	0°C to 35°C
Operating pressure max.	7.5 bar

Applications

The pumps are suitable for liquid transfer in

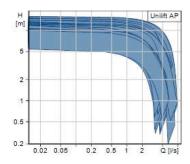
- Single- or two-family houses
- Weekend cottages
- Farms
- Greenhouses

- All-in-one pressure booster unit
- Easy to install
- Easy to operate
- · Self-priming
- Dry-running protection with automatic reset
- Low-noise
- Maintenance-free



KP, AP, AP35B, AP50B – stainless steel

Drainage, effluent and domestic sewage pumps



Technical Data

Flow (Q) max. 9 l/s Head (H) max. 15 m Liquid temperature 55°C

Particle size max. ø50 mm

Applications

The pumps are suitable for

- Drainage of flooded cellars
- Pumping of household wastewater
- Groundwater lowering
- Emptying of swimming-pools and excavations
- · Drainage of drain wells
- Emptying of tanks and reservoirs

Features and benefits

- Simple installation
- · Service- and maintenance-free

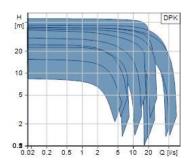
Options

- AP35 has vortex impeller
- AP50B has vortex impeller
- AP50B has auto-coupling and horizontal outlet



DPK

Drainage pumps



Technical Data

Flow (Q) max. 70 l/s
Head (H) max. 56 m
Liquid temperature 0°C to 40°C

Applications

The pumps are suitable for draining of

- · Underground building
- Industrial pits
- Storm water pits

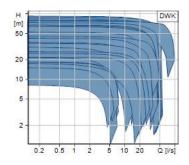
Features and benefits

- High-pressure capabilities
- Installation flexibility
- · Easy to service and maintain



DWK

Dewatering pump



Technical Data

Flow (Q) max. 98 l/s
Head (H) max. 91 m
Liquid temperature 0°C to 40°C

Applications

The pumps are suitable for draining of

- Construction sites
- Excavation sites
- Tunnels
- · Underground building
- Industrial pits
- Storm water pits

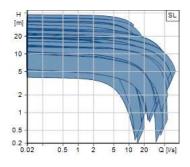
- Durability
- · Ductile/high-chrome impeller
- Easy to operate
- High efficiency
- Compact design
- High-pressure capabilities





SL1 / SLV

Sewage pumps



Technical Data

Flow (Q) max.	80 l/s
Head (H) max.	45 m
Liquid temperature	40°C

Applications

The SL pump is designed for the transfer of

- Drainage and surface water
- Domestic, municipal and industrial wastewater
- Process water

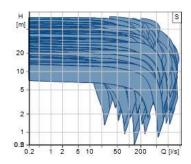
Features and benefits

- High motor efficiency.
- Intelligent adaptive controls
- Integrated analogue sensors
- Lifting handle designed for optimum point-of-balance and correct lifting.
- Patented SmartSeal auto-coupling gasket provides a completely leak-proof connection.
- Double mechanical shaft seal
- Short rotor shaft
- Choice of SuperVortex or S-tube impeller.
- Replaceable wear ring



S Range

Sewage pumps



Technical Data

Flow (Q) max.	1470 l/s
Head (H) max.	2 m
Liquid temperature	-5°C to 40 °C
Column pipe diameter	DN300, DN500, and DN800

Applications

The pumps are suitable for

- Transfer of wastewater
- Transfer of raw water
- Pumping of sludge-containing water
- Pumping of industrial effluent

Features and benefits

- Wide range
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection
- Stainless steel versions



KPL / KWM

Axial and mixed flow pumps

Technical Data

Flow (Q) max. 11,700 l/s Head (H) max. 40 m

Applications

The pumps are suitable for

- Flood and storm water control
- Large-volume drainage and irrigation
- Raw-water intake
- Circulation of large quantities of water Water-level control in coastal and low-
- Filling and emptying of dry docks and harbour installations
- Filling or emptying of reservoirs
- Treated sewage

lying areas

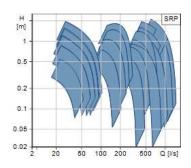
- Cooling-water intake in power stations
- Process and discharge water
- Other low- to medium-head/high-flow applications

- Quality products
- Robust, reliable and cost-effective
- Available in cast iron or stainless steel
- Aluminium bronze or stainless steel propeller
- High-voltage models, up to 10 kV
- Pump and motor size up to 1 MW



SRP

Submersible recirculation pumps



Technical Data

Flow (Q) max. 1880 l/s
Head (H) max. 80 m
Liquid temperature 40°C
Discharge diameter DN 80 to DN 500
Particle size max. ø145 mm

Applications

The pumps are suitable for

- Re-circulation of sludge within sewage treatment plants
- Storm water pumping

Features and benefits

- High efficiency stainless steel propeller
- Totally submerged installations
- Built-in motor protection

Options

Control and protection systems



AMD, AMG, AFG

Mixers and flowmakers

Technical Data

The mixers and flowmakers are equipped with propellers made of stainless steel or composite material with a diameter between 180 mm and 2300 mm and a rotation speed between 22 min-1 and 1400 min-1.

Features and benefits

- Wide range of flexible installation accessories
- Easy to maintain and service without use of special tools
- Electronic leak sensor in gearbox/shaft seal housing
- Shaft seal protected against abrasive materials
- Self-cleaning stainless steel or polyamide propellers



Diffuser

Aeration system

Applications

- Process tanks at municipal or industrial wastewater treatment plant
- SBR or MBR systems
- Stabilisation and equalisation tanks
- Aerobic digestion
- · Grit and grease removal
- Flotation

- Complete systems designed specifically to meet process oxygen demands
- Possibility for high diffuser density to give maximum oxygen transfer efficiency
- Custom-made solutions available as fixed or retractable systems
 - Retractable system for easy maintenance
 - Fixed system cost-effective in large systems
- Different materials are used for membranes, pipes and supports, according to system operating conditions
- Pre-assembled air distribution systems with one-bolt connections minimise construction time on site
- Mechanically-connected air distribution piping with sliding allows for expansion and contraction due to temperature variations
- Fully adjustable piping supports in stainless steel for flexibility in installation
- Automatic or manual purge systems reduce friction losses in air distribution piping
- Broad range of fine, medium or coarse bubble diffusers in both disc and tubular designs
- Pre-assembled diffuser units minimise installation time and eliminate incorrect assembly on site
- Flexible membranes ensure uniform air distribution over the entire surface across a wide range of air flow rates.





Control MPC

Pump controller

Technical Data

Grundfos Control MPC is a control cabinet with a CU 352 controller that permits monitoring and control of up to six identical pumps connected in parallel.

Control MPC supports communication with monitoring equipment or other external units via a number of different fieldbus protocols:

- Ethernet (VNC server is standard in Control MPC)
- PROFIBUS via CIM modules
- LON via CIM modules
- Modbus via CIM modules
- GSM and GPRS via CIUMmodules
- PLC via IO 351B modules

Features and benefits

- · Efficient cascade control
- Lager color screen
- Setpoint influence
- Individual pump control
- Alternative setpoints
- Clock program
- Proportional pressure regulation
- Alternation
- Standby pumps
- Pump test run
- Pilot pumps
- Stop at low flow function
- Soft pressure build-up function (minimises risk of water hammer)
- Emergency run
- Flow estimation
- Dry running protection
- Log function



CUE

Frequency converter

Applications

The CUE provides a series of predefined functions which make the converters easy to use in almost all application areas.

Predefined control modes available such as

- Constant pressure
- Proportional pressure
- Constant level
- Constant flow

CUE offers the following inputs and output:

- RS-485 GENIbus
- an analog 0-10 V input for external setpoint
- an analog 0/4-20 mA input for sensor
- four digital inputs for various functions, for instance external start/stop
- two signal relays (C/NO/NC)

Features and benefits

- Speed control of pumps up to 250 kW
- Simple set-up
- Predefined control modes
- Predefined range of sensors
- Predefined pump family data
- Shares interface with control equipment
- Additional functions available
- Automatic setting of direction of rotation
- 16 steps to get a system up and running

Options

- Input/output add-on board
- Provides additional input:
 - one 0/4-20 mA analog input for an additional sensor
 - one 0-20 mA analog output
 - two inputs for Pt100/Pt1000 temperature sensors, for instance for bearing monitoring.





CU 3, CU 300, CU 301

Control and monitoring unit

Applications

 Monitoring and protection of pumps installations

Features and benefits

- Protection against dry running and too high motor temperature
- Constant monitoring of pump energy consumption
- Reading out of operating data via R100

Options

- Connection to large control systems via bus-communication
- Connection of sensors enabling control based on sensor signal

R 100

Wireless remote control

Application

 All pumps and electronics designed for wireless communications

- Simple and quick installation and configuration
- of the pump controls
- Read out of various operating and fault
- signals
- Troubleshooting
- Print out of status information



MP 204

Control and monitoring unit

Technical Data

Approvals on nameplate UL, IEC, EN, CE
Ambient temperature -20°C to 60°C
Rated current 3 to 120 A
Mains frequency 60Hz
Rated voltage 1/3 x 100-480V
Enclosure class (IEC 34-5) 20

Applications

 Monitoring and protection of pump installations

Features and benefits

- Protection against dry running
- Protection against too high motor temperature
- Protection against overload
- Protection against overvoltage and undervoltage,
- Protection against current and phase imbalance
- Constant monitoring of power consumption



LiqTec

Control and monitoring unit

Technical Data

Approvals on nameplate CU, CUL
Ambient temperature max. 55°C
Liquid temperature max. 120°C
Operating pressure max. 40 bar
Mains frequency 60Hz
Rated voltage 80-130V
Enclosure class (IEC 34-5) IP X0

Applications

 Monitoring and protection of pumps and processes

Features and benefits

- Protection against dry running
- Protection against liquid temperatures exceeding 130°C ±5°C
- Protection against too high motor temperatures
- Manual or automatic restarting possible from a remote PC
- Simple installation plug and play technology
- If the sensor, sensor cable, electronic unit or power supply fails, the pump stops immediately



Tanks

Diaphragm and bladder tanks

Technical Data

Tank size 8-3000 l Liquid temperature max. 99°C Operating pressure max. 16 bar

Applications

The diaphragm and bladder tanks are used in

- Water supply systems in housing
- Pressure boosting systems in housing
- Agriculture
- Horticulture
- Industrial systems

- Optimal water supply
- Reduced number of pump starts
- Ideal for drinking water

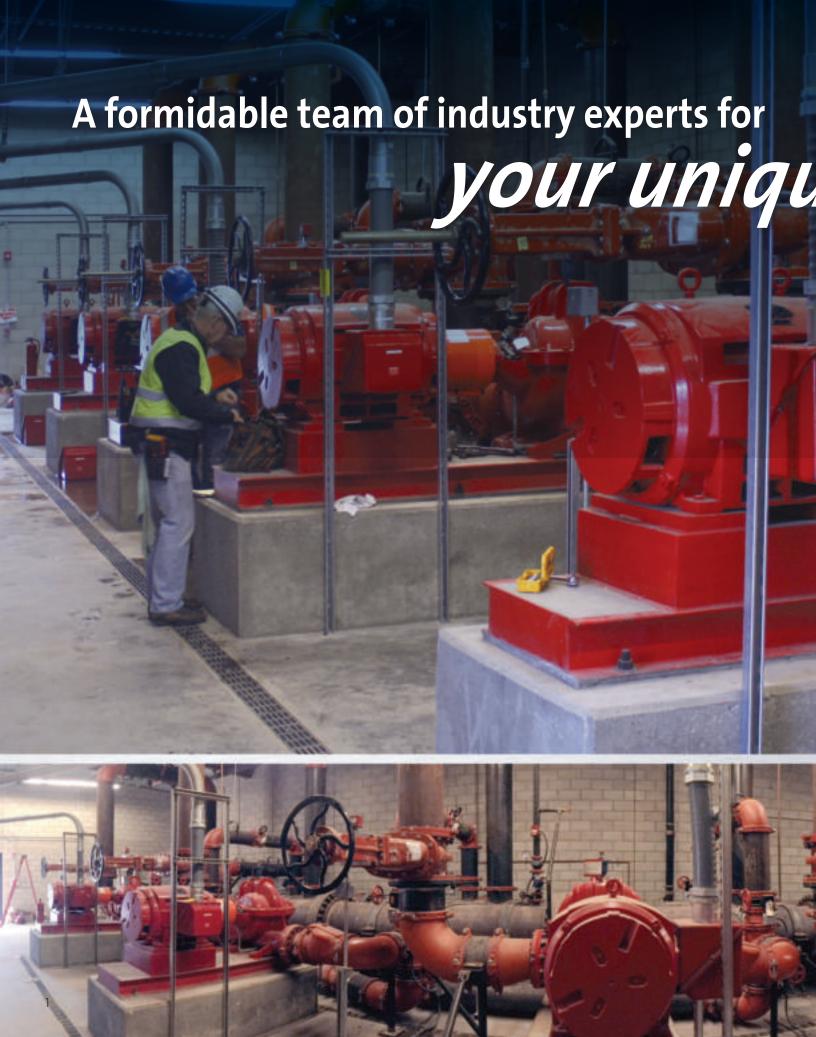


Peerlees Fire Pumps

- Vertical Turbine Fire Pumps
- End Suction Fire Pumps
- Split Case Fire Pumps











Peerless Fire Pump Units and Enclosed Packaged Systems

Thousands of Peerless Pump installations (UL, ULC or FM approved) deliver superior fire protection to facilities worldwide. For over eighty years Peerless Pump has been offering complete service, from engineering assistance to in-house fabrication to field start-up. Products are designed from a broad selection of pumps, drives, controls, baseplates and accessories. Fire pump choices include horizontal split case, and end suction centrifugal, as well as vertical turbines pumps.



The Right Solution for Reliability

Reliability is one of the hallmarks of Peerless Pump technology, and it's built into every aspect of our distinctive pump designs. Our mindset is to construct pumps of the highest quality by paying attention to the details and investing in innovative research and development.

Building contractors, specifying engineers and facility managers alike trust the recognized global leader in pump technology and solutions. They look to Grundfos' expertise in developing new and improved ways to meet water and energy challenges in commercial buildings. Arriving at a solution that works requires the merging of many professional skill sets. Choosing Grundfos as your partner extends beyond sale and delivery and offers a unique collaborative partnership.

Providing Pumping Solutions to the Global Commercial / Fire Market, Peerless Can Fulfill Your Requirements:

- Recognized leader in the fire pump industry
- Thousands of installations of all sizes and types
- Represented by fully qualified personnel in most major U.S. and international cities
- Complete in-house fabrication capabilities
- Mechanical-run test capabilities
- Horizontal models for capacities to 5,000 gpm

- Vertical models for capacities to 5,000 gpm
- In-line models for capacities to 1,500 gpm
- End suction models for capacities to 500 gpm
- Drives: electric motor or diesel engine
- Basic units, packaged systems, and engineered enclosures



A unique collaborative partnership that extends beyond the sale and delivery

Custom Designs

Engineered designs for unusual applications have always been a specialty for Grundfos. From submersibles to end-suction pumps, no application is beyond our technical expertise. Drawing upon our many years of engineering and manufacturing experience is the best way to solve your difficult application, whether it's temperature extremes, or complex configurations.

Anticipating the future

Grundfos invests 5% of its annual revenue into research and development, with nearly 18,000 employees in 55 countries, dedicated to addressing the challenges of tomorrow, today.





Our Competencies

With the most efficient selections and superior local representation, we endeavor to partner with the fire protection contracting community to create the best value possible for each project.

Our long history of innovation in engineered pump systems for building management has opened doors and created a sizeable opportunity for optimizing installations in commercial structures.

Peerless Pump offers both modular and integrated solutions that further simplify installations and commissioning. These reliable solutions are a result of producing the most optimized pump hydraulics, hydraulics and accessories to make everything work holistically while communicating efficiently with the central system controller.

A recognized global leader in fire pump systems and accessories.

The Full Range of Possibilities

Grundfos offers total fire pumping solutions on any scale. Our expertise in the full range of fire pump products and application areas in the commercial buildings sector can be tailored to your specific requirements.



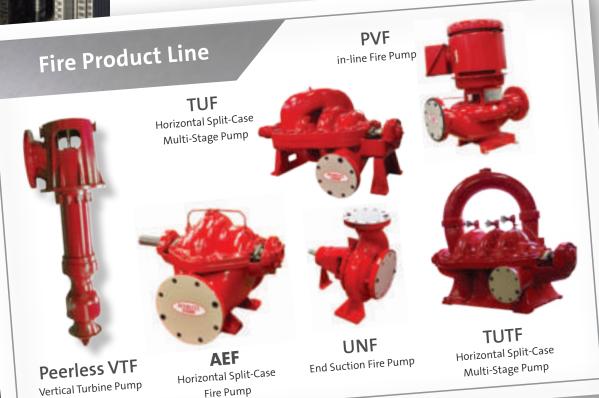


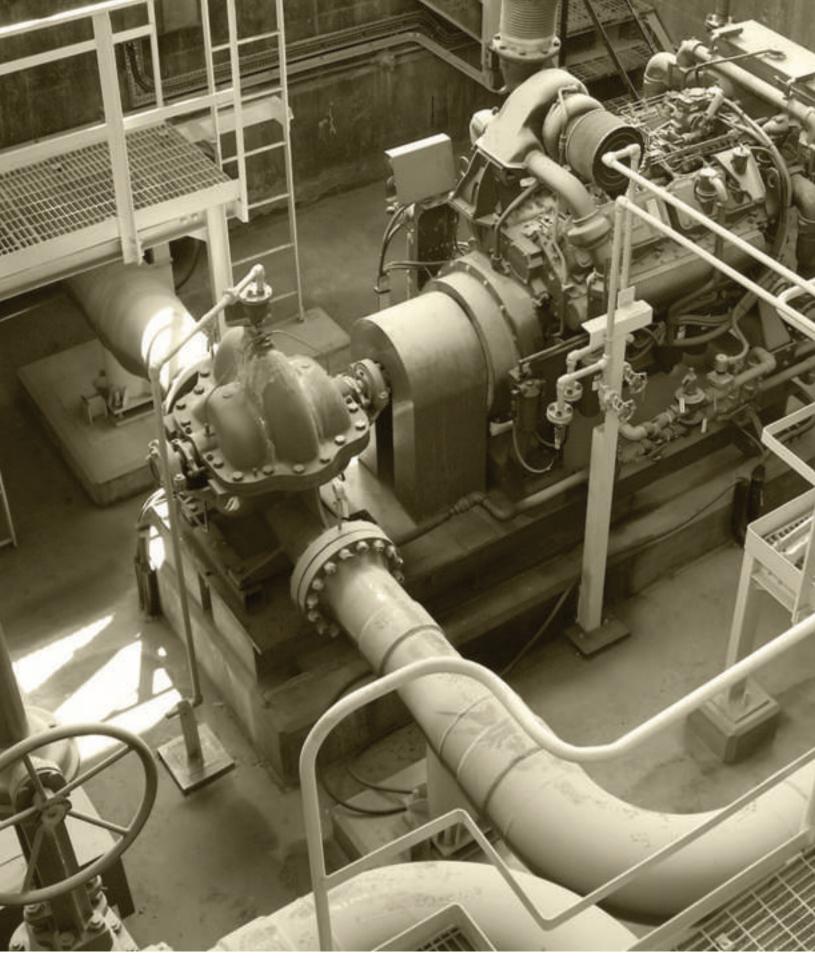
The Peerless Pump Fire Pump Units, Systems, and Enclosed Packaged Systems

Applications vary from small, basic electric motor units to diesel engine driven, enclosed, packaged systems. Standard units are designed to handle fresh water, but special materials are available for sea water applications.

Each enclosed pumping solution is typically a one-of-a-kind, configured by Peerless engineers to meet a specific application and operating condition.

Peerless Pump - A reliable global solution to commercial building and industrial applications





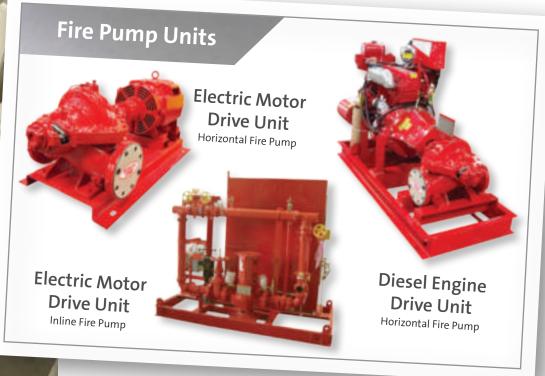
Ft. Wayne Hill Treatment Facility, Gwinnett County, GA



A Reliable Answer to Commercial Building Solutions

Peerless Pump can help you solve your unique needs and challenges, ensuring that the necessary fire protection water flow will meet facility demands and regulations when called upon. This is achieved by using a proven range of durable, horizontal, inline, end suction and vertical turbine pumps. These pumps are uniquely designed to deliver by reacting automatically to changing demands and conditions. To suit each situation, we supply the expertise to ensure that pumps and motors or engines are applied correctly.

Proven pumping systems for changing and demanding conditions





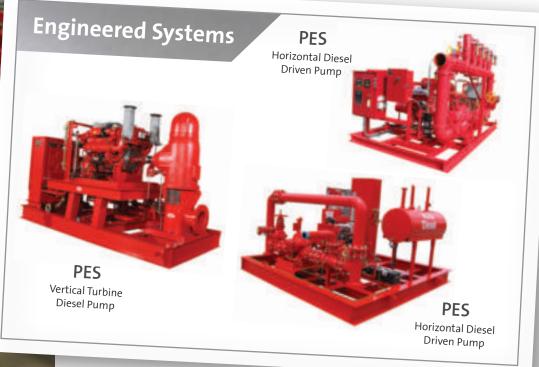


The Peerless Pump Fire Pump Units and Enclosed Packaged Systems

Thousands of Peerless Pump installations (UL, ULC or FM approved) deliver superior fire protection to facilities worldwide. For over eighty years Peerless Pump has been offering complete service, from engineering assistance to in-house fabrication to field start-up. Products are designed from a broad selection of pumps, drives, controls, baseplates and accessories. Pump choices include horizontal, in-line and end suction centrifugal fire pumps as well as vertical turbines

State of the art engineered systems arrive ready to install

Applications vary from small, basic electric motor units to diesel engine driven, enclosed, packaged systems. Standard units are designed to handle fresh water, but special materials are available for sea water applications.

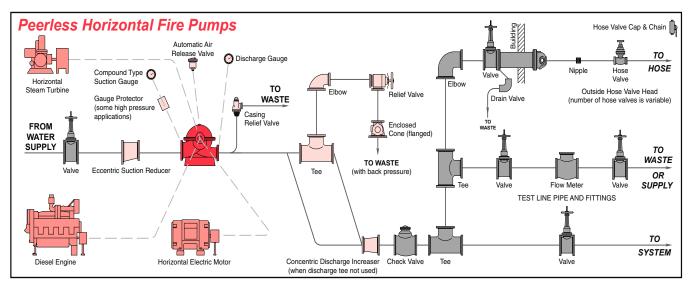


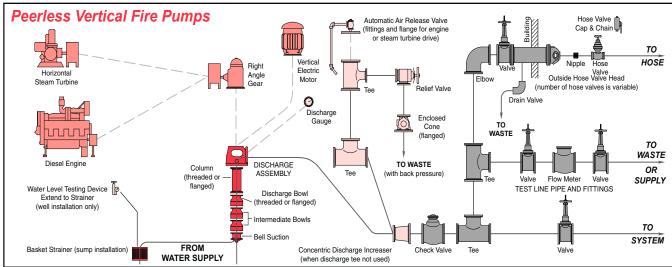
Accessories

To meet the rigorous requirements of the NFPA 20 standards, certain accessories are required for all fire pump installations. They will vary, however, to fit the needs of each individual installation and the requirements of the local authority having jurisdiction. Peerless Pump provides a wide range of fire pump fittings which include: concentric discharge increaser, casing relief valve, eccentric suction reducer, increasing discharge tee, overflow cone, hose valve head, hose valves, hose valve caps and chains, suction and discharge gauges, relief

valve, automatic air release valve, flow meter, and ball drip valve. No matter what the requirements, Peerless Pump has a complete line of accessories available and can satisfy the requirements of each installation.

The charts below graphically illustrate the many accessories as well as the optional drives that are available with all Peerless fire pumps and packaged systems.





Fire Product Line

Features and Specifications

	Horizontal Fire Pumps, UL Listed, ULC Listed and FM Approved	In-Line Fire Pumps, UL and ULC Listed	End Suction Fire Pumps, UL Listed and FM Approved	Vertical Fire Pumps UL Listed, ULC Listed and FM Approved
Туре	Horizontal centrifugal pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Types AF, ADF, AEF, TUF, TUTF.	Compact in-line centrifugal fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Type PVF.	End suction centrifugal fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards. Type UNF.	Vertical turbine pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants and yards.
Capacities	250 to 5,000 gpm (57 to 1,136 m³/hr)	50 to 1,500 gpm (11 to 341 m³/hr)	Up to 1,500 gpm (341 m ³ /hr)	250 to 5,000 gpm (57 to 1,136 m³/hr)
Head	92 to 1178 feet (28 to 359 meters)	Up to 406 feet (123 meters)	Up to 367 feet (112 meters)	92 to 1,176 feet (28 to 359 meters)
Pressure	Up to 640 psi (45 kg/cm², 4,414 kPa)	Up to 175 psi (12 kg/cm², 1,207 kPa)	Up to 159 psi (11.2 kg/cm², 1,096 kPa)	Up to 500 psi (35.15 kg/cm², 3,515 kPa)
Horsepower	Up to 800 hp (597 kW)	Up to 125 hp (93 kW)	Up to 210 hp (157 kW)	Up to 600 hp (448 kW)
Drives	Horizontal electric motors, and diesel engines	Vertical close coupled electric motors	Horizontal electric motors and diesel engines	Vertical electric motors and diesel engines with right angle gears
Liquids Pumped	Water.	Water.	Water.	Water.
Temperature	Ambient within the limits for satisfactory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Ambient within the limits for satisfactory equipment operation.	Up to 115°F (46°C)
Materials of Construction	Cast iron, bronze fitted as standard. Optional materials available for sea water applications.	Cast iron, bronze fitted.	Cast iron, bronze fitted.	Cast iron, bronze fitted as standard. Optional materials available for sea water applications.







wilo WILO Water Pumps

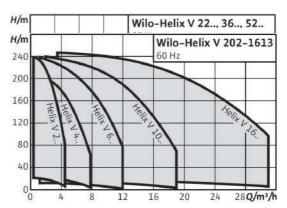
- Water booster pumps
- Submerisble pumps
- Chilled water pumps
- Irrigations pumps





Series description: Wilo-Helix V





Pump curves in accordance with ISO 9906, class 2

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical design, made of stainless steel throughout, with in-line connections

- Water supply and pressure boosting
- Industrial circulation systems
- Process water
- Cooling water circulation systems
- Fire extinguishing systems
- Washing systems
- Irrigation

Versions with 1.44xx stainless steel for aggressive fluids

Type key

Example:	Helix V1602-1/16/E/K//380-60
Helix V	Vertical, multistage high-pressure centrifugal pump in in-
nelix v	line design
16	Volume flow in m ³ /h
02	Number of impellers
1	Pump material

Equipment/function

Corrosion-resistant impellers, diffusors and stage housing

- Description/design
 Pumps can be adapted to specific uses on request (e.g. motor protection, AteX, expanded ambient temperature range).
- The Helix series is also available with integrated frequency converter

Materials

- Standard version
 - Impellers and stage housing made of stainless steel 1.4307
 - Pump housing made of stainless steel 1.4301.
 - Baseplate and lantern in EN-GJL-250 (cataphoretic coated)
 - Shaft in stainless steel 1.4301 or 1.4462 (depending on model)
 - Sleeve underneath the mechanical seal 1.4404
 - O-ring made of EPDM (FKM gasket on request)
 - Jacket pipe made of stainless steel 1.4301
 - Impellers, stage housing and diffusors made of stainless steel
 - Pump housing made of stainless steel 1.4404.
 - Shaft of stainless steel 1.4404 or 1.4462 (depending on model)
 - Sleeve under the mechanical seal 1.4404
 - O-ring made of EPDM (FKM gasket on request)
 - Jacket pipe made of stainless steel 1.4404



Series description: Wilo-Helix V

	1 =	Pump housing 1.4301 (AISI 304) hydraulics 1.4307 (AISI 304L)	
	2 =	Pump housing 1.4404 (AISI 316L) hydraulics 1.4404 (AISI 316L)	
E	Seal type E = EPDM V = FKM		
K	Mechanical seal in cartridge design		
••	Optional		
380	Connection voltage in V		
60	Frequency in Hz		

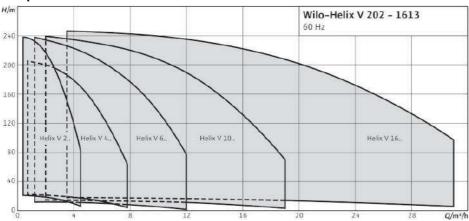
- Special features/product advantages
 Efficiency-optimised, laser-welded 2D/3D high-efficiency hydraulics
- IEC standard motor conform with INMETRO PORTARIA 488, 3-phase, 2 pole (IE3 on request)
- The entire HELIX series is available with a user-friendly X-Seal cartridge mechanical seal (with standard gasket) which allows fast and easy
- The spacer coupling enables the mechanical seal to be replaced without dismantling the motor (from 7.5 kW and higher)
- The new flexible lantern design, which is available in two alignments, enables direct access to the mechanical seal.
- Additional roller bearing in the lantern for maximum compensation of the hydraulic axial thrust and for use of standard motors
- Specially designed, permanently attached lifting eyes for easy pump
- The terminal box is normally positioned aligned with the suction flange, but this can be changed if needed
- Intermediate bearings (AI203/CW) ensure a long service life
- Corrosion-resistant shaft thanks to stainless steel sleeve
- WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version)

- **Scope of delivery** Multistage high-pressure centrifugal pump Helix V
- Counter flanges with corresponding screws and O-rings (PN16 variant) or bolts and gaskets if a counter flange is used (PN25 variant)
- Installation and operating instructions
- Integrated funnel for easier pump filling



Duty chart: Wilo-Helix V

Pump curves Helix V

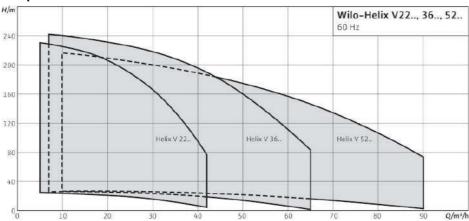


Pump curves in accordance with ISO 9906, class 2



Duty chart: Wilo-Helix V

Pump curves Helix V



Pump curves in accordance with ISO 9906, class 2



Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor power	Gross weight	Art no.
			P ₂ /kW	m/kg	
Helix V 202	3~460 V, 60 Hz	PN 16	0.37	26.0	4192388
Helix V 203	3~460 V, 60 Hz	PN 16	0.55	28.0	4192389
Helix V 204	3~460 V, 60 Hz	PN 16	0.55	28.0	4192390
Helix V 205	3~460 V, 60 Hz	PN 16	0.75	33.0	4192391
Helix V 206	3~460 V, 60 Hz	PN 16	1.1	35.0	4192392
Helix V 207	3~460 V, 60 Hz	PN 16	1.1	35.0	4192393
Helix V 208	3~460 V, 60 Hz	PN 16	1.1	36.0	4192394
Helix V 209	3~460 V, 60 Hz	PN 16	1.5	40.0	4192395
Helix V 210	3~460 V, 60 Hz	PN 16	1.5	41.0	4192396
Helix V 211	3~460 V, 60 Hz	PN 16	1.5	41.0	4192397
Helix V 212	3~460 V, 60 Hz	PN 16	2.2	45.0	4192398
Helix V 213	3~460 V, 60 Hz	PN 25	2.2	48.0	4192399
Helix V 214	3~460 V, 60 Hz	PN 25	2.2	48.0	4192400
Helix V 216	3~460 V, 60 Hz	PN 25	2.2	49.0	4192401
Helix V 218	3~380/460 V, 60 Hz	PN 25	3.0	68.0	4192402
Helix V 220	3~380/460 V, 60 Hz	PN 25	3.0	69.0	4192403
Helix V 220	3~380/460 V, 60 Hz	PN 30	3.0	73.0	4192407
Helix V 222	3~380/460 V, 60 Hz	PN 25	3.0	70.0	4192404
Helix V 222	3~380/460 V, 60 Hz	PN 30	3.0	74.0	4192408
Helix V 224	3~380/460 V, 60 Hz	PN 30	4.0	87.0	4192405
Helix V 227	3~380/460 V, 60 Hz	PN 30	4.0	88.0	4192406
Helix V 402	3~460 V, 60 Hz	PN 16	0.55	27.0	4192409
Helix V 403	3~460 V, 60 Hz	PN 16	0.75	30.0	4192410
Helix V 404	3~460 V, 60 Hz	PN 16	1.1	33.0	4192411
Helix V 405	3~460 V, 60 Hz	PN 16	1.1	34.0	4192412
Helix V 406	3~460 V, 60 Hz	PN 16	1.5	38.0	4192413
Helix V 407	3~460 V, 60 Hz	PN 16	1.5	39.0	4192414
Helix V 408	3~460 V, 60 Hz	PN 16	2.2	43.0	4192415
Helix V 409	3~460 V, 60 Hz	PN 16	2.2	43.0	4192416
Helix V 410	3~460 V, 60 Hz	PN 16	2.2	44.0	4192417
Helix V 411	3~380/460 V, 60 Hz	PN 16	3.0	49.0	4192418
Helix V 412	3~380/460 V, 60 Hz	PN 25	3.0	52.0	4192419
Helix V 413	3~380/460 V, 60 Hz	PN 25	3.0	53.0	4192420
Helix V 414	3~380/460 V, 60 Hz	PN 25	4.0	76.0	4192421
Helix V 416	3~380/460 V, 60 Hz	PN 25	4.0	77.0	4192422
Helix V 418	3~380/460 V, 60 Hz	PN 25	4.0	78.0	4192423
Helix V 602	3~460 V, 60 Hz	PN 16	0.75	30.0	4192425
Helix V 603	3~460 V, 60 Hz	PN 16	1.1	34.0	4192426
Helix V 604	3~460 V, 60 Hz	PN 16	1.5	39.0	4192427
Helix V 605	3~460 V, 60 Hz	PN 16	2.2	43.0	4192428
Helix V 606	3~460 V, 60 Hz	PN 16	2.2	44.0	4192429
Helix V 607	3~380/460 V, 60 Hz	PN 16	3.0	50.0	4192430
Helix V 608	3~380/460 V, 60 Hz	PN 16	3.0	51.0	4192431
Helix V 609	3~380/460 V, 60 Hz	PN 16	4.0	62.0	4192432
Helix V 610	3~380/460 V, 60 Hz	PN 16	4.0	76.0	4192433
Helix V 611	3~380/460 V, 60 Hz	PN 25	4.0	79.0	4192434
Helix V 612	3~380/460 V, 60 Hz	PN 25	5.5	78.0	4192435
Helix V 614	3~380/460 V, 60 Hz	PN 25	5.5	80.0	4192436
Helix V 616	3~380/460 V, 60 Hz	PN 25	5.5	82.0	4192437
Helix V 616	3~380/460 V, 60 Hz	PN 30	5.5	87.0	4192442
Helix V 617	3~460 V, 60 Hz	PN 25	7.5	121.0	4192438
Helix V 617	3~460 V, 60 Hz	PN 30	7.5	126.0	4192443
Helix V 619	3~460 V, 60 Hz	PN 25	7.5	122.0	4192439
Helix V 619	3~460 V, 60 Hz	PN 30	7.5	127.0	4192444
Helix V 621	3~460 V, 60 Hz	PN 30	7.5	129.0	4192440
Helix V 623	3~460 V, 60 Hz	PN 30	9.0	183.5	4192441
Helix V 1002	3~460 V, 60 Hz	PN 16	1.5	43.0	4192446
Helix V 1003	3~460 V, 60 Hz	PN 16	2.2	47.0	4192447



Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor power	Gross weight	Art no.
			P ₂ /kW	m /kg	
Helix V 1004	3~380/460 V, 60 Hz	PN 16	3.0	51.0	4192448
Helix V 1005	3~380/460 V, 60 Hz	PN 16	4.0	63.0	4192449
Helix V 1006	3~380/460 V, 60 Hz	PN 16	4.0	64.0	4192450
Helix V 1007	3~380/460 V, 60 Hz	PN 16	5.5	64.0	4192451
Helix V 1008	3~380/460 V, 60 Hz	PN 16	5.5	65.0	4192453
Helix V 1009	3~380/460 V, 60 Hz	PN 25	5.5	76.0	4192454
Helix V 1010	3~460 V, 60 Hz	PN 25	7.5	88.0	4192455
Helix V 1011	3~460 V, 60 Hz	PN 25	7.5	90.0	4192456
Helix V 1012	3~460 V, 60 Hz	PN 25	9.0	139.5	4192457
Helix V 1013	3~460 V, 60 Hz	PN 25	9.0	141.5	4192458
Helix V 1014	3~460 V, 60 Hz	PN 25	9.0	142.5	4192459
Helix V 1016	3~460 V, 60 Hz	PN 25	11.0	159.5	4192460
Helix V 1016	3~460 V, 60 Hz	PN 30	11.0	220.0	4192462
Helix V 1602	3~380/460 V, 60 Hz	PN 16	3.0	52.0	4192464
Helix V 1603	3~380/460 V, 60 Hz	PN 16	4.0	63.0	4192465
Helix V 1604	3~380/460 V, 60 Hz	PN 16	5.5	87.0	4192466
Helix V 1605	3~460 V, 60 Hz	PN 16	7.5	87.0	4192467
Helix V 1606	3~460 V, 60 Hz	PN 16	7.5	88.0	4192468
Helix V 1607	3~460 V, 60 Hz	PN 16	9.0	138.5	4192469
Helix V 1608	3~460 V, 60 Hz	PN 16	11.0	126.5	4192470
Helix V 1609	3~460 V, 60 Hz	PN 25	11.0	132.5	4192471
Helix V 1610	3~460 V, 60 Hz	PN 25	15.0	223.0	4192472
Helix V 1611	3~460 V, 60 Hz	PN 25	15.0	223.0	4192473
Helix V 1611	3~460 V, 60 Hz	PN 30	15.0	233.0	4192478
Helix V 1612	3~460 V, 60 Hz	PN 25	15.0	223.0	4192474
Helix V 1612	3~460 V, 60 Hz	PN 30	15.0	233.0	4192479
Helix V 1613	3~460 V, 60 Hz	PN 25	18.5	264.0	4192475
Helix V 1613	3~460 V, 60 Hz	PN 30	18.5	274.0	4192480
Helix V 1614	3~460 V, 60 Hz	PN 30	18.5	274.0	4192476
Helix V 1615	3~460 V, 60 Hz	PN 30	18.5	274.0	4192477
Helix V 2201	3~460 V, 60 Hz	PN 16	2.2	77.0	4192556
Helix V 2202/2	3~380/460 V, 60 Hz	PN 16	4.0	90.0	4192557
Helix V 2202	3~380/460 V, 60 Hz	PN 16	5.5	92.0	4192558
Helix V 2203/2	3~380/460 V, 60 Hz	PN 16	5.5	91.0	4192559
Helix V 2203	3~460 V, 60 Hz	PN 16	7.5	100.0	4192560
Helix V 2204/3	3~460 V, 60 Hz 3~460 V, 60 Hz	PN 16	7.5	117.0	4192561
Helix V 2204 Helix V 2205/3	3~460 V, 60 Hz	PN 16 PN 16	11.0 11.0	136.5 134.5	4192562 4192563
Helix V 2205/5	3~460 V, 60 Hz	PN 16	11.0	134.5	4192564
Helix V 2205 Helix V 2206/3	3~460 V, 60 Hz	PN 25	15.0	202.0	4192565
Helix V 2206/3	3~460 V, 60 Hz	PN 25	15.0	203.0	4192566
Helix V 2207/1	3~460 V, 60 Hz	PN 25	15.0	204.0	4192567
Helix V 2208	3~460 V, 60 Hz	PN 25	18.5	218.0	4192568
Helix V 2209	3~460 V, 60 Hz	PN 25	22.0	220.0	4192569
Helix V 2210	3~460 V, 60 Hz	PN 30	22.0	249.0	4192570
Helix V 2211	3~460 V, 60 Hz	PN 30	30.0	321.2	4192571
Helix V 3601/1	3~380/460 V, 60 Hz	PN 16	4.0	102.0	4192572
Helix V 3601	3~380/460 V, 60 Hz	PN 16	5.5	101.0	4192573
Helix V 3602/1	3~460 V, 60 Hz	PN 16	9.0	145.5	4192575
Helix V 3602/2	3~460 V, 60 Hz	PN 16	7.5	130.0	4192574
Helix V 3602	3~460 V, 60 Hz	PN 16	11.0	150.5	4192576
Helix V 3603/1	3~460 V, 60 Hz	PN 25	15.0	213.0	4192578
Helix V 3603/2	3~460 V, 60 Hz	PN 25	15.0	213.0	4192577
Helix V 3603	2 460 4 60 117	PN 25	15.0	213.0	4192579
	3~460 V, 60 Hz				
Helix V 3604/1	3~460 V, 60 Hz	PN 25	18.5	227.0	4192581
·			18.5 18.5	227.0 227.0	4192581 4192580
Helix V 3604/1 Helix V 3604/2 Helix V 3604	3~460 V, 60 Hz	PN 25			



Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor	Gross weight	Art no.
			P ₂ /kW	m /kg	
Helix V 3605/2	3~460 V, 60 Hz	PN 25	22.0	229.0	4192583
Helix V 3605	3~460 V, 60 Hz	PN 25	30.0	299.2	4192585
Helix V 3606/1	3~460 V, 60 Hz	PN 25	30.0	330.2	4192587
Helix V 3606/2	3~460 V, 60 Hz	PN 25	30.0	330.2	4192586
Helix V 3606	3~460 V, 60 Hz	PN 25	30.0	330.2	4192588
Helix V 3607/1	3~460 V, 60 Hz	PN 30	37.0	336.2	4192590
Helix V 3607/2	3~460 V, 60 Hz	PN 25	37.0	336.2	4192589
Helix V 3607	3~460 V, 60 Hz	PN 30	37.0	336.2	4192591
Helix V 3608/2	3~460 V, 60 Hz	PN 30	37.0	337.2	4192592
Helix V 5201/1	3~380/460 V, 60 Hz	PN 16	5.5	113.0	4192593
Helix V 5201	3~460 V, 60 Hz	PN 16	7.5	139.0	4192594
Helix V 5202/1	3~460 V, 60 Hz	PN 16	11.0	160.5	4192596
Helix V 5202/2	3~460 V, 60 Hz	PN 16	11.0	160.5	4192595
Helix V 5202	3~460 V, 60 Hz	PN 25	15.0	223.0	4192597
Helix V 5203/1	3~460 V, 60 Hz	PN 25	18.5	235.0	4192599
Helix V 5203/2	3~460 V, 60 Hz	PN 25	18.5	235.0	4192598
Helix V 5203	3~460 V, 60 Hz	PN 25	22.0	238.0	4192600
Helix V 5204/1	3~460 V, 60 Hz	PN 25	30.0	339.2	4192602
Helix V 5204/2	3~460 V, 60 Hz	PN 25	22.0	239.0	4192601
Helix V 5204	3~460 V, 60 Hz	PN 25	30.0	339.2	4192603
Helix V 5205/2	3~460 V, 60 Hz	PN 25	30.0	343.2	4192604
Helix V 5205	3~460 V, 60 Hz	PN 25	37.0	345.2	4192605
Helix V 5206/2	3~460 V, 60 Hz	PN 25	37.0	349.2	4192606

www.wilo.com 60 Hz

2015-06



Stuart Water Pumps

- Water booster pumps
- Submerisble pumps
- Irrigations pumps





PH 45 ES CI Peripheral Pump

The PH 45 ES CI peripheral pump features end suction and vertical delivery and is designed for continuous operation at 5 l/min and above. This compact, high performance pump delivers flow rates up to 41 l/min and heads up to 41 metres.







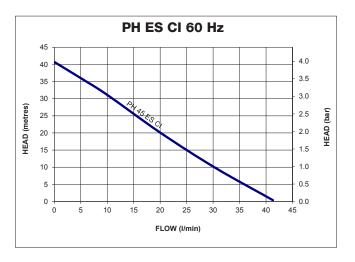


Features

- Peripheral pump design
- End suction, vertical delivery
- Long life seal
- Continuously rated induction motor
- Cast iron pump body and brass impeller
- Priming vent plug

Application

 The PH 45 ES CI peripheral pump is designed to pump clean water. Other clean, non aggressive, non explosive liquids with similar characteristics to water may be pumped. Please consult Stuart Turner Ltd for guidance.

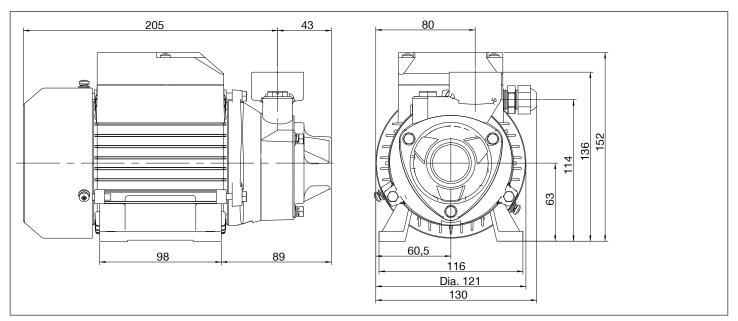




Pump Model		PH 45 ES CI 46670 60 Hz
General	Guarantee	1 year
Features	Pump type	Peripheral
	Mechanical seal	Nitrile / Carbon / Ceramic
	Priming vent plug	✓
Materials	Pump body	Cast Iron
	Impeller	Brass
Performance	Maximum head (closed valve)	41 metres
	Performance @ 9 I/min	32 metres
	Performance @ 18 l/min	22 metres
	Maximum flow	41 l/min
	Minimum static inlet pressure	0.1 bar (1 metre)
	Maximum static inlet pressure	1.4 bar (14 metres)
	Maximum viscosity	50 secs redwood no 1 9.5 centistokes
	Maximum working pressure*	600 kPa (6 bar)
	Maximum ambient air temperature	50 °C
	Min / Max water temperature	Min 4 °C / Max 80 °C
	Suction lift**	4.6 metres
Connections	Pump connections	G 1 female
Motor	Туре	Induction, auto-reset thermal trip
	Duty rating	Continuous (S1) @ 5 l/min and above
Electrical	Power supply / phase / frequency	220 V a.c. / 1 / 60 Hz
	Current (full load)	3.3 Amps
	Power consumption	710 Watts
	Fuse rating	5 Amps
Physical	Enclosure protection	IPX4
	Length	248 mm
	Width	130 mm
	Height (excluding hoses)	152 mm
	Weight (including fittings)	5.69 Kg

^{*} The maximum pressure that can be applied to the pump under any installation conditions.

^{**} With footvalve fitted.



Stuart Turner Limited reserves the right to amend specifications without notice.





CH CI Centrifugal Pump

The CH CI centrifugal range features end suction and vertical delivery and is designed for continuous operation. This compact, high performance range delivers flow rates up to 216 l/min and heads up to 46 metres.

Available in 1, 1.5 and 2 hp variants.







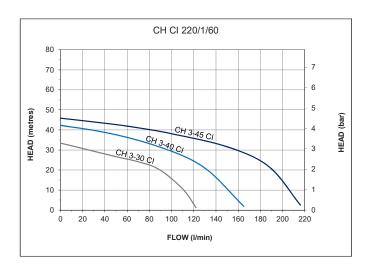


Features

- Centrifugal pump design
- End suction, vertical delivery
- Long life seal
- Continuously rated induction motor
- Cast iron pump body and stainless steel impeller
- Priming vent plug and drain plug
- Flow rate up to 216 l/min
- 1, 1.5 and 2 hp variants

Application

 The CH CI centrifugal range is designed to pump clean water. Other clean, non aggressive, non explosive liquids with similar characteristics to water may be pumped. Please consult Stuart Turner Ltd for guidance.

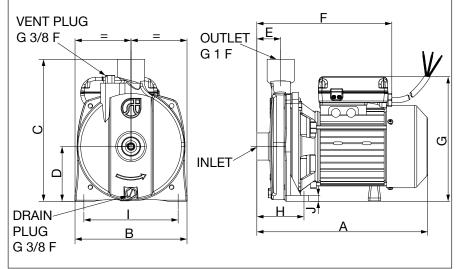




Pump Model		CH 3-30 CI 60Hz 46672	CH 3-40 CI 60Hz 46717	CH 3-45 CI 60Hz 46718			
General	Rating	1 hp	1.5 hp	2 hp			
	Guarantee		1 year				
Features	Pump type		Centrifugal				
	Mechanical seal		Nitrile / Carbon / Ceram	ic			
	Priming vent plug	✓	✓	✓			
Materials	Pump body		Cast Iron				
	Impeller		Stainless steel				
Performance	Maximum head (closed valve)	32 metres	42 metres	46 metres			
	Performance @ 50 I/min	25 metres	37 metres	43 metres			
	Performance @ 90 I/min	20 metres	32 metres	39 metres			
	Maximum flow	120 l/min	165 l/min	216 l/min			
	Minimum static inlet pressure		0.5 bar (5 metres)				
	Maximum static inlet pressure	2.8 bar (28 metres)					
	Maximum viscosity	50 se	50 secs redwood no 1 9.5 centistokes				
	Maximum working pressure*		600 kPa (6 bar)				
	Maximum ambient air temperature	50 °C					
	Min / Max water temperature	Min 4 °C / Max 65 °C					
	Suction lift**	4.6 metres	4.6 metres	4.6 metres			
Connections	Pump connections	G 1 female	G 11/4 female (inlet), G 1 (outlet)	G 11/4 female (inlet), G 1 (outlet)			
Motor	Туре	Ind	uction, auto-reset therma	al trip			
	Duty rating		Continuous (S1)				
Electrical	Power supply / phase / frequency		220 V a.c. / 1 / 60 Hz				
	Current (full load)	5.2 Amps	8.1 Amps	11 Amps			
	Power P1	1100 Watts	1748 Watts	2395 Watts			
	Power P2	759 Watts	1224 Watts	1677 Watts			
	Fuse rating		13 Amps				
Physical	Enclosure protection		IP44	.			
	Length	290 mm	324 mm	324 mm			
	Width	190 mm	211 mm	211 mm			
	Height (excluding hoses)	240 mm	260 mm	260 mm			
	Weight (including fittings)	13.15 Kg	18.25 Kg	21.05 Kg			

^{*} The maximum pressure that can be applied to the pump under any installation conditions.

^{**} With footvalve fitted.



Pump Description	CH 3-30 CI	CH 3-40 CI	CH 3-45 CI
Dimension 'A'	290 mm	324 mm	324 mm
Dimension 'B'	190 mm	211 mm	211 mm
Dimension 'C'	240 mm	260 mm	260 mm
Dimension 'D'	93 mm	110 mm	110 mm
Dimension 'E'	45 mm	51 mm	51 mm
Dimension 'F'	230 mm	245 mm	245 mm
Dimension 'G'	211.5 mm	234 mm	234 mm
Dimension 'H'	80 mm	96 mm	96 mm
Dimension 'I'	160 mm	163 mm	163 mm
Dimension 'J'	10 mm	10 mm	10 mm
Inlet	G1F	G 1¼ F	G 1¼ F

Stuart Turner Limited reserves the right to amend specifications without notice.





Diver 35 & Diver 45 Submersible Pumps

The Diver 35 & Diver 45 submersible pumps offer a solution to lifting clean fresh water for high head (pressure) requirements.

Incorporating a floating switch to protect against running dry, these products feature stainless steel motor shells and are compact and easy to install.







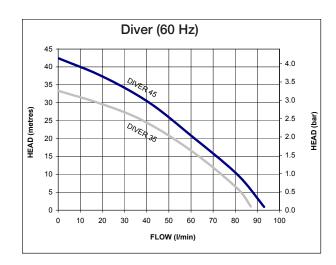


Features

- Fully automated no switch setting necessary
- A built in 'no water' safety cut out
- No pulsing when operating
- Nitrile/carbon/ceramic long life seal
- Stainless steel motor shell
- External float switch
- 25 mm hose connector

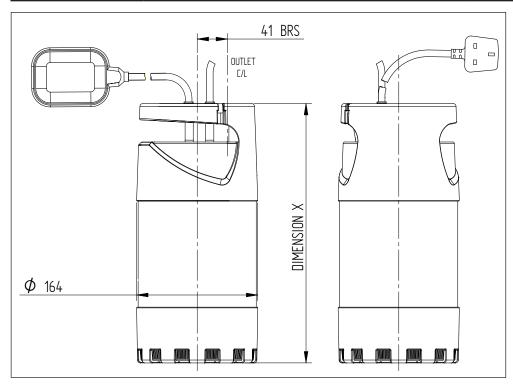
Application

 These pumps are ideal for clean water applications where pressure is needed, such as sprinklers or pumping up to storage tanks





Pump Model		Diver 35 60 Hz 46666	Diver 45 60 Hz 46667
General	Guarantee	1 y	ear
Features	Pump type	Subm	ersible
	Mechanical seal	Nitrile / Carb	on / Ceramic
	Automatic and manual mode	✓	✓
	Automatic float switch	✓	✓
Materials	Pump body	Polypropylene /	stainless steel
	Impeller	Plas	stic
Performance	Maximum head (closed valve)	35 metres	45 metres
	Maximum immersion depth	8 me	tres
	Minimum immersion depth	300	mm
	Performance @ 20 l/min	28 metres	37 metres
	Performance @ 60 l/min	17 metres	24 metres
	Maximum flow	110 l/min	114 l/min
	Min / Max water temperature	Min 4 °C /	Max 35 °C
Connections	Pump connections	G 1 fe	emale
	Hose Connector	25 mn	n male
Motor	Type	Induction, auto-	eset thermal trip
	Duty rating	Conti	nuous
Electrical	Power supply / phase / frequency	220 V a.c.	/ 1 / 60 Hz
	Current (full load)	3.1 Amps	4.1 Amps
	Power consumption	680 Watts	890 Watts
	Fuse rating	10 A	mps
	Power cable (pre-wired)	15 m	etres
Physical	Enclosure protection	IP	X8
	Width	164	mm
	Height (excluding hoses)	350 mm	387 mm
	Weight (including fittings)	7.7 Kg	9.4 Kg



Pump Description	Dim. 'X'
Diver 35	350 mm
Diver 45	387 mm

Stuart Turner Limited reserves the right to amend specifications without notice.





- Pentair / Aurora Water Pumps
 - Chilled water pumps
 - Municipals pumps







AURORA° 410 SERIES SINGLE STAGE SPLIT CASE PUMPS

AURORA® 410 SERIES Single Stage Split Case Pumps

Capacities to 15000 GPM (3407 m³/hr) Heads to 663 Ft. (202 m) Temperatures to 275°F (135°C)

Introduction

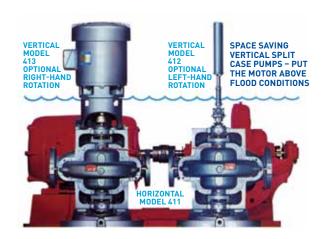
The horizontal split case pump has long been used for the handling of liquids where the utmost in reliability and accessibility is paramount. Billions of gallons of liquid have been pumped by split case double suction pumps and billions more will be pumped considering the rapid industrial, agricultural and commercial expansion. The Aurora 410 Series pumps make a significant contribution to the customer requirements for pumps on this type of service. The 410 Series is a modern design based on Aurora's over 90 years of experience with the design, sales and manufacturing of split case pumps. Look through this brochure and see what real accomplishments can be made when an imaginative approach is taken to the customer's problem of moving liquids within a piping system.



Model 411 is horizontally baseplate mounted with a driver flexibly coupled to the pump. This design is recommended where floor space is readily available and where flooding of the installation is not possible.

Model 412 is vertically mounted and uses flexible shafting between the driver and the pump. This model is frequently used on difficult applications where flooding of the installation is a possibility.

Model 413 is vertically mounted with an elevated driver coupled directly to the pump through a flexible coupling. Model 413 is very popular for installations where available floor space is limited and where possible flooding is marginal.

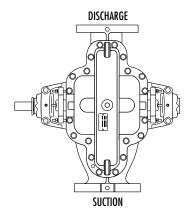


Pump Features

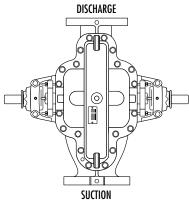
Standard Features

- Bronze fitted pump construction
- Bronze shaft sleeves
- Dynamically balanced impellers
- Bronze case wearing rings
- Twin volute on 10" and larger pumps
- Stainless steel impeller key
- Regreaseable ball bearings
- Single row ball bearing (inboard)
- Double row ball bearing (outboard)
- Mechanical seals...single unbalanced (Models 412 and 413)
- Graphite and TFE lubricated acrylic packing

- Internal bypass between casing and stuffing box
- 125# ASA flanges
- 250 psi case working pressure
- Carbon steel shaft
- Stuffing box bushings
- Lifting lugs
- Hydrostatic test
- Cast integral bearing arms
- Water slingers and grease seals
- External bypass between casing and stuffing box (Models 412 and 413)
- Coupling guard (Model 411)



STANDARD RIGHT HAND ROTATION



OPTIONAL DUAL DRIVE

RIGHT HAND ROTATION

DISCHARGE SUCTION

OPTIONAL LEFTHAND ROTATION

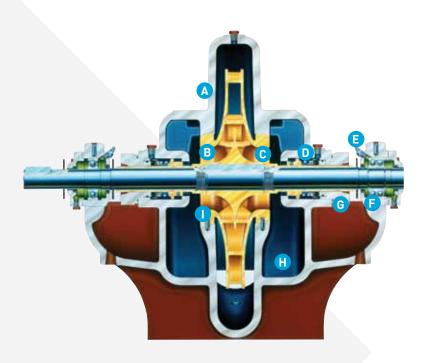
Optional Features

- All iron, all bronze or special alloy pump construction
- Hardened 440C stainless steel shaft sleeves (packing only)
- 316 stainless steel shaft sleeves (mechanical seal)
- Impeller wearing rings
- Oil lubricated ball bearings (Model 411 horizontal pump)
- Mechanical seals
 - single unbalanced (Model 411)
 - single balanced (all models)
- Stainless steel or Monel[®] shaft

- External bypass between casing and stuffing box (Model 411)
- Steel drip rim, formed steel or fabricated steel bases
- Double extended shaft (Model 411)
- Right- or left-hand rotation
- Certified performance test
- Packing with lantern ring (Model 411)
- 250# ASA suction and discharge flanges
- Bottom suction or chairmounted pumps
- Water cooled cartridge caps

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Horizontal Pump Features



A. Split Case Design

simplifies disassembly. The suction and discharge piping and alignment is not disturbed. Simply remove the upper casing for service or inspection. Cast lifting lugs are provided. Computer-machined major components with 360 degree registered fits assure concentricity of all parts. Twin volute design balances out radial hydraulic thrust loads on larger split case pumps (see Range Charts).

B. Dynamically Balanced Impeller

is keyed to the shaft and secured by adjustable shaft sleeves. Double suction design balances out hydraulic thrust loads. Vacuum cast process and proven design provides high efficiency and performance.

c. Bronze Shaft Sleeve

prevents shaft wear, is slip fit over the shaft, keylocked and extends the entire length of each stuffing box. Shaft sleeves and impeller are 0-ring sealed to eliminate corrosion of the shaft by the pumped liquid. This eliminates the need for high cost, special stainless steel or Monel® shafts.

D. Interchangeable Stuffing Box

for mechanical seals or packing. Packing is standard on horizontal pumps. Optional lantern rings have internal water seal passages between the casing and stuffing box and cannot be damaged. Mechanical seals have carbon against ceramic face. Long life is assured with 303 stainless steel metal parts and Buna-N elastomers. Several optional mechanical seals are available.

E. Grease Lubrication

purges old grease from bearing. Oil lubrication is optional on horizontal pumps. Lube fittings are conveniently located for quick access and provide positive bearing lubrication. Oil seals and nonsparking neoprene rotating slingers protect both bearings during pump operation and washdowns.

F. Bearings

selected for 50,000 hour minimum life at maximum load. Average bearing life 5 x minimum. Double row thrust ball bearing is standard on all models. Short bearing span holds shaft deflection to .002" at face of stuffing box at maximum load. Integral bearing arms eliminate bearing misalignment and simplify service.

G. Left-Hand Rotation

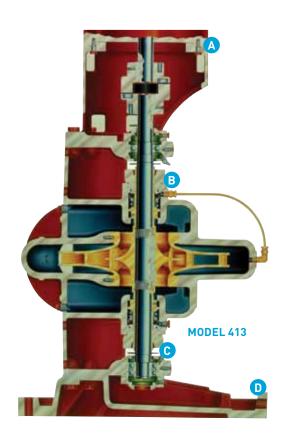
can be readily provided with standard parts. Tandem drive pumps require only a different shaft.

H. Certified Performance

with positive suction pressure or with a suction lift is available on each pump for customer approval. Pumps are all hydrostatically tested.

Case Wearing Rings

and throttle bushings prevent wear on the pump casing and are easily and inexpensively replaced.



Vertical Pump Features

Key Features

A. Coupling Alignment

with true alignment is vital to long life and proper performance. To maintain proper coupling alignment, the mounting bracket is rabbet fitted to the motor.

B. Mechanical Seals

Standard construction includes carbon against ceramic face for optimum hot water performance. Long life is also assured with 303 stainless steel metal parts and Buna-N elastomers.

c. Bearing Protection

Grease seals and water slingers are provided to protect the bearings from contamination. This important feature is also standard on horizontal pumps.

D. Cast Iron Drip Rim Base

Accurate positioning of the pump is assured by the mounting base. A drip rim is incorporated in the base design to control condensation and leakage.

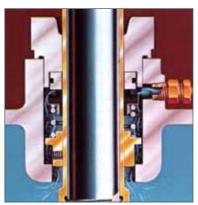
Benefits

Go vertical and put two pumps where only one horizontal would fit.

Aurora's® space saving vertical split case pumps have long been recognized for their reliability. This reputation in the field of vertical installations has been re-emphasized since the introduction of the Model 413 as pumps of unmatched quality.

Vertical pumps provide distinct advantages over horizontal pump construction.

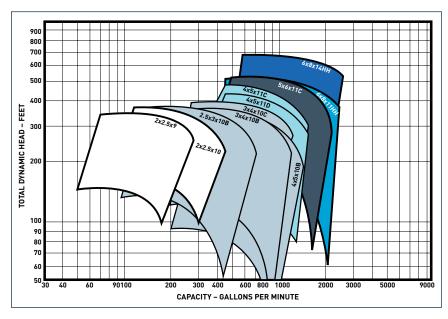
- Less floor space required.
- Inline piping arrangement allows piping in any direction.
- Elevated motor protects against potential flooding if the pump station is in a low area. Additional features described for the horizontal pumps are also found in the vertical pumps. There are several features unique only to Model 413.



EXTERNAL UPPER SEAL FLUSH

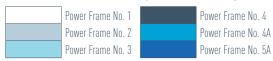
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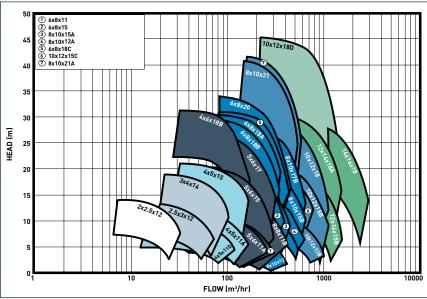
Range Charts



Single Volute 3500 RPM

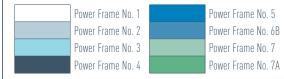
Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.

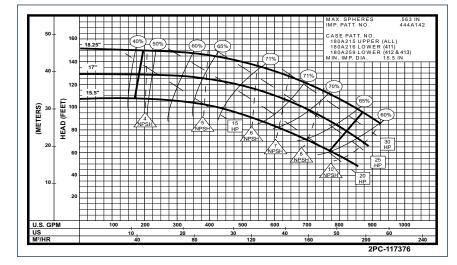




1000 RPM

Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.

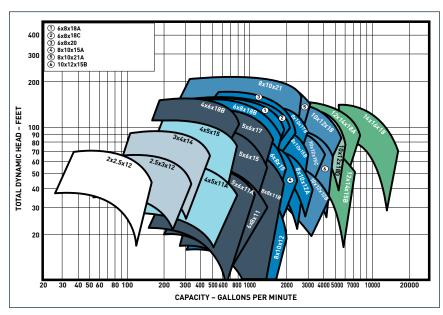




Performance Curves

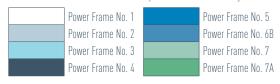
The individual curve for the size pump selected is found in the catalog. These performance curves give complete operating characteristics, efficiency, horsepower and N.P.S.H. required. Horsepower lines on these curves are based on specific gravity of 1.0. To obtain the horsepower for a liquid of a different specific gravity, multiply the horsepower obtained from the curves by the specific gravity of that liquid. The performance curve illustrated to the left is typical of the individual curves readily available for each pump size.

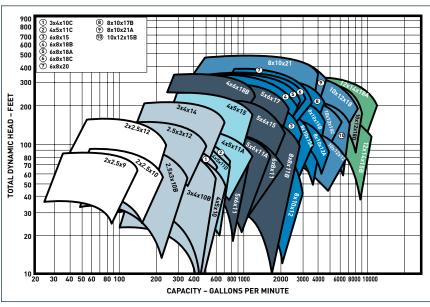
Range Charts



1150 RPM

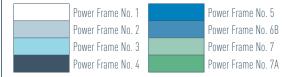
Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.





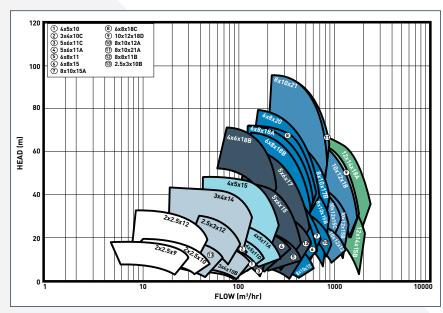
1750 RPM

Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.



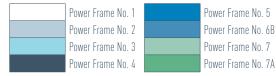
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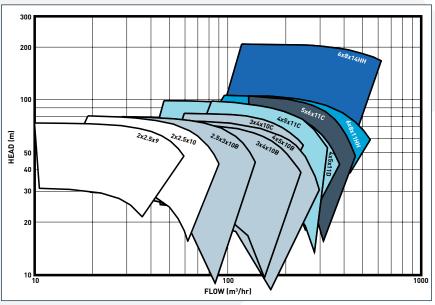
Range Charts



1500 RPM

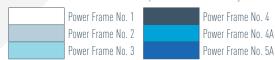
Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.



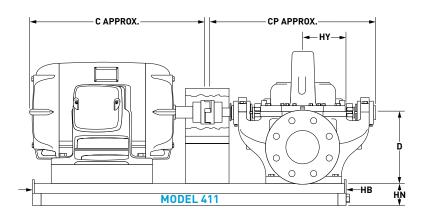


3000 RPM

Individual performance curves should be checked for final selection. For selections not shown on this chart, please refer to the factory.



Pump Dimensions



Notes - Apply to all models:

- May not be used for all pump sizes in this power series. Consult individual dimension pages for final selection.
- † For motor and baseplate dimensions over 200 HP, refer to the factory.
- 1. Dimensions and weights are approximate.
- 2. Complete dimensions are available.
- 3. Not for construction purposes unless certified for approval.
- 4. Frame sizes shown are for open drip-proof motors only.
- 5. Add pump, base and motor weight for unit total weight.
- 6. Conduit box is shown in approximate position. Dimensions are not specified as they vary with each motor manufacturer.
- Aurora[®] reserves the right to make revisions to its products and their specifications and to this brochure and related information without notice.
- 8. 10x12x18 and 12x14x15 pump sizes are also available as bottom suction horizontal Model 411B pumps. See individual dimension pages for complete dimensions.

Motor	Model 413	143 HP	145 HP	182 HP	184 HP	213 HP	215 HP	254 HP	256 HP	28 HF	34 PH	28 HF	36 PH	32 H			26 IP	3 <i>6</i> H		3 <i>6</i> H		4(H		41 H)5 P	4 <i>4</i> H		4/ H	
Frame	Model 411	143 T	145 T	182 T	184 T	213 T	215 T	254 T	256 T	284 TS	284 T	286 TS	286 T	324 TS	324 T	326 TS	326 T	364 TS	364 T	365 TS	365 T	404 TS	404 T	405 TS	405 T	444 TS	444 T	445 TS	445 T
	3500 RPM	1-1/2	2-3	5	7-1/2	10	15	20	25	30	-	40	-	50	1	60	1	75	-	100	-	125	-	150	-	200+	-	1	-
Horse- power	1750 RPM	1	1-1/2 -2	3	5	7-1/2	10	15	20	-	25	-	30	1	40	1	50	60	-	75	-	100	-	125	-	150	-	200+	-
	1150 RPM	1	1	1-1/2	2	3	5	4-1/2	10	-	15	1	20	1	25	1	30	-	40	-	50	-	60	-	75	-	100	1	125
Motor	Model 411	40	45	72	80	130	145	220	240	330	330	370	370	475	475	525	525	630	630	690	690	830	830	915	915	1095	1095	1270	1270
Wgt.	Model 413	43	48	84	102	132	156	300	300	420	420	420	420	570	570	570	570	950	950	950	950	1230	1230	1230	1230	1680	1680	1680	1680
		12	13	13	14	16	18	21	23	22	24	24	25	25	26	26	28	27	29	28	30	30	33	31	34	34	38	36	40
(See 1	D Vote***)	3-1/2	3-1/2	4-1/2	4-1/2	5-1/4	5-1/4	6-1/4	6-1/4	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
PΑ		8	8	10	10	11	11	13	13	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	26	26	26	26
AG A	Approx.	11	12	14	15	16	17	20	21	22	23	23	23	25	25	26	26	25	25	25	25	28	28	28	28	32	32	32	32

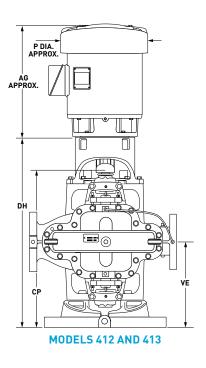
													Model :	411 Ba	se Nur	nber													
	1	3	3	3	3	3	3	8	8	8•	-	8•	-	11•															
411	2	3	3∙	3•	3∙	5	5	8	8	9	9	9	9	11•	12	11•	12	12	-	12									
Model	3				5•	8	8	8	9	11	11	11	11	12	12	12	12	12	-	12	-	15•	-	15•					
SS SS	4					6•	6•	9	9•	-	11	-	11	11	11	12	12	12•	12•	12•	12	16•	-	16•	-	16•	-	16•	
Series	5							11	11	-	12	-	12	-	12•	-	12	12	12	12	13	16	16•	16•	16•	16•	16•	16•	_
Pwr.	6B												13	-	13•	-	13•	-	13•	13•	13	17	17•	17	17	17	17	17	18
	7																						17•	-	17•	17•	18	18	18•

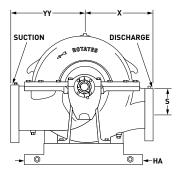
Base	3	5	6	8	9	11	12	13	15	16	17	18	Flanges – ASA Std.	Furnished As:
Base Wgt.	49	59	68	96	109	164	192	235	291	344	399	441	250# with 125# drilling	Standard
	15	17-1/4	17-1/4	20-1/2	20-1/2	26-3/4	26-3/4	26-3/4	30-3/4	30-3/4	30-3/4	30-3/4	120# untung	
	33-1/2	36-1/2	42-1/2	42-1/2	48-1/2	46-1/2	54-1/2	64-1/2	54-1/2	64-1/2	74-1/2	82-1/2	250# with	Ontional
HN	3	3	3	3	3	4	4	4	4-1/2	4-1/2	4-1/2	4-1/2	250# drilling	Optional

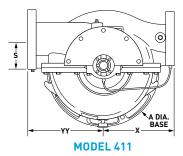
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Pump Dimensions

Ze		ر		es	Pump (lb	Wgt. s.)								
Pump Size	Disch.	Suction	Воге	Pwr. Series										
Pu		0,		Pw	411	413	А	D**	S	χ	СР	НҮ	VE	YY
2x2.5x9	2	2-1/2	9		145	215	18	7	3-1/2	8-1/2	21	4-1/2	11-1/8	9
2x2.5x10	2	2-1/2	10	1	145	215	18	7	3-1/2	8-1/2	21	4-1/2	11-1/8	9
2x2.5x12	2	2-1/2	12		175	260	18	8	4	10	21	4-1/2	11-1/8	10-3/4
2.5x3x10	2-1/2	3	10		215	300	18	8	4	9-3/4	24	5-1/2	13	10
2.5x3x12	2-1/2	3	12		255	360	18	9	4-1/2	11	24	5-1/2	13	11-1/2
3x4x10	3	4	10	2	260	365	18	9	4-1/2	10	24	5-1/2	13	11
3x4x14	3	4	14		310	435	18	10	5	12	24	5-1/2	13	13
4x5x10	4	5	10		330	465	18	9	4-5/8	10	24	5-1/2	13	11-1/4
4x5x11	4	5	11	3	390	435	22	10	5	11-1/4	26	6-1/2	14	12-3/4
4x5x15	4	5	15	J	415	490	22	11	5-1/2	13	26	6-1/2	14	14
4x6x18	4	6	18		560	780	22	12-1/2	6-1/4	14	29	6-1/2	15	16
5x6x11	5	6	11		455	580	22	11	5-1/2	11-1/4	29	6-1/2	15	13-1/4
5x6x15	5	6	15	4	530	735	22	12-1/2	6-1/4	13-1/4	29	6-1/2	15	15
5x6x17	5	6	17	4	635	855	22	12-1/2	6-1/4	14	29	6-1/2	15	15
6x8x11	6	8	11		520	650	22	12-1/2	6-1/4	11-3/4	29	6-1/2	15	14-1/2
8x8x11	8	8	11		605	835	22	12-1/2	6-1/4	12	29	6-1/2	15	14-1/2
6x8x11HH	6	8	11HH	4A	990	1095	22	13-3/16	8-5/8	10	32-3/4	8-1/2	17-1/8	15
6x8x14HH	6	8	14HH	5A	1190	1410	30	13-3/16	7-1/2	15	36-3/4	8-1/2	19-7/16	17
6x8x15	6	8	15		585	735	30	13-1/2	6-3/4	14-1/4	32	7-1/2	17	16-3/4
6x8x18	6	8	18		800	1020	30	14-3/4	8	16	32	7-1/2	17	18
6x8x20	6	8	20	5	875	1095	30	14-3/4	8	15-3/4	32	7-1/2	17	18
8x10x12	8	10	12	ΰ	740	925	30	14-3/4	8*	17	32	7-1/2	17	17-3/4
8x10x15	8	10	15		835	1040	30	14-3/4	8*	17	32	7-1/2	17	17-3/4
8x10x17	8	10	17		865	1085	30	14-3/4	8	17	32	7-1/2	17	17-3/4
8x10x21	8	10	21		955	††	††	18-1/2	9-1/2	18	38	11-1/2	_	21
10x12x12	10	12	12	6B	1325	1575	40	23	12	16	38	11-1/2	-	19
10x12x15	10	12	15	UD	1390	††	††	25	13-1/2	17	38	11-1/2	-	20
10x12x18	10	12	18		1725	††	††	25	13-1/2	18	38	11-1/2	_	22
10x12x18D	10	12	18D	7A	1920	††	††	25	12-1/4	20	42-15/16	11-1/2	_	24
12x14x15	12	14	15		2000	††	††	24	15	17	44	11-1/2	-	22
12x14x18	12	14	18	7	2100	††	††	24	15	18	44	-	_	23
14x16x18	14	16	18		2850	††	††	29-1/4	16	22	44	-	-	27







Models 412 and 413

	Pwr. Series	1	2	3	4	5
DII	Up to 256 hp	26	30	33	35	-
DH	20 / hab and up	28	32	35	37	41
CP	284 hph and up	23	27	29	31	35

Notes - Apply to all models:

- * Add 1" for true discharge centerline.
- ** Always use largest of 2 "D" dimensions.
- †† These pump sizes are available in a vertical chair mount configuration in Models 412 and 413. See individual dimensions pages for complete dimensions and weights.

Engineering Specifications

Models 411, 412 and 413 Split Case Base Mounted

Furnish and install as shown on the plans ______ Right-hand (Left-hand) Aurora® Model (Horizontal – 411) (Vertical – 412 Open Shaft) (Vertical – 413 Flexible Coupled) type Split Case, Double Suction, Single Stage centrifugal pump, size _____ x ___ _ of bronze fitted (all bronze) (all iron) (stainless steel) construction. The pump shall be capable of delivering at design conditions a capacity of _____ GPM when operating against a Total Dynamic Head of _____ feet, with a temperature of _____ °F, specific gravity _____. Pump shall have minimum guaranteed efficiency at design capacity of _____ %. Pump must also be capable of delivering a maximum of _____ GPM when operating against a head of _____ feet, and at this condition shall have a minimum efficiency of _____ %. Minimum shut-off head acceptable will be _____ feet. Pump shall operate at a maximum synchronous speed of _____ RPM.

A unit operating at a lesser rotative speed will be considered, but in no event will a pump operating at more than the maximum speed specified be acceptable. The pump casing halves shall be of the inline piping design and will be constructed of Class 30 cast iron having a minimum tensile strength of 30,000 psi and shall be of sufficient thickness to withstand stresses and strains at full operating pressures.

Casings shall be subject to a hydrostatic pressure test at 150% of the specified duty point. Bearing housing supports, suction and discharge flanges shall be integrally cast with the lower half of the casing. Removal of the upper half of the casing must allow the rotating element to be removed without disconnecting the suction and discharge flanges. The upper casing is to be dowel aligned to the lower casing.

Pump sizes 10" and larger are to be of the twin volute design. Drain openings must be provided in the bearing arms for removal of

lubricating liquid. Impeller shall be of the enclosed double suction type and shall be vacuum cast bronze [_____]. Impeller shall be dynamically balanced and securely fastened to the shaft by key and screw locked shaft sleeves. The vanes shall be designed to reduce noise. The pump shaft shall be made of high grade SAE 1045 steel or equal, accurately machined to give a true running rotating element. The minimum dia. acceptable will be ______". The shaft shall be protected from wear by bronze [_____] sleeves which are key locked and threaded so that the sleeves tighten with the rotation of the shaft. Buna 0-rings must be provided between the impeller hub and the shaft sleeves to prevent pumped liquid from corroding the shaft.

Pump shall be equipped with easily renewable bronze (_____) casing rings (impeller wearing rings) so designed that hydraulic pressure will seat them against a shoulder in the pump case around the full periphery of the wearing ring. The wear rings will be locked in place by the doweling to prevent rotation. The rotating element shall be mounted in heavy duty grease lubricated ball bearings and shall be equipped with water strainers on side next to pump glands.

Bearing housings shall be so designed to flush lubricant through and provide continuous cleaning of bearing surfaces and maximum protection against overheating. The pump shall be supplied with a single row inboard bearing primarily for radial loads and double row outboard bearing primarily for thrust loads. Both bearings shall be regreaseable lubrication ball type, designed for 250,000 hours average life. Each bearing shall be mounted in a machined housing that is moisture- and dust-proof. The housing shall have registered fits to assure alignment, pinned to prevent rotation and bolted to the bearing arms. Each housing shall be supplied with a grease fitting and a plugged relief port.

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Engineering Specifications

Model 411

Stuffing boxes shall be placed on both sizes of the pump centerline to seal the pump shaft. All packed pumps having a suction lift shall be provided with lantern rings connected to the pressure side of the pump by cored passages in the parting flange of the pump. The stuffing boxes shall be equipped with heavy, cast, split glands with extra length, for easy removal for packing inspection and maintenance. Pump and motor shall be mounted on a common heavy baseplate of (steel with drip rim) (formed steel) (structural steel). Pump and motor must be checked for alignment after the pump base has been installed and grouted in place, in accordance with the standards of the Hydraulic Institute. There shall be no strain transmitted to the pumps.

Models 412 and 413

Mechanical seal boxes shall be placed on both sides of the pump centerline to seal the pump shaft. Each pump is to be furnished with mechanical seals with all metal parts to be 303 stainless steel with Buna-N elastomers, ceramic seat, and carbon washer. A bypass line must be provided for the upper seal between the seal faces and the discharge flange to assure adequate venting of the seal chamber and to provide lubrication. All pumps shall be provided with cored passages in the parting flange of the pump to provide additional circulation to both seals. The mechanical seal boxes shall be equipped with heavy, cast, one piece O-ring sealed glands. The pump shall be supported by a cast iron drip rim base.

Model 412

Vertical open shaft pumps are to be driven through flexible shafting with dia. tubing and intermediate bearings. Shafting must be of sufficient size to transmit required HP and must be provided with a slip spline which will permit removal of the pump rotating assembly without removing any section of intermediate shafting, bearings, suction or discharge piping.

Model 413

Vertical flexible coupled pumps shall be furnished with a cast iron motor bracket which is to be bolted to the vertical casing. The motor bracket must be machined with a register fit to ensure proper alignment of motor and pump shaft.

Models 411 and 413

The pump	s shall	be	flexible	coupled	to	a	standard	(horizontal)
(vertical) N	NEMA, _		_ HP,	phase	e, _		Hertz, ˌ	volts,
RPN	1 (drip-	prod	of) (tot. e	ncl.) (haz	ard	0U	s location) motor.





SPP Fire Pumps (UL/FM)

- Vertical Turbine Fire Pumps
- End Suction Fire Pumps
- Split Case Fire Pumps



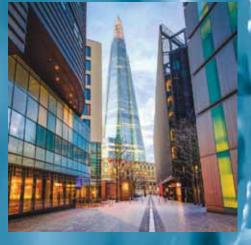






PUMPING SOLUTIONS

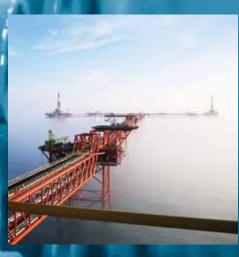
















FOR WHERE IT REALLY MATTERS

SPP Pumps is a leading manufacturer of centrifugal pumps and systems.

For more than 130 years, the company's robust, trusted engineering has provided critical performance across diverse industry applications including oil and gas, water, power generation, construction, mining and fire protection.

PROVEN OUALITY

Our customers' pumping applications are invariably demanding – typically operating in hostile, arduous or extreme temperature environments, where quality matters. Using the most advanced computer testing in the world, we design, simulate, evaluate, refine and manufacture all products and packaged systems here in the UK.

Spanning continents and cultures, our superior customer service is unswerving. We have a number of regional hubs around the globe offering the same attention to quality and values that has made SPP Pumps a market leader over 13 decades.

Because SPP customers often operate in demanding or hazardous environments, quality matters, and that requires manufacturing excellence. From our facility in Coleford England, SPP has set the highest standards attainable in the industry for quality and reliability.

We use the most advanced computer simulation in the world to design, evaluate, refine and manufacture the best pump solutions, while 'Lean Manufacturing' principles mean the company is entirely focused on continuous improvement to support a 'right first time' philosophy.

Our sales and manufacturing plant in the USA also offers the SPP Pumps University, a state-of-the-art training lab giving hands-on training with five fire sprinkler systems, four fire pumps and a complete range of fire sprinkler industry components.

SPP Middle East covers the Gulf Region and SPP MENA in Egypt covers the Middle East and North Africa, while a sales and manufacturing office in Gauteng services our



South African customers. As well as all this, we also offer local, on the ground support through offices in France, Asia, Italy, Poland, Czech Republic and Russia.

Put simply, proven quality prevails.

DEDICATED EXPERTISE

Our fifty-strong engineering team, commonly regarded as the best in the industry, has real-world application experience across multiple industry sectors. The skills of SPP Pumps engineers have secured the company numerous accolades, including the prestigious Pump Industry Awards (PIA) Manufacturer of the Year Award.

Our ability and knowledge to respond rapidly to demanding customer needs, is fuelled by dedicated R&D investment from the parent company Kirloskar Brothers Limited, India's largest provider of hydraulic machines and systems.

Proven quality. Dedicated expertise. World-class performance. For where it really matters, insist on SPP Pumps.



INDUSTRY-TRUSTED PERFORMANCE. TAILOR-MADE.

With more than 50 engineers within our application engineering and R&D departments, we offer an exceptional range of skills and experience across major industry sectors.

Whatever the challenge you face, you can be sure we will assemble a project team that not only understands your technical parameters, but your industry, too.

WATER

Often operating 24 hours, 365 days a year, water pumping applications are highly energy intensive. In fact, pump capital purchase typically only represents 5% of the total ownership cost. To minimise both energy costs and CO₂ emissions, in 2004 we launched our Lowest Lifecycle Range. Customers are already enjoying operating cost savings worth up to 5% a year compared to conventional competitive units. South West Water chose SPP's pumps for where energy reduction and operating costs really mattered, resulting in energy cost savings of £70,000 a year.

Running pumps as turbines (PaT) is an efficient method to generate and recover energy. In the current economic climate, where reducing energy costs is a high priority, the use of reverse running pumps as turbines is a promising and growing technology for small scale hydropower.

FIRE

When lives are at stake, you can't take chances. As the first company to achieve fire pump approval and listing by the internationally recognised Loss Prevention Certification Board, SPP Pumps today has more pumps approved by the LPCB than any other manufacturer.

It's no wonder the sprinkler system protecting Europe's tallest building, The Shard in London, is fed by SPP pumps. Towering at 309.6m, zoned protection for all 95 floors is achieved without using pressure reducing valves to conform to EU regulations.

Manufactured in the UK and USA to the very highest quality, our pumps can meet the requirements of all major international standards, particularly NFPA 20. FM approved and UL listed for use in many markets including Europe, the Far East, Middle East and Africa, you can be assured knowing world-class protection technology is at hand. SPP Pumps has also been selected for the Marmaray Tunnel in Turkey, where our dedicated expertise really mattered.

OIL & GAS

Lost oil or gas production, even in a small facility, could cost an operation millions of pounds per day. SPP Pumps is a world leader in the design and manufacture of pumping equipment for both onshore and offshore applications. Superior design, precision manufacturing and high quality assurance has made SPP Pumps a trusted uptime champion both upstream in exploration and production, and downstream for petrochemical and chemical processes.

SPP Pumps brought the first UK North Sea oil ashore in the 1970s. Today it's product portfolio includes niche non-hydrocarbon applications such as seawater lift, intake, cooling water, ballast water and fire water systems. In addition, SPP Pumps offers a full API product range for hydrocarbon pumping applications. We have many hundreds of pumps in a huge number of fields around the world for major international oil companies, with an equally impressive history of onshore installations.

IN THE SPOTLIGHT.

SPECIALIST APPLICATION SUPPORT.

ENERGY

Our energy division can undertake a comprehensive site assessment focused on your complete pump system. Within a succinct report, we will make detailed recommendations for corrective action enabling you to save up to 30% in energy consumption and running costs.

AUTOPRIME

Autoprime is our range of vacuum-assisted self-priming pumps, developed for rental organisations, contractors, utility companies, open cast mines and municipalities needing a durable solution.

Versatile, portable and lightweight, the range is deployed around the world for diverse, demanding applications including site dewatering, industrial sludge pumping, tank sediment cleaning, flood relief and sewage over-pumping. As part of Prague's flood defences, compact, manoeuvrable SPP Pumps diesel pumping systems help protect the city's residential, commercial and industrial areas.

WHATEVER THE CHALLENGE YOU FACE, YOU CAN BE SURE WE WILL ASSEMBLE A PROJECT TEAM THAT NOT ONLY UNDERSTANDS YOUR TECHNICAL PARAMETERS, BUT ALSO YOUR INDUSTRY TOO.

STANDARD PRODUCTS

Our standard pump product ranges offer 'fit and forget' replacement solutions for almost any existing application.

Easy to maintain, each pump type is available in a wide range of specifications – from all cast iron to internal hydraulic components in bronze or stainless steel. Our extensive fluid handling experience ensures, where needed, pumping solutions can still be tailored to your individual requirements. In Poole, Dorset, shellfish farm Othniel Oysters required an eco-friendly pumping system. The SPP Pumps designed solution has reduced noise, simplified maintenance and delivered a 35% saving in fuel consumption.

A web based pump selection tool, coupled with access to technical training and familiarisation programmes offer further distributor support.

INDUSTRIAL APPLICATIONS

Spanning the chemical, pharmaceutical, power and general industry sectors, SPP Pumps specialist industry team delivers a variety of pumping equipment for a wide range of businesses. We provide everything from end suction, multi-stage, solids handling, split case and vertical turbine units for a vast array of applications.

TRANSFORMER OIL

With transformer systems costing upwards of £2m, maintaining efficient, durable cooling is mission-critical. For more than 80 years, SPP Pumps has produced reliable, cost effective solutions for oil circulation, cooling transformers for power generation, power distribution and electric locomotive applications. Many of our installations are still operating successfully after more than four decades in service.

















Pumps account for approximately 13% of the UK's total annual electrical consumption*. They are the single largest user of motive power in both industrial and commercial applications.

In recent years, as energy costs have dramatically risen, companies are closely scrutinising consumption and pump system running costs.

INDPENDENT AND OBJECTIVE

SPP Pumps Energy is an expert in energy management.

Independent and objective, we offer a complete energy saving solution for pumping systems that can be applied equally to new projects and existing installations.

Large pump systems that run continuously are especially costly to operate. However, most pumps are typically oversized – operating far from their optimum efficiency points. Coupled with poor pump intake conditions and inefficient running regimes, this mismatch equates to wasted and costly energy use.

A HOLISTIC APPROACH

To save costs, our energy division undertakes comprehensive site assessments focused on complete pump systems. Within a succinct report, we make detailed recommendations for corrective action identifying cost savings, kW/hr savings, payback time and CO₂ reduction. For South West Water for example, an assessment has rectified cavitation issues at their Hayle final effluent pumping station. Replacement pumps have increased reliability, reduced energy consumption and emissions – resulting in savings of £70,000 per year.

By implementing our recommendations, you can realistically expect reductions in energy consumption and system running costs in excess of 30%. In addition, you'll enjoy reduced inventory, maintenance and administration costs.

For more information on SPP Energy visit our website: www.sppenergy.com or call us on +44 (0) 118 932 3123 or email us at: energy@spppumps.com

*(BPMA Data).



ENGINEERING INTELLIGENCE. PERFECTION WITH PRECISION.

Manufacturing excellence is wired into our DNA. Our products are highly regarded in the industry. We make it our business to only employ the best.

COLLABORATION. INNOVATION

Engineers at our manufacturing and repair sites have exhaustive experience in all aspects of pump design, hydraulics, rotating machinery, electrical systems and packaging. Every one of our manufacturing sites is ISO 9001:2001 approved and we have the prestigious PD ISO/TS 29001:2007 approval specifically for the oil & gas industries, and our fire pump packages comply with industry regulations.

LEAN MANUFACTURE

Guided by lean manufacturing principles, we continually refine and improve our products. Our main manufacturing facility is segregated into different product groups. Planned in cell layout, the machine shop within the plant contains CNC systems that are linked to a DNC system. This allows programming to be carried out on the machine or offline.

We work hard to ensure that all of our pumps, parts, engines and motors are manufactured, serviced and repaired to original design specifications and manufacturing tolerances.



lacksquare

AFTERMARKET SERVICE SUPPORT. RESPONSE YOU CAN RELY ON.

We recognise that lives, properties and livelihoods can depend on a pump's performance. Our belief in service excellence and minimum downtime means we embrace our commitment to 'go the extra mile'.

TRUSTED EXPERTISE

Our SPP Field Service team is pivotal, providing on-site rapid response for emergency repairs and planned contractual maintenance.

If you require installation or site assistance our Service division will be happy to assist you, please email us: service@spppumps.com or call us on +44 (0) 118 932 3123





ADVANCED DIAGNOSTICS

With five service centres strategically located across the UK, expert support is just a call or email away.

All SPP service centres offer specialist services including Computerised Fluid Dynamics analysis, surge analysis, sump analysis, piping analysis for suction pressure and natural frequency analysis – an accurate, powerful way to investigate, optimise and balance customer systems for optimum performance and reliability. Service network sites are ISO 9001 approved, delivering OEM specification, warranty and test-certificated repairs.

Our 'no compromise' service reputation attracts leading third-party specialist manufacturers. Descote valves, designed for all dangerous, corrosive, inflammable, pyrophoric, noxious media and all category M fluids as per ASME B31.3, trust SPP as their only UK Service Provider. We are also proud to be a chosen partner by SKF Bearings in the UK. This has led to all our service centres being the only UK approved SKF Certified Rebuilder of Pumps. SPP also works with SKF globally and is the first port of call for SKF customers needing pump repairs and services.

Although we provide support for all kinds of rotating equipment, ranging from electric motors through to diesel generators, we also enjoy a strong reputation for valve repair and refurbishment.

Service Centre phone numbers:

 Scottish Service Centre:
 +44 (0) 1236 455035

 Northern Ireland Service Centre:
 +44 (0) 2890 469802

 Northern Service Centre:
 +44 (0) 161 366 7309

 Wales & West Service Centre:
 +44 (0) 1594 832701

 Southern Service Centre:
 +44 (0) 2380 616004

GENUINE PARTS

Our Parts division is well known in the industry for their understanding of timely performance. When a British Gas platform in the North Sea required spares and pump ends, the team responded in a greatly decreased delivery time, saving them millions of pounds in lost revenue.

Parts division phone number:

If you require any spare parts, please email our Parts division at: spares@spppumps.com or call us on +44 (0) 118 932 3123



SPP PUMP APPLICATION MATRIX

							sing						ı	Nature	of Liqui	d or N	1ediun	1		
Pump Category	SPP Model	Fire	Chemical	Pulp and Paper	Mining and Minerals	Power Generation	Oil Refining and Gas Processing	Steel Metals	Water Industry	Wastewater Industry	Food and Beverage	Transformer Oil Cooling	High Pressure	Corrosive	High Temperature (580°F 268° and greater)	Fertilizer	Solids Handling	Solids	Pumps as Turbine	Refer to Page
	Unistream	•				•														11
	Eurostream					•														11
	Instream	•				•		•	•	•	•									11
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	KPD-S	•	•			•			•						•		•			15
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END SUCTION



UNISTREAM

STANDARD INDUSTRY

CONFIGURATION

Horizontal electric motor or engine driven

DISCHARGE & PERFORMANCE

- 32 mm to 150 mm
- Outputs up to 504 m³/h
- · Heads up to 105 m

FEATURES

- Horizontal DIN 24255 Electric Motor
- 41 models
- Wide choice of materials
- Centreline discharge
- Back pull-out rotating element can be removed without disturbing pipe work
- Impellers cut to duty
- High interchangeability just three
- shaft modules cover the entire range
- Suitable for baseplate mounting with coupling
- Approved to LPCB, FM and/or UL Standards
- In compliance with NFPA 20
- Used in pump as turbine applications



STANDARD

EUROSTREAM

CONFIGURATION

Horizontal close coupled electric motor driven

DISCHARGE & PERFORMANCE

- 32 mm to 100 mm
- Outputs up to 360 m³/h
- Heads up to 105 m

FEATURES

- Close coupled pump set. Choice of 190 motor/pump combinations
- Space saving
- Most cost effective solution
- Incorporates mechanical seal to DIN 24960
- Impellers cut to duty
- High interchangeability
- TEFC IE2 motors fitted as standard Other motor options available
- Unique SPP Pumps design taper locking system simplifies fitting stub shafts to standard motors
- Uses standard metric TEFV or Drip Proof motors
- Stub shafts fit directly onto standard motor shaft - no drilling or priming required
- Back pull-out
- Rotating element can be removed without disturbing pipe work



INSTREAM

INDUSTRY

CONFIGURATION

Vertical close coupled electric motor driven

DISCHARGE & PERFORMANCE

- 40 mm to 100 mm
- Outputs up to 216 m³/h
- Heads up to 65 m

- Close coupled in-line design
- Simple installation and easy service back pull-out design
- Cost-effective solution
- TEFC IE2 motors fitted as standard
- High interchangeability rotating element will interchange with Eurostream
- Mechanical seal as standard
- Impellers cut to duty

END SUCTION



AQUASTREAM – MIXED FLOW

WATER

IRE

STANDARD

CONFIGURATION

Horizontal or vertical electric motor or engine driven

DISCHARGE & PERFORMANCE

- 200 mm to 650 mm
- Outputs up to 6480 m³/h
- · Heads up to 28 m

FEATURES

- High efficiency pump range
- Mixed flow impeller will handle clean or dirty water containing small solids
- Heavy duty oil lubricating bearing bracket
- Soft packed
- An excellent range of pump sizes available
- Suitable for baseplate mounting with coupling



KPD

WATER

INDUSTRY

CONFIGURATION

Horizontal or vertical electric or engine driven process pump

DISCHARGE & PERFORMANCE

- Delivery up to 200 mm
- Outputs up to 900 m³/h
- Heads up to 225 m

FEATURES

- Back pull-out arrangement
- Bearing oil cooling arrangement
- Steam jacket arrangement
- Centre line mounting
- Mechanical seal or gland packed
- \bullet Temperatures range -50 to 350°C

DISCHARGE & PERFORMANCE

Delivery up to 100 mm

GK

Delivery up to 100 mm

CONFIGURATION

Horizontal, electric motor

- Outputs up to 800 m³/h
- Heads up to 140 m

FEATURES

- Back pull-out
- ISO 5199 / 2858 / EN:22858
- Enclosed impeller only
- Gland packed
- Balanced impeller
- Top centre line discharge
- No venting required

SPLIT CASE



LLC

WATER FIRE INDUSTRY
OIL & GAS

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal engine driven

DISCHARGE & PERFORMANCE

- 125 mm to 600 mm
- Outputs to 9000 m³/h
- · Heads up to 300 m

FEATURES

- Axially split casing rotating element can be removed without disturbing pipework
- Exceptional hydraulic efficiencies
- Double and single entry back to back impellers reduce end thrust, increase efficiency and bearing life
- Modular design for maximum interchangeability. Multiple impeller selections
- Stainless steel impellers and shaft as standard
- Internal high efficiency coating as standard
- Cartridge mechanical seals as standard
- Double row thrust bearing
- Wide operating range and extended bearing life
- Reduced efficiency degradation
- Approved to FM and/or UL standards
- In compliance with NFPA 20
- Used in pump as turbine applications



HYDROSTREAM

WATER FIRE INDUSTRY
OIL & GAS

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal engine driven

DISCHARGE & PERFORMANCE

- 25 mm to 600 mm
- Outputs to 9000 m³/h
- Heads up to 275 m

FEATURES

- Axially split casing rotating element can be removed without disturbing pipework
- High hydraulic efficiencies
- Double and single entry back to back impellers reduce end thrust, increase efficiency and bearing life. Shaft sleeves are standard
- 62 models. Module design for maximum interchangeability. Multiple impeller selections
- Wide choice of materials
- Grease or oil lubrication
- Soft packing or mechanical seals
- API options available for off site applications
- Approved to FM and/or UL standards
- In compliance with NFPA 20



THRUSTREAM

WATER	FIRE	STANDARD
INDUSTRY	OIL & GAS	

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted electric motor or horizontal electric motor or engine driven

DISCHARGE & PERFORMANCE

- 65 mm to 350 mm
- Outputs up to 3500 m³/h
- Heads up to 300 m

FEATURES

- Axially split casing rotating element can be removed without disturbing pipework
- High hydraulic efficiencies
- Double entry impellers reduce end thrust, increase efficiency and bearing life
- Shaft sleeves fitted as standard for soft packed pumps and as an alternative for mechanical seals. Stainless steel shafts fitted as standard for mechanical seals
- 40 models. Module design for maximum interchangeability
- Grease lubrication
- Soft packing or mechanical seals
- Suitable for baseplate mounting with coupling
 Approved to LPCB, FM and/or UL
- standards
- In compliance with NFPA 20

12

VERTICAL

MULTI-STAGE / MULTI-OUTLET



UP

WATER

INDUSTRY

CONFIGURATION

Horizontally axially split casing, single stage, double or single suction, single or double volute with horizontal shaft

DISCHARGE & PERFORMANCE

- Delivery up to 1200 mm
- · Outputs up to 24,120 m³/h
- Head up to 180 m

FEATURES

- · Rotating assembly accessible for inspection or maintenance by removing upper half casing without disturbing suction and delivery piping and motor
- · Horizontal execution (standard) or vertical
- execution (optional)
- Vertical pump, direct drive or with universal shaft arrangement
- · High hydraulic and overall efficiency due to superior design and manufacturing techniques
- Good suction performance and low NPSH
- Stable characteristics, minimum maintenance required, vibration free performance
- High reliability
- · Mechanical seal or gland packed
- 50 or 60 hz operation



LLC VTP

INDUSTRY OIL & GAS

CONFIGURATION

Vertical lineshaft, vertical electric motor or engine driven, dry or wet well

DISCHARGE & PERFORMANCE

- 200 mm to 600 mm
- Outputs up to 3960 m³/h
- Heads up to 170 m
- Pumping length up to 60 m

FEATURES

- Cartridge mechanical seal
- Spacer couplings minimise seal change
- High grade materials stainless steel impellers & shafts
- Muff couplings aid assembly / disassembly
- Flanged riser pipework
- Modular design
- Extended thrust bearing life
- · Stiff shaft construction
- Dry and wet well installations



VERTICAL TURBINE. AXIAL FLOW/MIXED FLOW & PROPELLER

OIL & GAS

FIRE

CONFIGURATION

Vertical lineshaft, vertical electro submersible, vertical electric motor or engine driven, dry or wet well

DISCHARGE & PERFORMANCE

- 100 mm to 2200 mm
- Outputs up to 40,000 m³/h
- · Heads up to 200 m

FEATURES

- Space saving
- Low maintenance costs
- · High hydraulic efficiency
- Priming problems eliminated. Pump end submerged in liquid
- 60 models, with bowls, heads and columns optimised for performance and cost
- Wide choice of materials
- Diffuser bowls ensure balanced axial
- · Soft packing or mechanical seals
- API construction
- Approved to FM and UL standards, all of which are compliant to NFPA 20
- Nuclear certification
- Dry and wet well installations



BOREHOLE

INDUSTRY

CONFIGURATION

Vertical borehole pump, electric motor

DISCHARGE & PERFORMANCE

- Borewell size 150 mm
- Outputs 44 m³/h
- Head 1m to 447 m

FEATURES

- Higher head per stage resulting in achieving same head with less number of stages
- Better surface finish hence better efficiency and consistent performance
- · Lesser weight and lesser height resulting in ease of installation and transportation
- CED coating cast iron components long life & rust free
- · Loading of pipes improves
- For longer life Teflon Carbon Thrust bearing



KPD-S

INDUSTRY

CONFIGURATION

Vertical sump pump

DISCHARGE & PERFORMANCE

- Delivery size from 20 mm to 150 mm
- Outputs 0.5 to 560 m³/h
- Head 2.3 m to 150 m

FEATURES

- Pit depth up to 5.5 m
- \bullet Temp range from -10 to 150 $^{\circ}\text{C}$
- Self priming
- Available in various materials
- · Mechanical seal or gland packed

MULTISTREAM CD/RKB

INDUSTRY

CONFIGURATION

Consists of a number of ring section diffuser casings bolted suction and delivery casing

DISCHARGE & PERFORMANCE

- CD Delivery 100mm to 125mm
- CD Outputs up to 500 m³/h
- CD Heads up to 60 bar (Fire applications)
- RKB Delivery 32 mm to 250 mm • RKB Outputs up to 850 m³/h
- RKB Heads up to 850 m

- CD for fire applications
- RKB for industrial applications
- · Mechanical seal or gland packed
- Suction flange oriented left or right Vertical mounting
- Low NPSH
- Available as a canned or vertical turbine type arrangements
- Approved to LPCB, FM and/or UL standards, all of which are compliant to NFPA 20

SOLIDS HANDLING



CF

INDUSTRY

CONFIGURATION

Multi-stage pump with modular construction

DISCHARGE & PERFORMANCE

- Delivery size up to 50 mm
- Outputs up to 20 m³/h
- · Head up to 315 m
- •Temp up to 120 °C

FEATURES

- Channel multi-stage, Modular Construction
- Gland Packed / Mechanical Seal
- Electrical Drive / Engine Drive
- Self priming
- Conforming to DIN 24254



SHM

INDUSTRY

CONFIGURATION

Horizontal non-clog pumps having single stage, single suction with back pull out type design

DISCHARGE & PERFORMANCE

- Delivery up to 200 mm
- Outputs up to 800 m³/h
- Head up to 90 m

FEATURES

- · Back pull-out design
- Solids handling up to 105 mm
- Impeller type non clog
- Oil or grease lubricated bearing housing
- Mechanical seal or gland packed
- Temp up to 140 °C



SHL

INDUSTRY

CONFIGURATION

Horizontal and vertical single stage solids handling pump

DISCHARGE & PERFORMANCE

- Delivery up to 900 mm
- Outputs 13,000 m³/h
- · Heads up to 82 m

FEATURES

- Solids handling up to 300 mm
- · Mechanical seal or gland packed
- Impeller enclosed or semi open type
- · Grease or oil lubrication
- · Available in various materials



SHS

INDUSTRY

CONFIGURATION

Vertical non-clog pumps for wet pit applications, these pumps can be offered with a column length up to 6.5M

DISCHARGE & PERFORMANCE

- Delivery up to 300 mm
- Outputs up to 800 m³/h
- · Head up to 90 m

FEATURES

- Solids handling up to 105 mm
- Mechanical seal or gland packed
- · Available in various materials
- Impeller non clog type
- The pump unit is suspended by a column pipe which also protects the transmission shaft.



FREEWAY

CONFIGURATION

WATER INDUSTRY

Vertical direct mounted or open shaft electric motor driven

DISCHARGE & PERFORMANCE

- 75 mm to 600 mm
- Outputs up to 4320 m³/h
- · Heads up to 100 m

FEATURES

- Separate pump and motor
- Pump rotating element incorporation bearing and seal arrangement
- Hydraulic loads taken by pump bearing assembly, not motor bearings
- · Double cartridge mechanical seal option • Hydraulic design – low specific speed
- designs
- · Bespoke wear liner
- Large solids passing capacity
- Hardened metallic impeller option
- · Positively locked impeller



FREESTREAM

WATER

INDUSTRY

CONFIGURATION

Horizontal, vertical open shaft, vertical direct mounted

DISCHARGE & PERFORMANCE

- Delivery up to 200 mm
- Outputs up to 1080 m³/h
- Heads up to 90 m

- High efficiency spiral vane impeller designed to handle large solids, thick sludges and fibrous materials
- Impeller cut to specific duty
- Modular construction to maximise interchangeability
- · Steep H/Q curves mean that changes in pumping head can be tolerated without significant loss of efficiency
- Soft packing or mechanical seals



SOLIDS DIVERTER

WATER

INDUSTRY

CONFIGURATION

Electric motor drive, tank packages

DISCHARGE & PERFORMANCE

- 100 mm to 200 mm
- Outputs up to 75 m³/h
- · Heads up to 40 m

FEATURES

- Automatic totally enclosed sewage pumping station
- · Low noise levels
- High efficiency pumping units
- Minimum maintenance unique system avoids solids passing through pumps so eliminates blockage
- 4 sizes of plant available to suit inflow conditions
- Suitable for basement installation
- · Clean and environmentally friendly
- Economical to operate



PACKAGE SETS

OIL & GAS

CONFIGURATION

Single or multiple pump package sets, horizontal end suction close and long coupled, split case long coupled, multi-stage multi-outlet and vertical turbine all electric motor or engine driven

DISCHARGE & PERFORMANCE

- End Suction (Single Stage) 32 mm to 150 mm. Outputs up to 500 m³/h Heads up to 15.2 bar
- Outputs up to 230 l/s Heads up to 60 bar
- · Split Case 80 mm to 300 mm. Heads up to 44.5 bar (Approved fire set)
- Multi-stage multi-outlet 100mm to 125mm. Outputs up to 315 l/s. Heads up to 60 bar
- Vertical Turbine 200 mm to 508 mm Outputs up to 9000 m³/h
- Multi-stage / multi-outlet 50mm to 250 mm. Outputs up to 850 m³/h. Heads up to 850m. Up to 140 °C

FEATURES

- Meeting the requirements of worldwide insurance and approvals bodies
- End Suction Centreline discharge back pull-out rotating element can be removed without disturbing pipe work
- End Suction Close coupled, space and cost saving solution
- · Axially split case rotating element can be removed without disturbing pipework
- Rigid, box-section baseplates for end suction and split case long coupled packages
- Stainless steel shaft with tight tolerances designed to transmit the maximum load across full pump curve
- Bearing arrangements of ample proportion
- IE2 motors fitted as standard
- Impellers machined and hand finished to meet customer duty



PREPACKAGED PUMP HOUSES

OIL & GAS

CONFIGURATION

Design and supply of enclosure and installation inside of main fire pump sets, jockey pump, controllers, starters, all internal pipe work, test line, flow meter, wiring and lighting to provide a fully packaged unit.

DISCHARGE & PERFORMANCE

- End Suction (Single Stage) 32 mm to 150 mm
- Outputs up to 500 m³/h. Heads up to 15.2 bar
- End Suction (multi-stage) 100 mm
- Outputs up to 830 m³/h. Heads up to 60 bar
- Split Case 80 mm to 300 mm
- Outputs up to 9000 m³/h. Heads up to 44.5 bar
- Vertical Turbine 200 mm to 508 mm
- Outputs up to 315 l/s. Heads up to 31.1 bar

- Delivered complete, ready for immediate installation on simple foundations
- Ease of site installation and connection
- Single responsibility for complete pump house
- Fully tested and pre-commissioned using advanced computerised testing facilities
- Individually engineered to customer requirements
- Containerised CAD design
- Wall insulation reduces environmental noise



OH2-KESS

OIL & GAS INDUSTRY

CONFIGURATION

Single stage, single suction, overhung, radially split, centreline mounted

DISCHARGE & PERFORMANCE

- Outputs up to 2000 m³/h (8800 US.gpm)
- Head up to 400 m (1300 ft)

FEATURES

- Full package compliance with API 610 & API 682 standards
- · Back pull-out casing to aid maintenance
- · Parts interchangeability between models
- · Low NPSH performance (inducer available for extreme conditions)
- Reduced maintenance due to balanced axial thrust from impeller wear-ring and balance holes
- Bearing lubrication by oil flinger as standard. Oil mist retrofit option available



BB1 – HYDROSTREAM

OIL & GAS INDUSTRY

CONFIGURATION

Single stage, between bearing, axially split, foot mounted

DISCHARGE & PERFORMANCE

- Outputs up to 9000 m³/h (40,000 US.gpm)
- Head up to 500 m (1640 ft)

FEATURES

- Generally in compliance with API 610
- Single stage double entry enclosed impeller
- High efficiency product
- Parts interchangeability between models
- Low NPSH performance
- Reduced maintenance due to balanced axial thrust from double entry impeller
- · Bearing lubrication by oil flinger
- Serviceable without removing suction and discharge pipework
- Ease of access to rotating assembly by axially split casing design
- · Removal of bearings and seals without splitting casing



BB2 - KBSD

OIL & GAS INDUSTRY

CONFIGURATION

Single stage, between bearing, radially split, centreline mounted

DISCHARGE & PERFORMANCE

- Outputs up to 6000 m³/h (26,420 US.gpm)
- Head up to 550 m (1800 ft)

- Full package compliance with API 610 & API 682 standards
- · Single stage double entry enclosed impeller
- High efficiency
- · Parts interchangeability between models
- Low NPSH performance
- Reduced maintenance due to balanced axial thrust from double suction impeller
- · Bearing lubrication by oil flinger. Oil mist retrofit option available
- Serviceable without removing suction and discharge pipework
- · East fitment and removal of coupling with tapered pump shaft end



BB2 - KBTS/D

OIL & GAS INDUSTRY

CONFIGURATION

Two stage, between bearing, radially split, centreline mounted

DISCHARGE & PERFORMANCE

- Outputs up to 1500 m³/h (6600 US.gpm)
- Head up to 520 m (1700 ft)

FEATURES

- Full package compliance with API 610 & API 682 standards
- KBTS: two stage, single entry, enclosed impeller
- KBTD: two stage, first stage double entry, enclosed impeller
- High efficiency
- Parts interchangeability between models
- · Low NPSH performance
- Reduced maintenance due to balanced axial thrust from impeller configuration
- Serviceable without removing suction and discharge pipework
- Easy fitment and removal of coupling
- with tapered pump shaft end
- Bearing lubrication by oil flinger. Oil mist retrofit option available



BB3 - KB3S/D

OIL & GAS INDUSTRY

CONFIGURATION

Multi-stage, between bearing, axially split, centreline mounted, single casing

DISCHARGE & PERFORMANCE

- Outputs up to 1500 m³/h (6600 US.gpm)
- Head up to 1650 m (5500 ft)

FEATURES

- Full package compliance with API 610 & API 682 standards
- · KB3S: First stage single suction, multi-stage, enclosed impeller
- · KB3D: First stage double suction, multi-stage, enclosed impeller
- Parts interchangeability between models
- Low NPSH performance
- Reduced maintenance due to balanced axial thrust from opposing impellers and balance piston arrangement
- · Bearing lubrication by oil flinger. Oil mist retrofit option available
- Serviceable without removing suction and discharge pipework
- Ease of access to rotating assembly by axially split casing design
- Removal of bearings and seals without splitting casing
- Easy fitment and removal of coupling with tapered pump shaft end



BB4 - KBSH/KBDH

OIL & GAS INDUSTRY

CONFIGURATION

Multi-stage, between bearing, radially split, centreline mounted, single casing

DISCHARGE & PERFORMANCE

- Outputs up to 650 m³/h (2900 US.gpm)
- Head up to 2500m (8200 ft)

FFATURES

- Full package compliance with API 610 & API 682 standards
- KBSH: multi-stage, single entry, enclosed impellers
- KBDH: multi-stage, single entry, enclosed impeller (first stage double entry)
- Parts interchangeability between models
- Low NPSH performance
- Reduced maintenance due to balanced axial thrust from opposing impellers and balance piston arrangement
- · Bearing lubrication by oil flinger. Oil mist retrofit option available
- Serviceable without removing suction and discharge pipework



BB5 - KBDS/KBDD

OIL & GAS INDUSTRY

CONFIGURATION

Multi-stage, between bearing, radially split, centreline mounted, double casing

DISCHARGE & PERFORMANCE

- Ouputs up to 650 m³/h (2900 US.gpm)
- Head up to 2500m (8200 ft)

FEATURES

- Full package compliance with API 610 & API 682 standards
- · KBDS: multi-stage, single entry, enclosed impellers
- KBDD: multi-stage, enclosed impeller (first stage double entry)
- Parts interchangeability between models
- Low NPSH performance
- Reduced maintenance due to balanced axial thrust from opposing impellers and balance piston arrangement
- Bearing lubrication by oil flinger. Oil mist retrofit option available
- Serviceable without removing suction and discharge pipework
- Easy fitment and removal of coupling with tapered pump shaft end



VS1 & VS6 - KVSL/KVSH

OIL & GAS INDUSTRY

CONFIGURATION

Single or multi-stage, vertically suspended, diffuser type single or canned casing

DISCHARGE & PERFORMANCE

- Outputs up to 1750 m³/h (7700 US.gpm)
- Head up to 1600 (9850 ft)

FEATURES

- Full package compliance with API 610 & API 682 standards
- · Single or multi-shaft and column assembly for longer lengths
- Split and keyed inter-shaft coupling used
- Thrust bearing and seal serviceable without removing suction and discharge pipework
- Parts interchangeability between models
- · Low NPSH performance (inducer available for extreme conditions)
- Reduced maintenance due to balanced axial thrust from impeller wear-ring and balance holes
- · Bearings with non pressure fed lubrication
- · Water jacketed thrust bearing
- · Serviceable without removing suction and discharge pipework



Q-SERIES

CONFIGURATION

Acoustic canopy on road tow or site trailer or skid type chassis

DISCHARGE & PERFORMANCE

- Discharge pressure up to 80 m
- Discharge flow m³/h max 560

FFATURES

- · Minimal moving parts in priming system
- Durable 65 cfm vacuum pump
- Patented 'SmartPrime' system · Single point lifter
- Lockable canopy totally enclosing unit
- Lockable control panel
- Impact resistant doors and louvre panel
- Excellent sound attenuation Latest emission compliant engines
- · Clear air coalescence system
- Heavy-duty shaft and bearings Double mechanical seal
- Large double skin fuel tank
- High efficiency pump hydraulics
- Double spiral-vane impeller Compact manoeuvrable design
- Sewage, solids handling open impeller 'S' design
- Diesel options Isuzu, Caterpillar, Perkins

TRANSFORMER OIL



MEDIUM HEAD OPEN SET (DIESEL)

AUTOPRIME

CONFIGURATION

Open configuration on four wheeled site type trailer

DISCHARGE & PERFORMANCE

- Discharge pressure up to 48 m
- Discharge flow m³/h max 380

FEATURES

- · Low emission coalescer (PM/PE)
- Fuel savings with SmartPrime electric priming (PE)
- Leak free double mechanical seals
- Dry running capability
- Customer choice of the latest emission compliant engines
- High interchangeability of parts
- Heavy duty shaft and bearings
- · High efficiency pump hydraulics
- Heavy duty and durable vacuum pump
- Reduced maintenance
- Integrated central lifter
- Excellent flow and head performance
- · Excellent solids handling capability
- · Quality design and parts offering durability
- Proven technology



HIGH FLOW

CONFIGURATION

Open skid or trailer configuration or acoustic canopy on road tow or site trailer or skid type chassis

DISCHARGE & PERFORMANCE

- Discharge pressure up to 130 m
- Discharge flow m³/h max 2550

FEATURES

- · Low emission coalescer (PM/PE)
- Fuel savings with SmartPrime electric priming (PE)
- · Minimal moving parts in the priming system
- Leak free mechanical sealing
- · Customer choice of the latest emission compliant engines
- High interchangeability of parts
- Heavy duty shaft and bearings
- High efficiency pump hydraulics
- Heavy duty and durable vacuum pump
- Reduced maintenance
- Excellent flow and head performance
- Excellent solids handling capability
- Quality design and parts offering durability
- Proven technology



MEDIUM HEAD OPEN SET (ELECTRIC)

AUTOPRIME

CONFIGURATION

Open skid or trailer electric motor driven

DISCHARGE & PERFORMANCE

- · Discharge pressure up to 160 m
- Discharge flow m³/h max 2550

FEATURES

- · Low emission coalescer (PM/PE)
- Energy savings with SmartPrime electric priming (PE)
- · Minimal moving parts in the priming system
- Leak free mechanical sealing
- High interchangeability of parts
- Heavy duty shaft and bearings
- High efficiency pump hydraulics
- Heavy duty and durable vacuum pump
- Reduced maintenance
- Excellent flow and head performance
- Excellent solids handling capability
- Quality design and parts offering durability
- Proven technology
- Optional variable speed drive
- Power inlet socket for diesel generator drive or mobile site application
- Hazardous area and ATEX approved motors
- Fixed or variable speed. Variable speed via frequency inverter.



HYDRAULIC SUBMERSIBLES

AUTOPRIME

CONFIGURATION

Open skid or trailer configuration or acoustic canopy on road tow or site trailer or skid type chassis

DISCHARGE & PERFORMANCE

- Discharge pressure up to 130 m
- Discharge flow m³/h max 2300

FEATURES

- Comprehensive choice of over 30 pump ends and over 25 power packs to ensure efficient matching
- Efficient, variable speed drive provides excellent fuel-savings
- Proved and reliable designs
- Sound attenuated power packs available
- · Use of biodegradable oil as standard
- · No electrical hazard as encountered with electric submersibles
- Pump ends can be bolted inline to become booster pumps
- Compact dimensions to allow access through manholes
- Minimal maintenance and low maintenance costs
- Easy set-up can be operational in a very short time
- · Can be used in hazardous environments



AT - INLINE RANGE

TRANSFORMER OIL

CONFIGURATION

Inline, glandless oil submerged motor on common shaft with impeller

DISCHARGE & PERFORMANCE

- 50 mm to 250 mm
- Outputs up to 576 m³/h
- Heads up to 30 m

- Aluminium Casings Robust lightweight design
- · Proven long reliability in industry
- · Hand built in England with British castings and European Motors
- Entire range 3D CAD modelled
- · Every pump is performance and pressure tested on our warm oil test rig (documented results)
- · Duty performance to your specific requirements
- · Flexible to your needs flange drillings, paint and material specifications to your needs
- · Fully weatherproof
- Oil cooling circulation in:
 - Power distribution transformers
 - Locomotive transformers and converters



AT - ELBOW RANGE

TRANSFORMER OIL

CONFIGURATION

Elbow (end suction) glandless oil submerged motor on common shaft with impeller

DISCHARGE & PERFORMANCE

- 100 mm to 250 mm
- Outputs up to 792 m3/h
- Heads up to 25 m

- · High grade cast iron casings and bronze impellers
- Proven long lifetime performance in industry
- Hand built in England with British castings and European Motors
- Every pump is performance and pressure tested on our warm oil test rig (documented results)
- Duty performance to your specific requirements
- Flange and paint to your specifications
- Fully weatherproof
- Oil cooling circulation in: - Power distribution transformers
 - Locomotive transformers and converters

FOR WHERE IT REALLY MATTERS ACROSS THE GLOBE

At our main manufacturing centre in the UK we strive to develop the best products using high quality engineering and manufacture. Engineered and developed to the most rigorous standards, our products are then tested in our purpose built facility that incorporates a 1.4 million litre reservoir. It's no surprise that our products are commonly regarded as the best in the industry.



www.spppumps.com | enquiries@spppumps.com | tel: +44 (0) 118 932 3123



















Peerlees Fire Pumps

- Vertical Turbine Fire Pumps
- End Suction Fire Pumps
- Split Case Fire Pumps





Peerless Fire Pump installations (UL Listed, ULC Listed or FM Approved) deliver superior fire protection to facilities worldwide. Field-tested products are designed for reliability and longevity and include a broad selection of pumps, drives, controls, baseplates and accessories.

FEATURES & BENEFITS

Proven pumping systems meet changing and demanding conditions.

Pumps are available with industry-leading lead times, specifically AEF and PVF models (4–6 weeks).

Market-leading hydraulic efficiencies; our fire pumps have a lower horsepower than the marketplace average.

Custom engineered designs allow for thousands of installations of all sizes and types.

Mechanical-run test capabilities and enclosures are available.

Drives are available in electric motor or diesel engine.

Solution options include basic units, packaged systems, and engineered enclosures to suit each application and need.

Our sales team brings more than 175 years of combined fire pump protection experience to every job. Our team members can offer everything from complete end-to-end engineering assistance to in-house fabrication and field startup.

ANSI NSF 61 & 372 safe drinking water and low-lead certified.

PACKAGED SYSTEMS

Peerless Engineered Systems (PES) are custom, packaged fire systems, comprised of pumps, drives, controls, piping and valves, designed specifically to meet your unique pumping challenges and give you a single-source of responsibility for the entire system.



APPLICATIONS

- Commercial fire protection in buildings such as schools, hospitals, office buildings and shopping centers
- Industrial and power fire protection, including power generating plants and manufacturing facilities
- Offshore fire protection, including drilling platforms, production platforms or onshore storage and distribution terminals

FIRE PUMP TYPES

- Horizontal models for capacities to 5,000 gpm (AEF, TUT, TUTF Fire Pumps)
- Vertical models for capacities to 5,000 gpm (VTF Fire Pump)
- In-line models for capacities to 1,500 gpm (PVF Fire Pump)



Viessmann

- Heat Exchangers
- Boilers
- Heat Pumps
- Thermal Solar Panels





- Heat exchangers





Alfa laval

-Heat exchanger



Filtralite® Clean

-Heat exchanger

Filtralite®



FILTRALITE®

Filtralite® Clean



WASTE WATER

Filtering the water for tomorrow



Our purpose

Whether you live in Cairo, Chicago or Copenhagen, there is an increasing influx of people to the big cities. Demographic changes and urbanisation across the globe put a strain on cities and their capacity to supply basic necessities such as wastewater treatment.

With its unique porosity, Filtralite® Clean filter media offers optimum conditions for biofilm growth and for water to flow through the filter bed in order to retain and adsorb more contaminants. This feature allows for larger volumes of water to be filtered through the same volume as contact area is increased. Our products also decrease operation costs.

As cities are gearing for the future, Filtralite® Clean filter media is an innovative and premium filtering product tailored to meet tomorrow's needs.



What is Filtralite® Clean filter media?

Designed for wastewater treatment plants, Filtralite® Clean is a filter media suitable for both biological treatment and tertiary filtration.

Filtralite® products can be used:

- For biofilm growth support in aerobe (nitrification and organic matter) and anoxic (denitrification) biological reactors,
- In single and dual media tertiary/polishing filters.

What are the advantages of Filtralite® Clean in biological reactors?

In biological aerated fiters, biomass is fixed to the Filtralite® media, which also works well as a mechanical filter for suspended solids. Filtralite® Clean offers

- great specific area for biofilm growth combined to high void ratio
- high number of macropores
- a very efficient process on volumetric bases
- lighter density than traditional media
- and high resistance to abrasion.

Filtralite® Clean performance in numbers

A **25-year lifespan** for Filtralite[®] Clean media in biological filters¹

In tertiary filtration, **time between backwashes** can be increased by about **25** %²

Existing Filtralite® filters operate around 15 m/h -20 m/h for tertiary filtration

Our projects references:

1 VEAS, Oslo, NO $\,^2$ Käppala, Sweden

What are the advantages of Filtralite® Clean in tertiary filtration?

Compared to traditional filter media, Filtralite® has much higher porosity, which gives

- lower initial head loss.
- slower head loss build up
- higher particle storage
- capacity
- lower backwash rates
 - lower operational costs.

4 5









More about Filtralite[®]...

Filtralite® filter media is made by heating clay to around 1200° C, followed by crushing and sieving.

Dry particle densities in the range from 500 to 1.600 kg/m3 and aggregate size from 0 to 20 mm can be "tailor-made" for specific applications.

In addition to its low density and high porosity, Filtralite® offer high abrasion and impact resistance.

Filtralite develops and manufactures quality filter media for all water treatment applications:

- Filtralite® Pure for drinking water solutions,
 both for physical filtration and biological treatment
- **Filtralite® Clean** for wastewater treatment, both for biological process and tertiary filtration
- Filtralite® Nature for onsite water remediation

FILTRALITE®

Contact information

www.filtralite.com

Filtralite is a Leca® International brand





Are you looking for

- Increased water output without expanding existing facilities
- Savings on operation costs
- A sustainable solution for water filtering
- An easy to implement product

Our purpose

Whether you live in Cairo, Chicago or Copenhagen, there is an increasing influx of people to the big cities. Demographic changes and urbanisation across the globe put a strain on cities and their capacity to produce basic necessities such as drinking water.

With its unique porosity, Filtralite® Pure filter media offers optimum conditions for water to flow through the filter bed in order to retain and adsorb more contaminants. This feature allows for larger volumes of water to be filtered through the same volume as contact area is increased. Water management facilities can thereby increase their output without having to rebuild and expand existing facilities simply by replacing the conventional filtering media with Filtralite®.

Our products not only increase water output volumes, they also decrease operation costs. By replacing conventional sand filters with Filtralite® Pure filter media, you can expect to get your money back in less than 3 years.

Because Filtralite® Pure filter media requires fewer backwashes, which means less energy and less water loss, which at the end of the day means more water out of your plant. This way, we ensure you get more out of the resources you already have.

As cities are gearing for the future, Filtralite® Pure filter media is an innovative and premium filtering product tailored to meet tomorrow's needs.



What is Filtralite® Pure filter media?

Designed for drinking water plants and pre-treatment for desalination, Filtralite® Pure is a filter media suitable for both physical filtration and biological treatment.

Filtralite® products can be used:

- In single media filters
- In dual media filters, Filtralite® Mono-Multi combines two different qualities of Filtralite® products,
- In biological filters for ammonia, iron, manganese and other biodegradable substances removal.

What are the advantages of a Filtralite® Pure single/dual media filter?

Compared to traditional filter media, Filtralite® has much **higher porosity**, which gives

- lower initial head loss
- slower head loss build up
- higher particle storage capacity
- and lower backwash rates.

Filtralite® Pure performance in numbers

In single media filters, time between backwashes can be extended by up to 500% ¹

In dual media filters, up to 8 times less frequent backwashes ²

In biofilters, ammonia removal superior to 90% $^{\rm 3}$

Backwash rates lowered by 35% ⁴

Existing Filtralite® filters operate from 2 m/h up to 20 m/h for physical filtration and up to 30 m/h for biofilters

What are the advantages of Filtralite® Pure in biological filters?

Compared to other media, Filtralite® has much **higher porosity**, which gives

- great specific area for biofilm growth
- high number of macropores
- lighter density than traditional media
- and high resistance to abrasion.

Our projects references:

1 Sluvad, Wales, UK 2 Thames Water, UK
3 Tai Po, Hong Kong 4Bedrichov, CZ

4

Filtralite® Pure Mono-Multi

Designed for drinking water plants and pre-treatment for desalination, Filtralite® Pure Mono-Multi is a dual media filter that can easily replace sand in open and under pressure filtering installation, without changing any equipment.

It consists of two types of Filtralite® Pure filter media with different densities and sizes to improve particle removal, increase filter runs and production capacity.



	DRY PARTICLE DENSITY	GRAIN SIZE
Upper layer	1.000-1.200 kg/m3	1,5-2,5 mm
Lower layer	1.500-1.700 kg/m3	0,8-1,6 mm

Filtralite® Pure Mono-Multi performance in numbers

- Filtering infrastructure reduced by 30 %1
- Production rate increased by up to 2 times²
- Existing Filtralite® Mono-Multi filters operate from 2 m/h up to 20 m/h
- Up to 8 times less frequent backwashes3
- Return on investment < 3 years4

ır projects references:

Bedrichov, CZ ² Thames Water, U

³ Thames Water, UK ⁴ Bedrichov, CZ & Fredrikstad, NO









More about Filtralite®...

Filtralite® filter media is made by heating clay to around 1200° C, followed by crushing and sieving.

Dry particle densities in the range from 500 to 1.600 kg/m³ and aggregate size from 0 to 20 mm can be "tailor-made" for specific applications.

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Filtralite® develops and manufactures quality filter media for all water treatment applications:

- **Filtralite® Pure** for drinking water solutions, both for physical filtration and biological treatment
- **Filtralite® Clean** for wastewater treatment, both for biological process and tertiary filtration
- Filtralite® Nature for onsite water remediation

FILTRALITE®

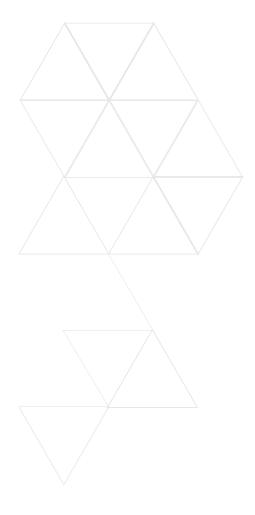
Contact information

www.filtralite.com

Filtralite is a Leca International brand







Test report



Viewed from SAP 20091012 110219 by GMHKNE Status: Released Version: 00 Eff.Date: 20051031

Test Report for Pump ISO 9906 Annex A

Verification of duty point



Customer: Schmidt & Co

Order No.: 123456789

Date of test: 2004-08-05 11:57 AM

Test bed: Modul1 Operator: KJC

Pump type: CRN10-20

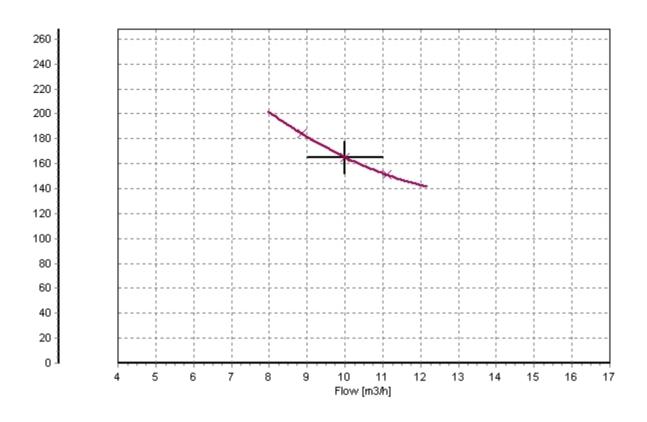
Customer request:

	Flow (m3/h)	Head (m)
Duty point	10.00	165.00

Viewed from SAP 20091012 110219 by GMHKNE Status: Released Version: 00 Eff. Date: 20051031

Test results for serial no.: 965010540432P10002

	Flow (m3/h)	Head (m)	RPM (min-1)	U1 (V)	U2 (V)	U3 (V)	I1 (A)	I2 (A)	I3 (A)	P1 (kW)
Point 1	8,85	184,28	2.900	400	400	400	15,0	15,0	15,0	7,5
Point 2	10,00	165,25	2.900	400	400	400	15,0	15,0	15,0	7,5
Point 3	11,10	151,23	2.900	400	400	400	15,0	15,0	15,0	7,5





Standard test report

Customer name	Grundfos Saudi Arabia PO Box 27597 11427 Riyadh	
Customer order no.	4510513160	
Customer Tag no.		
GRUNDFOS order no.	11671310	
Product type	SEG.40.40.2.60H.Z	
GRUNDFOS DUT id.	9930866810000004	
Part number	99308668	

We the undersigned hereby guarantee and certify that the materials and/or parts for the above mentioned product were manufactured by GRUNDFOS, tested, inspected, and conform to the full requirements of the appropriate catalogues, drawings and/or specifications relative thereto.

The attached test result is from the above mentioned pump.

GRUNE FOS Magy. yárto Kft 2800 Tatabanya, Buzavirág út

GRUNDFOS

Date: 17.10.2017

Signature: Fazekas Veronika
Dept.: OA GMH2

ISO 9906:2012 Grade 3B

 Customer:
 DCN
 Serial number:
 9930866810000004

 Order number:
 100011014888
 Date:
 16/10/2017 08:23

Operator: ACA Testbed: 70055739

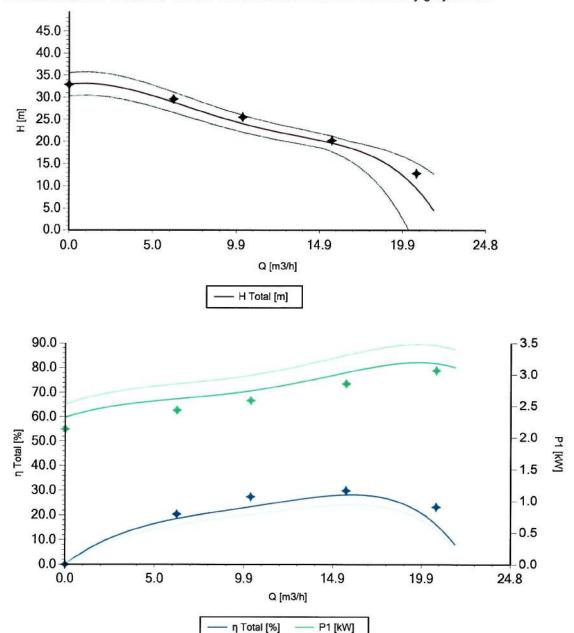
Certificate serial number:

Pump type: SEG.40.40.2.60H.Z

Product number: 99308668

Measured values for tested pump

The marks indicate the measured values. The tolerance limits are indicated by grey curves.



ISO 9906:2012 Grade 3B

 Customer:
 DCN
 Serial number:
 9930866810000004

Order number: 100011014888 Date: 16/10/2017 08:23

Operator: ACA Testbed: 70055739

Certificate serial number:

Result:

	Qm [m3/h]	Hm [m]	η_total [%]	T [°C]
Point 1	20.683	12.76	23	22.7
Point 2	15.632	20.20	30	22.8
Point 3	10.294	25.52	28	22.8
Point 4	6.194	29.61	20	22.8
Point 5	0.000	32.96	0	22.8

	U1 [V]	U2 [V]	U3 [V]	f [Hz]	I_Avg [A]	11 [A]	12 [A]	13 [A]	Cos(\phi)	P1m [kW]
Point 1	460.0	461.0	462.0	60	4.56	4.52	4.60	4.57	0.84	3.07
Point 2	461.0	461.0	462.0	60	4.31	4.29	4.35	4.3	0.83	2.86
Point 3	461.0	461.0	462.0	60	4.00	3.97	4.05	3.99	0.81	2.59
Point 4	460.0	461.0	461.0	60	3.82	3.82	3.83	3.81	0.80	2.44
Point 5	460.0	461.0	461.0	60	3.49	3.45	3.53	3.49	0.77	2.14

Head components:

	Head_Static [m]	Head_Dyn [m]	Head_Geo [m]	Head_J [m]	Head_C [m]
Point 1	11.84	0.89	0.00	0.04	0
Point 2	19.68	0.51	0.00	0.02	0
Point 3	25.29	0.22	0.00	0.01	0
Point 4	29.53	0.08	0.00	0.00	0
Point 5	32.96	0.00	0.00	0.00	0

Additionally, during manufacturing the following tests have been carried out:

Tightness of the motor; testing pressure 0,8 bar.

High voltage test according to EN 60034-1.

No-load test.

Insulation resistance test.

Earth continuity test.

ISO 9906:2012 Grade 3B

Customer:

DCN

Serial number:

9930866810000004

Order number:

100011014888

Date:

16/10/2017 08:23

Operator:

ACA

Testbed:

70055739

Certificate serial number:

Explanation:

Measured values

П

Voltage

Cos(¢)

Power factor

f

Frequency

n

Speed

I_Avg

= Average current

....

= Water temperature

Qm Hm Measured flowMeasured Total Head

P₁m

Measured Motor Power Input

Calculated values

Q(n)

Flow at nominal speed

η_total

Total Efficiency

H(n)

Total Head at nominal speed

P1(n)

Motor Power Input at norminal speed

Formulas

Q(n)

Qm x (n_nom/n)

Н

Head_Sta + Head_Dyn + Head_Geo + Head_J +

Head C

H(n)

Hm x (n_nom/n)²

Head_Sta

= Dynamic head

P1(n)
n_total

= P1m x (n_nom/n)³

(p x Qm x Hm x g) / P1m

Head_Dyn Head_Geo

= Geometric elevation head

Static Pressure head

Head_J

= Friction head

Head_C

Friction loss of connector

Legend and test conditions:

- Measurements were made with airless water at approximately 20 °C (63 °F) and a kinematic viscosity of 1 mm²/s (= 1.076 × 10-5 ft²/s = 1 cSt).
- The testbed is constructed and calibrated according to requirements in ISO 9906.

Test Facility:

GRUNE FOS X

Magy. yarto Kft 2800 Tatabanya, Buzavirág út Grundfos Manufacturing Hungary

Búzavirág u. 14

Tatabánya

2800

Hungary

Phone: (+36) 34 520 100

www.grundfos.com

Fax:(+36) 34 520 200

Signed by

16/10/2017 11:36:04

•

A CONTRACTOR OF STATE OF STATE

No Standard

Customer:

Abdullah Nasir Almousa

Establishment

Serial number:

10000001

Order number:

KS-PO-18-50R King Abdulaziz Tunnel

Date:

03/09/2018 20:52

Operator:

ADR

Testbed:

550780-1

Certificate serial number:

9947145510000001

Pump type:

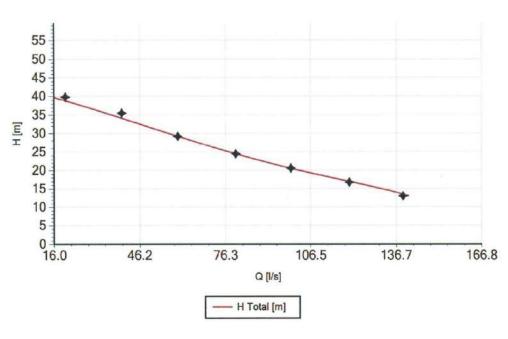
S1.100.125.310.4.58M.S.278.Q.N.D.615.Z

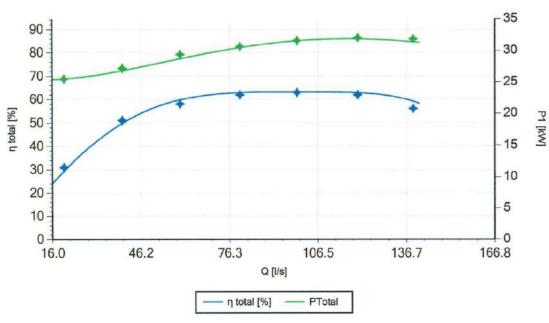
Pump Motor:

Product number:

99471455

Measured values for tested pump





No Standard

Customer:

Abdullah Nasir Almousa

Establishment

Serial number:

10000001

Order number:

KS-PO-18-50R King Abdulaziz

Date:

03/09/2018 20:52

Operator:

Tunnel ADR

Testbed:

550780-1

Certificate serial number:

9947145510000001

Result:

	Qm [l/s]	Hm [m]	η_total [%]	T [°C]	EsQ [kW/l/s]	EsQH [kW/l/s/m]
Point 1	19.99	39.89	31	25	1.2744	0.0319
Point 2	39.89	35.52	51	25	0.6809	0.0192
Point 3	59.47	29.23	58	25	0.4931	0.0169
Point 4	79.90	24.46	62	25	0.383	0.0157
Point 5	99.46	20.62	63	25	0.3171	0.0154
Point 6	120.17	16.82	62	25	0.2663	0.0158
Point 7	139.04	13.05	56	25	0.2288	0.0175

	U1 [V]	U2 [V]	U3 [V]	f [Hz]	I_Avg [A]	11 [A]	12 [A]	13 [A]	Cos(¢)	P1m [kW]
Point 1	381.0	380.0	381.0	60	49.36	49.584	49.22	49.287	0.78	25.47
Point 2	380.0	379.0	379.0	60	51.74	51.967	51.593	51.656	0.80	27.16
Point 3	379.0	379.0	379.0	60	54.87	55.108	54.728	54.785	0.81	29.32
Point 4	379.0	379.0	379.0	60	56.76	57.004	56.603	56.671	0.82	30.60
Point 5	379.0	379.0	379.0	60	58.17	58.42	58.013	58.072	0.83	31.54
Point 6	379.0	379.0	379.0	60	58.84	59.089	58.678	58.737	0.83	32.00
Point 7	379.0	379.0	379.0	60	58,52	58.769	58.358	58.428	0.83	31.82

Head components:

	Head_Static [m]	Head_Dyn [m]	Head_Geo [m]	Head_J [m]
Point 1	42.14	0.11	-2.36	0.00
Point 2	37.42	0.44	-2.36	0.01
Point 3	30.59	0.97	-2.36	0.03
Point 4	25.01	1.75	-2.36	0.06
Point 5	20.17	2.72	-2.36	0.09
Point 6	15.09	3.97	-2.36	0.13
Point 7	9.93	5.31	-2.36	0.17

Additionally, during manufacturing the following tests have been carried out:

Tightness of the motor; testing pressure 0,8 bar.

High voltage test according to EN 60034-1.

No-load test.

Insulation resistance test.

Earth continuity test.

No Standard

Customer:

Abdullah Nasir Almousa

Establishment

KS-PO-18-50R King Abdulaziz

Tunnel

Date:

Serial number:

10000001

550780-1

Operator:

ADR

Testbed:

03/09/2018 20:52

Order number:

Certificate serial number:

9947145510000001

Explanation:

Measured values

U

Voltage

Cos(ϕ)

Power factor Speed

I_Avg

Frequency Average current

Qm Hm Measured flow

n

Water temperature

P₁m

Measured Motor Power Input

Measured Total Head

Calculated values

Flow at nominal speed Q(n)

η_total

Total Efficiency

Total Head at nominal speed H(n)

EsQ

Specific energy consumption

P1(n) Motor Power Input at norminal speed

EsQH

Specific energy consumption

Formulas

Q(n)

Qm x (n_nom/n)

Head_Sta + Head_Dyn + Head_Geo + Head_J +

Head_C

H(n)

Hm x (n_nom/n)2

Head_Static

Static Pressure head Dynamic head

P1(n) EsQ

P1m x (n_nom/n)3

Head_Dyn Head_Geo

Geometric elevation head

EsQH

P1m/Qm P1m/Qm/Hm

Head_J

Friction head

Legend and test conditions:

- Measurements were made with airless water at approximately 20 °C (63 °F) and a kinematic viscosity of 1 mm²/s (= 1.076 × 10-5 ft²/s = 1 cSt).
- . The testbed is constructed and calibrated according to requirements in ISO 9906.

Test Facility:

Grundfos Manufacturing Hungary Ltd.

Holland fasor 15.

Székesfehérvár

H8000

Hungary

GRUNDFOSPhone (+36) 22 801 801

Magyarország Gyártó Fáx:(+36) 22 801 800 székesfeberván telepnely 8000 Szélesfehérvár, Holland fasor 15.

Signed by

www.grundfos.com

08/11/2018 11:05:16

No Standard

Customer:

Abdullah Nasir Almousa

Establishment

Serial number:

10000001

Order number:

KS-PO-18-50R King Abdulaziz Tunnel

Date:

03/09/2018 20:52

Operator:

ADR

Testbed:

550780-1

Certificate serial number:

9947145510000001

Pump type:

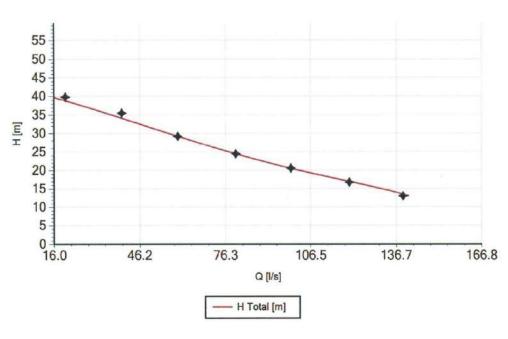
S1.100.125.310.4.58M.S.278.Q.N.D.615.Z

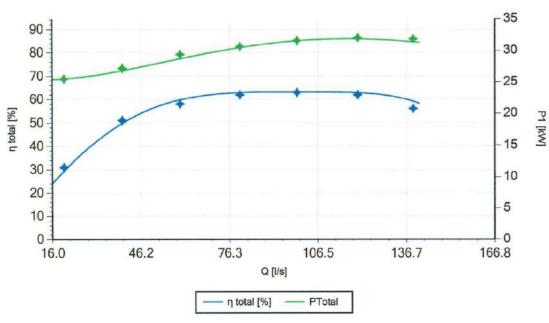
Pump Motor:

Product number:

99471455

Measured values for tested pump





No Standard

Customer:

Abdullah Nasir Almousa

Establishment

Serial number:

10000001

Order number:

KS-PO-18-50R King Abdulaziz

Date:

03/09/2018 20:52

Operator:

Tunnel ADR

Testbed:

550780-1

Certificate serial number:

9947145510000001

Result:

	Qm [l/s]	Hm [m]	η_total [%]	T [°C]	EsQ [kW/l/s]	EsQH [kW/l/s/m]
Point 1	19.99	39.89	31	25	1.2744	0.0319
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Point 3	59.47	29.23	58	25	0.4931	0.0169
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Point 6	120.17	16.82	62	25	0.2663	0.0158
Point 7	139.04	13.05	56	25	0.2288	0.0175

	U1 [V]	U2 [V]	U3 [V]	f [Hz]	I_Avg [A]	11 [A]	12 [A]	13 [A]	Cos(¢)	P1m [kW]
Point 1	381.0	380.0	381.0	60	49.36	49.584	49.22	49.287	0.78	25.47
Point 2	380.0	379.0	379.0	60	51.74	51.967	51.593	51.656	0.80	27.16
Point 3	379.0	379.0	379.0	60	54.87	55.108	54.728	54.785	0.81	29.32
Point 4	379.0	379.0	379.0	60	56.76	57.004	56.603	56.671	0.82	30.60
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Point 7	379.0	379.0	379.0	60	58,52	58.769	58.358	58.428	0.83	31.82

Head components:

	Head_Static [m]	Head_Dyn [m]	Head_Geo [m]	Head_J [m]
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Point 3	30.59	0.97	-2.36	0.03
Point 4	25.01	1.75	-2.36	0.06
Point 5	20.17	2.72	-2.36	0.09
Point 6	15.09	3.97	-2.36	0.13
Point 7	9.93	5.31	-2.36	0.17

Additionally, during manufacturing the following tests have been carried out:

Tightness of the motor; testing pressure 0,8 bar.

High voltage test according to EN 60034-1.

No-load test.

Insulation resistance test.

Earth continuity test.

No Standard

Customer:

Abdullah Nasir Almousa

Establishment

KS-PO-18-50R King Abdulaziz

Tunnel

Date:

Serial number:

10000001

550780-1

Operator:

ADR

Testbed:

03/09/2018 20:52

Order number:

Certificate serial number:

9947145510000001

Explanation:

Measured values

U

Voltage

Cos(ϕ)

Power factor Speed

I_Avg

Frequency Average current

Qm Hm Measured flow

n

Water temperature

P₁m

Measured Motor Power Input

Measured Total Head

Calculated values

Flow at nominal speed Q(n)

η_total

Total Efficiency

Total Head at nominal speed H(n)

EsQ

Specific energy consumption

P1(n) Motor Power Input at norminal speed

EsQH

Specific energy consumption

Formulas

Q(n)

Qm x (n_nom/n)

Head_Sta + Head_Dyn + Head_Geo + Head_J +

Head_C

H(n)

Hm x (n_nom/n)2

Head_Static

Static Pressure head Dynamic head

P1(n) EsQ

P1m x (n_nom/n)3

Head_Dyn Head_Geo

Geometric elevation head

EsQH

P1m/Qm P1m/Qm/Hm

Head_J

Friction head

Legend and test conditions:

- Measurements were made with airless water at approximately 20 °C (63 °F) and a kinematic viscosity of 1 mm²/s (= 1.076 × 10-5 ft²/s = 1 cSt).
- . The testbed is constructed and calibrated according to requirements in ISO 9906.

Test Facility:

Grundfos Manufacturing Hungary Ltd.

Holland fasor 15.

Székesfehérvár

H8000

Hungary

GRUNDFOSPhone (+36) 22 801 801

Magyarország Gyártó Fáx:(+36) 22 801 800 székesfeberván telepnely 8000 Szélesfehérvár, Holland fasor 15.

Signed by

www.grundfos.com

08/11/2018 11:05:16

Test Report for Booster System

Operator: Testbed:

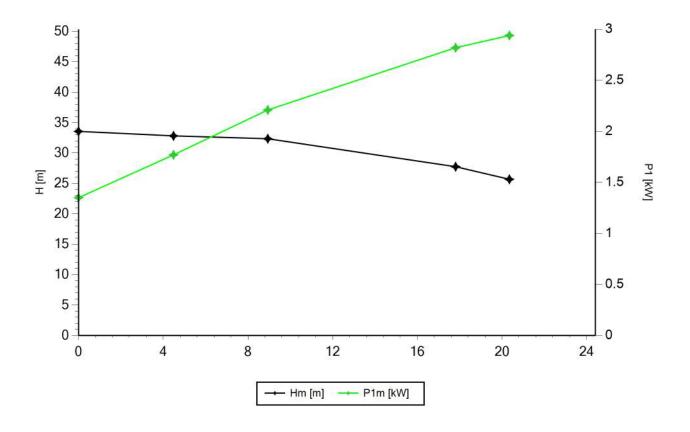
Pump type: 3CM10-2 X 3x400V Motor manufacturer: GRUNDFOS

Product number:

Order number:

Measured values for tested Booster System

Date:



Test Report for Booster System

Customer:	Serial number:
Order number:	Date:
Operator:	Testbed:

Result:

	Qm [m3/h]	Hm [E]	p_inlet [bar]	EsQ [kW/m3/h]	EsQH [kW/m3/h/m]
Point 1	20.35	25.68	1.92	0.1445	0.0056
Point 2	17.81	27.75	1.89	0.1583	0.0057
Point 3	8.94	32.35	1.88	0.2473	0.0076
Point 4	4.49	32.82	1.88	0.3946	0.012
Point 5	0.00	33.56	1.95	0	0

	U1 [∑]	U2 [V]	U3 [V]	f [Hz]	I_Avg [A]	P1m [kW]
Point 1	399.9	399.8	400.0	50	5.86	2.94
Point 2	400.4	400.0	400.4	50	5.77	2.82
Point 3	400.7	400.1	400.8	50	5.16	2.21
Point 4	399.8	399.8	400.0	50	4.78	1.77
Point 5	399.8	399.9	400.1	50	4.51	1.35

Static High Pressure Test

A static pressure test was performed at

6.02 bar

Test Report for Booster System

Customer: Serial number:
Order number: Date:
Operator: Testbed:

Explanation:

Measured values

U = Voltage
 f = Frequency
 I_Avg = Average current

Qm = Measured flow

Hm = Measured Total Head p inlet = Inlet Pressure

P1m = Measured Motor Power Input

Calculated values

EsQ = Specific energy consumption
EsQH = Specific energy consumption

Formulas

EsQ = P1m / Qm H = Head_Sta + Head_Dyn + Head_Geo + Head_J

EsQH = P1m / Qm / Hm Head_Static = Static Pressure head

Head_Geo = Geometric elevation head

Head_J = Friction head

Legend and test conditions:

• Measurements were made with airless water at approximately 20 °C (63 °F) and a kinematic viscosity of 1 mm²/s (= 1.076 × 10-5 ft²/s = 1 cSt).

• The testbed is constructed and calibrated according to requirements in ISO 9906.

Test Facility: GRUNDFOS Gulf Distribution, FZE

P.O. Box 16768 Jebel Ali Free Zone

Dubai

United Arab Emirates(UAE) Phone:(+971) 4 8815 166

Fax:(+971) 4 8815 136 www.grundfos.com

Signed by 25/04/2019 11:27:16



Standard test report

Customer name	Grundfos Saudi Arabia PO Box 27597 11427 Riyadh	
Customer order no.	4510137893	
Customer Tag no.		
GRUNDFOS order no.	11526855	
Product type	SLV.80.80.60.2.61G.C.Q.Z	
GRUNDFOS DUT id.	9928591410000000	
Part number	99285914	

We the undersigned hereby guarantee and certify that the materials and/or parts for the above mentioned product were manufactured by GRUNDFOS, tested, inspected, and conform to the full requirements of the appropriate catalogues, drawings and/or specifications relative thereto.

The attached test result is from the above mentioned pump.

GRUNDFOS X Magyarerszay (5 2800 Tatabánya, Búzavirág

GRUNDFOS

Date: 19.06.2017

Signature: Name:

Fazekas Veronika

Dept.:

QA GMH2

ISO 9906:2012 Grade 3B

 Customer:
 DCN
 Serial number:
 9928591410000000

 Order number:
 100010517360
 Date:
 13/06/2017 16:23

Operator: KAV Testbed: 78524PC

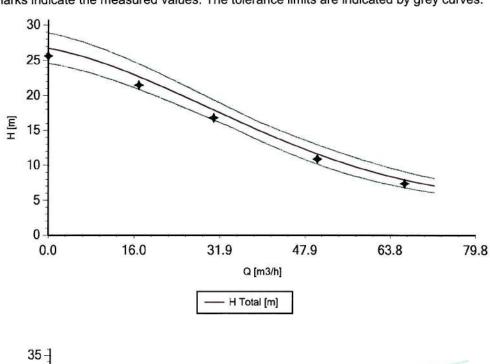
Certificate serial number:

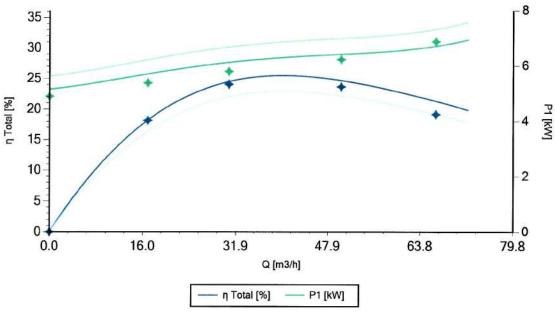
Pump type: SLV.80.80.60.2.61G.C.Q.Z Pump Motor: 6.0 kW 2 poles

Product number: 99285914

Measured values for tested pump

The marks indicate the measured values. The tolerance limits are indicated by grey curves.





ISO 9906:2012 Grade 3B

Customer:

DCN

Serial number:

9928591410000000

Order number:

100010517360

Date:

13/06/2017 16:23

Operator:

KAV

Testbed:

78524PC

Certificate serial number:

Result:

	Qm [m3/h]	Hm [m]	η_total [%]	T [°C]
Point 1	66.482	7.34	19.20	24.9
Point 2	50.133	10.86	23.70	24.9
Point 3	30.700	16.78	24.10	24.9
Point 4	16.822	21.47	18.20	25
Point 5	0.000	25.63	0.00	25

	U1 [M]	U2 [V]	U3 [V]	f [Hz]	11 [A]	12 [A]	13 [A]	P1m [kW]
Point 1	430.0	430.0	430.0	60	11.19	10.48	11.14	6.88
Point 2	430.0	430.0	430.0	60	10.34	9.70	10.29	6.23
Point 3	430.0	430.0	430.0	60	9.66	9.05	9.6	5.80
Point 4	431.0	431.0	430.0	60	9.19	8.60	9.12	5.38
Point 5	431.0	431.0	431.0	60	8.5	8.01	8.51	4.90

Additionally, during manufacturing the following tests have been carried out:

Tightness of the motor; testing pressure 0,8 bar.

High voltage test according to EN 60034-1.

No-load test.

Insulation resistance test.

Earth continuity test.

Performance test description::

This pump is tested according to ISO 9906:2012 grade 3B or ANSI/HI 11.6:2012 grade 3B tolerances.

The testbed is constructed and calibrated according to requirements in ISO 9906.

Pump is approved according to the tolerances for entire curve, specified in grade 3B.

ISO 9906:2012 Grade 3B

Customer:

DCN

KAV

Serial number:

9928591410000000

Order number:

Operator:

100010517360

Date: Testbed: 13/06/2017 16:23 78524PC

Certificate serial number:

Explanation:

Measured values

U = Voltage

Cos(ϕ)

Power factor

= Frequency

n

Speed

I_Avg = Average current

Qm = Measured flow

T

Water temperature

Hm = Measured Total Head

P1m = Measured Motor Power Input

Calculated values

Flow at nominal speed

η_total

Total Efficiency

H(n) = Total Head at nominal speed

P1(n) = Motor Power Input at norminal speed

Formulas

Q(n)

Q(n) =

Н

Head_Sta + Head_Dyn + Head_Geo + Head_J +

Head_C

H(n)

Hm x (n_nom/n)2

Qm x (n_nom/n)

Head_Sta Head_Dyn

= Dynamic head

P1(n)
n_total

= P1m x (n_nom/n)³ = (p x Qm x Hm x g) / P1m

Head_Geo

= Geometric elevation head

Static Pressure head

Head_J

= Friction head

Legend and test conditions:

- Measurements were made with airless water at approximately 20 °C (63 °F) and a kinematic viscosity of 1 mm²/s (= 1.076 × 10-5 ft²/s = 1 cSt).
- The testbed is constructed and calibrated according to requirements in ISO 9906.

Test Facility:

39.

Grundfos Manufacturing Hungary

Búzavirág u. 14

Tatabánya

2800

Hungary

Magyarerszay G. 2800 Tatabánya, Búzavirág

GRUNDFOS

Phone:(+36) 34 520 100

www.grundfos.com

Fax:(+36) 34 520 200

Signed by

Corci

14/06/2017 08:50:14

Viewed from SAP 20091012 110801 by GMHKNE Status: Released Version: 00 Eff. Date: 20051006

Test Report for Pump ISO 9906 Annex A



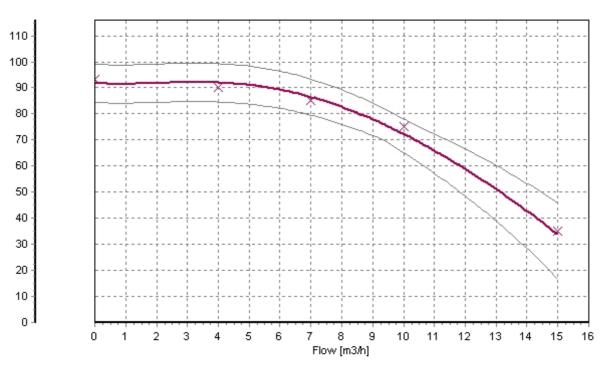
Customer: Schmidt & Co Date of test: 2004-04-27 8:24 AM

Order number: 123456789 Test bed: Modul1

Operator: KJC

Pump Type: CR10-9 A-A-A-V-HQQV **Motor type:** MG

	Q (m3/h)	H (m)	RPM (min-1)	U1 (V)	U2 (V)	U3 (V)	I1 (A)	I2 (A)	I3 (A)	P1 (kW)
Point 1	15,00	35,10	3.000	400	401	401	6,0	6,0	6,0	3,0
Point 2	10,00	75,20	3.000	400	401	401	6,0	6,0	6,0	3,0
Point 3	7,00	85,23	3.000	400	401	401	6,0	6,0	6,0	3,0
Point 4	4,00	90,24	3.000	400	401	401	6,0	6,0	6,0	3,0
Point 5	0,00	93,25	3.000	400	401	401	6,0	6,0	6,0	3,0





Certificate of Compliance

Certificate: 2285468 Master Contract: 167082

Project: 70024983 **Date Issued:** April 1, 2015

Issued to: Grundfos Holding A/S

Poul Due Jensens Vej 7 Bjerringbro, 8850

Denmark

Attention: Zoltan Gergely Viragh

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Muhunthan Vívekananthan

Issued by: Muhunthan Vivekananthan

PRODUCTS

CLASS 3851 01 - LIQUID PUMPS

CLASS 3851 81 - LIQUID PUMPS - Certified to US Standards

SL Series Submersible Sewage pumps Cord-connected, Class H or Class F, Fully submerged continuous duty or partially submerged intermittent duty (4 Minutes ON Max; 6 Minutes OFF min.).

Generation A and B;

Rated 208-600V, 3 Phase, 60 Hz, 3.4 - 40.5 Amps 2 poles, 2.1 - 27.9 Amps 4 poles.

Generation C (high efficiency);

Rated 208-600V, 3 Phase, 60 Hz, 3- 39.2 Amps 2 poles, 1.8 – 26.7 Amps 4 poles.

DQD 507 Rev. 2012-05-22 Page: 1



Certificate: 2285468 Master Contract: 167082

Project: 70024983 **Date Issued:** April 1, 2015

The complete model designation consists of 12 alphanumeric suffixes as follows.

Position 1: Pump series.-SL

Position 2: Impeller type- (V= vortex, 1= single channel)

Position 3: Pump passage 50 - 100 mm / 2" - 4" = 20 - 40

Position 4: Pump discharge flange DN65 – DN150 / ANSI $2\frac{1}{2}$ " – 6" = A25 – A60

Position 5: Rated Power output kWx10, 1.1 - 11kW / HP x10, 1.5 - 15 HP

Position 6: Empty space indicates standard version, "A" indicates sensor version.

Position 7: Empty space indicates standard version.

Position 8: Number of poles, 2 poles or 4 poles

Position 9: 6 = 60 Hz.

Position 10: First position 0 = DOL (Delta) or 1= YD (Star) Second position identifies the voltage.

Position 11: Empty space = 0 generation,

A = 1st generation,

B = 2nd generation

C = 3rd generation (high efficiency)

Position 12: Empty space = standard materials, Q = impeller in stainless steel

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 108-14- Liquid Pumps.

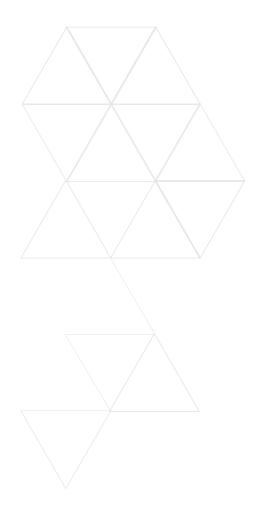
UL Std.778-5th Edition- Motor operated water pumps.

DQD 507 Rev. 2012-05-22 Page: 2

OPERATION & MAINTENANCE SERVICES

- Supervision and maintenance contracts (water networks,
- sewage networks and rainwater drainage systems)
- Technical consultations
- Maintenance of all types of pumps
- Maintenance of desalination plants and power plants
- Maintenance of all types of generators and engines
- running out of water and sanitation systems and home links





ISO Certifications





CERTIFICATION OF REGISTRATION

This is to certify that

Occupational Health & Safety Management Systems

AL MOUSA TRADING COMPANY

Eastern Ring Road, Exit: 12, Riyadh, Saudi Arabia.

Has been assessed and found to meet the requirements of:

ISO 45001:2018

The certificate is valid for the following scope of operation:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

Certificate No. O-01899

1st Surv. Due on: 11/08/2022 2nd Surv. Due Before: 11/08/2023

*After successful completion of surveillance audit, new certificate shall be issued

In the course of validity of the present certificate client management system must permanently satisfy the requirements of the International Regulations. The fulfillment of these regulations will be regularly controlled by The Certification International.







The Certification International

To check certification status: http://uafaccreditation.org/list-organisation-certified-uaf-accredited-certification-bodies





CERTIFICATION OF REGISTRATION

This is to certify that

Quality Management Systems

AL MOUSA TRADING COMPANY

Eastern Ring Road, Exit: 12, Riyadh, Saudi Arabia.

Has been assessed and found to meet the requirements of:

ISO 9001:2015

The certificate is valid for the following scope of operation:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

Certificate No. Q-02061

1st Surv. Due on: 15/03/2023 2nd Surv. Due Before: 15/03/2024

*After successful completion of surveillance audit, new certificate shall be issued

In the course of validity of the present certificate client management system must permanently satisfy the requirements of the International Regulations. The fulfillment of these regulations will be regularly controlled by The Certification International.









Director

The Certification International

Website: www.thecertification.org Email:info@thecertification.org
Accreditation by United Accreditation Foundation
3510, Colmar, Norfolk 23509, VA, United States of America (USA)

To check certification status: http://uafaccreditation.org/list-organisation-certified-uaf-accredited-certification-bodies





CERTIFICATION OF REGISTRATION

This is to certify that

Environmental Management Systems

AL MOUSA TRADING COMPANY

Eastern Ring Road, Exit: 12, Riyadh, Saudi Arabia.

Has been assessed and found to meet the requirements of:

ISO 14001:2015

The certificate is valid for the following scope of operation:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

Certificate No. E-02062

Valid Till: 14/03/2025 Issue Date: 15/03/2022 Original Issue Date: 15/03/2022

2nd Surv. Due Before: 15/03/2024 1st Surv. Due on: 15/03/2023

*After successful completion of surveillance audit, new certificate shall be issued

In the course of validity of the present certificate client management system must permanently satisfy the requirements of the International Regulations. The fulfillment of these regulations will be regularly controlled by The Certification International.









The Certification International

Website: www.thecertification.org Email:info@thecertification.org Accreditation by United Accreditation Foundation 3510, Colmar, Norfolk 23509, VA, United States of America (USA)

To check certification status: http://uafaccreditation.org/list-organisation-certified-uaf-accredited-certification-bodies





CERTIFICATE OF REGISTRATION

This is to certify that

AL MOUSA TRADING COMPANY

Eastern Ring Road, Exit: 12, Riyadh, Saudi Arabia.

has implemented a

Occupational Health & Safety Management Systems

which has been assessed for conformance with

ISO 45001:2018

and has been found to be in compliance.

Scope of Registration:

Puraping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

Certificate No:

Issued:

valid through 2nd Surveillance:

Certified since:

O-01899 07/09/2022 11/08/2023 11/08/2021



This certificate is the property of The Certification International and remains valid until Aug. 2024,10, subject to timely and successful completion of surveillance audits as indicated above. To verify certification status: https://tciglobe.com/data/







The Certification International

www.tciglobe.com . info@tciglobe.com 18436 Hawthorne Boulevard, Suite 108 Los Angeles, California I USA





Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



— رعصر المسابية مطابق تماما لما ورد في شهادة مطابقة المنتجات الموجودة في طلب الرسالية مطابق تماما لما ورد في شهادة مطابقة المنتجات الموجودة في طلب عدم محة ذلك اتدمل جميع التبقات النظامية المترتبة على ذلك المعاددة للمعاددة للمواحفات والمقاييس والجودة او من يمثلها لاحقا. وفي حال تبين عدم محة ذلك اتدمل جميع التبقات النظامية المترتبة على ذلك

Onetificants Number	Antiferent Mumber HIL23_0824304	4	000001	3	24 100 100 100
celuicate numbe		issue Date	12/04/2023	Expiration Date	11/06/2023
Certificate Type	Certificate Type Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010262808		
الرياض Establishment Address	-الرياض	Shipment country	Hungary		
Product Certificate No.	Product Certificate No. 00402-039-22-189427				

	Produc	Product and Manufacturer Data	r Data
Model Name	Grundfos Split Case	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Split Case "LS ,LSV,KP,KPV series		
Product Description	SASD	S S S	S a b e r هذه الشهادة مسطه مين ملحة سابر
Country of origin	Hungary		
Production Date			
HS Code	841391000000		
Technical Regulation	Technical Regulation GCC Technical Regulation for Low Voltage Electrical Equipment and Appliances	ppliances	
Manufacturer name	GRUNDFOS Manufacturing Ltd.		
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO

CB Organization Office Responsible manager signature

CB Organization Office Stamp



Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



— رعصر المسابية مطابق تماما لما ورد في شهادة مطابقة المنتجات الموجودة في طلب الرسالية مطابق تماما لما ورد في شهادة مطابقة المنتجات الموجودة في طلب عدم محة ذلك اتدمل جميع التبقات النظامية المترتبة على ذلك المعاددة للمعاددة للمواحفات والمقاييس والجودة او من يمثلها لاحقا. وفي حال تبين عدم محة ذلك اتدمل جميع التبقات النظامية المترتبة على ذلك

Cortificate Number	Cartificate Number AE-23-0735739	Control Date	05/00/2023	The State of the S	06/04/2022
Scillogic monitor		issue udte	03/02/2023	Expiration Date	00/04/2023
Certificate Type	Certificate Type Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010262808		
الرياض Establishment Address	-الرياض	Shipment country	United Arab Emirates		
Product Certificate No.	Product Certificate No. 00402-039-22-186094				

	Product a	Product and Manufacturer Data	r Data
Model Name	Grundfos Pump Panel	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Pump Panel - " DC, MPC " - DE.		
Product Description	SASO	S a	S a b e r مخاطنیهادهٔ مسجله میں ملحة سابر
Country of origin	Germany		
Production Date			
HS Code	841391000000		
Technical Regulation	Technical Regulation GCC Technical Regulation for Low Voltage Electrical Equipment and Appliances	pliances	
Manufacturer name	GRUNDFOS PUMPENFABRIK GMBH	-	
Exporter name	Grundfos Operations A/S	Exporter Address	GRUNDFOS GULF DISTRIBUTION FZE JEBEL ALI FREE ZONE DUBAI

CB Organization Office Responsible manager signature



شهادة مطابقة إرسالية للمنتجات المستوردة Shipment Conformity certificate for imported products



Certificate Number	Certificate Number DK-23-0713848	ssue Date	19/01/2023	Expiration Date	20/03/2023
Certificate Type	Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010262808		
الرياض Establishment Address	-الرياض	Shipment country	Denmark		
Product Certificate No. IEC-22-790523	IEC-22-790523				

	Product an	Product and Manufacturer Data	Data
Model Name	Grundfos Centrifugal Pump	Trade Mark	Grundfos
Product Name	CR3		
Product Description	SASO	D N N N N N N N N N N N N N N N N N N N	S a b e r
Country of origin	Denmark		
Production Date			
HS Code	841381200000		
Technical Regulation	GCC Technical Regulation for Low Voltage Electrical Equipment and Appliances	liances	
Manufacturer name	Grundfos		
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address. Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO

Establishment Stamp

19/01/2023 10:58



شهادة مطابقة إرسالية للمنتجات المستوردة Shipment Conformity certificate for imported products



Certificate Number	Certificate Number DK-23-0730424	ssue Date	01/02/2023	Expiration Date	02/04/2023
Certificate Type	Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010262808		
الرياض Establishment Address	-الرياض	Shipment country	Denmark		
Product Certificate No.	Product Certificate No. IEC-22-797922				

	Product an	Product and Manufacturer Data	Data
Model Name	Grundfos Circulators	Trade Mark	Grundfos
Product Name	Magna 3 and Magna 3D		
Product Description	SASO	S Conjugate and the conjugate of the con	S A b e r
Country of origin	Germany		
Production Date			
HS Code	841381200000		
Technical Regulation	Technical Regulation GCC Technical Regulation for Low Voltage Electrical Equipment and Appliances	liances	
Manufacturer name	Grundfos		
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address: Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO

Establishment Stamp

01/02/2023 10:58



شهادة مطابقة إرسالية للمنتجات المستوردة Shipment Conformity certificate for imported products



Certificate Number	Certificate Number DK-22-0525364	ssue Date	11/09/2022 Exp	xpiration Date
Certificate Type	Certificate Type Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010262808	
الرياض Establishment Address	-الرياض	Shipment country	Denmark	
Product Certificate No.	Product Certificate No. IEC-22-279346			

	Product ar	Product and Manufacturer Data	Data
Model Name	UNILIFT AP - 12 Models	Trade Mark	Grundfos
Product Name	Submersible Pump		
Product Description	Saso	B S and and utility	S a b e r
Country of origin	Hungary		
Production Date			
HS Code	841381200000		
Technical Regulation	GCC Technical Regulation for Low Voltage Electrical Equipment	and Appliances	
Manufacturer name	GRUNDFOS		
Exporter name	Grundfos Operations A/S	Exporter Address	Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO



11/09/2022 08:14



Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



شر كة قرونتغرس السعودية العربية المحدودة للمواصفات القياسية السعودية ذات العلاقة ، ونتعود بتوفير أب ملفات فنية للمنتجات تطلبها الهيئة السعودية للمواصفات والمقاييس والجودة او من يمثلها لاحقا ، وفي حال تبين عدم محة ذلك اتحمل جميع التبعات النظامية المترتبة على ذلك

26/07/2020	1010262808	Denmark
Issue Date	Commercial Registration No	Shipment country
tificate Number DK-20-0187699	Shipment Conformity Certificate for Imported Products	-الرياض
Certificate Number	Certificate Type	Establishment Address

	Product an	Product and Manufacturer Data	r Data
Model type	Grundfos Centrifugal Pump	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Centrifugal Pump-CR10-XX		
Product Description			
	SASO		
Country of origin	Hungary		ת מיייות ביייים בייים ביייים בייים ביייים בייים ביים בייים בייי
Production Date			
HSCode	841392000000		
Manufacturer name	GRUNDFOS Manufacturing Ltd.		
Manufacturer Address			
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO



برات بروسيونية المربية المدينة المعتمدة من الهيئة كما أنه ليس بمنتج دوائي أو غذائي أو زراعي ولا يقع فارج نطاق المنتجات المشمولة باللوائج المنية والمواصفات القياسية ذات العلاقة المعتمدة من الهيئة.

26/07/2020 04:40



Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



شركة قرونغوبي السعوبية العربية المحودة . للمواطفات القياسية السعودية ذات العلاقة ، ونتعود بتوفير أي ملغات فنية للمنتجات تطلبها الهيئة السعودية للمواصفات والمقاييس والجودة او من يمثلها لاحقا ، وفي حال تبين عدم صحة ذلك اتحمل جميع التبعات النظامية المترتبة على ذلك

DK-20-0187699Shipment Conformity Certificate for Imported Products26/07/2020Shipment countryOne mark	0	808	
DK-20-0187699 Shipment Conformity Certificate for Imported Product الرياض		on no	
nber pe idress	DK-20-0187699	Shipment Conformity Certificate for Imported Products	

	Product ar	Product and Manufacturer Data	r Data
Model type	Grundfos Centrifugal Pump	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Centrifugal Pump-CR15-XX		
Product Description	SASO		
Country of origin	Hungary		
Production Date			
HS Code	841392000000		
Manufacturer name	GRUNDFOS Manufacturing Ltd.		
Manufacturer Address			
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO



كبأن المنتج ليس خاضع لأبي من اللوائج المنية المعتمدة من الهيئة كما أنه ليس بمنتج دوائي أو غذائي أو زراعي ولا يقع خارج نظاق المنتجات المشمولة باللوائج المنية والمواصفات القياسية ذات العلاقة المعتمدة من الهيئة.

26/07/2020 04:40



Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



شركة قرونغوبي السعوبية العربية المحودة . للمواطفات القياسية السعودية ذات العلاقة ، ونتعود بتوفير أي ملغات فنية للمنتجات تطلبها الهيئة السعودية للمواصفات والمقاييس والجودة او من يمثلها لاحقا ، وفي حال تبين عدم صحة ذلك اتحمل جميع التبعات النظامية المترتبة على ذلك

020	2808	¥
Issue Date 26/07/2020	Commercial Registration No 101026280	Shipment country Denmark
DK-20-0187699	Shipment Conformity Certificate for Imported Products	-الرياض
Certificate Number	Certificate Type	Establishment Address

	Product ar	Product and Manufacturer Data	Data
Model type	Grundfos Centrifugal Pump	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Centrifugal Pump-CR5XX		
Product Description	SASO		
Country of origin	Hungary	מ	
Production Date		The second second	A VALGABLE CONTINUED TO THE
HS Code	841392000000		
Manufacturer name	GRUNDFOS Manufacturing Ltd.		
Manufacturer Address			
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO



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26/07/2020 04:40



قهادة مطابقة إرسالية للمنتجات المستوردة Shipment Conformity certificate for imported products



النظامية المترتبة على ذلك

شركة قرونغوبي السعوبية العربية المحودة . للمواطفات القياسية السعودية ذات العلاقة ، ونتعود بتوفير أي ملغات فنية للمنتجات تطلبها الهيئة السعودية للمواصفات والمقاييس والجودة او من يمثلها لاحقا ، وفي حال تبين عدم صحة ذلك اتحمل جميع التبعات

26/07/2020	1010262808	Denmark
Issue Date	Commercial Registration No	Shipment country
DK-20-0187699	Shipment Conformity Certificate for Imported Products	-الرياض ا
Certificate Number	Certificate Type	Establishment Address

fade Mark Grundfos Saudi Arabia Co LTD.	Trade Mark SASO SASO SASO	Grundfos Centrifugal Pump Grundfos Centrifugal Pump-CRN20-XX Hungary 841392000000 GRUNDFOS Manufacturing Ltd.	Product Name Product Description Country of origin Production Date HS Code Manufacturer name Manufacturer Address
			facturer Address
		GRUNDFOS Manufacturing Ltd.	nufacturer name
		841392000000	HS Code
			roduction Date
	2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Hungary	ountry of origin
	saso		duct Description
		Grundfos Centrifugal Pump-CRN20-XX	Product Name
Grundfos Saudi Arabia Co LTD.	Trade Mark	Grundfos Centrifugal Pump	0.000.000.000.000.000
			Model type



عرب جروبيوس فاضع لأبي من اللوائج المنية الممتمدة من الهيئة كما أنه ليس بمنتج دوائي أو غذائي أو زراعي ولا يقع خارج نطاق المنتجات المشمولة باللوائج المنية والمواصفات القياسية ذات العلاقة المعتمدة من الهيئة.

For Grundfos Saudi Arabia,

For Grundfos Saudi Arabia,

Abdulaziz Daghestani
General manager

26/07/2020 04:40

Shipment Conformity certificate for imported products شهادة مطابقة إرسالية للمنتجات المستوردة



شركة قرونغوبي السعوبية العربية المحودة . للمواطفات القياسية السعودية ذات العلاقة ، ونتعود بتوفير أي ملغات فنية للمنتجات تطلبها الهيئة السعودية للمواصفات والمقاييس والجودة او من يمثلها لاحقا ، وفي حال تبين عدم صحة ذلك اتحمل جميع التبعات النظامية المترتبة على ذلك

26/07/2020	1010262808	Denmark
Issue Date	Commercial Registration No	Shipment country
DK-20-0187699	Shipment Conformity Certificate for Imported Products	-الرياض
Certificate Number	Certificate Type	Establishment Address

	Product ar	Product and Manufacturer Data	- Data
Model type	Grundfos Centrifugal Pump	Trade Mark	Grundfos Saudi Arabia Co LTD.
Product Name	Grundfos Centrifugal Pump-CRN5-XX		
Product Description	SASO		
Country of origin	Hungary		
Production Date		The second second	
HS Code	841392000000		
Manufacturer name	GRUNDFOS Manufacturing Ltd.		
Manufacturer Address			
Exporter name	Grundfos Operations A/S	Exporter Address	Exporter Address Poul Due Jensens Vej 7 DK-8850 BJERRINGBRO



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26/07/2020 04:40





ع

△ Abdullah Seif... ✓ (JavaScript:void(0);)



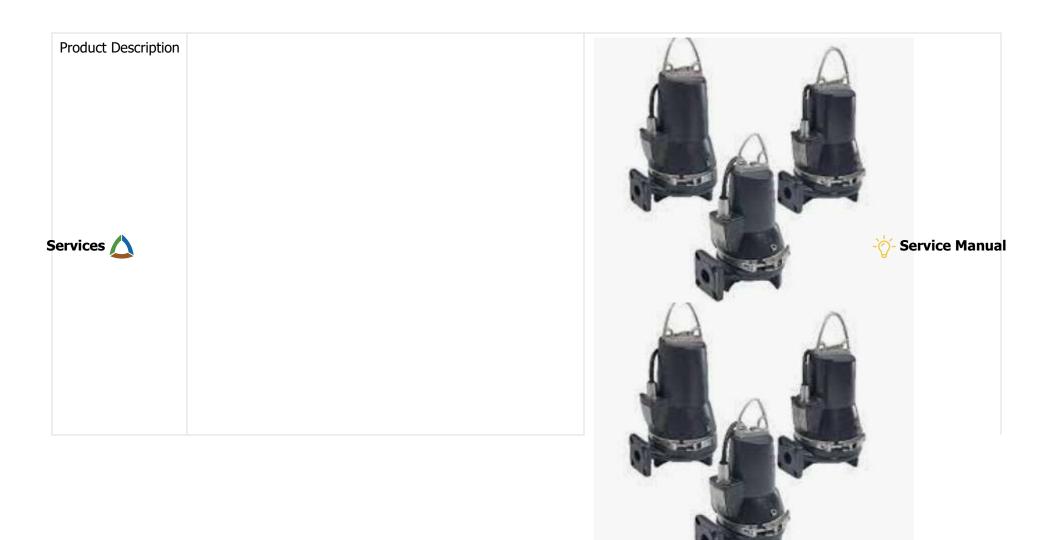
شهادة مطابقة للمنتجات الخاضعة للوائح

Certificate of conformity for regulated products



We (......SGS Gulf Limited (UAE).......) office number (.....03932.....) are bearing full responsability for the product described below is conforms to the conformity assessment procedure Conduct the relevant technical regulations and standards which mentioned during this certificate.

Certificate Number	ber 00402-039-23-1040094 Issue Date 22/06/2023 Expire Date 22/06/2024							
Certificate Type	Certificate of conformity for regulated products Commercial Registration No Commercial Registration No							
Establishment Address	-الرياض							
	Product and Manufacturer Data							
Model Name	Name Grundfos Sewage Pump Trade Mark Grundfos							
Product Name Grundfos Sewage Pump- SL , SLV , SEG.								





Country of origin **Services**



HS Code	841391000000					
Technical Regulation	GCC Technical Regulation for Low Voltage Electrical Equipment and Appliances					
Manufacturer name	Grundfos					
	Product test data					
Report number	SAPC/2023/09487-40161964					
Report Date	22/06/2023					
Decision of confomity assessment	y Product Approved					

CB Organization Office Responsabile Manager signature Services

06/08/2023 12:36

CB Organization Office Stamp



Models Numbers Details Details ~

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شهادة مطابقة للمنتجات الخاضعة للوائح

Certificate of conformity for regulated products

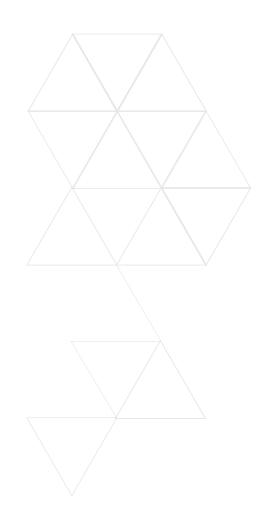


We, the Saudi Standards, Metrology and Quality Organization, certify that the product described below is in accordance with the relevant technical regulations

Certificate Number	IEC-22-710914	Issue Date	13/10/2022	Expire Date	06/10/2023
Certificate Type	IEC Certificate	IEC Certificate license	20220399013		
Commercial Registration No	1010262808 / 7001580237	Commercial Registration	No. of IEC Certificate holder	1010262808	
stablishment Address	-الرياض				
		Product and Manufacturer Data			
Model Name	Grundfos Centrifugal Pump	Trade Mark	Grundfos		
Product Name	TP 65		U .		
Product Description		دة مسجله في منمة ساير			
Product Description Country of origin	Hungary	3 d D			
	Hungary 841381200000	3 d D			
Country of origin		دة مسجله قمي منصة ساير	هذه الشهاد		











OUR LATEST PROJECTS

- King Abdullah International Gardens (KAIG) Chilled water Pumps.
- STC smart square project.
- King Salman Park Project (KSP) .06801- Site Wide Infrastructure Package (Phase 1)
- · Agricultural Development Fund B05.
- · King Faisal Specialist Hospital and Research Centre
- · Six flags theme park Qiddiya riyadh Chilled water pumps
- NEOM Sindalah Island Cluster (1,2,3,4,5,6) Heat Pumps.
- · Desert Rock (calorifier).

Desert Rock-Red Sea



Six Flags - Qiddiya



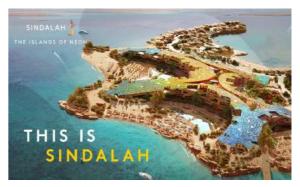
KAIG Project

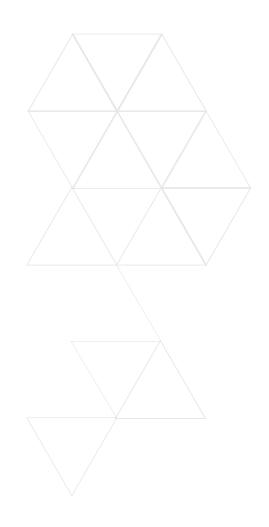


KSP Project



Sindalah Isalnd









OUR CLIENTS











































































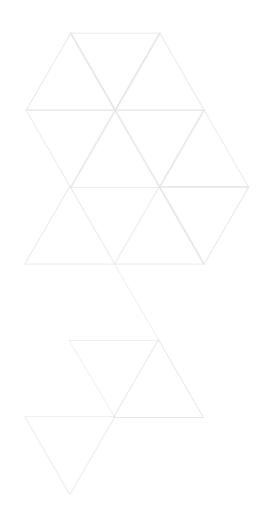


















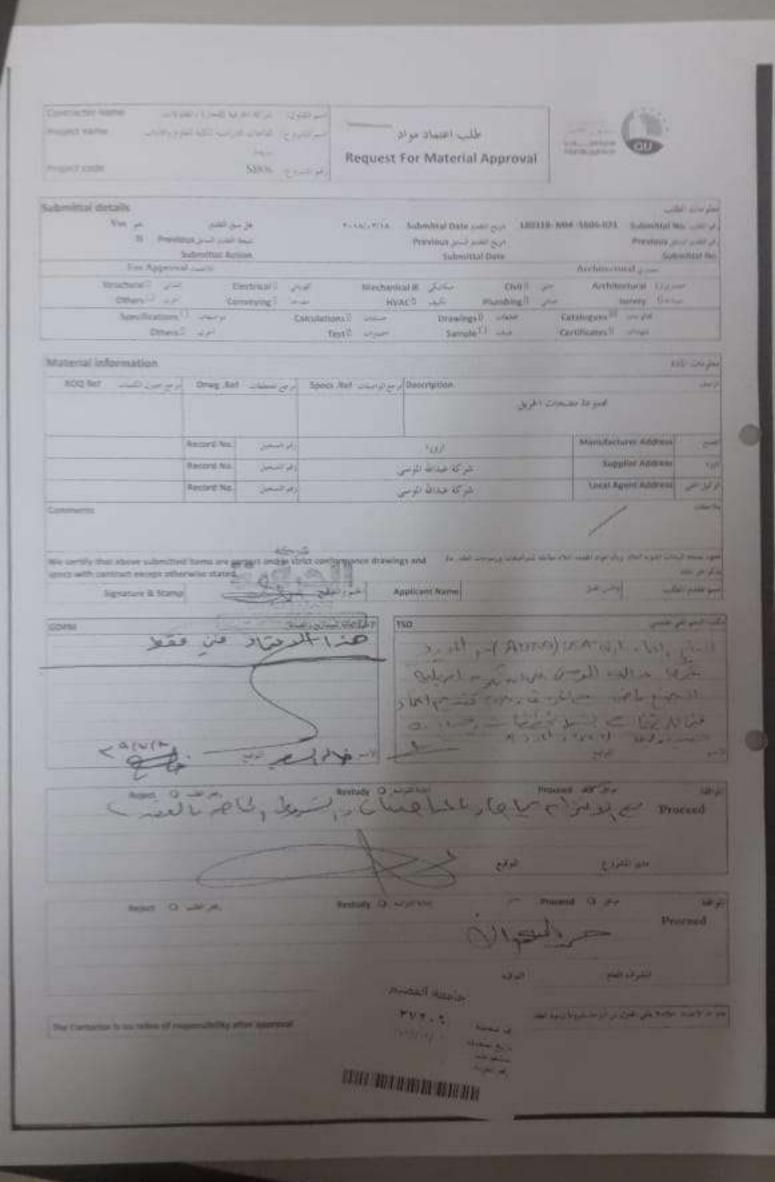






00	CUME	ENT	TRANSM	ITTAL FORM	(DT	F)	
Contract No: th-Con./16/1002				Work Packag	e: D	ocumentation	
7TO: Khatib & Alami Consultant FROM: Saud Al-Saadi Company ATTN: Eng. Ahmed Aboul Azm	,		DATE :20/	O: TH02-PH02-S 01/2019 0	SAP-I	MT-M0-01159	
WE ARE SENDING:	SUI	SUBMITTED FOR:			ACTION TAKEN:		
Documents Drawings/Sketch	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Rev	oroval view & Comm	nents		A -Approved B -Approved as noted Incorporate Comment	s
☐ Pre-Qualification ☐ Change Order ☐ SCHEDULE		Info	Requested ormation / Re Necessary A			C- Approved with Con Revise & Re-submit D- Rejected	iments,
☐ Method statement ☐ BOQ/Specification ☐ SHD	SEN	Oth IT VI				N- Noted R- Reviewed as Comp S- Reviewed as Noted Incorporate comments	,
√ Material Submittal		Sep	oarate Cover			T- Reviewed with com Revise & Re-submit	
Item Submittal or Document		Rev.	Date			of Submittal or nent Title	Copies
1 TH02-PH02-SAP-MT-011	59	00	20/01/2019		N.A	PUMP FROM LMOUSA FOR	3
Response:			100	*Approve	al Sta	atus*: B)
Item Submittal or Document Ref. No.	ev D	Date	D	escription of Subm	ittal or	r Document Title	Status
About Province	38			Johnsond Elsharif		Singer	
Ahmed Bassiouny Mech.Eng				Ac.Eng.		Singed	•
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CONSULTANT	CLIENT	CONTRACTOR	
خطیب و علمی Khatib & Alami	SOFT AND THE SECOND SEC	U JONETH	
ROJECT TITLE: Hilton Inn LIENT: Gulf Arrov	vs Holding Co. Ltd.		P-585 Al Rawdah, Jeddah
NSULTANT: Khatib & A NTRACTOR: United Co	Alami astructors Contracting Company	FACILITY CODE:	
	APPLICATION F		
CUMENT REFERENCE: MT- VISION: 1	UCCL-MECH-042.REV01 TRADE:	MECHANICAL DATE: 2: SHEET NO.	8-Jun-2018
	CONTRACTOR'S/SUBCONT		
APPLICATION FOR	DESIGN QA/QC	STATEMENT (M.S) SAMPLE	RESUBMITTAL
	DRAWING → MATER PREQUALIFICATION DOC. EQUIPM	IALS TEST REPORT	
TITLE & DESCRIPTION	ABDULLAH N. A	L-MOUSA FOR TRADING EST.	
	for pumps (Elevate Technical Data	ore ,submersible, Booster, Chilled Wa	ter, Transfer)
LOCATION SOURCE DETAIL			
ORIGINATED			
SUPPLIED BY INSTALLED BY	ABDULLAH N. A UCCL	L-MOUSA FOR	ENCLOSURE
CONTRACTOR'S ATTESTATION:			
CONFIRMS TO SPECIFICATION	ONS CONSIDERED TO BE EQUA	L OR BETTER THAN SPECIFIED REASON FO	OR ATTESTATION
	DATE BY WHICH RESPO	ONSE IS REQUIRED	
GENERAL SPECIFICATIONS SECTION PARTICULAR SPECIFICATION SECTION DRAWING REFERENCE NO. ROOM DATA			
	SUBMITTAL SO	CHEDULE	
MITTED BY (SUBCONTRACTOR) ROVED BY (HEE)	NAME DESIGNA ENG SAEED RAJOUB Project	SIGNATURE	: DATE 28-Jun-2018
	CONSULTANT'S APPRO	VAL/COMMENTS	
APPROVED APPROVED APPROVED AS NOTE:	ACTION NOT APPROVED INFORMATION REQU	RESUBMIT IRED	DATE
COMMENTS - The SI	approval af	technically approved the the hydraulic Co	red.
EE ELECTRICAL ENGINEER SIG	NATURE:	CE CIVIL ENGINEER SIGNATURE: CR CONSULTANT REPRESENTATIVE:	
NA IVED BY HITE	ME DESIGNATION	COMPANY SIGNATURE	DATE
VED - SI	nomersible pump.	s dimensions shall !	oe checked
Wind I.	aroding.	from the client.	نوب 7/J
	1,	from the client.	
/			









temp.

AQUA RAFFLES PROJECT, JEDDAH

CLIENT	ESIGN CONSULTANT	: TAKATUF	HOLDING L.L.C.		DATE :	12-Səp-20	
	CONSULTANT	: MORGANT	KSA CONTRACTING CO.	SUBMITTAL NO. : AC	CC-MGSA-TS-ME-P ACC-MGSA-DOC-ME-		
SUB-CONTRA	CTOR	1		assessed of	SHEET:	78 272	
			TRANSM	IITTAL		-	
WE ARE FORW	ARDED HEREWITH UND	ER SEPARATE C	OVER THE MATE	RIAL LISTED BELOW			
THIS SUBMITT (TICK AS APPR	AL IS INTENDED FOR ROPRIATE)	TYPE:	APPROVAL/COMMENT GUARANTEE METHOD STATEMENT	INFORMATION/RE CERTIFICATES PRE-QUALIFICATI	REF:	OUR REQUEST PORT (Technical Package)	«RC
ITEM NO.	SPEC/ B.O.G OR TEST REPO		GENERAL DESC	RIPTION & REVISION	COPIES	APPROVAL STATU	
1	OK FEG I KEP	15.1	Technical Packa	ge for Chilled Water	Soft Copy + Hard Copy	В	
			Vende 1) Abdullah Nasser EL 2) Tawreed Co. 3) Armstrong 4) KSB Pumps Arabia				
ALTERNATE P	ROPOSAL: YES	□ NO					
THE CONTRACTOR: We Certify that the	item submitted herewith have been n	sviewed in detail and			ecification unless otherwise s	tated.	
ISSUED BY: (IN	IITIATOR)	CHECKED BY	: (CONTRACTOR)	CHECKED BY: (RECEIVED BX: (MG	
NAME: Raed I SIGNATURE:	smail	NAME: Ali Qa	Muammar Isem Altwait	SIGNATURE:		NAME: RECEIVE	000
DATE:	ST.	STAMP: DATE:	- 11/12 N	DATE:	5	DATE: IMORGAN	020
TO: CONTRAC Code (B): Ap	proved as Noted	YOUR S	UBMITTAL HAVE BEEN REV TAILS OF OUR COMMENTS	DATE: VIEWED AND GIVEN THE APPRO REFER TO THE ATTACHED CO	OVAL CATEGORY AS NOTED INSULTANT COMMENTS:	ABOVE: Aqua Raffle Project TICK IF ATTAC	HEEL SO
CO-00091 Re - The pumps - The minimu - The mechai	he pumps water flows as ev.7 dated 18 June 2020 heads shall be verified as m Working Pressure of th nical seal shall be suitable ps selections shall comply	HAP Heat Loa per the appro e proposed pu for continuou	ad Design Verification aved shopdrawings and a aumps shall be 1723 kesses operation at 121 C	on). nd to be submitted for Pa. (Armstrong pumps:	the Engineer informs s shall be 16 bars W.	ation. P.	
anly for review of ge	ents made with in this submittal duri eneral conformance with the design o og fabrication process and techniques	oncept of the project	and compliance with the info	rmation given in the contract doc	uments. The Contractor is res	ponsible for confirming and	
			OUTGOING	RECEIPTS:			
N.ME	CONSULTAN	800000 V 10000 C	-Oct-20		CONTRACTOR -	ACC	
NAME: SIGNATURE:	A ACT	STAMP:	501 20	NAME: SIGNATURE	STAMP:		
APPROVAL ST	ATUS CODE:	A APPRO	VED B APPRI	OVED AS NOTED C	REVISE & RESUBMIT	D REJECTED	
CC:					PM-PM1	-FRM11 REV 02	

David Ballard
RSG- RED SEA DESTINATION

Final (WF-014927) R02I16C03 - [Masah] - Contract Am... 16/05/2023 WORKFLOW TRANSMITTAL TRS02I16-WTRAN-045720





MAIL TYPE
Workflow Transmittal

MAIL NUMBER
TRS02I16-WTRAN-045720

REFERENCE NUMBER TRS02I16-WTRAN-045720

Final (WF-014927) R02I16C03 - [Masah] – Contract Amendment – ATT submissions- Material Submittal for Fire Pumps & Water Pumps Including MCC Panels Wiring Diagram at ATT Building - Al-Mousa Trading Company

From David Ballard - The Red Sea Development Company

To (14) Mr Enrico Purugganan - AECOM (+13 more...)

Cc (10) Mr Biswajit Dutta - Jacobs Engineering Group Inc. (+9 more...)

Sent Tuesday, 16 May 2023 9:41:04 PM AST (GMT +03:00)

Status N/A

DOCUMENT ATTACHMENTS (1)

(0 selected)				
File	Document No	Revision	Title	Status
ہ	R02-I16C03-MCC- MAT-ME-0005	01	Material Submittal for Fire Pumps & Water Pumps Including MCC Panels Wiring Diagram at ATT Building - Al-Mousa Trading Company	Revise and Resubmit

ATTRIBUTES

Attribute 1 Airside

MESSAGE

Workflow Review History

The attached documents have completed the "R02I16C03 - [Masah] – Contract Amendment – ATT submissions- Material Submittal for Fire Pumps & Water Pumps Including MCC Panels Wiring Diagram at ATT Building - Al-Mousa Trading Company" workflow with the following results:

This transmittal was automatically generated.

Doc No Step Participant Review Outcome Comments R02-I16C03-MCC-MAT-Supervision Consultant E Purugganan Accepted DC ME-0005 Supervision Consultant R Shaik Accepted with Comments Material Submittal for Fire Lead

Pumps & Water Pumps Including MCC Panels Wiring Diagram at ATT Building has been reviewed approval is limited to complying with beolow comments refer to the below comments . -The submission to be in the Electrical discipline for electrical review. refer to the below comments. -Rating of breaker & contactor & size of cable / wire is not mentioned. Kindly provide. - Type of breaker support with IFC reference drawings to be provided in next submission. - Panel form type, IP rating for indoor application to be provided -Humidity to be not less than 95% - RAL color of enclose to be provided -Inside connection arrange to be provided - All characterizes of panel & fabrication drawing to be provided. - All breaker rating to be inline with required load as per electrical load schedule. Rating and type of branch breakers to be consistent with layout received from Jacobs. - panel Enclosure to be IP rated as per area of application and location

installation. - Level sensor to be provided at two locations contractor to coordinate with tank

manufacture to locate the sensor location. - Load calculations subject to Jacobs confirmation. -Contractor t0 coordinate with all other disciplines to ensure all panels fit its location properly without impacted by other adjacent equipment and to avoid crowding the area. -Control wiring diagrams are subjected to manufacturer responsibility. - Provide proper and suitable size drilling for cable glands. -All required modules/links for interface purpose shall be applied and configured. - FAT shall be performed in the manufacturer, prior to site delivery. -. SAT shall be applied at site prior to installation process. -Buzzer / sounder to be Audible & visible to the nearest maintenance team - Panel to be connected with BMS server where required to monitor the overflow.

Design Consultant Jacobs H Babu

Revise and Resubmit

1. Automatic Transfer Switch is not provided in Fire Pump Control Panel. Fire pump Controller to comply with project specification section 2113 00 Part 2.26. 2. Please submit compliance to project technical specification (sections related to Fire and Water Pump Control Panel). 3. Booster pumps automatic control panel to comply with project specification section 22 11 33 part 2.06.

RSG Project Director	D Ballara	Trovido una rrodustriir	allcomments
DOO Davie of Di	D Ballard	Revise and Resubmit	Contractor to address
RSG Technical - Civil	M Leask	Review Not Required	
RSG Technical Review - MEP	S Gomez	Revise and Resubmit	The Voltage shall be 3Phase 400V & 1Phase 230V 4. Submitting catalogue does not constitute as submittal, the selected unit shall be highlighted for reference 5. The fire pumps shall be rated to operate at 55C 6. The starter details in the Pump control panel shall be provided
			1. Type test certificate shall be submitted for the Fire Pump panels 2. ATS provisions shall be integral to the Fire Pump panel 3.
			4. Contractor to comply all previous comments on Revision-00 Fire pumps submittal. 5. All Panels / Controllers to fire pumps to be UL listed & civil defense approval. 6. All panels wiring / cabling to comply as per project specifications. 7. All connections to controllers to be done as per manufacturer recommendations. 8. All fire pumps panels interface with fire alarm system to be as per IFC and specification.

DIYAR>

02:05 PM



Saudi Diyar Cons	ultains	THE RESERVE OF THE PARTY OF THE	- 4
Fransmittal	To SDC	(MATERIALS	5)

Date	Project	Code	Project Title	Trans. No.	Department AR CE/SE ME EI
13-May-2018	SDC	TB-1751	NORTH PROJECT (SITE-2)	TR-1411	
	Contr.	TB-3374			
Residen Head Of Others	No. of the last of	r	From	AZMEEL CONTRACTIN	G

Item	Division	Item Description	Manufacturer or Designer	Dwg. No., Catalog No. Brochure No., Others	No. of Copies
1	М	ALLEGALL OLIGINATIAL OF ADDITULAL MACCED AL	OUTOKUMPU		3
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				المعالمة ال	
	ted by			M	Coples of Mat

Ali Seblani 3+1 CD Signature Name Saudi Diyar Use Item # Code Reviewed By Remarks:

Action Code

- 1. No Exceptions Taken
- 2. Make Corrections as Noted
- 3. Amend and Resubmit
- 4. Rejected

- a) Installation shall only proceed when Action Code is 1 or 2
- b) Action Code 3, shall be resubmitted within time limit set in the contract.
- c) Review does not relieved the Contractor from Responsibilty of Compliance with all requirements of contract documents.

See Remarks

Reviewed by:

Title 6. M-

Signature

Signed off by:

Name MoSTAFA SABAA

Signature

How		410	ه بمحافظه الد	يه الاجتماعي	اء مركز التنم	مشروع انش	
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(1777.1; usi 1171717				ے	عتماد مور)	رقع التقديم
REQUEST FOR SUPPLI	Date: 1171 /.0/11	التاريخ:		Submittal No:			رقم الصفحة :
Proposed Spec For Item	لمقترحه للبند:	المواصفات ال	الموقع العام (۸-۱۶			لمواصفات :	
Proposed Space of the			الموقع العام (١٤)	رقم البند:			مكان الإستخ
الموقع العام والمبنى الرنيسي	يد وتركيب مضخات لزوم	توري	بالموقع العلم (١٩-١٧)				
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ايطالي هاتف: الرياس ١١٢٢٧٧٠١.	KSB	1	عة مضخات ٥ متر مع	داللقة وضيغط	ره ۲۵ جالون/ د	ند رقم (۱۴-۸) تورید و مکونة من مضختین بقد اسط انتران د	مياه الشرب
ات:بروفايل فاكس: الرياس ١١٤٧٣٤٧٨١.	المرفق			، ما يلزم	نة ۲۰۰ لمتر وكل	اسطوانة ضغط سع	
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هولندى هاتف: الرياس ٢١١٧٢٤٨٨٢٨٨٠٠٠٠.	شركة عبد الله هاشم المحدودة	*	۲ متر	نقيقة وضغط .	رة ٦٠ جالون/ د	مكونة من مضختين بقد	ALLES .
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Kingdom of Saudi Arabia

Civil Defence Directorate, Hajj Command and Holy Capital Administration Project







Ministry of Interior Submittal No. **Project Name:** Civil Defense, Hajj Command & Holy Capital Adminstration Rev. CDHC-MAT - 125 - BXXX - ME -0502 Project No.: 0 16/Nov/17 To: **Project Manager - Proger Head Office** Date: **Material Submittal** Discipline: Civil Arch Struc Mech Elec **Submitted For:** Information Review Site Use Approval Attachments: Sample Catalogue / Manuals Compliance Cert. Manufacturer Data & Spec. Drawings **Procedures** Spare Parts List Calculation Sheet Others/Specify (Prequalification) **Item Description** Number 2 of **Submittals** Pump System 3 **Document; Material Description** Reference Specs / BOQ# **Pump System** 15453 1 **Supplier Data** Name: Abdullah Nasser Al-mousa Trading Est. Ar-Riydh, K.S.A Address: **Manufacturer Data PENTAIR AURORA / GRUNDFUS** Name: USA Address: Samples Samples Description Remarks: To be used for: the whole project location as per approved design drawing and relevant specification. **BDC Project Manager** 1. Abdullah Nasser Al-mousa trading Est. is approved as supplier. 2. Pentair-Aurora from USA is approved as brand for fire pumps. Grundfus from USA is approved for all domestic pumps and chilled water pumps. 4. Pump model approval submit separately for each system with complete pump catalogue, Project specifications, compliance sheet with technical specifications and previous references of pump. 5. For pump selection approval in addition to above data: attach approve calculations, related drawings, computer selection with detailed information of pump & motor and bill of quantities of all the items included in submittal with their country of origin. other trades, and performing his work in a safe and sa specifications. This check is only for general review REVISE AND RESUBMITENGR.osman Action: APPROVED AS SUBMITTED B APPROVED AS NOTED Α REJECTED ם For Engineer's rep. Acting Tech Manager: Review By: 19-Dec-2017 19-Dec-2017 Eng. Imran Hussain Eng. A. Desiderio

Date: Name / Title Signature Date Cl "Civil"; ST "Structure"; AR "Architecture"; ME "Mechanical"; EL "Electrical"; DOC "Document"; MAT "Materials; SUB "Sub-contractor; SUP"Supplier", MAN "Manufacturer

Signature:

Kingdom of Saudi Arabia

B-IN-00366

Civil Defence Directorate, Hajj Command and Holy Capital Administration Project

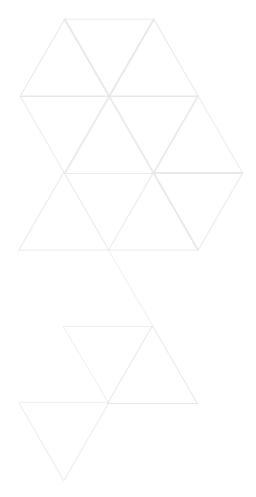






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Date:	Date: 11/Oct/2017 Transmittal No. CDHC - REP - 125 - BXXX - ME - 0002										- 0002			
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Discipline: CI - Civil; ST - Structure; AR - Architecture; ME - Mechanical; EL - Electrical; OT- Other



Project Reference





No	Project Name	Contractor	Consultant	Project Reference Owner / Client	Brand	Application	Private / Government
1	king Abdullah Project - KAP01	Bin Dayel	Khatib & Alami	Ministry Of Interior	SPP	Fire Pmps	Government
2	king Abdullah Project - KAP01	Abdul Aziz Al Hajjaj Contracting Est	Khatib & Alami	Ministry Of Interior	SPP	Fire Pmps	Government
3	king Abdullah Project - KAP01 king Abdullah Project - KAP01	Haif Company sahra star	Khatib & Alami Khatib & Alami	Ministry Of Interior Ministry Of Interior	SPP SPP	Fire Pmps Fire Pmps	Government Government
5	king Abdullah Project - KAP01	Shamayel Gulf Contracting Company	Khatib & Alami	Ministry Of Interior	SPP	Fire Pmps	Government
6	king Abdullah Project - KAP01	Saudi Biga Company	Khatib & Alami	Ministry Of Interior	SPP	Fire Pmps	Government
7	Deanships Building at Al-Qassim University Classrooms of the Faculty of	Al Mansorya Company	Al-Qassim University	Al-Qassim University	Pentair	Chilled water Pump	Government
8	Science and Arts for students in Riad El Khabra at Al-Qassim University	Al-FAHD Contracting Company	Al-Qassim University	Al-Qassim University	SPP	Fire Pmps	Government
9	Classrooms of the Faculty of Science and Arts for students in Bada'l at Al-Qassim University	Al-FAHD Contracting Company	Al-Qassim University	Al-Qassim University	SPP	Fire Pmps	Government
10	College of Business Administration for Girls in Rass at Al-Qassim University	Aja Contracting Company	Al-Qassim University	Al-Qassim University	Pentair	Chilled water Pump	Government
11	College of Arts and Sciences Boys in Rass at Al-Qassim University	Matn Company	Al-Qassim University	Al-Qassim University	Pentair	Chilled water Pump	Government
12	Classroom building at Al-Qassim University	Al - Khudair Trading & Contracting Co	Al-Qassim University	Al-Qassim University	Pentair	Fire Pmps	Government
13	Development and rehabilitation of facilities and sites at Al-Qassim University	Msaken AL JAZEERAH CONTRACTING EST	Al-Qassim University	Al-Qassim University	SPP	Fire Pmps	Government
14	The establishment of the Faculty of Education in Hota Bani Tamim at the University of Prince Sattam bin Abdul Aziz	Afras Trading & Contracting Co	Al Shabanat Engineering Consultants	Prince Sattam bin Abdul Aziz University	Grundfos	Chilled water Pump	Government
15	King Faisal Specialist Hospital and Research Centre	Saudi Aircon Contracting Company	King Faisal Specialist Hospita	King Faisal Specialist Hospita	Pentair	Chilled water Pump	Government
16	King Faisal Specialist Hospital and Research Centre	Saudi Aircon Contracting Company	King Faisal Specialist Hospita	King Faisal Specialist Hospita	SPP	Fire Pmps	Government
17	Completion of Technical College in Al-Namas area	Technical and Vocational Training Corporation	Qemat Al Burj Engineering Consulting Office	Technical and Vocational Training Corporation	SPP	Fire Pmps	Government
18	Umm Al Qura University	Saudi Aircon Contracting Company	Samir Aboghalia Consulting Office	Umm Al Qura University	Pentair	Chilled water Pump	Government
19	Umm Al Qura University	Saudi Aircon Contracting Company	Samir Aboghalia Consulting Office	Umm Al Qura University	Grundfos	Chilled water Pump	Government
20	Tibah University / Social College	Al Dhahry Group	Saudi connsulting Serves	Tibah University	Grundfos	Chilled water Pump	Government
21	Higher Technical Institute for Girls in Dammam	Technical and Vocational Training Corporation	Al Tawfeeq Engineering Consulting Office	Technical and Vocational Training Corporation	Pentair	Fire Pmps	Government
22	Sharma Compllex Sharma Compllex	Elseif Contracting Company Elseif Contracting Company	Saudi Diyar ConsItants Saudi Diyar ConsItants	Royal Court Royal Court	Grundfos Grundfos	Chilled water Pump Hot Water Circulation	Government Government
23			NKY Architects &				
24	king Abdullah Project - KAP02	Elseif Contracting Company	Engineers	Ministry Of Interior	Grundfos	Booster Pump	Government
25	South Border Housing at Jazan Headquarters For Security at	Elseif Contracting Company	Archen Consulting	Ministry Of Interior	Grundfos	Booster Pump	Government
26	Riyadh	Elseif Contracting Company	Archen Consulting	Ministry Of Interior	Pentair	Fire Pmps	Government
27	Sabb Bank Head Office	Elseif Contracting Company	Arcadis Design &Consultancy NKY Architects &	Sabb Bank	Grundfos	Chilled water Pump	Private
28	king Abdullah Project - KAP02	Al Arrab Contraction Co.	Engineers	Ministry Of Interior	Grundfos	Booster Pump	Government
29	king Abdullah Project - KAP02	ABV Rock Group	NKY Architects & Engineers	Ministry Of Interior	Grundfos	Booster Pump	Government
30	king Abdullah Project - KAP02	ABV Rock Group	NKY Architects & Engineers	Ministry Of Interior	Grundfos	Hot Water Circulation	Government
31	Private Residential Palace - MN1	Diyar Najd Company for Special Projects	Dar Alriyadh Consulting	Private Residential Palace	Grundfos	Booster Pump	Private
32	Clemenceau Medical Center ar Riyadh - CMC	Alsaad Genral Contraction Copmany Arabian Trading and Contracting	Khatib & Alami	Rana Medical Services Company Saudi Industrial	Pentair	Fire Pmps	Private
33	MODON at Dammam	Company	Dar Alriyadh Consulting	Property Authority	Pentair	Fire Pmps	Government
34	King Salman Center Family Housing at Taif King Salman Center Family	Wadi Maramer Group	Ministry Of Defence	Ministry Of Defence	Grundfos	Booster Pump	Government
35	Housing at Taif	Wadi Maramer Group	Ministry Of Defence	Ministry Of Defence	SPP	Fire Pmps	Government
36	IKEA Store at Thumamah-Riyadh	Youssef Marron Contracting Company	Nabil Abbs	IKEA	Ariston	Water Heater	Private
37	IKEA Store at Thumamah-Riyadh	Youssef Marron Contracting Company	Nabil Abbs	IKEA	GF GF	PPR	Private
38 39	Dallah Hospital Expantion Dallah Hospital Expantion	Youssef Marron Contracting Company Youssef Marron Contracting Company	Saudi connsult Saudi connsult	Dallah Hospital Dallah Hospital	GF GF	PPR PP Sound	Private Private
-55	Innovative Food Shawarma	Youssef Marron Contracting Company	Khatib & Alami	Innovative Food Co.	GF	PPR	Private
40	Factory	Sterling and Wilson Contracting					
41	Aqua Raffels Hotel	Company	Morganti Arcadis Design	Takatuf Holding L.L.C	GF GE	PPR	Private
42	Sabb Bank Head Office International Islamic Relief	Saudi Technical Limited	&Consultancy	Sabb Bank International Islamic	GF Constitution	PPR	Private
43	Organization International Islamic Relief	Al-Humaidan Est	Zuhair Fayez	Relief Organization International Islamic	Grundfos SPP	Booster Pump	Government
44	Organization Civil Defense, Hajj Command &		Zuhair Fayez	Relief Organization		Fire Pmps	Government
45	Holy Capital Adminstration Civil Defense, Hajj Command &	Bin Dubais	Proger	Ministry Of Interior Ministry Of Interior	Grundfos	Booster Pump	Government
46 47	Holy Capital Adminstration	Bin Dubais	Proger Saudi Diyar		Pentair Outokumpu	Fire Pmps Stainless Pipe	Government
48	Sharma Compllex Samtah Genral Hospital	Azmeel Contracting Company Matic Contracting Company	Saudi Diyar Namariq	Royal Court Ministry of Health	Outokumpu SPP	Stainless Pipe Fire Pmps	Government Government
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Section	61	in AL-Haditha port	ABV Nock Group	CHAI	Saddi Castollis	Granaios	booster i ump	Government	
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	Location - City	Location-Country	Client	Solution
2023	Alands	Finland	AquaSvea AB - TK	Filtralite Pure Mono-Multi
2023	Le Petit Quevilly	France	Disney - SOGEA (avec Safege)	Filtralite Pure NC 0,8-1,6
2023	Fouka	Algeria	Metito	Filtralite Pure NC 0,8-1,6
2023	Martyrs	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Montreal	Canada	City of Montreal	Filtralite Pure Mono-Multi Fine
2023	Rio de Janeiro	Brazil	Saint-Gobain Canalização	Filtralite Pure Mono-Multi
2023	Syndey	Australia	Orica	Filtralite Pure HC 2,5-5
2023	Adria	Italy	Acquevenete SpA	Filtralite Pure NC 0,8-1,6
2023	Valverde del Camino	Spain	FCC Aqualia	Filtralite Pure NC 0,8-1,6
2023	Lund	Sweden	Purac AB	Filtralite Pure Mono-Multi
2023	Makati	Philippines	Nature's Blend Water Systems	Filtralite Pure HC 2,5-5
2023	Cadriano	Italy	Culligan Italy	Filtralite Pure Mono-Multi Fine
2023	Fos sur mer	France	Nijhuis - Saur Industries	Filtralite Pure NC 0,8-1,6
2023	la Jarosa	Spain	Xylem Water Solutions Espana	Filtralite Pure NC 0,8-1,6
2023	Callas	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Chateaubourg	France	ENECO	Filtralite Pure NC 0,8-1,6
2023	Castet	France	Agur	Filtralite Pure NC 0,8-1,6
2023	Nans les Pins	France	Veolia Eau	Filtralite Pure NC 0,8-1,6
2023	Männedorf	Switzerland	WABAG Water Technology Ltd	Filtralite Pure NC 1,5-2,5
2023	Accra	Ghana	Creekwood	Filtralite Pure NC 0,8-1,6
2023	Thyregod	Denmark	Krüger A/S	Filtralite Pure MC 1,5-2,5
2023	Västervik	Sweden	Västervik Miljö & Energi AB	Filtralite Pure NC 0,8-1,6
2023	Panazol	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Lubersac	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Andrezieux	France	Syprofors	Filtralite Pure NC 0,8-1,6
2023	Gôteborg	Sweden	Goodtech AB	Filtralite Pure Mono-Multi Fine
2023	Crozes	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Rouen	France	Métropole Rouen Normandi	Filtralite Pure NC 0,8-1,6
2023	Angers	France	Angers Loire Metropole	Filtralite Pure Mono-Multi Fine
2023	Valkeakoski	Finland	Valkeakosken kaupunki	Filtralite Pure NC 0,8-1,6
2023	Rostock	Germany	Nordwasser GmbH	Filtralite Pure NC 1,5-2,5
2023	Randers	Denmark	Krüger	Filtralite Pure MC 0,8-1,6
2023	Ambert	France	Veolia Eau France	Filtralite Pure NC 0,8-1,6
2023	Ringsted	Denmark	Krüger	Filtralite Pure NC 0,8-1,6
2023	Dol-de-bretagne	France	Aquassys	Filtralite Pure NC 0,8-1,6
2023	Cremona	Italy	SUEZ - Italy	Filtralite Pure HC 1,5-2,5
2023	Figari	France	Veolia	Filtralite Pure NC 0,8-1,6
2023	Draguignan	France	Veolia	Filtralite Pure NC 0,8-1,6
2023	Agen	France	SAUR-CER	Filtralite Pure NC 0,8-1,6
2023	Tremouilles	France	Syndicat Mixte des Eaux du Levezou et du Segala	Filtralite Pure NC 0,8-1,6
2023	Ashford	UK	Techfil (Europe) Ltd	Filtralite Pure NC 1,5-2,5
2023	Santiago	Chile	Simtech S.L	Filtralite Pure NC 0,8-1,6
2023	Liziec	France	Vannes - EAU ET ASSAINISSEMENT	Filtralite Pure NC 0,8-1,6





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2023	Noyalo	France	Vannes - EAU ET ASSAINISSEMENT	Filtralite Pure NC 0,8-1,6
2023	Boissise-la-Bertrand	France	Veolia Eau	Filtralite Pure NC 0,8-1,6
2023	Sollies	France	Veolia	Filtralite Pure NC 0,8-1,6
2023	Turiff	Scotland	Ross Shire Engineering	Filtralite Pure HC 0,5-1
2023	St Caprais	France	Réseau 31	Filtralite Pure NC 0,8-1,6
2023	Västervik	Sweden	Purac AB	Filtralite Pure Mono-Multi Fine
				Filtralite Pure NC 0,8-1,6
2023	Rio de Janeiro	Brazil	Saint-Gobain Canalização	Filtralite Pure NC 1,5-2,5
				Filtralite Pure HC 0,8-1,6
2023	Le Havre	France	Le Havre Seine Métropole	Filtralite Pure NC 0,8-1,6
2023	Ringsted	Denmark	Krüger (Veolia)	Filtralite Pure NC 0,8-1,6
2023	Søborg	Denmark	Krüger (Veolia)	Filtralite Pure MC 0,8-1,6
2023	Ouagadougou	South Africa	ITS SA	Filtralite Pure NC 0,8-1,6
2023	Yaoundé	South Africa	ITS SA	Filtralite Pure NC 0,8-1,6
2023	Ravensburg	Germany	Hydro-Elektrik GmbH	Filtralite Pure Mono-Multi Fine
2023	Maarianhamina	Finland	Goodtech Environment Solutions AB	Filtralite Pure Mono-Multi Fine
2023	Fredrikstad	Norway	Frevar KF	Filtralite Pure NC 1,5-2,5
2023	Vernouillet	France	Suez (Eau France)	Filtralite Clean HC 2,5-5
2023	Brives	France	Suez (Eau France)	Filtralite Pure NC 0,8-1,6
2023	Aix en Provence	France	Canal de provence	Filtralite Pure NC 0,8-1,6
2023	Peymeinade	France	Canal Belletrud	Filtralite Pure NC 0,8-1,6
2023	Sparsborg	Norway	BORREGAARD AS	Filtralite Pure NC 1,5-2,5
2023	Bokn	Norway	Bokn Kommune	Filtralite Pure Mono-Multi Fine
2023	Lommedalen	Norway	Asker og Bærum Vannverk IKS	Filtralite Pure NC 1,5-2,5
2023	Saint-lô	France	Artelia	Filtralite Pure NC 0,8-1,6
2023	Barcelona	Spain	Agbar Aqua	Filtralite Pure NC 0,8-1,6
2023	Vias	France	A L'EAU DE SOURCE	Filtralite Pure NC 0,8-1,6
2022	Frogner	Norway	Biovac Environmental	Filtralite Pure HC 0,8-1,6
2022	Zamora	Spain	ANADUR S.L	Filtralite Pure NC 0,8-1,6
2022	Lourizan	Spain	Ence Pontenvedra	Filtralite Clean HR 4-8 Filtralite Pure HC 2,5-5
2022	Tycroe	Gales	Western Carbons Ltd	Filtralite Pure MC 0,8-1,6
2022	Louvigne	France	Eneco	Filtralite Pure NC 0,8-1,6
2022	Søborg	Denmark	Krüger (Veolia)	Filtralite Clean MC 2,5-4
2022	Valence	Spain	HYDRAQUA	Filtralite Clean MC 2,5-4 Filtralite Pure HC 0,5-1
2022	Rickmansworth	UK	Tropical Marine Centre	Filtralite Pure NC 1,5-2,5
2022	Härnösand	Swden	JA Skogström AB	Filtralite Pure NC 0,8-1,6
2022	La chapelle Auzac	France	Saur Cer	Filtralite Pure NC 0,8-1,6
2022	Corso	Algeria	Metito	Filtralite Pure MC 0,8-1,6
2022	Louvigne	France	Eneco	Filtralite Pure NC 0,8-1,6
2022	Rio de Janeiro	Brazil		Filtralite Pure Mono-Multi Fine
2022	NO UE JAHEHO	DIAZII	Saint-Gobain Canalização	Filtralite Pure NC 0,8-1,6
2022	Saskatoon	Canada	Delco Water	Filtralite Pure HC 0,8-1,6
2022	Saskatoon	Canada	Delco Water	Filtralite Pure NC 0,8-1,6 Filtralite Pure HC 0,8-1,6 Filtralite Pure NC 1,5-2,5 Filtralite Pure HC 0,5-1
2022	Saint Laurent de le Salanque	France	ETE	Filtralite Pure NC 0,8-1,6
2022	Zamora	Spain	ANADUR S.L	Filtralite Pure HC 0,8-1,6





2022	Sanxenxo	Spain	Espina & Delfin	Filtralite Pure HC 0,8-1,6
2022	Bergen	Norway	Bergen Vann KF	Filtralite Pure NC 0,8-1,6
2022	Vescovato	France	Veolia	Filtralite Pure NC 0,8-1,6
2022	La Gangosa	Spain	NOVAGRIC	Filtralite Pure Mono-Multi Fine
2022	Collebasse	France	Canal de Provence	Filtralite Pure Mono-Multi
2022	Huskvarna	Sweden	Eurowater AB	Filtralite Pure HC 0,8-1,6
2022	San Ciprian de Vinas	Spain	Vazquez y Arias S.L	Filtralite Pure NC 0,8-1,6
2022	Bringall	France	SAUR	Filtralite Pure NC 0.8-1.6
2022	Lilla Edets	Norway	Lilla Edets Municipality	Filtralite Pure NC 0.8-1.6
2022	Sarpsborg	Norway	BORREGAARD AS	Filtralite Pure NC 1.5-2.5
2022	Almeria	Spain	Aqualia Intech S.A. (FCC Aqualia)	Filtralite Pure NC 0.8-1.6
2022	Barcelona (Rio Llobregat)	Spain	ATLL Concesionaria de la Generalitat de Catalaña S.A.	Filtralite Pure Mono-Multi
2022	St-Congard	France	Eau du Morbihan	Filtralite Pure NC 0.8-1.6
2022	Studeněves	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2022	Studeněves	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2022	Skikda	Algeria	Geida (Sacyr)	Filtralite Pure NC 0,8-1,6
2022	Mundaring, Perth	Australia	Acciona Agua	Filtralite Pure NC 1.5-2.5
2022	Beniadla	Spain	FCC Aqualia	Filtralite Pure NC 0.8-1.6
2022	Laboule	France	SEBA	Filtralite Pure NC 0,8-1,6
2022	Concón	Chile	Simtech S.L.	Filtralite Pure NC 0,8-1,6
2022	Manila	Philippines	Tedagua	Filtralite Pure Mono-Multi
2022	La Garde-Freinet	France	Veolia	Filtralite Pure NC 0,8-1,6
2022	Finsjö	Sweden	JC Pool AB	Filtralite Pure HC 0,8-1,6
2022	Soufflenheim	France	Syndicat des Eaux et de l'Assainissement Alsace- Moselle	Filtralite Pure NC 0,8-1,6
2022	Skive Vihøj	Denmark	Krüger (Veolia)	Filtralite Pure NC 1.5-2.5
2022	Lessebo	Sweden	Lessebo Municipality	Filtralite Pure NC 0,8-1,6
2022	Fusa	Norway	Skjørsand og Fusa Vassverk SA	Filtralite Pure HC 0,5-1
2022	Porsgrunn	Norway	Porsgrunn Municipality	Filtralite Pure NC 0,8-1,6
2022	Agen	France	SAUR	Filtralite Pure NC 0.8-1.6
2022	Vienne	France	SAUR	Filtralite Pure NC 0,8-1,6
2022	Kristianstad	Sweden	NCC Infrastructure	Filtralite Pure Mono-Multi
2022	Libreville	Gabon	SACOFRINA (ITS SA)	Filtralite Pure NC 0,8-1,6
2022	Tremouilles	France	Syndicat Mixte des Eaux du Levezou et du Segala	Filtralite Pure NC 0,8-1,6
2022	Walton	United Kingdom	Ross Shire Engineering (for Thames Water)	Filtralite Pure Mono-Multi
2022	Viterbo	Italy	Suez	Filtralite Pure NC 0.8-1.6
2022	Oslo	Norway	Oslo Kommune Vann- og avløpsetaten	Sand + Filtralite Pure MC 1.5-2.5
2022	Paimpol	France	STEREAU (groupe SAUR)	Filtralite Pure NC 0.8-1.6
2022	Liziec	France	Golfe du Morbihan Vannes Agglomération	Filtralite Pure NC 0.8-1.6
2022	Ryiadh	Saoudi Arabia	ACWA Power	Filtralite Pure NC 0,8-1,6 Filtralite Pure HC 0,5-1
2022	Valkeakoski	Finland	Valkeakosken vesihuoltolaitos	Filtralite Pure NC 0.8-1.6





2022	Jamundi	Colombia	GMB Ingeneria S.A.S	Filtralite Pure Mono-Multi
2022	Créon d'Armagnac	France	Sydec - 40	Filtralite Pure NC 0.8-1.6
2022	Saugnac	France	Sydec - 40	Filtralite Pure Mono-Multi
2022	Lorgies (Noréade)	France	STB Matériaux	Filtralite Pure NC 0.8-1.6
2022	Ecaussinnes	Belgium	Vivaqua	Filtralite Pure NC 0.8-1.6
2022	Choisy-le-Roy (Eau de Paris)	France	Eau de Paris	Filtralite Pure NC 0.8-1.6
2022	Lille	France	Sourceo	Filtralite Pure Mono-Multi
2022	Degerfors	Sweden	ELVA ProcessAutomation AB	Sand+Filtralite Pure NC 1.5-2.5
2022	Altos Riegos	Spain	Ingeobras	Filtralite Pure HC 2.5-5 Filtralite Pure HC 0.8-1.6
2022	Angers	France	Angers Loire Metropole	Filtralite Pure Mono-Multi
2022	Stavanger	Norway	Ivar IKS	Filtralite Pure Mono-Multi
2022	Kokkola	Finland	KIP Service Oy	Filtralite Pure Mono-Multi
2022	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure NC 1.5-2.5
2022	Joinville	France	Palm Environnement	Filtralite Pure HC 2.5-5
2021	Stavanger	Norway	Ivar IKS	Filtralite Pure Mono-Multi
2021	Dresden	Germany	DREWAG NETZ GmbH - Sachsenenergie	Filtralite Pure Mono-Multi
2021	Colchester	United Kingdom	Western Carbon	Filtralite Pure Mono-Multi Filtralite Pure NC 0.8-1.6
2021	Beni Saf	Algeria	Tedagua	Filtralite Pure MC 0.8-1.6
2021	Mexico DF	Mexico	PROVIME	Filtralite Pure HC 2.5-5
2021	Bégard	France	SAUR	Filtralite Pure NC 0.8-1.6
2021	Maupas	France	SAUR	Filtralite Pure NC 0.8-1.6
2021	Picotalen	France	Institut des Eaux de la Montagne Noire (IEMN)	Filtralite Pure NC 0.8-1.6
2021	Choisy-le-Roy (SEDIF)	France	OTV Grand Paris	Filtralite Pure NC 0.8-1.6
2021	Le Havre	France	Le Havre Seine Métropole	Filtralite Pure NC 0.8-1.6
2021	Oslo	Norway	Oslo Kommune Vann- og avløpsetaten	Sand + Filtralite Pure MC 1.5-2.5
2021	Hamar	Norway	HIAS	Filtralite Pure MC 0.8-1.6
2021	Maribo	Denmark	Krüger (Veolia)	Filtralite Pure MC 1.5-2.5
2021	Hradec Králové	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2021	Jince	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2021	Gjøvik	Norway	Sterner Aquatech	Filtralite Pure HC 0,5-1 Filtralite Pure HC 0.8-1.6
2021	Nice	France	Eau d'Azur	Filtralite Pure NC 1.5-2.5
2021	Lyngby	Denmark	Krüger (Veolia)	Filtralite Pure NC 1.5-2.5
2021	Tanumshede	Sweden	NCC Infrastructure	Filtralite Pure NC 1.5-2.5
2021	Bergen	Norway	Bergen Vann KF	Filtralite Pure NC 0.8-1.6
2021	Tremouilles	France	Syndicat Mixte des Eaux du Levezou et du Segala	Filtralite Pure NC 0,8-1,6
2023	Angers	France	Angers Loire Metropole	Filtralite Pure Mono-Multi
2021	Créon d'Armagnac	France	Sydec - 40	Filtralite Pure NC 0,8-1,6
2021	Lille	France	Sourceo	Filtralite Pure Mono-Multi
2021	Osterøy	Norway	Sterner Aquatech	Filtralite Pure HC 0,5-1
2021	Aurskog	Norway	Aurskog-Høland kommune	Filtralite Pure Mono-Multi
2021	Fouka	Algeria	Acciona Agua	Filtralite Pure MC 0,8-1,6 Filtralite Pure MC 1,5-2,5
2021	Malmö	Sweden	VA Syd	Filtralite Pure Mono-Multi
2021	Porsgrunn	Norway	Porsgrunn Municipality	Filtralite Pure NC 0,8-1,6
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2021	Dubai	UAE	Emirates Global Aluminum	Filtralite Pure Mono-Multi Fine
				Filtralite Pure MC 1,5-2,5
2021	Cardston	Canada	Delco Water	Filtralite Pure Mono-Multi
2021	Pedraza	Spain	Elecnor	Filtralite Pure Mono-Multi Fine
2021	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure NC 1.5-2.5
2021	Stockholm	Sweden	Norrvatten	Filtralite Pure NC 0.8-1.6
2021	Sao Paulo	Brazil	AEGEA	Filtralite Pure Mono-Multi
2020	Toulouse	France	Toulouse Métropole	Filtralite Pure NC 0.8-1.6
2020	Beni Saf	Algeria	Tedagua	Filtralite Pure MC 0.8-1.6
2020	Ringsted	Denmark	Krüger (Veolia)	Filtralite Pure HC 0.8-1.6
2020	Barcelona (Rio Llobregat)	Spain	ATLL Concesionaria de la Generalitat de Catalaña S.A.	Filtralite Pure Mono-Multi
2020		United Kingdom	Filtec Water Services Ltd	Filtralite Pure HC 0.5-1
2020	Katrineholm	Sweden	Veolia	Filtralite Pure NC 1.5-2.5
2020	Coppermills, London	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 1.5-2.5
2020	Ledvice	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2020	Agen	France	SAUR	Filtralite Pure NC 0.8-1.6
2020	Santiago de Compostela	Spain	Espina & Delfin	Filtralite Pure Mono-Multi Fine
2020	Hennebont	France	SAUR	Filtralite Pure NC 0.8-1.6
2020	Dénia	Spain	FCC Aqualia	Filtralite Pure NC 0.8-1.6
2020	Hrušovany	Czech Republic	Envi-Pur s.r.o	Filtralite Pure HC 1.5-2.5
2020		Denmark	Dansk Kvarts Industri A/S	Filtralite Pure MC 1.5-2.5
2020	Sluvad	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure MC 0.8-1.6
2020	Le Havre	France	Le Havre Seine Métropole	Filtralite Pure NC 0.8-1.6
2020	Havemølle	Denmark	Krüger (Veolia)	Filtralite Pure MC 0.8-1.6
2020	Ashford Common	United Kingdom	Techfil Ltd (for Thames Water)	Filtralite Pure Mono-Multi
2020	Tuusula	Finland	Keski-Uudenmaan Vesi Kuntayhtymä	Filtralite Pure NC 0.8-1.6
2020	Tampere	Finland	Tampereen Vesi	Filtralite Pure MC 1,5-2,5
2020	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure NC 1.5-2.5
2020	Hellebæk	Denmark	Krüger (Veolia)	Filtralite MC 2,5-4
2020	Malmö	Sweden	Sydvatten	Filtralite Pure Mono-Multi
2020	Montauban	France	Veolia	Filtralite Pure NC 0.8-1.6
2020	Colmenar	Spain	Canal de Isabel II	Filtralite Pure Mono-Multi
2020	Moravská Nová	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2020	Kokkola	Finland	KIP Service Oy	Filtralite Pure Mono-Multi
2020	Laval	France	Laval Agglomération	Filtralite Pure NC 0.8-1.6
2020	Okhla, Dehli	India	Metrro Waste Handling Pvt. Ltd.	Filtralite Pure HC 2.5-5
2020	Thouars	France	Suez (Eau France)	Filtralite Pure HC 2.5-5
2020	Las Palmas	Spain	EMALSA	Filtralite Pure Mono-Multi Fine
2020	Uusikaupunki	Finland	Uudenkaupungin Vesi	Filtralite Pure Mono-Multi
2020	Ecaussinnes	Belgium	Vivaqua	Filtralite Pure Mono-Multi Fine
2020	Coles	Spain	Viaqua	Filtralite Pure Mono-Multi
2020	Mélia	Spain	Viaqua	Filtralite NC 0,8-1,6
2019	Angers	France	Angers Loire Metropole	Filtralite Pure Mono-Multi
2019	Vau Reuze	France	Eau du bassin Rennais	Filtralite Pure Mono-Multi
2019	Kerbellec (56)	France	Eau du Morbihan	Filtralite Pure NC 0.8-1.6
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2019	Hellebæk	Denmark	Krüger (Veolia)	Filtralite MC 2,5-4
2019	Mundaring, Perth	Australia	Acciona Agua	Filtralite Pure NC 1.5-2.5
2019	Putatan, Manilla	Philippines	Acciona Agua	Filtralite HR 3-6
2019	Tai Po	Hong Kong	Atal Engineering	Filtralite Pure HC 2.5-5
2019	Bømlo	Norway	Bømlo Vatn og Avløpsselskap AS	Filtralite Pure NC 0.8-1.6
2019	Saskatoon	Canada	Delco Water	Filtralite Pure Mono-Multi
2019	Karany-Sojovice	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2019	Irvine	United Kingdom	Filtec Water Services Ltd	Filtralite Pure HC 0.5-1
2019	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure MC 1.5-2.5
2019	Cap Djinet	Algeria	GS Inima	Sand 0,5+Filtralite Pure MC 0.8-1.6
2019	Mostaganem	Algeria	GS Inima	Sand 0,5+Filtralite Pure MC 0.8-1.6
2019	Babahoyo	Ecuador	Interagua	Filtralite Pure Mono-Multi
2019	Stavanger	Norway	Ivar IKS	Filtralite Pure MC 0.8-1.6
2019	Kokkola	Finland	KIP Service Oy	Filtralite Pure Mono-Multi Fine
2019	Hellebæk	Denmark	Krüger (Veolia)	Filtralite Pure MC02.5-4
2019	Snekkersten	Denmark	Krüger (Veolia)	Filtralite Pure MC 1.5-2.5
2019	Stege	Denmark	Krüger (Veolia)	Filtralite Pure MC 0.8-1.6
2019	Movar	Norway	Movar IKS	Filtralite Pure NC 1.5-2.5
2019	Stockholm	Sweden	Norrvatten	Filtralite Pure NC 1.5-2.5
2019	Milano - Feltre	Italy	Suez	Filtralite Pure HC 2.5-5
2019	New Inn	United Kingdom	Transwaste Ltd	Filtralite Pure MC 0.8-1.6
2019	Valkeakoski	Finland	Valkeakosken vesihuoltolaitos	Filtralite Pure NC 0.8-1.6
2019	Vestfold	Norway	Vestfold Vann IKS	Filtralite Pure NC 0.8-1.6
2019	Ashford Common	United Kingdom	Watercare Utilities Limited	Filtralite Pure Mono-Multi
2019	Coppermills, London	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure Mono-Multi
2019	Olesa de Montserrat	Spain	CM OLESA	Filtralite HC 0,8-1,6
2019	Celanova	Spain	Viaqua	Filtralite HC 0,8-1,6
2018	Chêne-Al-Pierre	Belgium	CMI Balteau	Filtralite Pure Mono-Multi
2018	Lille	France	Sourceo	Filtralite Pure Mono-Multi
2018	Asker og Bærum	Norway	Asker og Bærum Vannverk IKS	Filtralite Pure NC 1.5-2.5
2018	Barcelona (Rio Llobregat)	Spain	ATLL Concesionaria de la Generalitat de Catalaña S.A.	Filtralite Pure Mono-Multi
2018	Kano State	Nigeria	Creekwood	Filtralite Pure NC 0.8-1.6
2018	Pisek	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2018	Mokošín	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2018	Padrón	Spain	Espina & Delfin	Filtralite Pure MC 0.8-1.6
2018	Rosebery	United Kingdom	Filtec Water Services Ltd	Filtralite Pure HC 0.5-1
2018	Alicante	Spain	GS Inima	Filtralite Pure Mono-Multi Fine
2018	Carboneras	Spain	GS Inima	Sand+Filtralite Pure MC Filtralite Pure Mono-Multi Fine
2018	Bosnia	Bosnia	Hidro-Kop	Filtralite Pure Mono-Multi
2018	Benavente	Spain	Elecnor	Filtralite Pure Mono-Multi Fine
2018	Kungälv	Sweden	Purac AB	Filtralite Pure Mono-Multi
2018	Navia	Spain	Suez	Filtralite Pure NC 0.8-1.6
2018	Ullensaker	Norway	Ullensaker kommune	Filtralite Pure MC 0.8-1,6
2018	Ligny	Belgium	Vivaqua	Filtralite Pure NC 0.8-1.6





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2018	Ashford Common	United Kingdom	Watercare Utilities Limited	Filtralite Pure Mono-Multi
2018	Alton	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure HC 0.5-1
2017	Askøy	Norway	Askøy Kommune	Filtralite Pure Mono-Multi
2017	Bergen	Norway	Bergen Vann KF	Filtralite Pure NC 0.8-1.6
2017	Blomvåg	Norway	Enwa PMI AS	Filtralite Pure Mono-Multi
2017	Stockholm	Sweden	Norrvatten	Filtralite Pure NC 1.5-2.5
2017	Porsgrunn	Norway	Porsgrunn Municipality	Filtralite Pure Mono-Multi
2017	Busan	South Korea	Sang Chung	Filtralite Pure HC 2,5-5
2017	Inowrocław	Poland	SEEN Technologie	Filtralite Pure NC 1.5-2.5
2017	Niort	France	Syndicat des Eaux du Vivier	Filtralite Pure HC 2,5-5
2017	Vestfold	Norway	Vestfold Vann IKS	Filtralite Pure NC 0.8-1.6
2017	Beckton	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 0.8-1.6
2016	Tai Po	Hong Kong	Atal Engineering	Filtralite Pure HC 2,5-5
2016	Bergen	Norway	Bergen Vann KF	Filtralite Pure NC 1,5-2,5
2016	Bærum	Norway	Bærum Kommune	Filtralite Pure Mono-Multi
2016	Tampere	Finland	Econet Ltd	Filtralite Pure Mono-Multi
2016	-	South Korea	Sang Chung	Filtralite Pure HC 2,5-5
2016	Skien	Norway	Skien Municipality	Filtralite Pure Mono-Multi
2016		Kosovo	Strabag AG	Filtralite Pure MC 1,5-2,5
2016	Niort	France	Syndicat Des Eaux Du Vivier	Filtralite Pure HC 2,5-5
2016	Vestfold	Norway	Vestfold Vann IKS	Filtralite Pure NC 0,8-1,6
2016		Germany	Von Roll BHU Umweltt	Filtralite Pure MC 0,8-1,6
2016	Vågsøy	Norway	Vågsøy Kommune	Filtralite Pure MC 0,8-1,6
2016	United Kingdom	United Kingdom	Watercare Utilities Limited	Filtralite Pure HC 0,8-1,6
2015	Bergen	Norway	Bergen Vann KF	Filtralite Pure Mono-Multi
2015	Czech Republic	Czech Republic	Envi-Pur s.r.o	Filtralite Pure NC 0,8-1,6
2015	Czech Republic	Czech Republic	Envi-Pur s.r.o	Filtralite Pure NC 0,8-1,6
2015	Mlýn	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2015	Strašice	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2015	Strašice	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2015	Studeněves	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi Fine
2015		United Kingdom	Interserve Construct	Filtralite Pure HC 2,5-5
2015		Denmark	Krüger (Veolia)	Filtralite Pure NC 1,5-2,5
2015	Frederiksberg	Denmark	Krüger (Veolia)	Single media
2015		South Korea	Sang Chung	Filtralite Pure HC 2,5-5
2015		South Korea	Sang Chung	Filtralite Pure HC 2,5-5
2015	Erbil	Iraq	SFKJV	Filtralite Pure Mono-Multi
2015	Skåne	Sweden	Skåne Blekinge Vatte	Filtralite Pure NC 1,5-2,5
2015	Turkey	Turkey	STFA Fernas Kalyon	Filtralite Pure Mono-Multi
2015		Belgium	Suez	Filtralite Pure HC 2,5-5
2015	Vestfold	Norway	Vestfold Vann IKS	Filtralite Pure NC 0,8-1,6
2015		Switzerland	Wabag	Filtralite Pure MC 1,5-2,5
2015		United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure HC 2,5-5
2015	United Kingdom	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 0,8-1,6
2015	United Kingdom	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 0,8-1,6





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2015	United Kingdom	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 0,8-1,6
2015	United Kingdom	United Kingdom	Western Carbon (for Thames Water)	Filtralite Pure NC 0,8-1,6
2014	Tai Po	Hong Kong	Atal Engineering	Filtralite Pure HC 2.5-5
2014	Tampere	Finland	Econet Ltd	Filtralite Pure Mono-Multi
2014	WTP Plzeň	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2014	WTP Temelín	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2014	Bamble	Norway	Hydro-Elektrik AS	Filtralite Pure Mono-Multi
2014	Birkerød	Denmark	Krüger (Veolia)	Single media
2014	Kempton Park	United Kingdom	Thames Water	Single media
2013	Mundaring, Perth	Australia	Acciona Agua	Filtralite Pure NC 1.5-2.5
2013	Hradec Králové	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2013	Gäddvik	Sweden	Goodtech	Filtralite Pure Mono-Multi
2013	Larvik	Norway	Larvik municipality	Filtrlalite Pure MC 0.8-1.6
2013	South Korea	South Korea	Sang Chung	Filtralite Pure Mono-Multi
2012		India	Aventura	Dual media
2011	Naugfoss	Norway	Asplan Viak	Dual media
2011	WTP Bedrichov ScVK	Czech Republic	Envi-Pur s.r.o	Filtralite Pure Mono-Multi
2011	Mont Valérien	France	Suez (Ondeo Industrial Solutions)	Filtralite Pure HC 2.5-5
2011	Ashford Common	United Kingdom	Thames Water	Dual media
2010	Beckton	United Kingdom	Acciona Agua	Filtralite Pure HC 0.8-1.6
2010	Hauglifjell	Norway	Nedre Romerike Vannverk	Dual media
2010	Saddle Lake Cree Nation	Canada	Sapphire Water	
2010	Le Pecq	France	Suez (Ondeo Industrial Solutions)	
2010	Mesnil St.Nicaise	France	Suez (Ondeo Industrial Solutions)	
2010	Mont Valérien	France	Suez (Ondeo Industrial Solutions)	
2010	Kempton Park	United Kingdom	Thames Water	Single media
2010	Walton	United Kingdom	Thames Water	Dual media
2010	Sluvad	United Kingdom	United Utilities / Welsh Water	Single media
2010	Llwyn-Onn	United Kingdom	United Utilities / Welsh Water	Single media
2010	Weihai	China	Weihai Water	Single media
2009	Sohar	Oman	Aqualyng	
2009	Flateby	Norway	Flateby Water Works	Dual media
2009	Istanbul	Turkey	MPE Engineering	Single media
2009	Dakota Dunes Casion	Canada	Sapphire Water	
2009	Skien	Norway	Skien Municipality	
2009	Nes	Norway	Sterner Aquatech	
2009	Farmoor	United Kingdom	Thames Water	Single media
2009	Fishmoor	United Kingdom	United Utilities / Welsh Water	Single media
2009	Palmachim	Israel	Via Maris Desalination	Dual media
2008		Oman	Aqualyng	Filtralite Pure Mono-Multi
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2008	Oxy Shadeed	Oman	Aqualyng	Filtralite Pure Mono-Multi
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Filtralite project references Drinking water

2008	Rakkestad	Norway	Rakkestad municipality	
2008	Xaltepec	Mexico	Suez (Degrémont)	
2008	Coppermills, London	United Kingdom	Thames Water	Single media
2008	Hampton	United Kingdom	Thames Water Thames Water	Filtralite Pure Mono-Multi
2008	Swinford	United Kingdom United Kingdom	Thames Water	Single media
2008	Swimord	Office Kingdom	United Utilities / Welsh	Single media
2008	Sluvad	United Kingdom	Water	Single media
2008	Brcko	Bosnia	VA Tech Wabag	Dual media
2007	Río Llobregat	Spain	Air Water Treatment	
2007	Plateau du Thelle	France	France Assainissement	
2007	Oslo	Norway	Krüger (Veolia)	Sand + Filtralite Pure MC 1.5-2.5
2007	Nedre Romerike	Norway	NRV	Dual media
2007	Ashford Common	United Kingdom	Thames Water	Filtralite Pure Mono-Multi
2007	Larvik	Norway	VIV	Dual media
2006	Oppegård	Norway	PA Entreprenør	Dual media
2006	George Gordon First Nation	Canada	Sapphire Water	
2006	Kempton Park	United Kingdom	Thames Water	Single media
2005	Agadir	Morocco	Aqualyng	Sand+Filtralite Pure MC
2005	Balsfjord	Norway	L. A. Beck	
2005	Moss	Norway	Movar IKS	Dual media
2005	Porsgrunn	Norway	Porsgrunn Municipality	Triple media
2005	Pasqua First Nation	Canada	Sapphire Water	•
2005	New Delhi	India	Suez (Degrémont)	
2005	Tallinn	Estonia	Tallinn Water	Dual media
2005	Tingvoll	Norway	Tingvoll Municipality	Triple media
2005	Czestochowa	Poland	VA Tech Wabag	Filtralite Pure HC 2.5-5 Dual media
2005	Vara	Sweden	Vara Municipality	
2004	Rostock	Germany	Eurawasser	Dual media
2004	Cremona	Italy	Suez (Degrémont)	Filtralite Pure HC 2.5-5
2004	Ubbhult	Sweden	Sweco Viak	
2003	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure MC 1.5-2.5
2003	Borregaard	Norway	Krüger (Veolia)	Dual media
2003	Yellow Quill First Nation	Canada	Sapphire Water	
2003	Niepolomice	Poland	Unitex	
2003	Larvik	Norway	VIV	Dual media
2002	Fredrikstad	Norway	Frevar KF	Sand+Filtralite Pure MC 1.5-2.5
2002	Skagen	Denmark	Krüger (Veolia)	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2001	Perm	Russia	RWB / VA Tech Wabag	Dual media
2001	Ivry sur Seine	France	Suez (Degrémont)	Filtralite Pure HC 2.5-5
2000	Ivry Sur Seine	France	Suez (Degrémont)	Filtralite Pure HC 2.5-5
1997	Ivry Sur Seine	France	Suez (Degrémont)	Filtralite Pure HC 2.5-5
1997	Montcresson	France	Suez (Degrémont)	Filtralite Pure HC 2.5-5
1997	Vernoy	France	Suez (Degrémont)	Filtralite Pure HC 2.5-5
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Year	Location - City	Location-Country	Client	Solution		
2023	Stockholm	Sweden	Stockholm Vatten och Avfall	Filtralite Clean MC 2,5-4		
2023	Falmouth	UK	Tecker Ltd	Filtralite Clean HC 2,5-5		
2023	Briançon	France	Eau France	Filtralite Clean HC 2,5-5		
2023	Troyes	France	SDDEA	Filtralite Clean HC 2,5-5		
2023	Malmö	Sweden	VA Syd	Filtralite Clean MC 2,5-4		
			SUEZ SMART			
2023	Dakar	Senegal	ENVIRONMENTAL	Filtralite Air 10-20		
			SOLUTIONS SPAIN S.L.			
2023	VEAS, Oslo	Sweden	VEAS	Filtralite Clean HC 2,5-5		
2023	Lillers	France	Tereos	Filtralite Clean HC 2,5-5		
			SUEZ II WATER			
2023	Lousa	Portugal	TECHNOLOGIES &	Filtralite Clean HC 2,5-5		
			SOLUTIONS PORTUGAL			
2023	Briançon	France	Eau France	Filtralite Clean HC 2,5-5		
2023	La Coruna	Spain	Veolia Spain	Filtralite Clean HC 2,5-5		
2023	Calvi	France	Veolia	Filtralite Clean HR 3-6		
2023	Seoul	South Korea	SangChung	Filtralite Clean HR 4-8		
2023	Seoul	South Rolea	Sangenting	Filtralite Clean HC 2,5-5		
2023	Gressvik	Norway	Odin Maskin A/S	Filtralite Nature P 0,5-4		
2023	Sandefjord	Norway	Hyttetorget	Filtralite Nature NR 2-4		
2023	Birkenhead	UK	Filtec Water Services Ltd	Filtralite Clean HC 2,5-5		
2023	Lamstedt	Germany	Fibo ExClay Deutschland	Filtralite Pure HC 1,5-2,5		
2023	Lamsteut	-	GmbH	Tilliante Fule IIC 1,5-2,5		
2023	Les Menuires	France	Suez	Filtralite Clean HR 2,5-5		
2023	Seoul	South Korea	SangChung	Filtralite Clean HC 2,5-5		
				Filtralite Clean HR 4-8		
2023	Bordeaux	France	Sabom Assainissement	Filtralite Clean HC 2.5-5		
2022	Sandefjord	Norway	Hyttetorget AS	Filtralite Nature NR 2-4		
			Keski-Uudenmaan			
2022	Tuusala	Finland	vesiensuojelun	Filtralite Air 10-20		
			liikelaitoskuntayhtymä			
2022	Malmö	Sweden	Apotekservice AS	Filtralite Nature P 0,5-4		
2022	Oslo	Norway	Brødrene Dahl AS	Filtralite Nature P 0,5-4		
2022	Andebu	Norway	Vestfold Plastindustri	Filtralite Nature P 0,5-4		
2022	Frogner	Norway	Biovac Environmental	Filtralite Nature P 0,5-4		
2022	Andebu	Norway	Vestfold Plastindustri	Filtralite Nature NR 4-10		
				Filtralite Nature P 0,5-4		
2022	Aland	Finland	Bomanson & Co	Filtralite Nature P 0,5-4		
				Filtralite Air 4-10		
2022	Seoul	South Korea	SangChung	Filtralite Nature NR 10-20		
2022	Frogner	Norway	Biovac Environmental	Filtralite Nature P 0,5-4		
2022	Tallahassee	US	Wastewater Technologies Inc	Filtralite Nature P 0,5-4		
2022	Tribiano	Italy	Bioreal	Filtralite Nature P 0,5-4		
2022	Saint-Aubin	France	Eau de France	Filtralite Clean HC 2.5-5		
2022	Sandefjord	Norway	Hyttetorget AS	Filtralite Nature P 0,5-4		
2022	Zaragoza	Spain	Ingeobras	Filtralite Pure HC 2,5-5		
2022	El Arenal	Spain	Garau Ingenieros	Filtralite Pure HC 2,5-5		





Year	Location - City	Location-Country	Client	Solution
2022	Valencia	Spain Spain	HIDRAQUA (VALENCIA)	Filtralite Pure HC 2,5-5
2022	Pozuelo de Calatrava	Spain	Ecolagunas S.L	Filtralite Nature P 0,5-4
2022	Mesnil-Saint-Nicaise	France	TEREOS	Filtralite Clean HC 2.5-5
2022	Aberdeen	Scotland	Scottish Water Services	Filtralite Clean HR 4-8
2022	Corbeil-Essonnes	France	SAUR	Filtralite Clean HC 2.5-5
2022	Llanes	Spain	FCC Aqualia	Filtralite Clean HR 3-6
2022	Annecy	France	Quadrimex	Filtralite Clean HC 2.5-5
2022	La Bourboule	France	SAUR	Filtralite Clean HC 2.5-5
2022	Puerto de Santa Maria	Spain	FCC Aqualia	Filtralite Clean HR 3-6
2022				
	Pras-sur-Arly	France	SIVU Megève / Praz-sur-Arly	Filtralite Clean HC 2.5-5
2022	Trafaria	Portugal	Suez	Filtralite Clean HC 2.5-5
2022	La Garde	France	Veolia (Compagnie des Eaux et de l'Ozone)	Filtralite Clean HC 2.5-5
2022	Puiseux-le-Hauberger	France	Suez, Eau France	Filtralite Clean HC 2.5-5
2021	Budapest	Hungary	SDT Kft.	Filtralite Clean HR 3-6
2021	Budapest	Trungary	SDT Kit.	Filtralite Clean HR 4-8
2021	Annecy	France	Quadrimex	Filtralite Clean HR 3-6
2021	Toulouse	France	ASTEO (Suez)	Filtralite Clean HR 3-6
2021	La Bourboule	France	SAUR	Filtralite Clean HC 2.5-5
2021	Liège	Belgium	Compagnie Intercommunale Liégeoise des Eaux	Filtralite Clean HC 2.5-5
2021	La Clusaz	France	O des Aravis	Filtralite Clean HR 3-6
2021	Plymouth	UK	Tecker Ltd	Filtralite Clean HC 2.5-5
2021	Annecy	France	Quadrimex	Filtralite Clean HC 2.5-5
2021	Yangju	South Korea	SangChung	Filtralite Clean HC 2,5-5
			-	Filtralite Clean HR 4-8
2021	Genova	Italy	Suez	Filtralite Clean HR 4-8
2021	Ulsan	China	SangChung	Filtralite Clean HC 2.5-5
2021	Athmania	Algeria	SPA Amenhyd	Filtralite Clean HR 2.5-5
2021	Aberdeen	Scotland	Scottish Water Services	Filtralite Clean HR 4-8
2021	Heggvinn	Norway	Sirkula IKS	Filtralite Clean HC 2.5-5
2021	Puiseux-le-Hauberger	France	Suez, Eau France	Filtralite Clean HC 2.5-5
2021	Jung Ang	South Korea	SangChung	Filtralite Clean HR 4-8
2021	Sophia Antipolis	France	Suez, Eau France	Filtralite Clean HC 2.5-5
2020	Almada-Lisboa	Portugal	Suez	Filtralite Clean HC 2.5-5
2020	VEAS, Oslo	Norway	VEAS	Filtralite Clean HR 3-6 Filtralite Clean HC 2.5-5
2020	Megève	France	Commune de Megève	Filtralite Clean HC 2.5-5
2020	Suwon (Samsung)	South Korea	SangChung	Filtralite Clean HC 2.5-5
2020	La Bourboule	France	SAUR	Filtralite Clean HC 2.5-5
2020	La Clusaz	France	O des Aravis	Filtralite Clean HR 3-6
2020	Quinta do Lago	Portugal	Acciona Agua	Filtralite Clean HC 2.5-5
2020	Liège	Belgium	Compagnie Intercommunale Liégeoise des Eaux	Filtralite Clean HC 2.5-5
2020	Brokenbury	UK	Tecker Ltd	Filtralite Clean HC 2.5-5
2020	Plymouth	UK	Tecker Ltd	Filtralite Clean HC 2.5-5
2020	Samsung	South Korea	SangChung	Filtralite Clean HC 2.5-5
2020	Sumoung	200011 11010U	241162114116	1 110 and Cican 11C 2.5 5





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Year	Location - City	Location-Country	Client	Solution Silver LID 2.6	
2020	Annecy	France	Quadrimex	Filtralite Clean HR 3-6	
2020	Bekkelaget	Norway	PNC Norge AS	Filtralite Clean MC 2,5-4	
2020	Puerto de Santa Maria	Spain	FCC Aqualia	Filtralite Clean HR 3-6	
2020	Les Houches	France	Quadrimex	Filtralite Clean HR 3-6	
2020	Ta'barkat	Malta	Water Services Corporation	Filtralite Clean HC 2.5-5	
2020	Galapagar	Spain	Suez	Filtralite Clean HR 4-8	
	1 0			Filtrlaite Clean HR 3-6	
2020	Klagshamn	Sweden	VA Syd	Filtralite Clean MC 2,5-4	
2020	Aberdeen	Scotland	Scottish Water Services	Filtralite Clean HR 4-8	
2020	VEAS, Oslo	Norway	VEAS	Filtralite Clean HR 3-6	
				Filtralite Clean HC 2.5-5	
2019	Villefranche	France	Commune de Villefranche	Filtralite Clean HC 2,5-5	
2019	Pineda de Mar	Spain	Simmar Serveis Integrals de	Filtralite Clean HC 2.5-5	
			Manteniment del Maresme S.L.		
2019	La Clusaz	France	O des Aravis	Filtralite Clean HR 3-6	
2019	VEAS, Oslo	Norway	VEAS	Filtralite Clean HC 2,5-5	
	ŕ			Filtralite Clean HR 3-6	
2019	Oslo - Bekkelaget	Norway	Bekkelaget Vann AS	Filtralite Clean MC 2,5-4	
2019	Ain Tinn	Algeria	WBG	Filtralite Clean HC 2.5-5	
2019	Les Menuires	France	Suez	Filtralite Clean HR 2,5-5	
2019	Yang Jun	South Korea	SangChung	Filtralite Clean HC 2,5-5	
2017	Tang Jun	South Rolea	Sangenung	Filtralite Clean HR 4-8	
2019	Pas de la Casa	Spain	OMS-SACEDE	Filtralite Clean HC 2,5-5	
2019	Arco	Italy	Suez	Filtralite Clean HR 3-6	
2019	Käppala	Sweden	Käppalaförbundet	Filtralite Clean MC 2,5-4	
2019	Annecy	France	Quadrimex	Filtralite Clean HR 3-6	
2019	Annecy	France	Quadrimex	Filtralite Clean HR 3-6	
2019	Cabot Lane	UK	Suez	Filtralite Clean HC 2.5-5	
2019	Dangote Oil Refining	Nigeria	VA Tech Wabag	Filtralite Clean HR 4-8	
2019	Company	Nigeria	VA Teeli Wabag	Filtrlaite Clean HR 3-6	
2019	Sophia Antipolis	France	Suez	Filtralite Clean HR 4-8	
2019	Ta'barkat	Malta	Water Services Corporation	Filtralite Clean HR 4-8	
2018	Annecy	France	Quadrimex	Filtralite Clean HR 3-6	
2018	Ta'barkat	Malta	Water Services Corporation	Filtralite Clean HR 4-8	
2018	Sophia Antipolis	France	Suez	Filtralite Clean HR 4-8	
2018	Puerto de Santa Maria	Spain	FCC Aqualia	Filtralite Clean HR 3-6	
2018	Birkenhead	UK	Filtec Water Services	Filtralite Clean HC 2.5-5	
2018	Jung Ang	South Korea	SangChung	Filtralite Clean HC 2.5-5	
2018	Käppala	Sweden	Käppalaförbundet	Filtralite Clean MC 2.5-4	
2018	Klagshamn	Sweden	Va Syd	Filtralite Clean MC 2.5-4	
2018	Nigg STW	Scotland	Kelda Water Services	Filtralite Clean HR 4-8	
2018	Klagshamn	Sweden	VA Syd	Filtralite Clean MC 2.5-4	
2018	Kelda	Scotland	Scottish Water Services	Filtralite Clean HR 4-8	
	Peschiera Borromeo,			Filtralite Clean HR 4-8	
2018	Milan	Italy	Suez	Filtralite Clean HC 2.5-5	
2018	Roissy CDG	France	Suez, Eau France	Filtralite Clean HC 2.5-5	
2018	Saint Palais	France	SAUR	Filtralite Clean HC 2.5-5	
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Year	Location - City	Location-Country	Client	Solution
2018	Taranto	Italy	Suez	Filtralite Clean HR 3-6
2018	Vallauris	France	Quadrimex	Filtralite Clean HC 2.5-5
2018	VEAS, Oslo	Norway	BMO Entreprenør AS	Filtralite Clean HR 3-6
2017	·	France	Quadrimex AS	Filtralite Clean HR 3-6
2017	Annecy	France	Quadriniex	Filtrante Clean HR 3-0
2017	Haxby Wallbutts stw- Yorkshire	UK	Hydro International Ltd	Filtralite Clean HR 3-6
2017	Jiaxin City	China	ATAL Engineering	Filtralite Clean HC 2.5-5
2017	La Garde	France	Veolia (Compagnie des Eaux et de l'Ozone)	Filtralite Clean HC 2.5-5
2017	VEAS, Oslo	Norway	VEAS	Filtralite Clean HC 2.5-5
2017	Birkenhead	UK	Filtec Water Services	Filtralite Clean HC 2.5-5
2017	Galapagar- Torrelodones	Spain	Canal de Isabel II	Filtralite Clean HR 3-6
2017	Yang Ju	South Korea	SangChung	Filtralite Clean HR 4-8 Filtralite Clean HC 2.5-5
2016	Brokenbury Quarry WWTW	UK	Tecker Ltd	Filtralite Clean HC 2.5-5
2016	Samsung	South Korea	SangChung	Filtralite Clean HC 2.5-5
2016	Samsung	South Korea	SangChung	Filtralite Clean HR 4-8 Filtralite Clean HC 2.5-5
2015	Flag Fen, Isle of Man	UK	Western Carbons Ltd	Filtralite Clean HC 2.5-5
2015	Grenoble II	France	Suez (Degrémont)	1 1101411100 010411 110 210 0
2015	Nigg STW	Scotland	Kelda Water Services	Filtralite Clean HR 4-8
2015	Nigg STW	Scotland	Kelda Water Services	Filtralite Clean HR 3-6
2015	11188 81 11	South Korea	SangChung	Filtralite Clean HC 2.5-5
2014	Annecy	France	Quadrimex	Filtralite Clean HC 2.5-5
2014	Bordeaux	France	Bordeaux Assainissement	Filtralite Clean HR 3-6
2014	Flag Fen, Isle of Man	UK	Western Carbons Ltd	Filtralite Clean HC 2.5-5
2014	Grenoble II	France	Suez (Degrémont)	THE ALL COUNTY OF THE PARTY OF
2014	Yang Ju	South Korea	SangChung	Filtralite Clean HR 4-8 Filtralite Clean HC 2.5-5
2013	Flag Fen, Isle of Man	UK	Filtec Water Services	Filtralite Clean HC 2.5-5
2013	Henriksdal	Sweden	PEAB	Filtralite Clean MC 2.5-4
2013	Le Fontanil – Cornillon	France	Veolia (Compagnie Générale des Eaux)	Filtralite Clean HR 3-6
2013	Odis	Israel	Shoshani & Weinstein	Filtralite Clean HC 2.5-5
2013	Bekkelaget	Norway	Bekkelaget Vann AS	Filtralite Clean MC 2.5-4
2013	Plymouth	UK	AMT Systems	Filtralite Clean HC 2.5-5
2013	Rolle	Switzerland	AIER	Filtralite Clean HR 3-6
2010	Alexandria	Egypt	Suez (Degrémont)	
2010	Algeciras	Spain	VA Tech Wabag	
2010	Alt Maresme	Spain	Suez (Degrémont)	
2010	Cantinolle & Sabare	France	Suez (Lyonnaise des Eau)	
2010	Flag Fen, Isle of Man	UK	AMT Systems	
			Suez (Ondeo Industrial	
2010	Frouard	France	Solutions)	
2010	Henriksdal	Sweden	Stockholm Water	





Year Location - City Location - Country Client Solution 2010 Breil Lebanon Suez (Degrémont) 2010 Karamay China Suez (Degrémont) 2010 Olerdola Spain Air Water Treatment 2010 Ta'barkat Malta Suez (Degrémont) Filtralite Clean HR 4-8 Filtralite Clean HR 4-8 Filtralite Clean HR 2-5-5 2009 El Ferrol Spain ATAL Engineering 2009 Karamany China ATAL Engineering 2009 Southington USA Suez (Degrémont) 2009 Wulmungi China Suez (Degrémont) 2008 Cariño, Galicia Spain Suez (Degrémont) 2008 La Palma Spain Suez (Degrémont) 2007 Bolquere France Suez (Degrémont) 2007 Brolquere France Suez (Degrémont) 2007 Brolquere France Suez (Degrémont) 2007 Pas de la Casa Andorra Suez (Degrémont) 2007	<u> </u>				
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Tabarkat	2010	Karamay	China	Suez (Degrémont)	
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2008 Milan Italy Suez (Degrémont) 2007 Bolquere France Suez (Degrémont) 2007 Bromma Sweden Stockholm Water Filtralite Pure Mono-Multi 2007 Ghisonaccia, Corsica France Suez (Degrémont) Filtralite Clean HR 3-6 2007 Pas de la Casa Andorra Suez (Degrémont) Filtralite Clean HR 3-6 2007 Toulon France Suez (Degrémont) Filtralite Clean HR 3-6 2007 Toulon France Suez (Degrémont) Filtralite Clean HR 3-6 2007 Toulon France Suez (Degrémont) Suez (Degrémont) 2006 Asan City South Korea Samsung 2006 Briga Noverese Italy Technocos 2006 Briga Noverese Italy Technocos 2006 Briga Noverese Italy Technocos 2006 Guiyang China Atal Engineering 2006 Liverpool UK AMT Systems 2006 Liverpool	2008		-	Suez (Degrémont)	
2007 Bolquere France Suez (Degrémont) 2007 Bromma Sweden Stockholm Water Filtralite Pure Mono-Multi 2007 Ghisonaccia, Corsica France Suez (Degrémont) Filtralite Clean HR 3-6 2007 Pas de la Casa Andorra Suez (Degrémont) Filtralite Clean HR 3-6 2007 Toulon France Suez (Degrémont) 2006 Asan City South Korea Samsung 2006 Briga Noverese Italy Technecos 2006 Briga Noverese Italy Technecos 2006 Guiyang China Atal Engineering 2006 Liverpool UK AMT Systems 2006 Valras France Suez (Degrémont) 2006 Vicenza Italy ETRA Spa 2005 Gorliz Spain Suez (Degrémont) 2005 Grenoble France Suez (Degrémont) 2005 Hwa Sung South Korea Samsung 2005 Hwa Sung G	2008		*	`	
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2007XiamenChinaSuez (Degrémont)2006Asan CitySouth KoreaSamsung2006Binghamton-JohnsonUSASuez (Degrémont)2006Briga NovereseItalyTechnecos2006Dong BuSouth KoreaSuez (Degrémont)2006GuiyangChinaAtal Engineering2006LiverpoolUKAMT Systems2006ValrasFranceSuez (Degrémont)2005VicenzaItalyETRA Spa2005GorlizSpainSuez (Degrémont)2005GrenobleFranceSuez (Degrémont)2005Hwa SungSouth KoreaSamsung2005Hwa SungSouth KoreaSamsung2005Jung AngSouth KoreaSuez (Degrémont)2005SicillyItalyPridesa2005ValparaisoChileSuez (Degrémont)2005Yang JuSouth KoreaSuez (Degrémont)2005Yang JuSouth KoreaSuez (Degrémont)2005Yang JuSouth KoreaSuez (Degrémont)2004Asan CitySouth KoreaSamsung2004Asan CitySouth KoreaSamsung2004CheonanSouth KoreaSamsung2004PordeauxFranceVA Tech Wabag2004PilmouthUKAMT Systems2004PilmouthUKAMT Systems2004VillefrancheFranceSuez (Degrémont)2004Villefranche </td <td></td> <td></td> <td></td> <td>, , ,</td> <td>Thumbe Clean The 3 0</td>				, , ,	Thumbe Clean The 3 0
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2006 Binghamton-Johnson USA Suez (Degrémont) 2006 Briga Noverese Italy Technecos 2006 Dong Bu South Korea Suez (Degrémont) 2006 Cuiyang China Atal Engineering 2006 Liverpool UK AMT Systems 2006 Valras France Suez (Degrémont) 2006 Vicenza Italy ETRA Spa 2005 Gorliz Spain Suez (Degrémont) 2005 Gorliz Spain Suez (Degrémont) 2005 Grenoble France Suez (Degrémont) 2005 Hwa Sung South Korea Samsung 2005 Hwa Sung G South Korea Suez (Degrémont) 2005 Jung Ang South Korea Suez (Degrémont) 2005 Jung Ang South Korea Suez (Degrémont) 2005 Valparaiso Chile Suez (Degrémont) 2005 Valparaiso Chile Suez (Degrémont) 2005 Yang				`	
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2004West WarwickUSASuez (Degrémont)2003Almada-LisboaPortugalSuez (Ondeo Degrémont)	2004	Thunder Bay	Canada	Suez (Degrémont)	
2003 Almada-Lisboa Portugal Suez (Ondeo Degrémont)	2004	Villefranche	France	Suez (Degrémont)	
	2004	West Warwick	USA	Suez (Degrémont)	
2003 Almoradi Spain Suez (Ondeo Degrémont)	2003	Almada-Lisboa	Portugal	Suez (Ondeo Degrémont)	
	2003	Almoradi	Spain	Suez (Ondeo Degrémont)	





Wastewater				
Year	Location - City	Location-Country	Client	Solution
2003	Brest	France	Suez (Degrémont)	
2003	Chamonix	France	VA Tech Wabag	
2003	Cheonan	South Korea	Samsung	
2002	Asan City	South Korea	Samsung	
2002	Beaufortain	France	Suez (Ondeo Degrémont)	
2002	Casbega, Madrid	Spain	Suez (Ondeo Degrémont)	
2002	Fuerteventura	Spain	Suez (Ondeo Degrémont)	
2002	Langford	UK	Suez (Ondeo Degrémont)	
2002	Marbella	France	Suez (Ondeo Degrémont)	
2002	Meadowhead	UK	Suez (Ondeo Degrémont)	
2002	Sandown	UK	Suez (Ondeo Degrémont)	
2002	Thunder Bay	Canada	Suez (Ondeo Degrémont)	
2001	Aberdeen	UK	Kvaerner Water	
2001	Agde	France	Veolia (OTV)	
2001	Asan City	South Korea	Samsung	
2001	Bardonecchia	Italy	GEA Spa	
2001	Crewkerne	UK	Suez (Ondeo Degrémont)	
	Galapagar-			Filtralite Clean HR 3-6
2001	Torrelodones	Spain	Suez (Degrémont)	Filtralite Clean HC 2.5-5
2001	Göd City	Hungary	Samsung	
2001	Peniche	Portugal	Suez (Degrémont)	
2001	Torbay	UK	Suez (Degrémont)	
2000	Bad Segeberg	Germany	VA Tech Wabag	Filtralite Clean MC
2000	Corsica	France	Veolia (OTV)	
2000	Dalian	China	Suez (Degrémont)	Filtralite Clean HR 3-6 Filtralite Clean HC 2.5-5
2000	Fabelta	Belgium	Suez (Degrémont)	
2000	J-City	South Korea	Samsung	
2000	Martinique	France	Suez (Degrémont)	
2000	Megeve	France	Suez (Degrémont)	
2000	Novoros	Russia	Suez (Degrémont)	
2000	SDI	South Korea	Samsung	
2000	Sesimbra	Portugal	Suez (Degrémont)	
2000	Siade Thouars	France	Suez (Degrémont)	
1999	Åland	Finland	Suez (Degrémont)	
1999	Budapest	Hungary	Suez (Degrémont)	
1999	Grenoble	France	Suez (Société Dauphinoise d'Assainissement)	
1999	Ibiza	Spain	Suez (Degrémont)	
1999	Knonau	Switzerland	Suez (Degrémont)	
1999	Millenium Dome, London	UK	Paterson Candy	
1999	Roche	Switzerland	Suez (Degrémont)	
1999	Saint Aubin	France	Suez (Degrémont)	
1999	Thalheim	Germany	Suez (Degrémont)	
1999	Tönning	Germany	Farmatic GmbH	
1999	Zarautz	Spain	Sipag	





Year	Location - City	Location-Country	Client	Solution
1998	Almoradi	Spain	Pridesa	
1998	Herisau	Switzerland	CTU	
1998	Los Angeles	USA	Suez (Degrémont)	
1998	Oulu	Finland	Suez (Degrémont)	
1998	Silchester	UK	Thames Water	
1998	Vlotho	Germany	Suez (Degrémont)	
1998	Walbutt, Yorkshire	UK	Kvaerner Water	
1997	Ahlen	Germany	Suez (Degrémont)	
1997	Annemasse	France	Suez (Degrémont)	
1997	Colombes, Paris	France	Suez (Degrémont)	
1997	Fribourg	Switzerland	Suez (Degrémont)	
1997	Poray	Poland	GTP, H.Henriksen	
1997	Stockholm	Sweden	MRAB	Filtralite Clean MC
1996	Annecy	France	Suez (Degrémont)	
1995	Rostock	Germany	Suez (Degrémont)	
1994	VEAS, Oslo	Norway	Suez (Degrémont)	Filtralite Clean HR 3-6 Filtralite Clean HC 2.5-5

Almousa Trading Copmany Certificates :

- Company registration (CR)
- VAT registration
- Zakat certificate
- General Organization for Social Insurance (GOSI)
- Saudization certificate

الرمم (۱۰۱۰۳۸۹۱۱ هـ التاريخ (۱۰۱۲/۱۷۶۱۱ هـ





in a manifestal form of the many states.	الدسم النجاري للشركة شركة الموسى للتجارة	لرقم الموجد للمنشأة
. جنسينها:عودی		وعها ذات معتولية محدودة
ننتهم شي ۱۰۶۱/۰۸/۰۸ 🛋	من ۱۱۱۲/۰۷/۲۱ من	يدة الشرقة - ٩٩ سنة
		بركرها الرئيسيس ا الرياض هي الورود
		ص ب ۲۹۲۰۰ الزمر البريدي ۱۳۲۱۷
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AL mousa trading company

Your commercial recoeds code (QR Code)

Through it you can directly check information of:

- The Commercial record
- MOMRA Certificate
- Saudization Certificate
- Zakat / Tax Certificate
- Chamber of commerce membership
- Nitagat program



Commercial Registry: 1010689416



Company Registration Certificate

شهادة تسجيل الشركة

National Unified No:

Date: 1442/07/11 2021/02/23 1010689416 7021603571

Company's Trade Name: AL mousa trading company	
	Company's nationality: Saudi Arabia
Starting from: 14	1442/07/24 2021/03/08 Ending in: 1544/08/08 H 2120/03/08
nay al-warroud	
Telephone: 0111111111 Postal Code: 13217	P.O Box: 24320
w the CR activities	
Total Capital 100,000 Saudi Riyals	
Managers: 1 ABDULKARIM ABDULLAH N ALMOSA	2 NASER ABDULLAH N ALMOUSA
8	4
2	9
7	8
6	10
	12
13	14
15	16
Manager / Managers Authorities: As stipulated in the company's contract	
The Commercial registration department of city acknowledge: Riyadh	That this company has been registered in the registry of city: Riyadh
This commercial registration will be valid: 1448/07/23 H 2027/01/01 By the ticket No:	at No. 105804314 And Date: 1443/08/12 2022/03/15





CERTIFICATE OF REGISTRATION

This is to certify that

AL MOUSA TRADING COMPANY

Imam Ali bin Abi Talib Road, Al-Malaz Area, Jarir District, Riyadh, Kingdom of Saudi Arabia.

has implemented a

Quality Management Systems

which has been assessed for conformance with

ISO 9001:2015

and has been found to be in compliance.

Scope of Registration:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

EA CODE: 29

Certificate No: TCI-Q-601-24 Issued: 22/08/2024

Valid through 1st Surveillance: 22/08/2025 Certified since: 22/08/2024

This certificate is the property of The Certification International and remains valid until Aug. 2027,21, subject to timely and successful completion of surveillance audits as indicated above. To verify certification status: https://tciglobe.com/data/













www.tciglobe.com . info@tciglobe.com
Critical office: (21, 23) Khaled Ibn Al-Walid Street - Sidi Bishr Bahary - Montazah
Alexandria Governorate - Egypt.

Head office: 119 CAMINO DE LAS COLINAS REDONDO BEACH, CA,90277, USA

Issue Date : 01/11/2023, Rev.:00





CERTIFICATE OF REGISTRATION

This is to certify that

AL MOUSA TRADING COMPANY

Imam Ali bin Abi Talib Road, Al-Malaz Area, Jarir District, Riyadh, Kingdom of Saudi Arabia.

has implemented a

Environmental Management Systems

which has been assessed for conformance with

ISO 14001:2015

and has been found to be in compliance.

Scope of Registration:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

EA CODE: 29

Certificate No: TCI-E-602-24

Issued: 22/08/2024 Valid through 1st Surveillance: 22/08/2025

Valid through 1st Surveillance: 22/08/2025 Certified since: 22/08/2024

This certificate is the property of The Certification International and remains valid until Aug. 2027,21, subject to timely and successful completion of surveillance audits as indicated above. To verify certification status: https://tciglobe.com/data/













www.tciglobe.com . info@tciglobe.com
Critical office: (21, 23) Khaled Ibn Al-Walid Street - Sidi Bishr Bahary - Montazah
Alexandria Governorate - Egypt.

Head office: 119 CAMINO DE LAS COLINAS REDONDO BEACH, CA,90277, USA

Issue Date: 01/11/2023, Rev.:00





CERTIFICATE OF REGISTRATION

This is to certify that

AL MOUSA TRADING COMPANY

Imam Ali bin Abi Talib Road, Al-Malaz Area, Jarir District, Riyadh, Kingdom of Saudi Arabia.

has implemented a

Occupational Health & Safety Management Systems

which has been assessed for conformance with

ISO 45001:2018

and has been found to be in compliance.

Scope of Registration:

Pumping Solutions, Valves, Fittings, Cables, Fans and Mechanical.

EA CODE: 29

Certificate No: TCI-O-603-24

Issued: 22/08/2024
Valid through 1st Surveillance: 22/08/2025

Valid through 1st Surveillance: 22/08/2025 Certified since: 22/08/2024

This certificate is the property of The Certification International and remains valid until Aug. 2027,21, subject to timely and successful completion of surveillance audits as indicated above. To verify certification status: https://tciglobe.com/data/













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Alexandria Governorate - Egypt.

Head office: 119 CAMINO DE LAS COLINAS REDONDO BEACH ,CA,90277, USA

Issue Date: 01/11/2023, Rev.:00



رقم الإثبات 1021877003 **Proof Number** 10/8/2022 Original Date تاريخ الإصدار تاريخ الانتهاء **Expiration Date** 2/6/2023



إثبات عنوان **Address Proof**

Address Holder Details بيانات صاحب العنوان شركة الموسى للتجارة Name الاسم 3 Customer Acc. 3 2 8 رقم الحساب 2 5 0 8 10/3/2021 Reg. Date تاريخ التسجيـل **Address Details** تفاصيل العنوان Short Address العنوان المختصر Н R K 8 7 8 Α 1 Building No. Street الشارع رقم المبنى الطريق الدائري الشرقي 1 7 8 8 1 Eastern Ring Rd الحي الرقم الفرعي Secondary No. District حي الملك عبدالله 5 2 4 3 2 King Abdullah Dist. 5 3 Postal Code الرمزي البريدي 1 2 4 2 4 1 2 4 2 4 City RIYADH الرياض المملكة العربية السعودية Kingdom of Saudi Arabia للتحقق To Verify https://proof.address.gov.sa/VerifyProofNA.aspx

تم إصدار هذا الإثبات إلكترونيا ولا يتطلب التوقيع عليه

تم إصدار هذا الإثبات بناء على طلب الموضح أعلاه، ويحظر قطعيا تقليده أو إدخال أي تعديلات عليه سواء بالإضافة أو الحذف، ويعد الإثبات لاغيا إذا شابه شيء مَن ذلك، حُمَا يعرض صاحية للمساءلةالقانونية..

This proof has been issued electronically and does not require a signature

This proof has been issued upon the request of the above-named, and it is absolutely prohibited to imitate it or make any modifications to it, whether by addition or deletion, and the proof is considered void if it is marred by something, and its owner is subject to legal accountability.







التاريــــخ: 29/12/2024

الموافــــق: 1446/06/28

رمز الشهادة: 88063301

شهادة

اسم المنشأة	شركة الموسى للتجارة		
اسم صاحب العمل	605598978		
رقم الاشتراك	7,009,097	رقم السجل التجاري	1.13672.1.1
العنوان	الرياض السعودية 424	12	

المجموع	عدد المشتركين غير السعوديين	عدد المشتركين السعوديين	
115	67	48	رقما
مائة و خمسة عشره مشتركا	سبعة و ستون مشتركا	ثمانیة و اربعون مشترکا	كتابة

تشهد المؤسسة العامة للتأمينات الاجتماعية بأن المنشأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسسة وفق البيانات المقدمة منها حتى تاريخ اصدار هذه الشهادة، والتي تم منحها لتقديمه لأية جهة تطلبها، وهي صالحة لجميع الأغراض التي نص عليها نظام التأمينات الاجتماعية في المادة (١٩/٦) منه.

هذه الشهادة سارية المفعول حتى 1446/07/27 هـ.

عام Public عام الشهادة معتمدة من صاحب الصلاحية ولا تحتاج لتوقيع أو ختم



تحقق من صحة وصلاحية الشهادة عبر زيارة الرابط أدناه في الموقع الالكتروني للمؤسسة العامة للتأمينات الاجتماعية او عن طريق استخدام الرمز المعرف التالي

تعد هذه الشهادة من الوئــائق الالكترونية الحــكومية الرســمية ويحظر قطيعاً تقليدها أو إدخال أي تعديلات عليها سواء بالإضـافة أو الحذف أو التغيير في بياناتها أو غير ذلك من أنواع التــعديل. وتعد الشهادة لاغية إذا شابها شي من ذلك. كما تعرض صاحبها للملاحقة النظامية أمام الجهات المختصة بالإضافة إلى ما يفرضه نظام التأمينات العرب على البيانات الواردة فيها. إلا في الأغراض التي أصدرت لأجلها وفقاً لأحكام نظام التأمينات الاجتماعية. والمؤسسة العامة للتأمينات الاجتماعية غير مسؤولة عن أي عملية تزوير أو تعديل تتم على البيانات الواردة فيها.





التاريخ ٢٤٤٦/٠٣/١٦ الموافق ٤٢٠٩/١٩/١ رمز الشهادة ٤٣٤٨٨٩٢٤

شهادة

إسم المنشأة: شركة الموسى للتجارة

الرياض السىعودية

رقم الإشتراك : ۲۰۵۹۸۹۷۸ رقم السجل التجاري: ۱۰۱۰۶۸۹٤۱٦

كتابة	رقما	100000000000000000000000000000000000000
خمسة و اربعون مشتركا	٤٥	عدد المشتركين السعوديين
ستون مشتركا		عدد المشتركين غير السعوديين
مائة و خمسة مشتركا	1.0	المجموع

تشهد المؤسسة العامة للتأمينات الإجتماعية بأن المنشأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسسة وفق البيانات المقدمة منها حتى تاريخ إصدار هذه الشهادة ، والتي تم منحها لتقديمها لأية جهة تطلبها ، وهي صالحة لجميع الأغراض التي نص عليها نظام التأمينات الإجتماعية في المادة (١٩/٦) منه.

هذه الشهادة سارية المفعول حتى ١٤٤٦/٠٤/١ هـ.

يلزم التحقق من صحة وصلاحية الشهادة عبر زيارة الرابط أدناه في الموقع الإلكتروني للمؤسسة العامة للتأمينات الإجتماعية

و عن طريق استخدام الرمز المعرف التالي:



www.gosi.gov.sa/vc

(الشهادة معتمدة من صاحب الصلاحية ولا تحتاج إلى توقيع أو ختم)





تعد هذه الشهادة من الوثائق الالكترونية الحكومية الرسمية ، ويحظر قطعيا تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف أو التغيير في بياناتها أو غير ذلك من انواع التعديل ، وتعد الشهادة لاغية إذا شابها شيء من ذلك ، كما تعرض صاحبها للملاحقة النظامية أمام الجهات المختصة بالإضافة إلى مايفرضه نظام التأمينات الاجتماعية من عقوبات ، ولايجوز تداول الشهادة إلا في الأغراض التي أصدرت لأجلها وفقا لأحكام نظام التأمينات الاجتماعية ، والمؤسسة العامة للتأمينات الاجتماعية غير مسؤوله عن أي آثار أخرى مترتبة قبل الغير عن الشهادة وغير مسؤولة عن أي عملية تزوير أو تعديل تتم على البيانات الواردة فيها .





شهادة اشتراك Membership Certificate



رقم العضوية الموحد : 622805 622805 622805 و العضوية الموحد :

تاريخ الاصدار: 23/02/2021 2021/02/23 2021/02/23

تشهد الغرفة التحارية الصناعية بالرياض بأن

شركة الموسى للتجارة

مقيدة بالسجل التجاري / الترخيص رقم : 1010689416 1010689416 1010689416 مقيدة بالسجل التجاري / الترخيص رقم :

ينتهي سريان هذه الشهادة في 2027/01/01 2027 Certificate Expires on



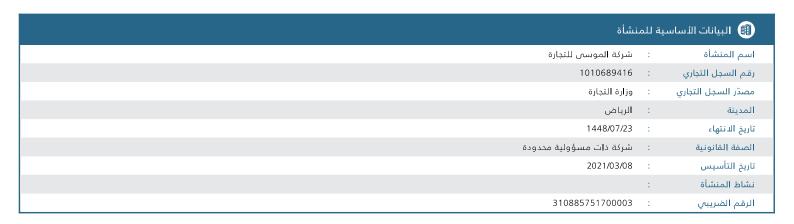
- يلزم التحقق من الوثيقة عبر الرابط https://mybusiness.chamber.sa ، أو تطبيق (سند)
 للأجهزة المحمولة أو الرقم الموحد دون ادنى مسؤولية على الغرفة عن محتوى الوثيقة.
- تعد هذه الورقة من الوثائق الالكترونية لغرفة الرياض، ويمنع تعديلها اول محاولة العبث بها
 وتصبح لاغية حال محاولة تعديلها وتعرض صاحبها للملاحقة القانونية.

التقرير الائتماني الموجز



 $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ الصفحة 1 الصفحة من 2

الثلاثاء 2023/07/25 م 01:54 م

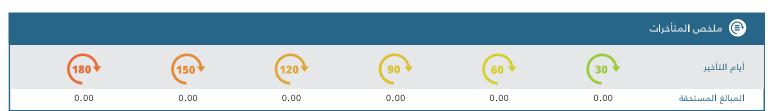




ممول لا توجد بیانات غیر ممول لا توجد بیانات

ीं ملخص التسهيلات - المستوى الأول (000) لا توجد بيانات

★ ملخص التسهيلات - المستوى الثاني (000)
لا توجد بيانات



المنتجات الائتمانية الدائنة − المستوى الأول (000) لا توجد بيانات

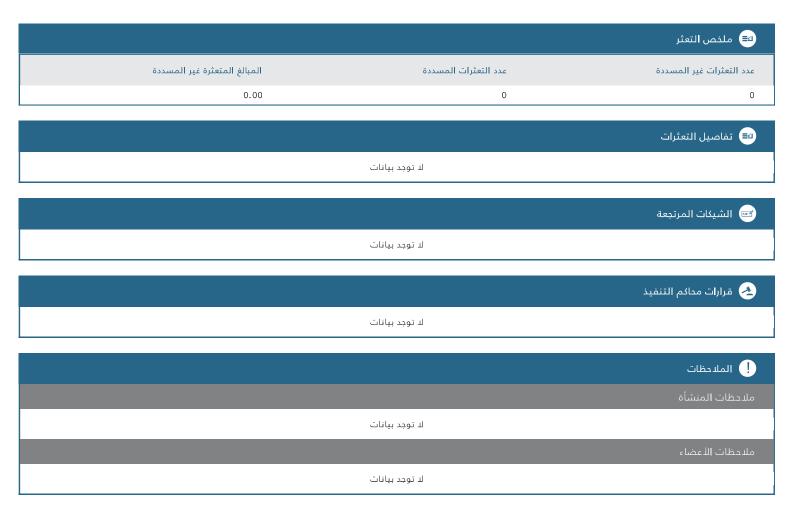


التقرير الائتماني الموجز



الثلاثاء 2023/07/25 م 01:54 م





المسؤولية القانونية والإفصاح 🅏

المسؤولية الفانونية: تم جمع هذه المعلومات من مصادر مختلفة على أساس السرية والخصوصية. لا يمثل رأي الشركة السعودية للمعلومات الائتمانية (سمة) ولا يترتب عليه أي مسؤولية قانونية تجاه سمة نتيجة اتخاذ أي استثمار أو أي قرار آخر بناءً على المعلومات الواردة.

الإفصاح: سمة، شركة مساهمة مقفلة، رأس مال 200.000.000 ريال مدفوع بالكامل، رقم السجل التجاري 1010171047، عضوية رقم 115731، الهاتف المجاني: 8003010046، رقم الفاكس: 966112188797 ص.ب. 8559 الرياض 11492، العنوان الوطنى: الرياض-حي الشهداء مبنى رقم: 2596، رقم الوحدة:1، الرقم الإضافي:7347، الرمز البريدي:13241. خاضعة لإشراف ورقابة البنك المركزي السعودي بموجب قرار الترخيص رقم 2/ 37 www.simah.com.

V.30 جميع الحقوق محفوظة لسمة.





شهادة الإلتزام بحماية الأجور

تاريخ انتهاء الصلاحية **29/01/2025** تاريخ الإصدار **29/12/2024** رقم الشهادة **134762-29032174**

حالة الشهادة	💸 تم التحقق
اسم المنشأة	شركة الموسى للتجارة
رقم المنشأة	1-2237589
رقم السجل التجاري	1010689416
الرقم الوطني الموحد	7021603571



The Ministry of Human Resources and Social Development certifies that the above mentioned Establishment has achieved the required Wage Protection rate and has been granted this certificate upon request.

The certificate is electronically generated and approved by the authority. It does not require any signature or stamp.

Please note, this certificate does not guarantee that no Notes will not be applied to this establishment.

تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسبة الإلتزام بحماية الأجور المطلوبة وتم منحها هذه الشهادة بناء عن طلبها.

> الشهادة تم إنشاؤها إلكترونياً ومعتمدة من الجهة المختصة ولا تحتاج الى ختم او توقيع

يرجى الملاحظة أن هذه الشهادة لا تعفي عدم تطبيق نظام الملاحظات على هذه المنشأة









الهيثة العليا للأمن الصناعي الأمانة العامة إدارة التراخيص الأمنية المركزية

شد ح حق۷۷۷ آ۹۷۸ أ۹۹

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								דד	ζŁ	٦

اح د نا حد شه مشهر خد د احد شه

أمين عام الهيئة العليا للأمن الصناعمي

المثالة المالة ا



عقيد مهندس /عنال بن زايد العتيبي





شهادة التوطين

تاريخ انتهاء الصلاحية **29/03/2025** تاريخ الإصدار **16/04/2024** رقم الشهادة **158955-10891774**

تاريخ التجديد/التحديث	29/12/2024
حالة الشهادة	تم التحقق
اسم المنشأة	شركة الموسى للتجارة
رقم المنشأة	1-2237589
رقم السجل التجاري	1010689416
الرقم الوطني الموحد	7021603571
مستوى نطاقات	اخضر متوسط
معدل التوطين	% 40



The Ministry of Human Resources and Social Development certifies that the above mentioned Establishment has achieved the required Nationalization rate and has been granted this certificate upon request.

The certificate is electronically generated and approved by the authority. It does not require any signature or stamp.

تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسبة التوطين المطلوبة وتم منحها هذه الشهادة بناء عن طلبها.

الشهادة تم إنشاؤها إلكترونياً ومعتمدة من الجهة المختصة ولا تحتاج الى ختم او توقيع





تاريخ الإصدار: 2021/03/11 الرقم المميز: 3108857517





شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ 2021/03/10

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is VAT registered on 10/03/2021

اسم المكلف: شركة الموسى للتجارة Taxpayer Name:

رقم التسجيل الضريبي: 310885751700003 رقم التسجيل الضريبي:

تاريخ نفاذ التسجيل: 2021/04/01 تاريخ نفاذ التسجيل: Effective Registration Date:

عنوان المكلف: الرياض،الم<mark>لك</mark> عبدا،الطريق ا<mark>لدائري الش</mark>رقى ،12424 الرياض،الم<mark>لك</mark> عبدا،الطريق الحائري الشرقى ،12424



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

> هذه الوثيقة مرسلة من النظام الألي ولا تحتاج إلى توقيع - الميئة العامة للزكاة والدخل -



تاريخ الإصدار: 2021/03/11 الرقم المميز: 3108857517





اسم المكلف: شركة الموسى للتجارة تعديد تعديد الموسى التجارة تعديد الموسى التجارة تعديد الموسى المكلف:

رقم السجل/الرخصة/العقد: 1010689416 1010689416 cR / License / Contract No.:

Tax Period: Quarterly-ربع سنوي ربع سنوي

تاریخ استحقاق أول إقرار ضریبی: 2021/07/31 ولين إقرار ضریبی: First Filing due date:





كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

> هذه الوثيقة مرسلة من النظام الألي ولا تحتاج إلى توقيع – الميئة العامة للزكاة والدخل –







شهادة المحتوى المحلي Local content certification

The Local Content & Government Procurement Authority certifies that the Local Content Score for [Al Mousa Trading Company] Commercial Registration No.(1010689416) for the year ended 31/12/2023, is 10.77%.

This certificate expires on 31/07/2025.

Note:

This certificate was issued according to the procedures followed by the Authority and based on the disclosure submitted by the entity and the report issued by the approved audit firm, without holding LCGPA minimally responsible.

This certificate is sent via electronic mail / automated system and it does not require a signature.

تشهد هيئة المحتوى المحلي والمشتريات الحكومية أن نسبة المحتوى المحلي لـ [شركة الموسى للتجارة] سجـــل تجـــاري رقــم (1010689416)، للسنــة الماليــة المنتهيــة بتاريــخ 2023/12/31م، تبلغ 10.77%.

تنتهى صلاحية هذه الشهادة في 2025/07/31م.

تنویه:

تم إصدار هذه الشهادة بحسب الإجراءات المتبعة لدى الهيئة بناء على الإفصاح المقدم من المنشأة و التقرير الصادر من مكتب المراجعة المعتمد، دون أدنى مسؤولية على الهيئة.

هذه الوثيقة مرسلة عبر البريد الإلكتروني/ النظام الآلي ولا تحتاج إلى توقيع.



رقم شهادة: 24316156957

صلاحية الشهادة: سنة من تاريخ الإصدار * تاريخ الإصدار: 2024-09-19

الرقم الوطني: 7021603571

اسم المنشأه: شركة الموسى للتجارة

السجل التجارى: 1010689416



تشهد الهيئة العامة للمنشآت الصغيرة والمتوسطة "منشآت" بأن المنشأة المذكورة أعلاه تندرج من ضمن المنشآت الصغيرة والمتوسطة وفقًا للتعريف المعتمد لدى "منشآت"

يتم التحقق من الشهادة من خلال موقع منشآت

https://profile.monshaat.gov.sa/validate

تعد هذه الشهادة من الوثائق الحكومية الرسمية، ولا يجوز تداولها أو استعمالها إلا في حدود الأغراض التي أصدرت لأجلها، ويحظر قطعياً تقليدها أو إدخال أي تعديلات عليها سواء بالإضافة أو الحذف أو التغيير في بياناتها أو غير ذلك من أنواع التعديل، وتعد هذه الشهادة لاغية إذا شابها شيء من ذلك، كما تعرض من ارتكب ايً مما سبق إلى الملاحقة النظامية أمام الجهات المختصة دون الإخلال بما تنص عليه الأنظمة ذات العلاقة.

* يجب التحقق من خلال رابط موقع منشآت عن صلاحية الشهادة حيث أنه يتم التحديث بشكل دوري



TIN

Certificate No.

Issue Date

71.4VOV01A

الرقم المميز

1.77191750 ۹۰/۱۰/۰۹ هـ

رقم الشهادة تاريخ الاشعار



المملكة العربية السعودية Kingdom of Saudi Arabia

شهادة Certificate

The Zakat, Tax and Customs

Contract No

Authority certifies that the Taxpayer

تشهد هيئة الزكاة والضريبة والجمارك أن المكلف /

الرقم الموحد للمنشأة / رقم هوية **Entity Unified No./ID No.** V • (17 • POVI **Commercial Registration/License/** 1.1.174611 سجل تجارى / رخصة / عقد رقم

شركة الموسى للتجارة

Has submitted his tax return for the period ending on 31/12/2023 AD, and he was granted the certificate to complete all his transactions including the payment of the final amount due on the contract.

The Certificate is valid until 02/11/1446 AH corresponding to 30/04/2025 ΔD

(The second of Dhu al-Qi'dah one thousand four hundred forty-six Hijri)

قدم إقراره عن الفترة المنتهية في ١٤٤٥/٠٦/١٨ هـ، وقد منح هذه الشهادة لإنهاء جميع معاملاته بما في ذلك صرف مستحقاته النهائية عن العقود.

يسرى مفعول هذه الشهادة حتى تاريخ ١٤٤٦/١١/٠٢ هـ الموافق ٥١٠١٥/٠٤/٣٠

(الثانى من ذو القعدة ألف و أربعمائة و ستة و أربعون هجرى)

لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة الالكترونى: www.zatca.gov.sa

This certificate is not valid until verified by the Authority's Website; www.zatca.gov.sa



@zatca_sa



TIN
Certificate No.

Issue Date

71 · ΛΛΟVΟ1V

الرقم المميز

۱۰۲۲۱۹۱٦۳٥

رقم الشهادة تاريخ الاشعار



المملكة العربية السعودية Kingdom of Saudi Arabia

قائمة فروع المكلف List of Taxpayer Branches

المدينة	إسم الفرع	رقم سجل تجاري /رخصة /عقد
City	Branch Name	CR/License/Contact Number
جدة Jeddah	شركة الموسى للتجارة	8·W·81·W·V





التاريخ: 1445/01/07 م الموافق: 2023/07/25 م

شهادة تقرير قطاع الأعمال

إن التقرير الائتماني التجاري شركة الموسى للتجارة والموضح بياناتها أدناه، والذي تم إصداره بناءً على المعلومات والبيانات المتوفرة لدى الشركة السعودية للمعلومات الائتمانية (سمة)، وذلك حتى تاريخ 2023/07/25م يوضح الموقف الحالي للإلتزامات على السجل التجاري/الترخيص رقم (1010689416). كما أن الشركة تقر بأن كافة المعلومات والبيانات الواردة في هذه الشهادة والموضحة أدناه صحيحة وكاملة ومحدثة، ما لم يتم الاعتراض عليها خلال عشرة أيام عمل من إصدار التقرير.

* مبالغ **ا**لتسهيلات (000)

التسهيلات الائتمانية	مقرر	قائم
ـــــــــــــــــــــــــــــــــــــ	0.00	0.00
قروض وسلف	0.00	0.00
أخرى	0.00	0.00
المجموع	0.00	0.00

قائم	مقرر	الحسابات التي لها مقابل
0.00	0.00	خطابات ضمان
0.00	0.00	اعتمادات
0.00	0.00	أخرى
0.00	0.00	المجموع

الإجمالي				
القائم	اجمالي التسهيلات المقررة	إجمالي مبالغ الشيكات المرتجعة	عدد الشيكات المرتجعة	
0.00	0.00	0.00	0	

عثرة	المت
إجمالي المبالغ المتعثرة	عدد الجهات المقرضة
0.00	0

^{*} تم تجميع المعلومات من مصادر مختلفة و هب لا تمثل رأي الشركة السعودية للمعلومات الائتمانية (سمة) دون أدني مسؤولية على الشركة.



SAUDI CONT BURGE

سويد الزهراني

الشركة السعودية للمعلومات الائتمانية (سمة) Saudi Credit Bureau (SIMAH)

شركة مساهمة مقفلة، رأس مال 200،000،000 ريال مدفوع بالكامل، رقم السجل التجاري 1010171047 عضوية رقم 115731 الهاتف المجانى: 88003010046، رقم الفاكس: +966112188797 ص.ب. 8859 الرياض 11492 العنوان الوطنى: الرياض-حي الشهداء مبنى رقم: 2596، رقم الوحدة:1، الرقم الإضافي:7347، الرمز البريدي:13241 خاضعة لإشراف ورقابة البنك المركزي السعودي بموجب قرار الترخيص رقم 2/ 37

Capital SR 200,000,000 Paid in Full, C.R 1010171047, Membership No.115731

Toll Free No: 8003010046 , Fax No. +966112188797 P.O Box 8859 Riyadh 11492

National Address: Riyadh, Al Shuhada, Building No. 2596, Unit No. 1, Additional No. 7347, Zip Code 13241

Under the Supervision and Regulation of SAMA with a License No. 2 / 37