



YOU WON'T SEE THE DIFFERENCE. YOU WILL EXPERIENCE IT.

Choose ABS and you will get much more than just the right pump. In a world where time is money, fast dewatering of a worksite is crucial. We can help you plan for efficient dewatering, in virtually any situation – construction sites, tunnels, mines, shipyards and dry docks.

At ABS, our interest in dewatering runs deep, but we do realize that for many users the main concern is for the water to go away - the sooner, the better. Let us worry about flow rates, pump selection, energy consumption and other specs. We will provide you with the best and most efficient solution.

More than 40 years of technical and real-world experience, has resulted in a complete range of dewatering pumps both submersible and engine driven. Changing needs over the project duration can make financing of a dewatering project a real challenge.

At ABS we offer pump solutions that include purchase, rental and service.

By making use of our extensive network of service centres and partners, problems can be resolved quickly and efficiently without disruptions to your schedules.





OIIDALE DOING	DRAINAGE J SERIES	
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Suitable for water, dirty water mixed with soil Plug in start with built in motor protection Light weight aluminium design



ABS SUBMERSIBLE SLUDGE JS SERIES......8

Suitable for sludge, water mixed with solids Plug in start with built in motor protection Light weight aluminium/nodular cast iron design



ABS SUBMERSIBLE SLUDGE JT SERIES10

Suitable for sludge, water mixed with solids Portable pump with handle, stand and discharge connection Vortex hydraulic pump in cast iron



ABS DIAPHRAGM PUMP.....

Suitable for muddy water and sludge with solids Low head and low flow application Self priming capability



PUMP OPTIONS AND ACCESSORIES14

TELL US YOUR NEED. WE PROVIDE THE SOLUTION.

- What you are pumping
- Requested flow
- Site conditions
- Time schedules
- Availability and logistics
- Need for emergency or back-up service
- Suitable mix of rent & buy
- Project planning
- Purchase, rental or leasing

ABS SUBMERSIBLE DRAINAGE J SERIES

ABS submersible drainage pump J 5 - 604 and JC 24 - 84 are suitable for pumping water and dirty water mixed with soil. When delivered to a site you can start using them right away. The low weight and compact design vouches for convenient transport, handling and installation. Just plug and pump!

1 Easy start

- plug-in without worrying about overheating

Built-in contactor connected to the thermal sensors in the stator windings protects the motor from overheating and features an automatic restart function.

2 Wear resistance

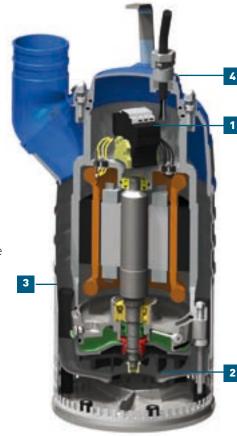
- one investment, years of cost efficient pumping

Impeller in high chrome alloy steel with full upper shroud and adjustable wear parts in oil resistant nitrile rubber secure a long lifetime and high efficiency.

3 Reliable operation

- minimizes time for maintenance

Double outer casing and good heat convection enables pump to operate continuously at low levels or even run dry without damaging the motor.



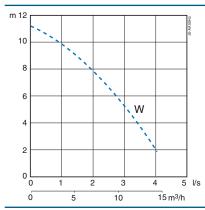
First class materials like outer casing in stainless steel, cast parts in lightweight aluminium alloy, mechanical shaft seals in silicon carbide grant a pump you can rely on.

4 Serviceability

- save time and money by easy onsite service

Due to modular design, the same parts can be used for different pumps, which lowers overall service costs. By removing the top cover of the pump you can easily check the electrical junction box.

For protection the motor is separately sealed from the junction box. Environmentally safe white oil is used in the oil casing for easy inspection of seal conditions. For J205 and J405 service is made even easier due to a mechanical seal cartridge.



ABS J 5 W

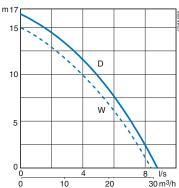
J 5 W 1-phase 0.48 kW Motor rating P_2 Power input P₁ max 0.59 kW

Discharge connections Hose 2" Thread BSP 2"

Weight (excl. cable) 9.5 kg Motor protection built in

Electric cable 10 m H07RN-F





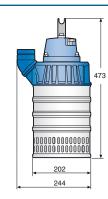
ABS J 12

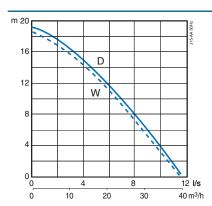
J 12 W/J 12 WKS* 1-phase J 12 D/J 12 DKS* 3-phase

1.0 kW (3-phase) Motor rating P2 0.9 kW (1-phase) 1.3 kW (3-phase) Power input P₁ max 1.2 kW (1-phase) Hose 1½", 2", 2½", 3" Thread BSP 2", 2½", 3" Discharge connections

Weight (excl. cable) 16 kg built in Motor protection

20 m H07RN-F Electric cable *) Built in float switch available as option.





ABS J 15

J 15 W/J 15 WKS* 1-phase J 15 D/J 15 DKS* 3-phase

1.4 kW Motor rating P_2 Power input P₁ max 1.8 kW

Discharge connections Hose 1½", 2", 2½", 3"

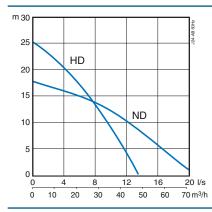
Thread BSP 2", 2½", 3"

16.5 kg (D)

Weight (excl. cable) 18 kg (W) built in

Motor protection 20 m H07RN-F Electric cable

^{*)} Built in float switch available as option.



ABS J 24

J 24 ND Medium head, 3-phase J 24 HD High head, 3-phase

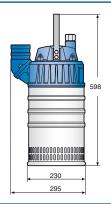
Motor rating P₂ 2.3 kW Power input P₁ max 2.8 kW

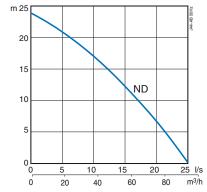
Hose 2½", 3", 4" Discharge connections

Thread BSP 2½", 3", 4"

Weight (excl. cable) 29 kg Motor protection built in 20 m H07RN-F Electric cable

PU Lining available as option.





ABS J 44

J 44 ND Medium head, 3-phase

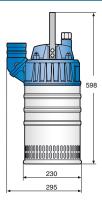
Motor rating P₂ 3.9 kW Power input P₁ max 4.7 kW

Hose 2½", 3", 4" Discharge connections

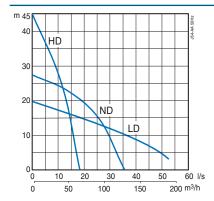
Thread BSP 2½", 3", 4"

Weight (excl. cable) 31 kg Motor protection built in 20 m H07RN-F Electric cable

PU Lining available as option.



W: 508 D: 473 202 244



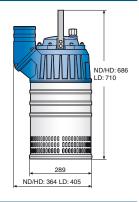
ABS J 54

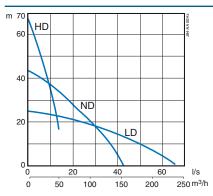
J 54 ND Medium head, 3-phase
J 54 HD High head, 3-phase
J 54 LD High flow, 3-phase

 $\begin{array}{lll} \mbox{Motor rating P_2} & 5.8 \ \mbox{kW} \\ \mbox{Power input P_1 max} & 6.8 \ \mbox{kW} \\ \mbox{Discharge connections} & \mbox{Hose $3^{"}, 4^{"}, 6^{"}$} \\ \mbox{Thread BSP $3^{"}, 4^{"}, 6^{"}$} \end{array}$

Weight (excl. cable) 50 kg
Motor protection built in
Electric cable 20 m H07RN-F

PU Lining available as option (ND+HD).



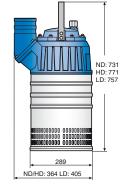


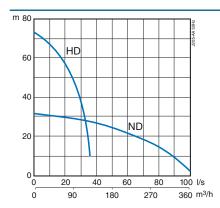
ABS J 84

J 84 ND Medium head, 3-phase
J 84 HD High head, 3-phase
J 84 LD High flow, 3-phase

 $\begin{array}{lll} \mbox{Motor rating P_2} & 9.4 \ \mbox{kW} \\ \mbox{Power input P_1 max} & 10.8 \ \mbox{kW} \\ \mbox{Discharge connections} & \mbox{Hose 3°, 4°, 6°} \\ \mbox{Weight (excl. cable)} & 70 \ \mbox{kg (ND, LD), 75 \ kg (HD)} \end{array}$

Motor protection built in Electric cable 20 m H07RN-F PU Lining available as option (ND).





ABS J 205

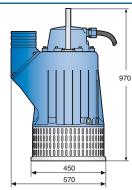
J 205 ND Medium head, 3-phase J 205 HD High head, 3-phase

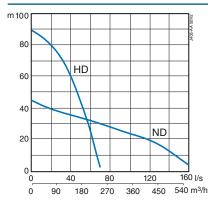
 $\begin{array}{ll} \mbox{Motor rating P_2} & 21 \mbox{ kW} \\ \mbox{Power input P_1 max} & 24 \mbox{ kW} \\ \mbox{Discharge connections} & \mbox{Hose $4", 6", 8"} \end{array}$

Thread BSP 4", 6", 8"

Weight (excl. cable) 155 kg
Motor protection built in
Electric cable 20 m H07RN-F

PU Lining available as option.





ABS J 405

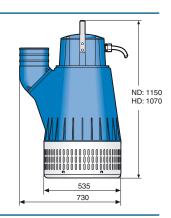
J 405 ND Medium head, 3-phase J 405 HD High head, 3-phase

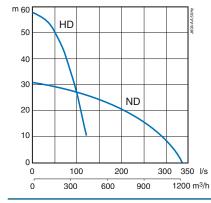
Weight (excl. cable) 270 kg

Motor protection thermal overload sensors

Electric cable 20 m H07RN-F

PU Lining available as option.





ABS J 604

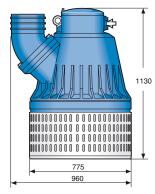
J 604 ND Medium head, 3-phase J 604 HD High head, 3-phase

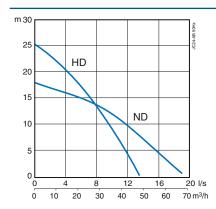
Weight (excl. cable) 525 kg

Motor protection thermal overload sensors

Electric cable 20 m H07RN-F

PU Lining available as option.

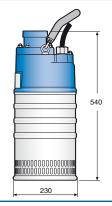


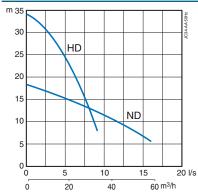


ABS JC 24

JC 24 ND Medium head, 3-phase JC 24 HD High head, 3-phase

PU Lining available as option.



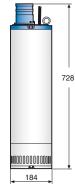


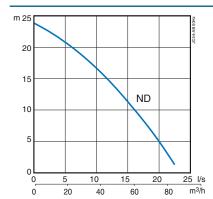
ABS JC 34

JC 34 ND Medium head, 3-phase JC 34 HD High head, 3-phase

 $\begin{array}{lll} \text{Motor rating P_2} & 3.0 \text{ kW} \\ \text{Power input P_1 max} & 3.8 \text{ kW} \\ \text{Discharge connections} & \text{Hose 2", 3"} \\ & & \text{Thread BSP 2", 3"} \end{array}$

Weight (excl. cable) 31 kg
Motor protection built in
Electric cable 20 m H07RN-F



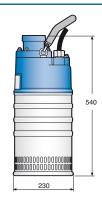


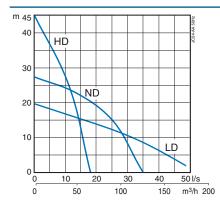
ABS JC 44

JC 44 ND Medium head, 3-phase

 $\begin{array}{lll} \mbox{Motor rating P_2} & 3.9 \ \mbox{kW} \\ \mbox{Power input P_1 max} & 4.7 \ \mbox{kW} \\ \mbox{Discharge connections} & \mbox{Thread BSP 3"} \\ \mbox{Weight (excl. cable)} & 31 \ \mbox{kg} \\ \mbox{Motor protection} & \mbox{built in} \\ \mbox{Electric cable} & 20 \ \mbox{m H07RN-F} \end{array}$

PU Lining available as option.





ABS JC 54

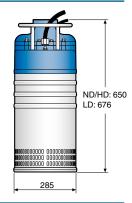
JC 54 ND Medium head, 3-phase
JC 54 HD High head, 3-phase
JC 54 LD High flow, 3-phase

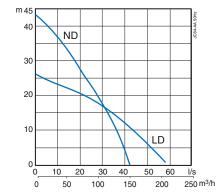
 $\begin{array}{ll} \text{Motor rating P}_2 & \quad 5.8 \text{ kW} \\ \text{Power input P}_1 \, \text{max} & \quad 6.8 \text{ kW} \end{array}$

Discharge connections Thread BSP 3", 4" Weight (excl. cable) 50 kg

Motor protection built in Electric cable 20 m H07RN-F

PU Lining available as option (ND+HD).





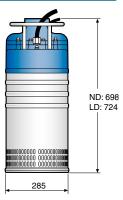
ABS JC 84

JC 84 ND Medium head, 3-phase JC 84 LD High flow, 3-phase

Motor rating P₂ 9.4 kW Power input P₁ max 10.8 kW

Discharge connections Thread BSP 3", 4"
Weight (excl. cable) 70 kg
Motor protection built in

Electric cable 20 m H07RN-F PU Lining available as option (ND).



ABS SUBMERSIBLE SLUDGE JS SERIES

ABS submersible sludge pump JS 12 - 84 are excellent for pumping sludge and water mixed with solids. They have a slim design and low weight, which makes them easy to move and easy to handle. Once a JS pump is installed it can run without risk of overheating the motor or sludge clogging.

1 Easy start

- plug-in without worrying about overheating

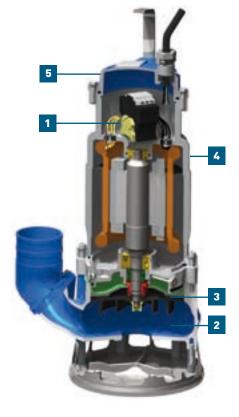
Built-in contactor connected to the thermal sensors in the stator windings protects the motor from overheating and features an automatic restart function.

2 Clog-free pumping - avoid downtime with solid proof hydraulics

Equipped with a free flow vortex impeller and a pump volute, the JS is perfect for pumping solids. The impeller is available in different sizes to meet your specific requirement.

3 Reliability and wear resistance – one investment, years of costefficient pumping

Both impeller and pump housing are made from wear resistant ductile iron for maximum wear resistance and durability. Double mechanical shaft seal in oil bath with primary



seal in silicon carbide secure safe operation and long life.

4 Convenient handling

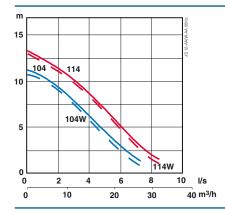
- designed to make your life easier

All motor parts are made in light weight aluminium, which provides a pump that is very easy to handle and install.

5 Serviceability

- save time and money by easy and on-site service

Due to modular design, the same parts can be used for different pumps, which lower overall service costs. By removing the top cover of the pump you can easily check the electrical junction box. For protection the motor is separately sealed from the junction box. Environmentally safe white oil is used in the oil casing for easy inspection of seal conditions.



ABS JS 12

JS 12 W -104 JS 12 W/WKS*-114 JS 12 D -104 JS 12 D/DKS* -114 Motor rating P₂

JS 12 D/DKS* -1143-phaseMotor rating P_2 0.9 kWPower input P_1 max1.2 kWFree passage45 x 40 mmDischarge connectionsHose 2", 2½", 3"

Weight (excl. cable) Motor protection Electric cable Thread BSP 2", 2½", 3" 18 kg built-in 20 m H07RN-F

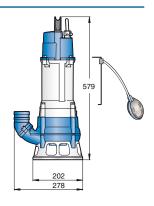
1-phase

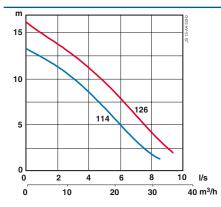
1-phase

3-phase

Electric cable 20 m H07RN-F

*Built in float switch available as option.

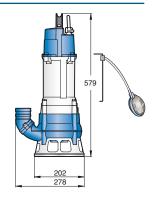


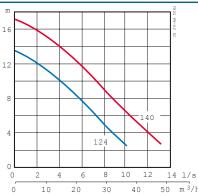


ABS JS 15

JS 15D -114 3-phase JS 15D/DKS* -126 3-phase

Weight (excl. cable) 18 kg
Motor protection built-in
Electric cable 20 m H07RN-F
*Built in float switch available as option.





ABS JS 24

JS 24D/DKS* -124 3-phase JS 24D/DKS* -140 3-phase

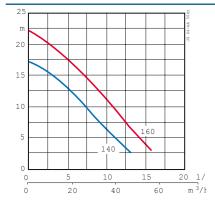
 $\begin{array}{lll} \mbox{Motor rating P_2} & 2.0 \ \mbox{kW} \\ \mbox{Power input P_1 max} & 2.4 \ \mbox{kW} \\ \mbox{Free passage} & 55 \ \mbox{x 40 mm} \\ \mbox{Discharge connections} & \mbox{Hose $2\frac{1}{2}$", $3", $4"} \end{array}$

Thread BSP 2½", 3", 4" 29 kg

Weight (excl. cable) 29 kg
Motor protection built-in
Electric cable 20 m H07RN-F

*) Built in float switch available as option.



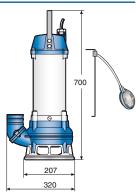


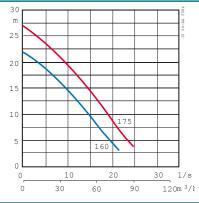
ABS JS 44

JS 44D/DKS* -140 3-phase JS 44D/DKS* -160 3-phase

Weight (excl. cable) 31 kg
Motor protection built-in
Electric cable 20 m H07RN-F

*) Built in float switch available as option.

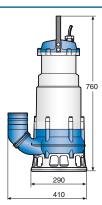


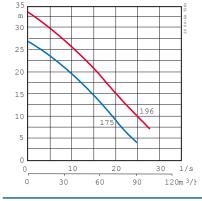


ABS JS 54

JS 54D-160 3-phase JS 54D-175 3-phase

Weight (excl. cable) 54 kg
Motor protection built-in
Electric cable 20 m H07RN-F

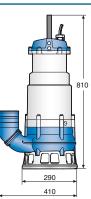




ABS JS 84

JS 84D-175 3-phase JS 84D-196 3-phase

Weight (excl. cable) 67 kg
Motor protection built-in
Electric cable 20 m H07RN-F



ABS SUBMERSIBLE SLUDGE JT SERIES

ABS submersible sludge pump JT 15 - 250 are suitable for pumping sludge and water mixed with solids. The robust cast iron design provides a sturdy pump for rough conditions. The pump runs at any water level without overloading the motor.

1 Dry running capability

no need for pump operation checks

Closed cooling jacket systems and an automatic stop and restart function with starter box enables dry running without damaging the mechanical seals or motor.

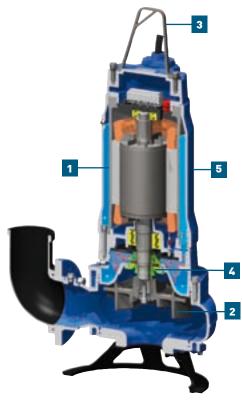
2 Clog-free pumping - avoid downtime with solid proof hydraulics

Equipped with a free flow vortex impeller and a pump volute, the JT is excellent for effective pumping of solids.

3 Convenient handling

- designed to make your life easier

The stand in nodular cast iron and the stainless steel handle makes the JT easy to move and install. A hose or quick coupling is easily connected to the discharge connection supplied with the pump.



4 Reliability

- one investment, years of cost efficient pumping

ABS vortex hydraulic requires no adjustment of impeller/wear plate. It minimizes load on shaft and bearings, which ensures reliable operation and maintained efficiency. All JT sludge pumps have mechanical seal in silicon carbide securing safe operation and long life.

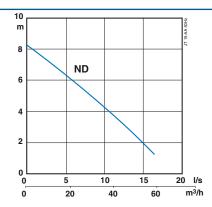
5 Serviceability

- save time and money with easy and on-site service

Modular design enables usage of the same parts for different pumps, which lowers overall service costs and increases flexibility. ABS JT40-250 pumps have mechanical seal cartridge, simplifying service on site

6 Safety features - minimizes unpleasant consequences

All JT sludge pumps are available in explosion proof EExd IIB T4 / ATEX versions. The oil housing on the JT15 - 30 is filled with safe white oil and on the JT 40 - 250 with environmentally safe glycol coolant.



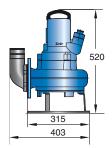
ABS JT 15

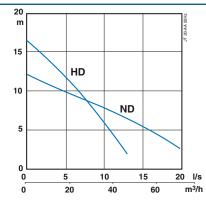
JT 15 ND Туре **AST 0830**

1.3 kW Motor rating P2 Power input P₁ max 1.93 kW Free passage 60 mm Discharge connections Hose 3' Thread BSP 3" Volute flange DN 80

Weight (excl. cable) 47 kg Motor protection

thermal overload sensors 20 m H07RN-F Electric cable





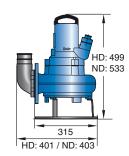
ABS JT 20

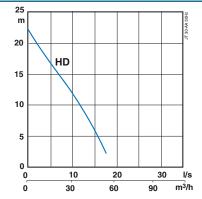
JT 20 HD **JT 20 ND** Type **AST 0830 AST 0631**

Motor rating P2 1.7 kW 2.2 kW Power input P₁ max 2.31 kW 2.88 kW Free passage 40 mm 60 mm Discharge connections Hose 3' Hose 3' Thread BSP 3" Thread BSP 3"

Volute flange DN 65 DN 80 Weight (excl. cable) 41 kg 47 kg thermal overload sensors Motor protection

20 m H07RN-F





ABS JT 30

Electric cable

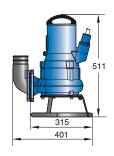
Type **JT 30 HD AST 0631**

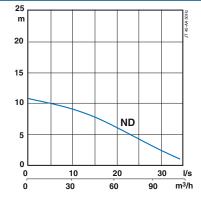
3.0 kW Motor rating P₂ Power input P₁ max 3.74 kW Free passage 40 mm Discharge connections Hose 3' Thread BSP 3"

Volute flange **DN 65** Weight (excl. cable) 48 kg

Motor protection thermal overload sensors Electric cable

20 m H07RN-F





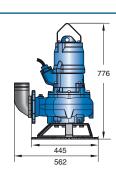
ABS JT 40

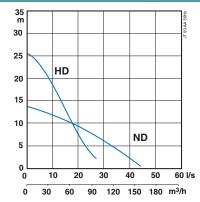
Type **JT 40 ND AFPT 1031**

Motor rating P₂ 3.0 kW 3.95 kW Power input P₁ max Free passage 100 mm Discharge connections Hose 4" Thread BSP 4"

Volute flange DN 100 Weight (excl. cable) 111 kg

Motor protection thermal overload sensors 20 m H07RN-F Electric cable





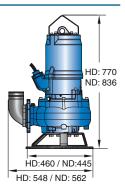
ABS JT 50

Туре		JT 50 HD AFPT 0835	JT 50 ND AFPT 1032
	 _	5 5 1 144	

Motor rating P2 Power input P₁ max Free passage Discharge connections

Volute flange Weight (excl. cable) Motor protection Electric cable

5.5 kW 6.0 kW 7.22 kW 6.49 kW 65 mm 100 mm Hose 3" Hose 4" Thread BSP 3' Thread BSP 4" DN 80 **DN 100** 153 kg 147 kg thermal overload sensors 20 m H07RN-F



35 30 25 HD 20 15 10 ND 5 20 30 40 50 0 90 120 150 180 m³/h 0 60

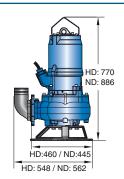
ABS JT 80

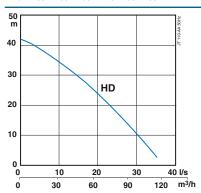
Туре	JT 80 HD AFPT 0835	JT 80 ND AFPT 1032
Motor rating P2	7.0 kW	9.0 kW
Davisanianist D. maay	0.27 L/M	10 0 1/1/

Power input P₁ max Free passage Discharge connections

Volute flange Weight (excl. cable) Motor protection Electric cable 7.0 kW 9.0 kW 8.37 kW 10.8 kW 65 mm 100 mm Hose 4" Hose 4" Thread BSP 4" Thread BSP 4" DN 80 DN 100 153 kg 157 kg thermal overload sensors

thermal overloa 20 m H07RN-F





ABS JT 110

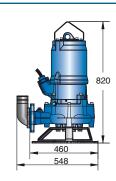
Type JT 110 HD AFPT 0835

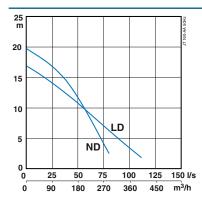
Motor rating P_2 Power input P_1 max Free passage Discharge connections

Volute flange Weight (excl. cable) Motor protection Electric cable 11.0 kW 13.3 kW 65 mm Hose 4" Thread BSP 4" DN 80 165 kg

thermal overload sensors

20 m H07RN-F





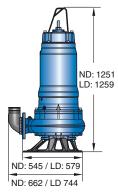
ABS JT 160

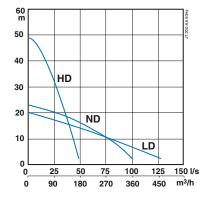
Type JT 160 ND JT 160 LD AFPT 1033 AFPT 1533

 $\begin{array}{l} \text{Motor rating } P_2 \\ \text{Power input } P_1 \ \text{max} \\ \text{Free passage} \\ \text{Discharge connections} \end{array}$

Volute flange Weight (excl. cable) Motor protection Electric cable

16.0 kW 16.0 kW 17.8 kW 17.8 kW 80 mm 80 mm Hose 4' Hose 6' Thread BSP 4" Thread BSP 6" DN 100 DN 150 346 kg 358 ka thermal overload sensors 20 m H07RN-F





ABS JT 200

Type JT 200

 $\begin{array}{l} \text{Motor rating P}_2 \\ \text{Power input P}_1 \\ \text{Free passage} \\ \text{Discharge connections} \end{array}$

Volute flange Weight (excl. cable) Motor protection Electric cable

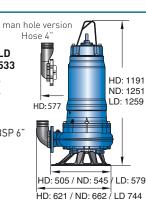
JT 200 HD JT 200 ND AFPT 1035 AFPT 1033

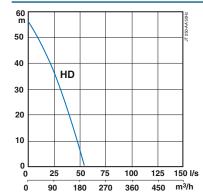
20.0 kW
22.1 kW
24.3 kW
64 mm
80 mm
Hose 4" Hose 4"
Thread BSP 4" Thread BSP 4"
DN 100
286 kg
351 kg
thermal overload sensors

22.0 kW 24.3 kW 80 mm Hose 6" Thread BSP 6' DN 150 363 kg

JT 200 LD

AFPT 1533





ABS JT 250

Туре

 $\begin{array}{l} \text{Motor rating } P_2 \\ \text{Power input } P_1 \text{ max} \\ \text{Free passage} \\ \text{Discharge connections} \end{array}$

Volute flange Weight (excl. cable) Motor protection Electric cable

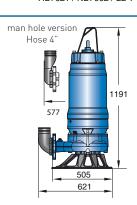
JT 250 HD AFPT 1035

20 m H07RN-F

25.0 kW 27.5 kW 64 mm Hose 4" Thread BSP 4" DN 100 291 kg

thermal overload sensors

20 m H07RN-F



ABS DIAPHRAGM PUMP

The ABS diaphragm pump is perfect for muddy water, sludge or water with a high percentage of solids. It is ideal for slow seepage applications or for total bottom clean-ups. Pump and engine are conveniently mounted together. The wheels and handle makes the diaphragm pump easy to move around the work site.

1 Wear resistance

- one investment, years of costefficient pumping

The ABS diaphragm design ensures high wear resistance from durable elastomer materials and robust cast aluminium parts.

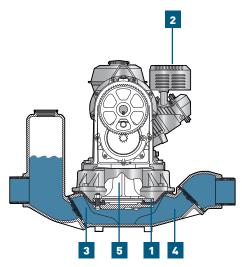
2 Easy operation – just start the pump

When the pump is started it automatically primes the suction hose.

3 Dry running capability

no need for regularly inspections during operation

ABS diaphragm pumps can run dry without damaging to the pump.



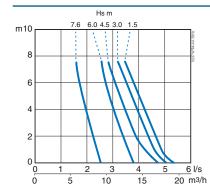
4 Reliability

-a pump investment that last for years

Clog-free pumping avoiding downtime is a well proven ABS feature. Solid proof hydraulics makes the pump outstanding when pumping large amounts of solids. It is powered by a standard Honda gasoline engine. In shallow applications and if seepage returns, it is automatically pumped out of the way. This pump keeps on pumping!

5 Serviceability - save time and money with- easy and on-site service

Heavy duty construction with easy access to the robust wear parts and check valves makes maintenance and service easy.

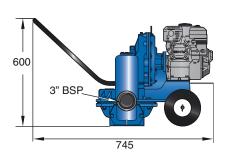


ABS 5537 WTM

Max. suction lift Max. discharge head Power

Full tank capacity Continuous run time/tank Starting method Free passage Discharge connections Weight

7.6 m 7.6 m 3 kW (4 Hp) Honda GX120 2.5 l 3 Hr Recoil 44 mm Thread BSP 3" 59 kg



PUMP OPTIONS & ACCESSORIES



The ABS dewatering solution offer goes beyond just the pump. In order to simplify the life of our customers we offer a wide selection of options and accessories. This toolbox assures that you will get a solution that fits your application.





Complete equipment supply for easy installation and convenient handling

ABS offers a variety of discharge connections/quick couplings in different size and style to suit your needs/ requirements. Choose from ABS flexible durable discharge hoses in sizes up to 10" or special suction hoses for diaphragm pump applications.



Easy installation with starter box and safe operation with level control

When a start and stop level is required, a starter box for level control can prolong the life of the pump. ABS provides standard DOL and STAR-DELTA starter boxes with a built in float switch for J/JC/JS/JT series. For the smaller J/JS pumps the level control function can be integrated in the pump.



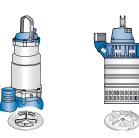
SoftDrive for cost effective operation

ABS offers a built in SoftDrive concept on the J54 to J205 pumps. It reduces starting current dramatically and provides a smooth operation for both the power net and pump equipment. The pump can be started with a smaller sized generator compared to a standard direct on line started pump.



Additional protection for more durable operation

ABS submersible dewatering pumps can be equipped with zinc anodes providing protection against galvanic corrosion. The cast parts of the pump can also be protectively coated, ensuring trouble free operation when pumping saline or brackish water.



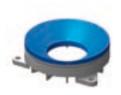
Series connections for pumping high heads

With minimal effort, the standard ABS drainage pumps can be rebuilt to function in series connected applications for high head pumping. This feature ensures a flexible use of your drainage pumps.



Polyurethane for prolonged life of the drainage pump

ABS offers diffusers and wear-rings in polyurethane, which increases resistance when pumping fine sand and other abrasive mediums.



Let the pump float and avoid unnecessary wear

ABS offers floating rings for drainage pumps J12 to J44 for applications requiring the submersible pump to operate close to the surface











