



Atlas Copco



Atlas Copco Dewatering pumps product range

www.atlascopco.com/dewatering-pumps

Welcome to Atlas Copco pumps booklet!

Atlas Copco designs and develops highly efficient and environment friendly dewatering pumps. Rich history combined product development experience spanning more than 100 years, we at Atlas Copco strive to develop product that best fits customer needs. The wide range of robust surface and submersibles pumps offers great performance and flexibility and are suitable for every dewatering application.



Index

Surface pumps

- Dry prime pumps (PAS range)
- Wet prime pumps (VAR range)
- Wellpoint centrifugal pumps (WEL range)

Submersible pumps

- Drainage pumps (WEDA D range)
- Sludge pumps (WEDA S range)
- Slurry pumps (WEDA L range)

Terminology

- Self priming

Accessories

Parts and Service

- Service packs
- Pump parts
- Seal kits, Instant Service pack, Wear part kit and Gasket kit,
- Fluids and Lubricants
- FleetLink

Other information

- Friction losses
- Utilities table
- Hydraulic characteristics

Surface pumps solutions



Dry prime pumps (PAS range)

Dewatering | Sewage bypass | Ballasting



Construction



Utility



Rental



Emergency
(floods)



Oil and Gas



Transport



Wet prime pumps (VAR range)

Groundlevel process before excavation for footings



Emergency
(floods)



Small
Construction



Wellpoint pumps (WEL range)

Dewatering to build. Construction | Pipeline on shore
Polluted soil remediation | Tunneling



Construction



Utility



Rental



Oil and Gas

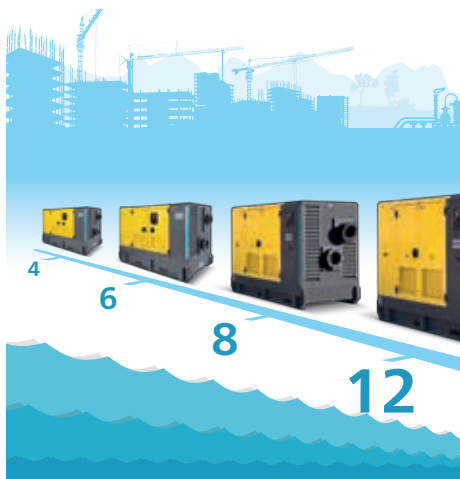


Dry prime pumps

PAS range



The complete PAS surface pumps portfolio



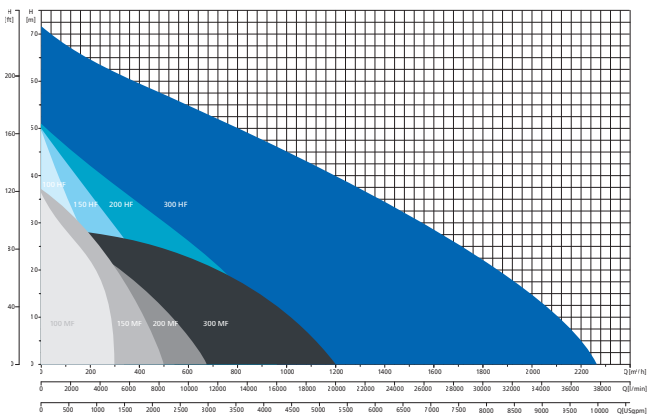
The PAS range of fully automatic self-priming centrifugal pumps are considered the ideal solution for transporting or raising water with abrasive solids in suspension. They are used across multiple industries including construction and mine site dewatering, floodwater, stream diversions, sewage bypass and municipal applications. They can work with water that is clean or dirty as well as handle trash and fibrous materials. Thanks to features such as semi-open impellers and abrasion-resistant pump castings, this range has excellent solids handling capability.



Dry prime pumps

PAS range

PAS Performance curve





PAS 100HF 250

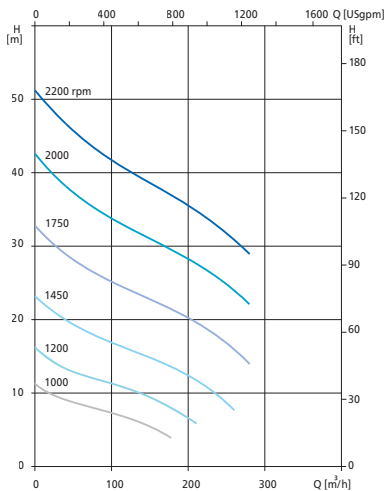
Dry prime pumps



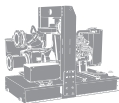
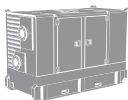
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 750 controller
- Stackable (canopy version)

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	1100 mm
Length	2560 mm
Height	1705 mm
Max dry weight	1380 kg (3040 lbs)

Dimensions

Width	950 mm
Length	2240 mm
Height	1800 mm
Max dry weight	1000 kg (2205 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	280	m ³ /h	1230	USgpm
Max head	50	m	164	ft
Solid handlings	76	mm	3"	in
Operating speed range	1000 – 2200			rpm
Rated power	31	kW	42	HP
Fuel tank size	355	L	94	USgph
Fuel consumption	7,8	l/h	2,1	USgph
Max running hours	46			h

Engine

Cooling	Water
Make	Deutz
Model	D 2.9 L4

PAS 150HF 300

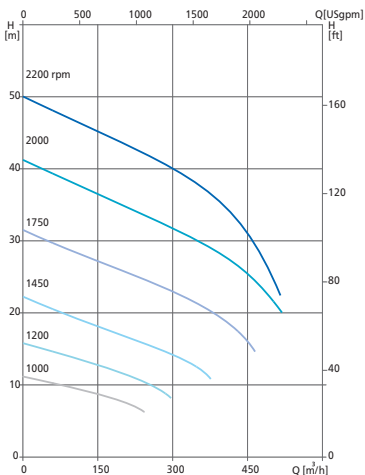
Dry prime pumps



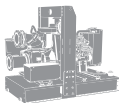
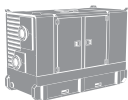
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 750 controller
- Stackable (canopy version)

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	1100 mm
Length	2560 mm
Height	1705 mm
Max dry weight	1680 kg (3700 lbs)

Dimensions

Width	950 mm
Length	2240 mm
Height	1800 mm
Max dry weight	1200 kg (2646 lbs)

Specifications

Pump size	150	mm	6"	in
Max flow	510	m ³ /h	2,250	USgpm
Max head	51	m	167	ft
Solid handlings	76	mm	3"	in
Operating speed range	1000 – 2200			rpm
Rated power	51	kW	69	HP
Fuel tank size	355	l	94	USg
Fuel consumption	12,8	l/h	3,4	USgph
Max running hours	28			h

Engine

Cooling	Water
Make	Deutz
Model	TD 2.9 L4

PAS 200HF 305

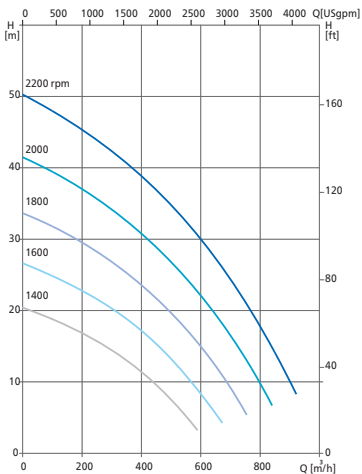
Dry prime pumps



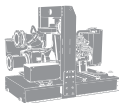
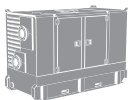
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 750 controller.
- Stackable (canopy version) .

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	1225 mm
Length	2610 mm
Height	1840 mm
Max dry weight	2250 kg (4960 lbs)

Dimensions

Width	1150 mm
Length	2300 mm
Height	2050 mm
Max dry weight	1450 kg (3200 lbs)

Specifications

Pump size	200	mm	8"	in
Max flow	340	m ³ /h	1500	USgpm
Max head	28	m	90	ft
Solid handlings	76	mm	3"	in
Operating speed range	1000 – 2200			rpm
Rated power	22	kW	30	HP
Fuel tank size	420	l	111	USg
Fuel consumption	5,4	l/h	1,4	USgph
Max running hours	56			h

Engine

Cooling	Water
Make	Deutz
Model	TCD 3.6 L4

PAS 300HF 440

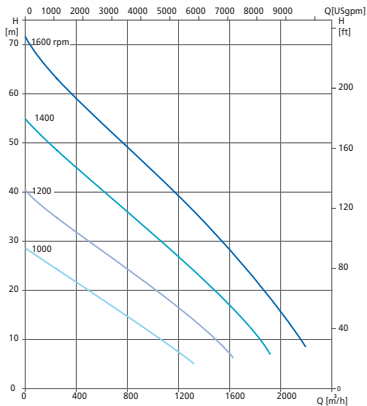
Dry prime pumps



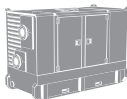
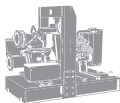
Features :

- High capacity diaphragm pump.
- Easy serviceability.
- Mechanical seal oil bath
- PW 750 controller

Performance Curves accor. to UNI 9906



Technical information



Dimensions (open frame)	
Width	1940 mm
Length	3250 mm
Height	2155 mm
Max dry weight	3500 kg (7720 lbs)

Dimensions	
Width	2200 mm
Length	3900 mm
Height	2000 mm
Max dry weight	4200 kg (9259 lbs)

Specifications				
Pump size	300	mm	12"	in
Max flow	2160	m ³ /h	9510	USgpm
Max head	71	m	233	ft
Solid handlings	89	mm	3.5"	in
Operating speed range	1000 – 1600			rpm
Rated power	210	kW	282	HP
Fuel tank size	450	l	119	USg
Fuel consumption	48,0	l/h	12,7	USgph
Max running hours	8,8			h

Engine	
Cooling	Water
Make	Volvo
Model	TAD 871 V

PAS 100MF 250

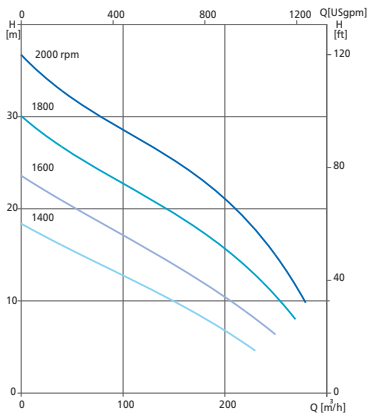
Dry prime pumps



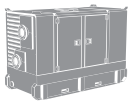
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 250 controller.
- Stackable.

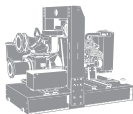
Performance Curves accor. to UNI 9906



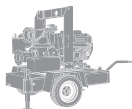
Technical information



Dimensions	
Width	1100 mm
Length	2250 mm
Height	1550 mm
Max dry weight	1300 kg (2867 lbs)



Dimensions	
Width	950 mm
Length	1750 mm
Height	1520 mm
Max dry weight	880 kg (1940 lbs)



Dimensions	
Width	1410 mm
Length	3120 mm
Height	1880 mm
Max dry weight	1020 kg (2249 lbs)

Specifications				
Pump size	100	mm	4"	in
Max flow	250	m ³ /h	1100	USgpm
Max head	36	m	118	ft
Solid handlings	50	mm	2"	in
Operating speed range	1400 – 2000			rpm
Rated power	23	kW	31	HP
Fuel tank size	300	l	79	USg
Fuel consumption	5,8	l/h	1,5	USgph
Max running hours	52			h

Engine	
Cooling	Water
Make	Kohler
Model	KDI 1903M

Engine	
Cooling	Air
Make	Deutz
Model	D2011L031

PAS 100MF 260

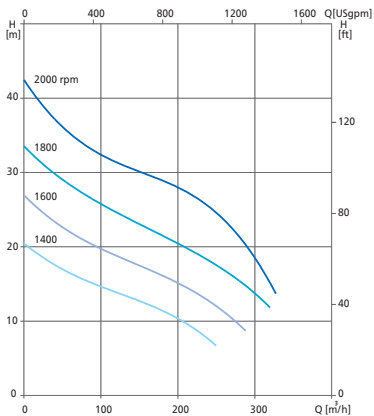
Dry prime pumps



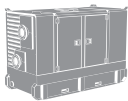
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 250 controller.
- Stackable.

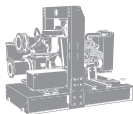
Performance Curves accor. to UNI 9906



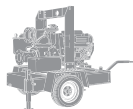
Technical information



Dimensions	
Width	1100 mm
Length	2250 mm
Height	1550 mm
Max dry weight	1325 kg (2922 lbs)



Dimensions	
Width	950 mm
Length	1750 mm
Height	1520 mm
Max dry weight	905 kg (1995 lbs)



Dimensions	
Width	1410 mm
Length	3120 mm
Height	1880 mm
Max dry weight	1040 kg (2293 lbs)

Specifications				
Pump size	100	mm	4"	in
Max flow	325	m ³ /h	1430	USgpm
Max head	42	m	138	ft
Solid handlings	76	mm	3"	in
Operating speed range	1400 – 2000			rpm
Rated power	28	kW	38	HP
Fuel tank size (*)	300	l	79	USg
Fuel consumption	7,1	l/h	1,9	USgph
Max running hours	42			h

Engine	
Cooling	Water
Make	Kohler
Model	KDI 2504 M

Engine	
Cooling	Air
Make	Deutz
Model	D2011L031

PAS 150MF 250

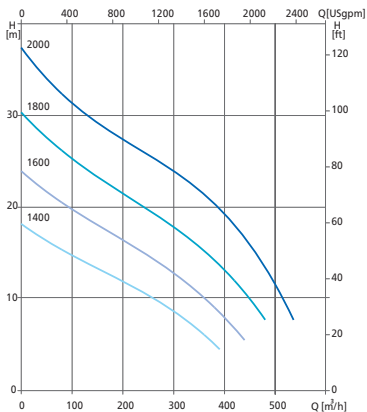
Dry prime pumps



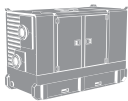
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 250 controller.
- Stackable.

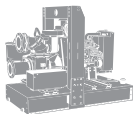
Performance Curves accor. to UNI 9906



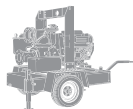
Technical information



Dimensions	
Width	1100 mm
Length	2250 mm
Height	1550 mm
Max dry weight	1350kg (2977 lbs)



Dimensions	
Width	950 mm
Length	1750 mm
Height	1520 mm
Max dry weight	925 kg (2039 lbs)



Dimensions	
Width	1410 mm
Length	3120 mm
Height	1880 mm
Max dry weight	1050 kg (2315 lbs)

Specifications				
Pump size	150	mm	6"	in
Max flow	540	m ³ /h	2380	USgpm
Max head	37	m	121	ft
Solid handlings	76	mm	3"	in
Operating speed range	1400 – 2000			rpm
Rated power	22	kW	29	HP
Fuel tank size	300	l	79	USg
Fuel consumption	5,4	l/h	1,4	USgph
Max running hours	56			h

Engine	
Cooling	Water
Make	Kohler
Model	KDI 2504M

Engine	
Cooling	Air
Make	Deutz
Model	D2011L031

PAS 200MF 305

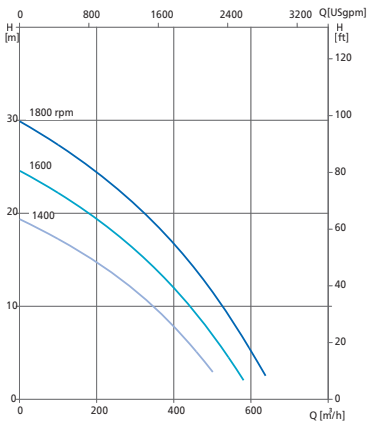
Dry prime pumps



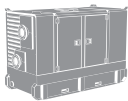
Features :

- Hinge kit for pump maintenance.
- High capacity diaphragm pump.
- Mechanical seal oil bath.
- PW 500 controller.
- Stackable.

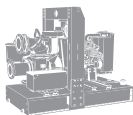
Performance Curves accor. to UNI 9906



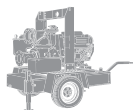
Technical information



Dimensions	
Width	1100 mm
Length	2560 mm
Height	1705 mm
Max dry weight	1600kg (3528 lbs)



Dimensions	
Width	950 mm
Length	2240 mm
Height	1800 mm
Max dry weight	1200 kg (2646 lbs)



Dimensions	
Width	1410 mm
Length	2330 mm
Height	1880 mm
Max dry weight	1130 kg (2490 lbs)

Specifications				
Pump size	200	mm	8"	in
Max flow	630	m ³ /h	2770	USgpm
Max head	30	m	98	ft
Solid handlings	76	mm	3"	in
Operating speed range	1400 – 1800			rpm
Rated power	34	kW	45	HP
Fuel tank size	355	l	111	USg
Fuel consumption	8,3	l/h	2,2	USgph
Max running hours	51			h

Engine	
Cooling	Water
Make	Kohler
Model	KDI 1903M

Engine	
Cooling	Air
Make	Deutz
Model	D2011L031

PAS 300MF 390

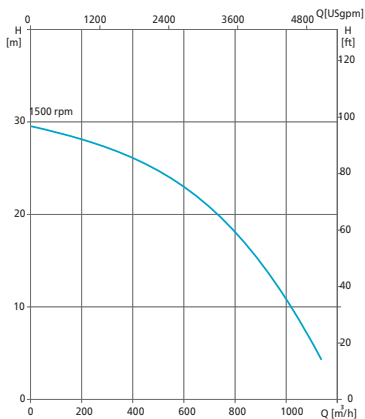
Dry prime pumps



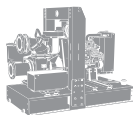
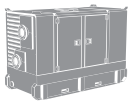
Features :

- High capacity vacuum pump.
- Mechanical seal oil bath.
- PW 750 controller.
- Stackable.

Performance Curves accor. to UNI 9906



Technical information



Dimensions	
Width	1225 mm
Length	2610 mm
Height	1840 mm
Max dry weight	2550 kg (5622 lbs)

Dimensions	
Width	1070 mm
Length	2220 mm
Height	1670 mm
Max dry weight	1160 kg (2560 lbs)

Dimensions	
Width	1410 mm
Length	2330 mm
Height	1880 mm
Max dry weight	1130 kg (2490 lbs)

Specifications				
Pump size	300	mm	12"	in
Max flow	340	m ³ /h	1500	USgpm
Max head	28	m	90	ft
Solid handlings	76	mm	3"	in
Operating speed range	1000 – 1500			rpm
Rated power	65	kW	87	HP
Fuel tank size	420	l	111	USg
Fuel consumption	24,0	l/h	6,3	USgph
Max running hours	29			h

Wet prime pumps

VAR range



The VAR range consists on centrifugal pumps, where the key is to have a simple system for first prime. The machine can, with a first water fill up, quickly evacuate the air from the suction and allow to flow the fluid with solid handlings in suspension. The equipment suits perfectly in medium construction application, bentonite pumping and portable emergency floods control.

Great for construction, general dewatering, drainage and emergency applications.

These self-priming centrifugal pumps are for applications where the main challenge is the difficulty to start the unit in tough conditions and difficult accessible areas.

MAX. FLOW
UP TO **1400** m³/h

MAX. HEAD
UP TO **40** m

FLUSHING
MECH SEAL
1 min
CLEAN-UP

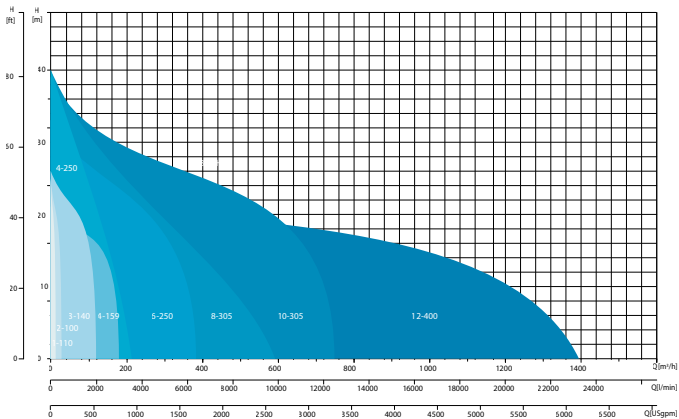
COMPACT
SIZE
with maximum flow

UP TO **76** mm
SOLIDS
HANDLING

24 HOURS
OF CONTINUOUS
OPERATION



VAR Performance curve



VAR 1-110

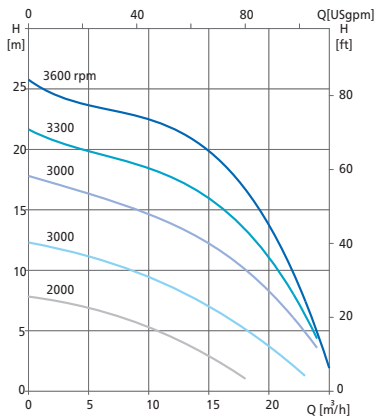
Wet prime pumps



Features :

- Light weight and portable.
- Wet prime system.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	350 mm
Length	485 mm
Height	515 mm
Max dry weight	26 kg (57 lbs)

Specifications

Pump size	40	mm	1 ½"	in
Max flow	23	m ³ /h	100	USgpm
Max head	26	m	84	ft
Solid handlings	20	mm	0,8"	in
Operating speed range	2000 – 3600			rpm
Rated power	2,1	kW	2,8	HP
Fuel tank size	2,0	l	0,5	USg
Fuel consumption	1,0	l/h	0,3	USgph
Max running hours	2			h

Gasoline Engine

Cooling	Air
Make	Honda
Model	GX120

VAR 2-100

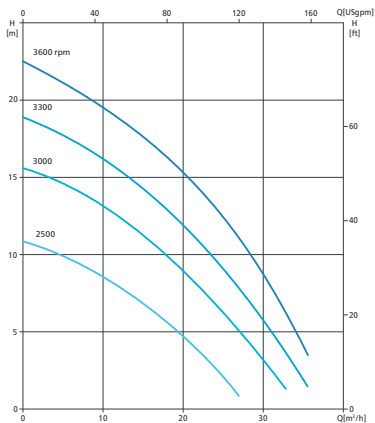
Wet prime pumps



Features :

- Light weight and portable.
- Wet prime system.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	350 mm
Length	495 mm
Height	515 mm
Max dry weight	28 kg (61 lbs)

Specifications

Pump size	50	mm	2"	in
Max flow	34	m ³ /h	150	USgpm
Max head	23	m	74	ft
Solid handlings	17	mm	0,7"	in
Operating speed range	2500 – 3600			rpm
Rated power	2,1	kW	2,8	HP
Fuel tank size	2,0	l	0,5	USg
Fuel consumption	1,0	l/h	0,3	USgph
Max running hours	2			h

Gasoline Engine

Cooling	Air
Make	Honda
Model	GX120

VAR 3-140

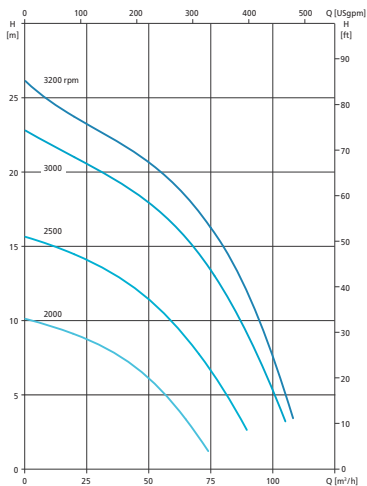
Wet prime pumps



Features :

- Light weight and portable.
- Wet prime system.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	610 mm
Length	945 mm
Height	980 mm
Max dry weight	162 kg (360 lbs)

Specifications

Pump size	80	mm	3"	in
Max flow	80	m ³ /h	350	USgpm
Max head	28	m	92	ft
Solid handlings	28	mm	1,1"	in
Operating speed range	2000 – 3200			rpm
Rated power	6,4	kW	8,6	HP
Fuel tank size	7,0	l	1,8	USg
Fuel consumption	1,8	l/h	0,5	USgph
Max running hours	4			h

Diesel Engine

Cooling	Air
Make	Honda
Model	GX120

VAR 4-159

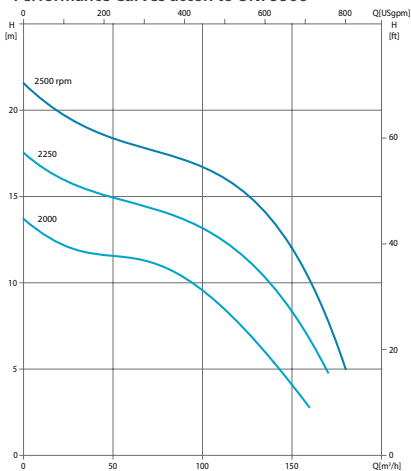
Wet prime pumps



Features :

- Light weight and portable.
- Wet prime system.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	780 mm
Length	1300 mm
Height	1170 mm
Max dry weight	230 kg (510 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	180	m ³ /h	790	USgpm
Max head	22	m	71	ft
Solid handlings	45	mm	1,8"	in
Operating speed range	2000 – 2500			rpm
Rated power	10,7	kW	11,4	HP
Fuel tank size	10	l	2,7	USg
Fuel consumption	2,9	l/h	0,8	USgph
Max running hours	3,5			h

Diesel Engine

Cooling	Air
Make	Kohler
Model	12LD477-2

VAR 4-250

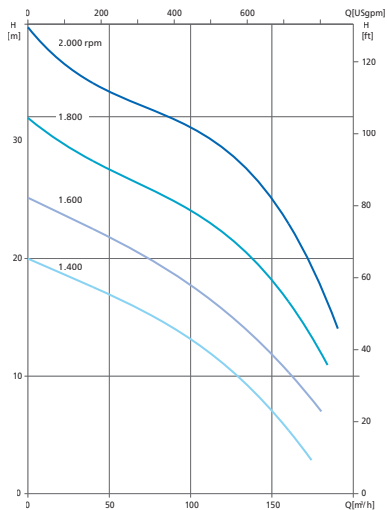
Wet prime pumps



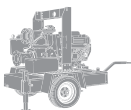
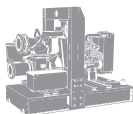
Features :

- Wet prime system
- Mechanical seal flushing.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	950 mm
Length	1750 mm
Height	1520 mm
Max dry weight	905 kg (2000 lbs)

Dimensions

Width	1410 mm
Length	3120 mm
Height	1880 mm
Max dry weight	910 kg (2010 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	180	m ³ /h	790	USgpm
Max head	40	m	131	ft
Solid handlings	50	mm	2"	in
Operating speed range	1400 – 2000			rpm
Rated power	24	kW	33	HP
Fuel tank size	300	l	79	USg
Fuel consumption	5,8	l/h	1,5	USgph
Max running hours	54			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 1903M

Diesel Engine

Cooling	Air
Make	Deutz
Model	D2011L03I

VAR 6-250

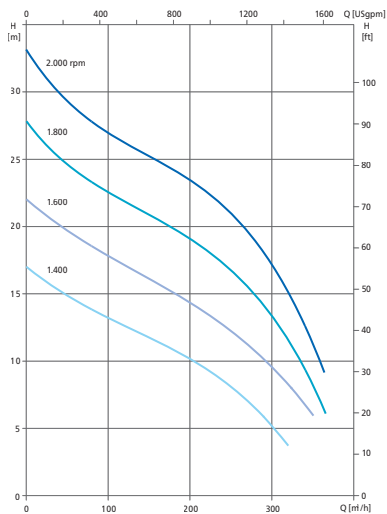
Wet prime pumps



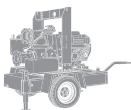
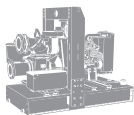
Features :

- Wet prime system.
- Mechanical seal flushing.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	950 mm
Length	1750 mm
Height	1520 mm
Max dry weight	935 kg (2060 lbs)

Dimensions

Width	1410 mm
Length	3120 mm
Height	1880 mm
Max dry weight	1020 kg (2249 lbs)

Specifications

Pump size	150	mm	6"	in
Max flow	340	m ³ /h	1500	USgpm
Max head	33	m	108	ft
Solid handlings	76	mm	3"	in
Operating speed range	1400 – 2000			rpm
Rated power	28	kW	38	HP
Fuel tank size	300	l	79	USg
Fuel consumption	7,1	l/h	1,9	USgph
Max running hours	56			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 1903M

Diesel Engine

Cooling	Air
Make	Deutz
Model	D2011L03I

VAR 8-305

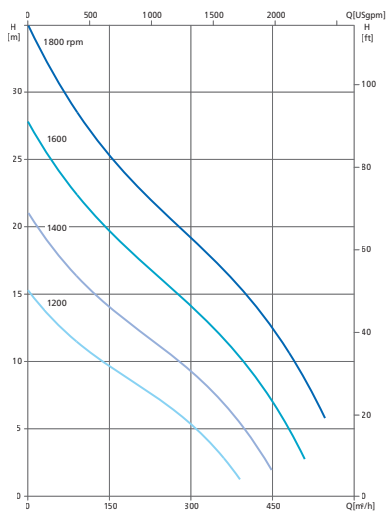
Wet prime pumps



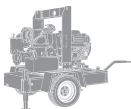
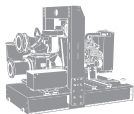
Features :

- Wet prime system.
- Mechanical seal flushing.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	1070 mm
Length	2550 mm
Height	1850 mm
Max dry weight	1205 kg (2660 lbs)

Dimensions

Width	1610 mm
Length	3650 mm
Height	2230 mm
Max dry weight	1225 kg (2700 lbs)

Specifications

Pump size	200	mm	8"	in
Max flow	560	m ³ /h	2470	USgpm
Max head	35	m	115	ft
Solid handlings	76	mm	3"	in
Operating speed range	1200 – 1800			rpm
Rated power	34	kW	45	HP
Fuel tank size	420	l	111	USg
Fuel consumption	8,3	l/h	2,2	USgph
Max running hours	51			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 1903TCR

Diesel Engine

Cooling	Air
Make	Deutz
Model	D2011L04I

VAR 10-305

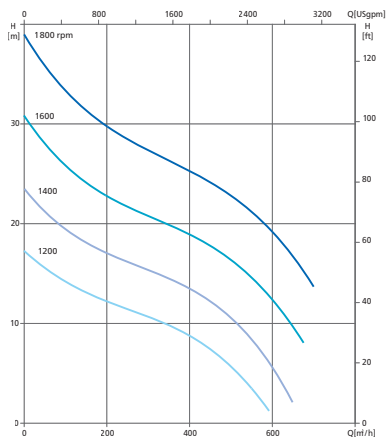
Wet prime pumps



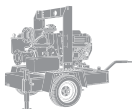
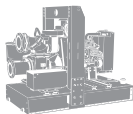
Features :

- Wet prime system
- Mechanical seal flushing.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	950 mm
Length	2800 mm
Height	1800 mm
Max dry weight	1740 kg (3840 lbs)

Dimensions

Width	1610 mm
Length	4200 mm
Height	2210 mm
Max dry weight	1790 kg (3950 lbs)

Specifications

Pump size	250	mm	10"	in
Max flow	690	m ³ /h	3040	USgpm
Max head	39	m	128	ft
Solid handlings	76	mm	3"	in
Operating speed range	1200 – 1800			rpm
Rated power	48	kW	64	HP
Fuel tank size	540	l	143	USg
Fuel consumption	11,4	l/h	3	USgph
Max running hours	51			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 2504TCR

Diesel Engine

Cooling	Air
Make	Deutz
Model	F4L914

VAR 12-400

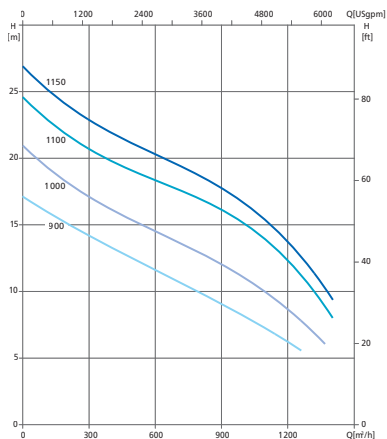
Wet prime pumps



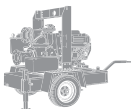
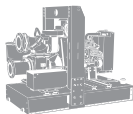
Features :

- Wet prime system.
- Mechanical seal flushing.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	1230 mm
Length	2800 mm
Height	1800 mm
Max dry weight	2125 kg (4680 lbs)

Dimensions

Width	2100 mm
Length	4200 mm
Height	2250 mm
Max dry weight	2185 kg (4820 lbs)

Specifications

Pump size	300	mm	12"	in
Max flow	1,4	m ³ /h	6660	USgpm
Max head	29	m	96	ft
Solid handlings	70	mm	2.8"	in
Operating speed range	900 – 1150			rpm
Rated power	100	kW	134	HP
Fuel tank size	600	l	159	USg
Fuel consumption	27,1	l/h	7,2	USgph
Max running hours	22			h

Diesel Engine

Cooling	Water
Make	Deutz
Model	TCD 3.6 L4

Diesel Engine

Cooling	Air
Make	Deutz
Model	BF6L914

ETP 50

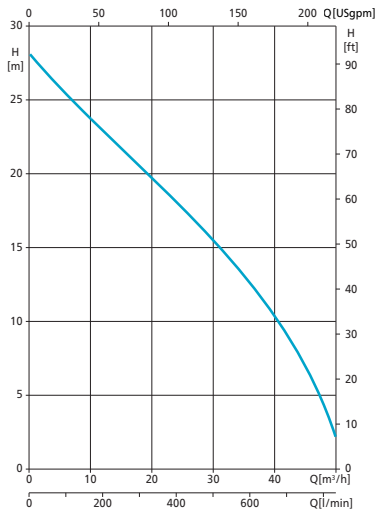
Centrifugal self-priming portable pumps



Features :

- Wet prime system.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	440 mm
Length	600 mm
Height	470 mm
Max dry weight	32 kg (71 lbs)

Specifications

Pump size	50	mm	2"	in
Max flow	830	l/min	182	USgpm
Max head	28	m	92	ft
Solid handlings	27	mm	1,1"	in
Operating speed range	2000 – 3600			rpm
Rated power	4,0	kW	5,4	HP
Fuel tank size	3,6	l	0,9	USg
Fuel consumption	1,4	l/h	0,4	USgph
Max running hours	2,6			h

Gasoline engine

Cooling	Air
Make	Honda
Model	GX160

ETP 80

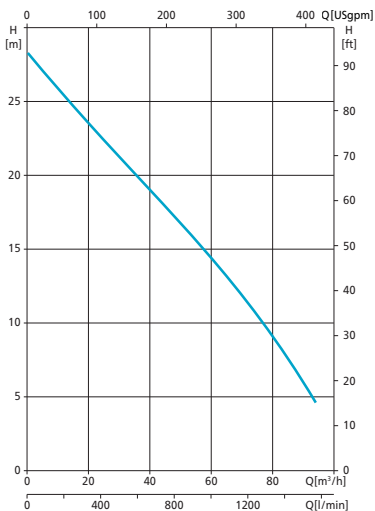
Centrifugal self-priming portable pumps



Features :

- Wet prime system.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	500 mm
Length	880 mm
Height	560 mm
Max dry weight	32 kg (71 lbs)

Specifications

Pump size	80	mm	3"	in
Max flow	1,5	l/min	400	USgpm
Max head	28	m	92	ft
Solid handlings	38	mm	1,5"	in
Operating speed range	2000 – 3600			rpm
Rated power	6,0	kW	8	HP
Fuel tank size	5,3	l	1,4	USg
Fuel consumption	2,5	l/h	0,7	USgph
Max running hours	2,1			h

Gasoline engine

Cooling	Air
Make	Honda
Model	GX270

ETP 100

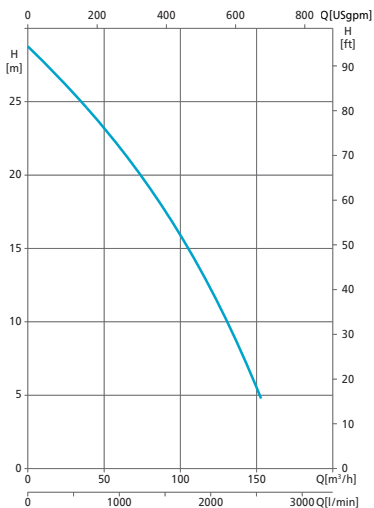
Centrifugal self-priming portable pumps



Features :

- Wet prime system
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	605 mm
Length	945 mm
Height	615 mm
Max dry weight	93 kg (205 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	2,5	l/min	660	USgpm
Max head	29	m	95	ft
Solid handlings	40	mm	1,6"	in
Operating speed range	2000 – 3600			rpm
Rated power	9,6	kW	12,9	HP
Fuel tank size	6,5	l	1,7	USg
Fuel consumption	3,4	l/h	0,9	USgph
Max running hours	1,9			h

Diesel and Gasoline engines

Cooling	Air
Make	Kohler (D)
Model	15LD500

Diesel and Gasoline engines

Cooling	Air
Make	Honda (G)
Model	GX390

LB 80

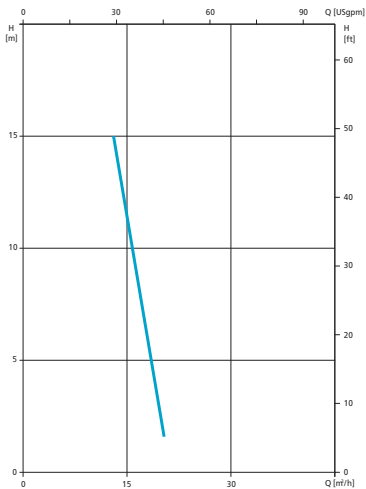
Diaphragm self-priming portable pumps



Features :

- High Capacity Diaphragm Pump.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	950 mm
Length	735 mm
Height	800 mm
Max dry weight	92 kg (203 lbs)

Specifications

Pump size	80	mm	3"	in
Max flow	325	l/min	86	USgpm
Max head	15	m	49	ft
Solid handlings	50	mm	2"	in
Operating speed range	1400 – 2900			rpm
Rated power	3,3	kW	4,4	HP
Fuel tank size	3,6	l	1	USg
Fuel consumption	1,2	l/h	0,3	USgph
Max running hours	3			h

Diesel and Gasoline engines

Cooling	Air
Make	Kohler (D)
Model	15LD225

Diesel and Gasoline engines

Cooling	Air
Make	Honda (G)
Model	GX160

LB 80 E

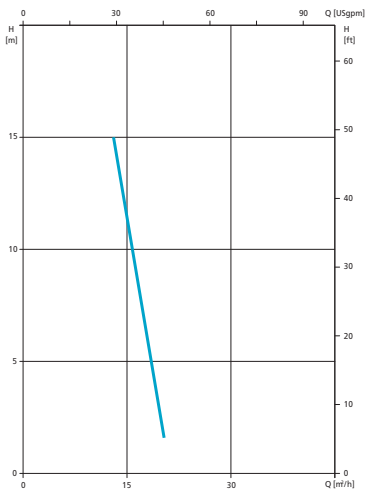
Diaphragm self-priming portable pumps



Features :

- High Capacity Diaphragm Pump.
- Electric Driven
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	950 mm
Length	735 mm
Height	800 mm
Max dry weight	71 kg (157 lbs)

Specifications

Pump size	80	mm	3"	in
Max flow	325	l/min	86	USgpm
Max head	15	m	49	ft
Solid handlings	50	mm	2"	in
Operating speed	2900			rpm
Rated power	2,2	kW	3,0	HP
Frequency	50			Hz
Voltage	230/400			V
Max running hours	4,5			A

LB 100

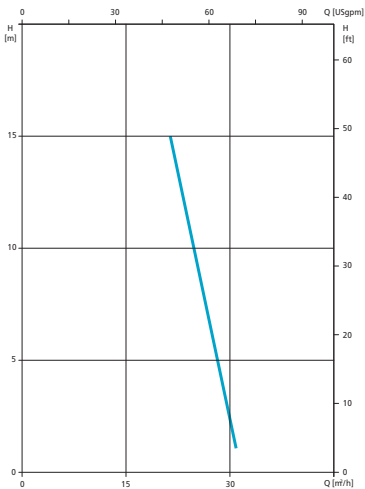
Diaphragm self-priming portable pumps



Features :

- High Capacity Diaphragm Pump.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	1100 mm
Length	905 mm
Height	885 mm
Max dry weight	155 kg (342 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	530	l/min	140	USgpm
Max head	15	m	49	ft
Solid handlings	60	mm	2,3"	in
Operating speed range	1400 – 2800			rpm
Rated power	5,7	kW	7,6	HP
Fuel tank size	6,5	l	1,7	USg
Fuel consumption	2,7	l/h	0,7	USgph
Max running hours	2,4			h

Diesel and Gasoline engines

Cooling	Air
Make	Kohler (D)
Model	15LD350

Diesel and Gasoline engines

Cooling	Air
Make	Honda (G)
Model	GX270

LB 100 E

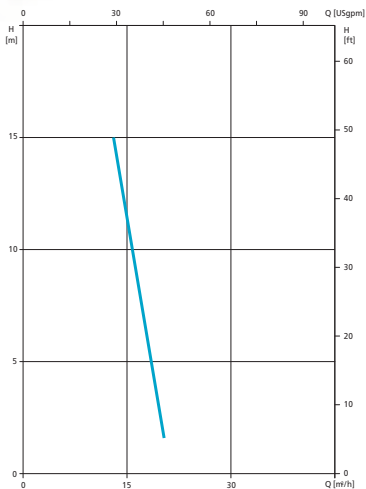
Diaphragm self-priming portable pumps



Features :

- High Capacity Diaphragm Pump.
- Electric Driven.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	1100 mm
Length	905 mm
Height	885 mm
Max dry weight	137 kg (302 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	520	l/min	134	USgpm
Max head	15	m	49	ft
Solid handlings	50	mm	2"	in
Operating speed	1450			rpm
Rated power	3,0	kW	4,0	HP
Frequency	50			Hz
Voltage	230/400			V
Max running hours	6,3			A

Wellpoint centrifugal pumps

WEL range



The WEL range of fully automatic, rapid, self-priming pumps is designed for wellpoint applications with a high flow rate. The WEL ECO is capable of drawing significant quantities of air and maintaining a wellpoint system under vacuum, or draining an excavation, thanks to the semi-open impeller, which also makes it suitable for pumping liquids with solids in suspension.

The WEL PST model, high performed unit, is suitable for gravous applications when it is needed to work 24 per day, thanks to the strong efficiency that can guarantee a real fuel savings.

The automatic WEL TANK range is suitable for applications with changing ground water level and flow requirements. Being electric driven, it is very silent, energy efficient and suitable to work in residential areas.

MAX. FLOW
UP TO 340 m³/h



+25% MORE
EFFICIENT IN DEEP
WATER



MAX. HEAD UP
TO 32 m



INCREASED
UTILIZATION

Simple service and
long service
intervals



ENGINEERED
DESIGN
for severe con-
ditions



30%
FUEL
SAVINGS



STACKABILITY
one by one



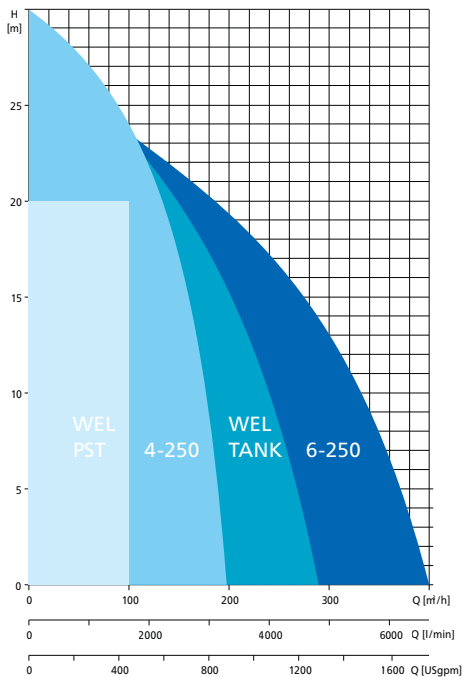
15%
SPACE
SAVING



COMPACT
SIZE
with maximum flow



WEL range Performance curve



WEL PST 100

Wellpoint pumps (WEL range)



Technical information

Dimensions

Width	1100 mm
Length	2200 mm
Height	1550 mm
Max dry weight	1590 kg (3505 lbs)

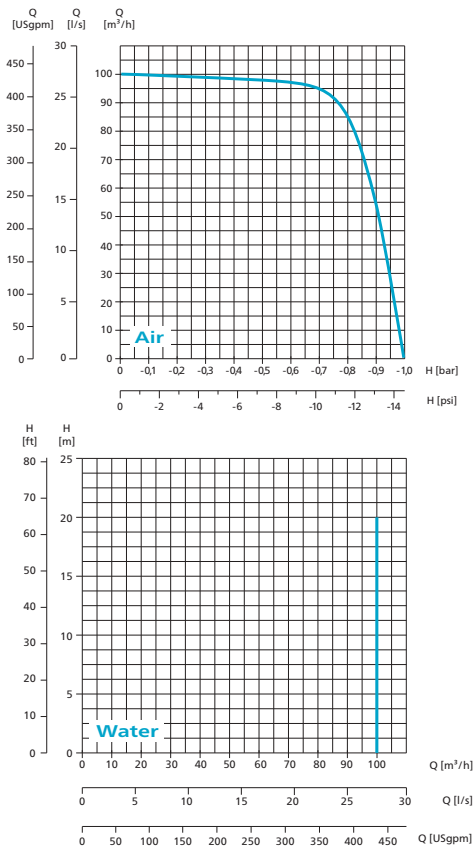
Features :

- High capacity and robust Piston pump.
- Galvanized stoner catcher with stainless steel filter.
- Easy access to wear components.
- Stackable.
- High fuel autonomy.

Specifications

Pump size	100/150	mm	4-6"	in
Max flow	100	m ³ /h	440	USgpm
Max head	20	m	65	ft
Solid handlings	8	mm	0,3"	in
Operating speed		2000		rpm
Rated power	9,8	kW	13,2	HP
Fuel tank size	200	l	53	
Fuel consumption	1,6	l/h	0,4	usg/h
Max running hours		120		h

Performance Curves accor. to UNI 9906



WEL ECO 4-250

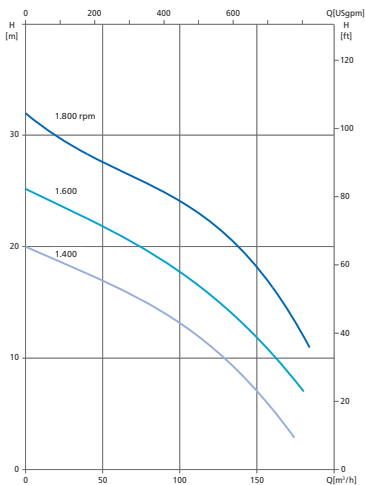
Wellpoint pumps (WEL range)



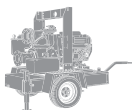
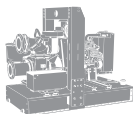
Features :

- Robust in prime and re prime operation.
- Easily manages air + water mixtures during priming.
- Easy access to wear components
- High fuel autonomy.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	950 mm
Length	1800 mm
Height	1520 mm
Max dry weight	1085kg (2390 lbs)

Dimensions

Width	1410 mm
Length	3200 mm
Height	1880 mm
Max dry weight	1090 kg (2400 lbs)

Specifications

Pump size	100	mm	4"	in
Max flow	180	m ³ /h	790	USgpm
Max head	32	m	105	ft
Solid handlings	50	mm	2"	in
Operating speed range	1400 - 1800			rpm
Rated power	22	kW	30	HP
Fuel tank size	300	l	79	USg
Fuel consumption	5,4	l/h	1,4	USgph
Max running hours	56			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 1903M

Diesel Engine

Cooling	Air
Make	Deutz
Model	D2011L03I

WEL ECO 6-250

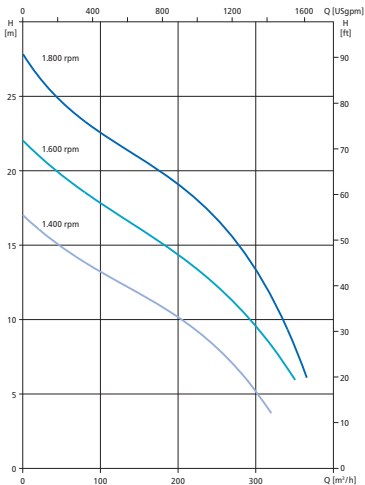
Wellpoint pumps (WEL range)



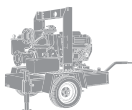
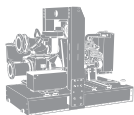
Features :

- Robust in prime and re prime operation.
- Easily manages air + water mixtures during priming.
- Easy access to wear components
- High fuel autonomy.

Performance Curves accor. to UNI 9906



Technical information



Dimensions

Width	950 mm
Length	1800 mm
Height	1520 mm
Max dry weight	1160 kg (2560 lbs)

Dimensions

Width	1410 mm
Length	3200 mm
Height	1880 mm
Max dry weight	1130 kg (2490 lbs)

Specifications

Pump size	150	mm	6"	in
Max flow	340	m ³ /h	1,500	USgpm
Max head	28	m	90	ft
Solid handlings	76	mm	3"	in
Operating speed range	1400 – 1800			rpm
Rated power	22	kW	30	HP
Fuel tank size	300	l	79	USg
Fuel consumption	5,4	l/h	1,4	USgph
Max running hours	56			h

Diesel Engine

Cooling	Water
Make	Kohler
Model	KDI 1903M

Diesel Engine

Cooling	Air
Make	Deutz
Model	D2011L03I

WEL TANK

Wellpoint pumps (WEL range)



Features :

- Highly efficient variable flow pump.
- Easy service and maintenance.
- Fully electric driven.
- Portable and easy field installation.

Technical information

Dimensions

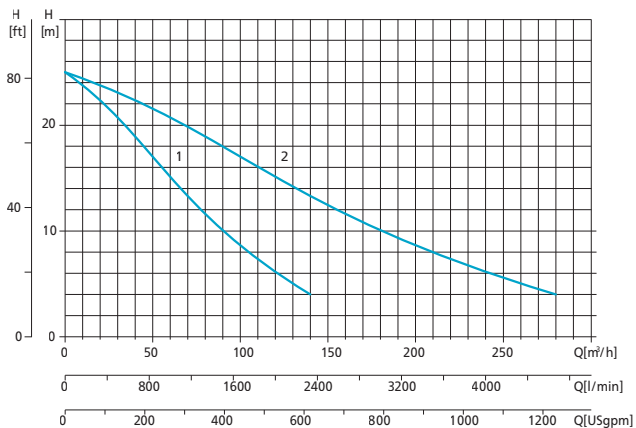
Width	1370 mm
Length	1900 mm
Height	1850 mm
Max dry weight	900 kg (1984 lbs)

Specifications

Pump size	100/150	mm		
Max flow	137+137(274)	m ³ /h		
Max head	24	m		
Nominal Air capacity	105+105(210)	m ³ /h		
Rated power	5,6	kW		
Max power input (p2)	6,6	kW		



Performance Curves accor. to UNI 9906



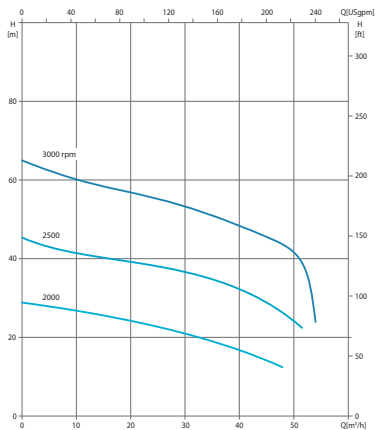
JET 2-215



Features :

- Wet prime system.
- Light weight and portable.
- Easy clean up.

Performance Curves accor. to UNI 9906



Technical information

Dimensions

Width	780 mm
Length	1250 mm
Height	1030 mm
Max dry weight	235 kg (520 lbs)

Specifications

Pump size	50	mm	2"	in
Max flow	53	m ³ /h	230	USgpm
Max head	64	m	210	ft
Solid handlings	17	mm	0.7"	in
Operating speed range	2000 – 3000			rpm
Rated power	10,4	kW	13,9	HP
Fuel tank size	4,0	l	1,1	USg
Fuel consumption	3,0	l/h	0,8	USgph
Max running hours	1,3			h

Gasoline engine

Cooling	Air
Make	Kohler
Model	25LD425-2

Submersible pumps



WEDA D range (Drainage pumps)

Ground water removal | Excavation dewatering | Open pit dewatering
Process water supply | Storm water and flood control | Mining



Construction



Utility



Rental



Residential



General Industry



Municipal



Public and
Governmental



Roadworks



WEDA S range (Sludge pumps)

Tank clean-out | Agricultural product wash down pit
Treatment plants | Trench and pond cleaning | Mining



Construction



Utility



Rental



Municipal

Public and
Governmental

WEDA L range (Slurry pumps)

Dredging | Mining | Industry



Construction



Utility



Rental



Municipal

Public and
Governmental

Submersible pumps

Drainage pumps (WEDA D)



WEDA drainage pumps are designed for an extensive range of dewatering applications, across multiple industries. They provide the performance, reliability and ease of use you need for pumping water with abrasive solids, ground water or raw water.



HIGH CORROSION RESISTANCE

Unique aluminum alloy offers the perfect combination of strength, light weight and corrosion resistance

FLEXIBILITY

Discharges can be mounted vertically or sideways as required

MOTOR PROTECTION

Class F motors, with thermal switches in each winding

EXTENDED PERFORMANCE

Pump design ensures all-round motor cooling for better performance

WEDA+

- Rotation control
- Phase failure protection
- Thermal switches
- Phase shifter plugs for three-phase pump

**IMPROVED CABLE SEALING**

Ensures protection against water leakage from cable entry

MODULAR SEALING SOLUTION

Based on pump size, the sealing system is adapted to provide the best solution

IMPROVED WEAR RESISTANCE

High-chrome (55HRC) impellers provide higher wear resistance

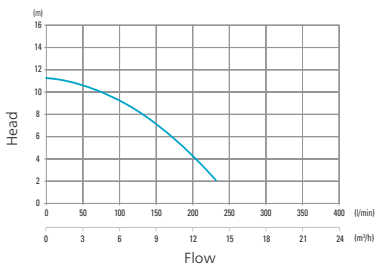
55
HRC

WEDA D04N (50Hz)

Drainage pumps



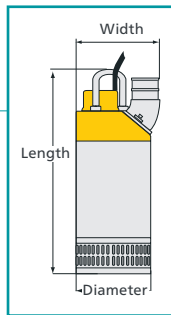
Performance curve



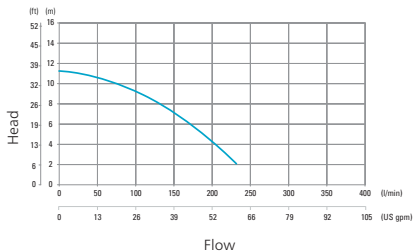
Specifications	1ph	
Rated frequency	50	Hz
Max power P1	0,65	kW
Rated power P2	0.40	kW
Discharge connection	2"	in
Max solid handling size	7,5	mm
Weight and dimensions		
Weight	9,0	kg
Height	340	mm
Width	209	mm
Diameter	182	mm

WEDA D04N (60Hz)

Drainage pumps



Performance curve



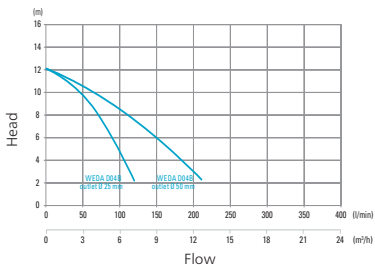
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	0,65	kW
Rated power P2	0,5	hp
Discharge connection	2"	in
Max solid handling size	0,3"	in
Weight and dimensions		
Weight	20,0	lbs
Height	13,4"	in
Width	8,3"	in
Diameter	7,2"	in

WEDA D04BN (50Hz)

Drainage pumps



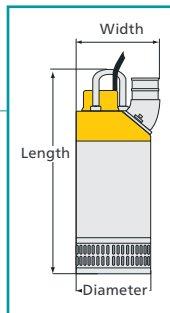
Performance curve



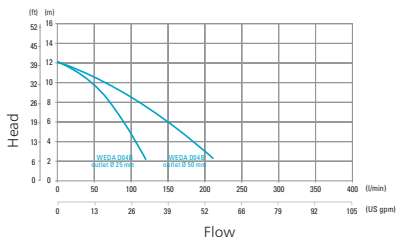
Specifications	1ph	
Rated frequency	50	Hz
Max power P1	0,65	kW
Rated power P2	0,40	kW
Discharge connection	1" (2" optional)	in
Max solid handling size	7,5	mm
Weight and dimensions		
Weight	9,5	kg
Height	415	mm
Width	253	mm
Diameter	220	mm

WEDA D04BN (60Hz)

Drainage pumps



Performance curve



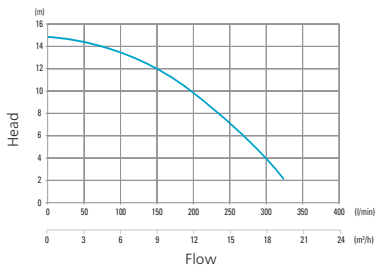
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	0,7	kW
Rated power P2	0,5	hp
Discharge connection	1" (2" optional)	in
Max solid handling size	0,18"	in
Weight and dimensions		
Weight	21,0	lbs
Height	16,4"	in
Width	10,0"	in
Diameter	8,7"	in

WEDA D08N (50Hz)

Drainage pumps



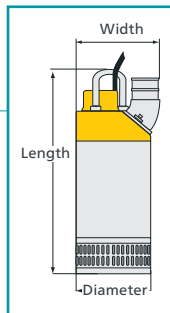
Performance curve



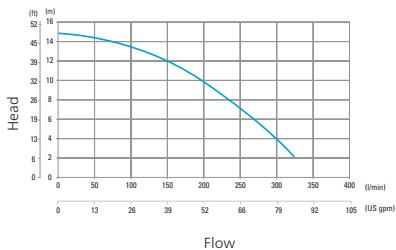
Specifications		1ph	
Rated frequency	50	Hz	
Max power P1	1,2	kW	
Rated power P2	0,8	kW	
Discharge connection	2"	in	
Max solid handling size	7,5	mm	
Weight and dimensions			
Weight	12,4	kg	
Height	358	mm	
Width	210	mm	
Diameter	183	mm	

WEDA D08N (60Hz)

Drainage pumps



Performance curve



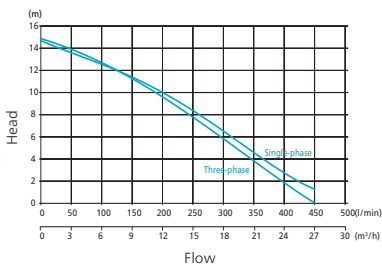
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	1.2	kW
Rated power P2	1.0	hp
Discharge connection	2"	in
Max solid handling size	0,3"	in
Weight and dimensions		
Weight	27,4	lbs
Height	14,1"	in
Width	8,3"	in
Diameter	7,3"	in

WEDA D10N (50Hz)

Drainage pumps



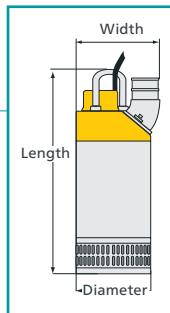
Performance curve



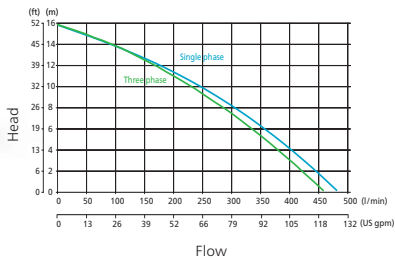
Specifications	1ph	3ph	
Rated frequency	50	50	Hz
Max power P1	1,2	1,2	kW
Rated power P2	1	1	kW
Discharge connection	2"	2"	in
Max solid handling size	4	4	mm
Weight and dimensions			
Weight	12,5	12,5	kg
Height	372	372	mm
Width	222	222	mm
Diameter	183	183	mm

WEDA D10N (60Hz)

Drainage pumps



Performance curve



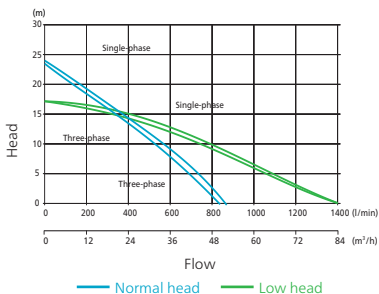
Specifications	1ph	3ph	
Rated frequency	60	60	Hz
Max power P1	1,5	1,2	kW
Rated power P2	1,5	1,3	hp
Discharge connection	2"	2"	in
Max solid handling size	0,16"	0,16"	in
Weight and dimensions			
Weight	27,5	27,5	lbs
Height	17,4"	17,4"	in
Width	8,7"	8,7"	in
Diameter	7,2"	7,2"	in

WEDA D30 (50Hz)

Drainage pumps



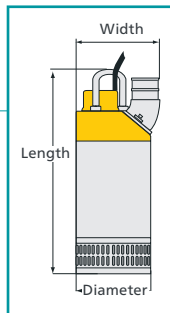
Performance curve



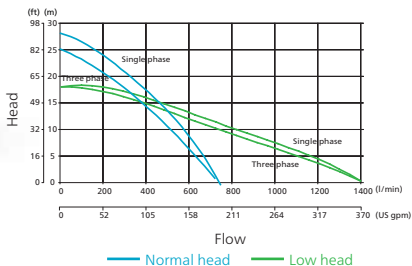
Specifications	WEDA D30L		Weda D30N		
	1ph	3ph	1ph	3ph	
Frequency	50	50	50	50	Hz
Max power P1	2,6	2,5	2,6	2,5	kW
Rated power P2	2	2	2	2	kW
Discharge connection	3" (4")	3" (4")	3" (4")	3" (4")	in
Max solid handling size	7	7	7	7	mm
Weight and dimensions					
Weight	20	20	20	20	kg
Height	503	503	476	476	mm
Width	286	286	286	286	mm
Diameter	220	220	220	220	mm

WEDA D30 (60Hz)

Drainage pumps



Performance curve



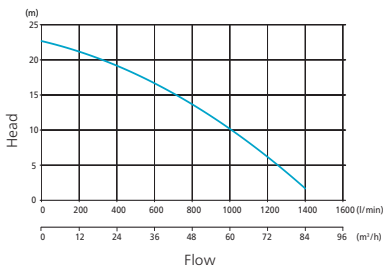
Specifications	WEDA D30L		Weda D30N		
	1ph	3ph	1ph	3ph	
Frequency	60	60	60	60	Hz
Max power P1	3,1	2,9	3,0	2,6	kW
Rated power P2	3,0	3,0	2,7	2,5	hp
Discharge connection	3" (4")	3" (4")	3" (4")	3" (4")	in
Max solid handling size	0,27"	0,27"	0,27"	0,27"	in
Weight and dimensions					
Weight	44,0	44,0	44,0	44,0	lbs
Height	19,8"	18,7"	19,8"	19,7"	in
Width	11,2"	11,2"	11,2"	11,2"	in
Diameter	8,7"	8,7"	8,7"	8,7"	in

WEDA D40N (50Hz)

Drainage pumps



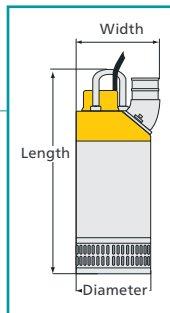
Performance curve



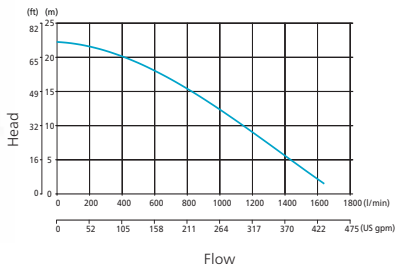
Specifications	1ph	
Rated frequency	50	Hz
Max power P1	3,4	kW
Rated power P2	3,0	kW
Discharge connection	3" (4")	in
Max solid handling size	7	mm
Weight and dimensions		
Weight	25	kg
Height	503	mm
Width	286	mm
Diameter	220	mm

WEDA D40N (60Hz)

Drainage pumps



Performance curve



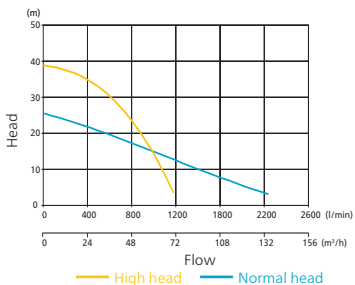
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	3.8	kW
Rated power P2	4,3	hp
Discharge connection	3" (4")	in
Max solid handling size	0,27"	in
Weight and dimensions		
Weight	55,0	lbs
Height	18,7"	in
Width	11,2"	in
Diameter	8,7"	in

WEDA D50 (50Hz)

Drainage pumps



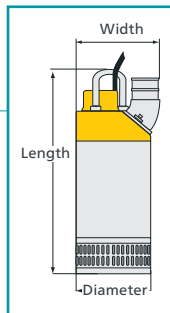
Performance curve



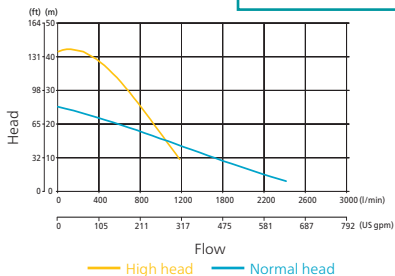
	WEDA D50N	WEDA D50H	
Specifications	3ph	3ph	
Rated frequency	50	50	Hz
Max. power P1	6,6	1,2	kW
Rated power P2	5,6	1	kW
Discharge connection	4" or 3"	3" or 4"	in
Max solid handling size	8	4	mm
Weight and dimensions			
Weight	56	55	kg
Height	720	720	mm
Width	330	302	mm
Diameter	278	278	mm

WEDA D50 (60Hz)

Drainage pumps



Performance curve



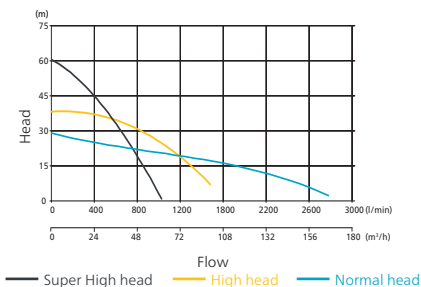
	WEDA D50N	WEDA D50H	
Specifications	3ph	3ph	
Rated frequency	60	60	Hz
Max. power P1	7,5	7,5	kW
Rated power P2	8,5	8,5	hp
Discharge connection	4" (3")	3" (4")	in
Max solid handling size	0,32"	0,32"	in
Weight and dimensions			
Weight	122"	122	lbs
Height	28,3"	28,3"	in
Width	13,0"	11,9"	in
Diameter	10,9"	10,9"	in

WEDA D60 (50Hz)

Drainage pumps



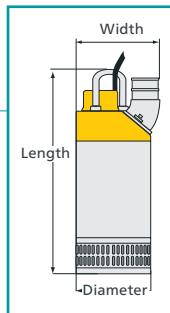
Performance curve



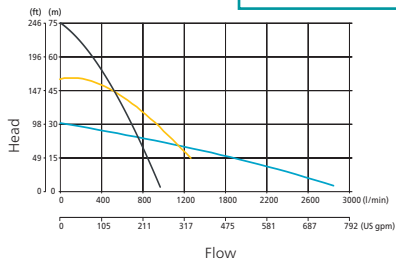
	WEDA D60N	WEDA D60H	WEDA D60SH	
Specifications	3ph	3ph	3ph	
Rated frequency	50	50	5	Hz
Max. power P1	8,8	8,8	8,8	kW
Rated power P2	7,5	7,5	7,5	kW
Discharge connection	4" (3")	3" (4")	3" (4")	in
Max solid handling size	8	8	8	mm
Weight and dimensions				
Weight	61	61	62	kg
Height	760	760	760	mm
Width	330	302	302	mm
Diameter	278	278	278	mm

WEDA D60 (60Hz)

Drainage pumps



Performance curve



— Super High head — High head — Normal head

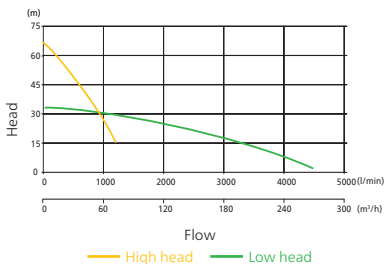
	WEDA D60N	WEDA D60H	WEDA D60SH	
Specifications	3ph	3ph	3ph	
Rated frequency	60	60	60	Hz
Max. power P1	9,9	9,9	10,0	kW
Rated power P2	11.5	11.5	11.5	hp
Discharge connection	4" (3")	3" (4")	3" (4")	in
Max solid handling size	0,32"	0,32"	0,32"	in
Weight and dimensions				
Weight	134	134	138	lbs
Height	29,9"	29,9"	29,9"	in
Width	13,0"	11,9"	11,9"	in
Diameter	10,9"	10,9"	10,9"	in

WEDA D70 (50Hz)

Drainage pumps



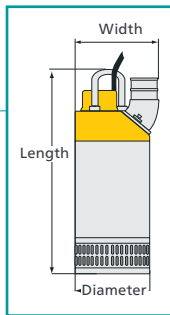
Performance curve



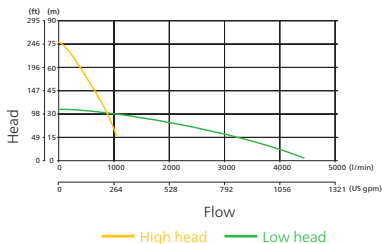
	WEDA D70L	WEDA D70H	
Specifications	3ph	3ph	
Rated frequency	50	50	Hz
Max. power P1	14,0	13,8	kW
Rated power P2	11,8	11,8	kW
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	7	7	mm
Weight and dimensions			
Weight	95	95	kg
Height	911	911	mm
Width	395	395	mm
Diameter	360	360	mm

WEDA D70 (60Hz)

Drainage pumps



Performance curve



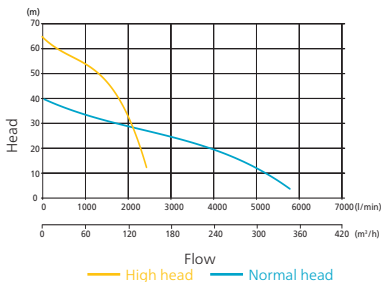
	WEDA D70L	WEDA D70H	
Specifications	3ph	3ph	
Rated frequency	60	60	Hz
Max. power P1	13,4	16,2	kW
Rated power P2	15,0	15,0	hp
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	0,27"	0,27"	in
Weight and dimensions			
Weight	209	209	lbs
Height	15,5"	15,5"	in
Width	35,8"	35,8"	in
Diameter	14,1"	14,1"	in

WEDA D80 (50Hz)

Drainage pumps



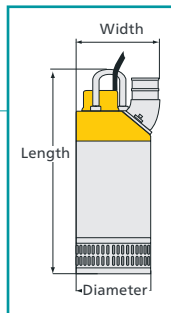
Performance curve



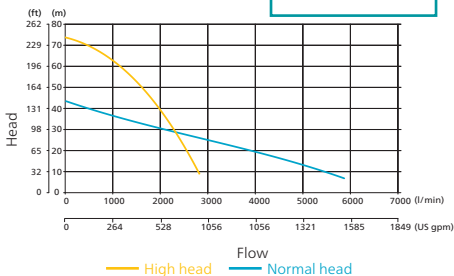
	WEDA D80N	WEDA D80H	
Specifications	3ph	3ph	
Rated frequency	50	50	Hz
Max. power P1	22	22	kW
Rated power P2	20	20	kW
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	12	12	mm
Weight and dimensions			
Weight	180	180	kg
Height	980	980	mm
Width	690	665	mm
Diameter	530	530	mm

WEDA D80 (60Hz)

Drainage pumps



Performance curve



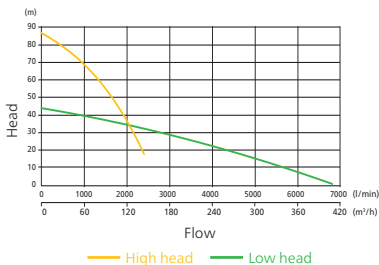
Specifications	WEDA D80N	WEDA D80H	
	3ph	3ph	
Rated frequency	60	60	Hz
Max. power P1	26	26	kW
Rated power P2	31	31	hp
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	0,47"	0,47"	in
Weight and dimensions			
Weight	400	400	lbs
Height	38,6"	38,6"	in
Width	27,2"	26,2"	in
Diameter	20,9"	20,9"	in

WEDA D90 (50Hz)

Drainage pumps



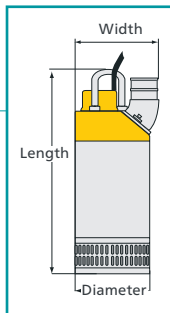
Performance curve



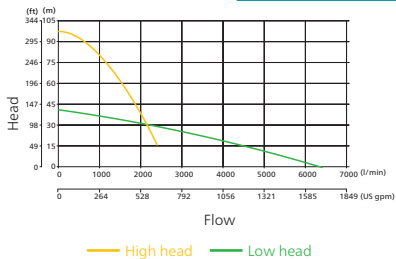
	WEDA D90L	WEDA D90H	
Specifications	3ph	3ph	
Rated frequency	50	50	Hz
Max. power P1	29,3	29,3	kW
Rated power P2	26,5	26,5	kW
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	7	7	mm
Weight and dimensions			
Weight	180	180	kg
Height	1100	1058	mm
Width	480	480	mm
Diameter	400	400	mm

WEDA D90 (60Hz)

Drainage pumps



Performance curve



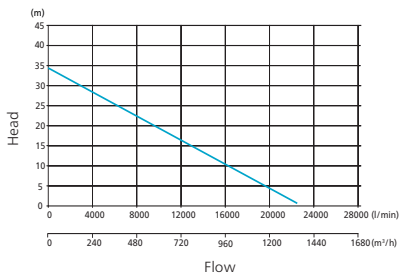
	WEDA D90L	WEDA D90H	
Specifications	3ph	3ph	
Rated frequency	60	60	Hz
Max. power P1	28,6	31,0	kW
Rated power P2	36	36	hp
Discharge connection	6" (4")	4" (6")	in
Max solid handling size	0,27"	0,27"	in
Weight and dimensions			
Weight	400	400	lbs
Height	43,4"	43,4"	in
Width	18,9"	18,9"	in
Diameter	15,8"	15,8"	in

WEDA D100N (50Hz)

Drainage pumps



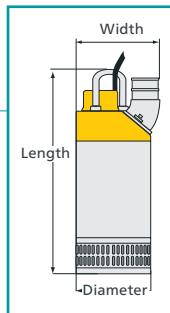
Performance curve



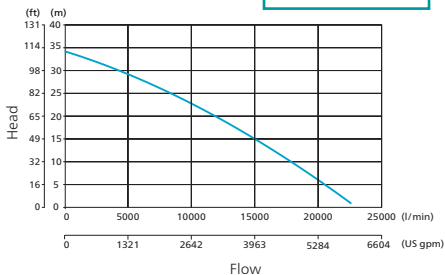
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	65	kW
Rated power P2	54	kW
Discharge connection	10"	in
Max solid handling size	12	mm
Weight and dimensions		
Weight	510	kg
Height	1412	mm
Width	650	mm
Diameter	600	mm

WEDA D100N (60Hz)

Drainage pumps



Performance curve



Specifications	3ph	
Rated frequency	60	Hz
Max power P1	80,0	kW
Rated power P2	84	hp
Discharge connection	10"	in
Max solid handling size	0,47"	in
Weight and dimensions		
Weight	1124	lbs
Height	55,5"	in
Width	25,5"	in
Diameter	23,6"	in

Submersible pumps

Sludge pumps (WEDA S)



WEDA sludge pumps are designed for an extensive range of dewatering applications in tough conditions. They provide the performance, reliability and ease of use you need to pump water with abrasive solids, water having mud, sludge or light slurry.



- WEDA+**
- Rotation control
 - Phase failure protection
 - Thermal switches
 - Phase shifter plugs for three-phase pump



IMPROVED CABLE SEALING

Ensures protection against water leakage from cable entry

DRY RUNNING CAPABILITIES

Improved rib design offers external cooling to motor for extended running time

MOTOR PROTECTION

Class F motors, with thermal switches in each winding

HIGHER SOLIDS HANDLING

Sludge pumps can handle solids up to 50 mm winding

EASY INSPECTION

External oil inspection plug for quick inspection of oil

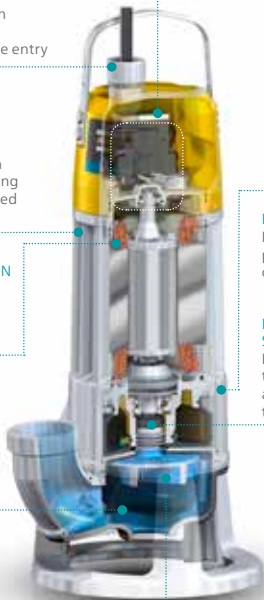
MODULAR SEALING SOLUTION

Based on pump size, the sealing system is adapted to provide the best solution

SUSTAINABLE PERFORMANCE

High-chrome (55HRC) impellers provide higher wear resistance

55 HRC

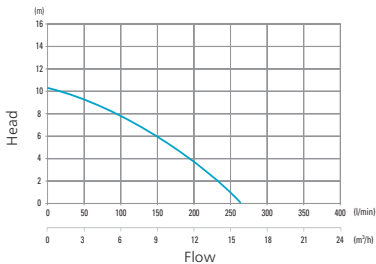


WEDA S04N (50Hz)

Sludge pumps



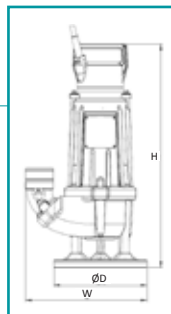
Performance curve



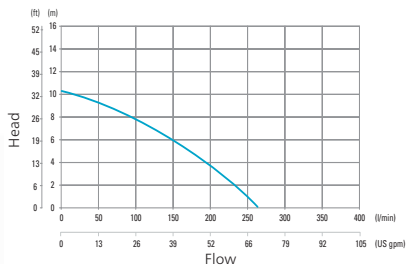
Specifications	1ph	
Rated frequency	50	Hz
Max power P1	0,65	kW
Rated power P2	0,40	kW
Discharge connection	2"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	10	kg
Height	375	mm
Width	277	mm
Diameter	241	mm

WEDA S04N (60Hz)

Sludge pumps



Performance curve



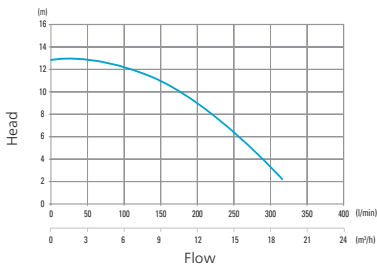
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	-	kW
Rated power P2	0,5	hp
Discharge connection	2"	in
Max solid handling size	1"	in
Weight and dimensions		
Weight	22,1	lbs
Height	14,7"	in
Width	10,9"	in
Diameter	9,5"	in

WEDA S08N (50Hz)

Sludge pumps



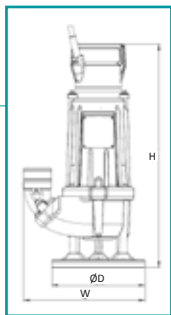
Performance curve



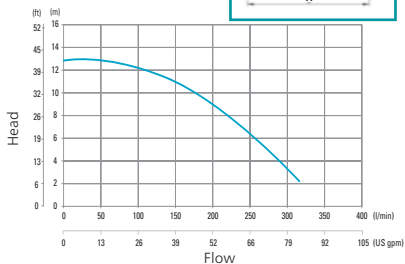
Specifications	1ph	
Rated frequency	50	Hz
Max power P1	1,2	kW
Rated power P2	0,75	kW
Discharge connection	2"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	13	kg
Height	416	mm
Width	277	mm
Diameter	241	mm

WEDA S08N (60Hz)

Sludge pumps



Performance curve



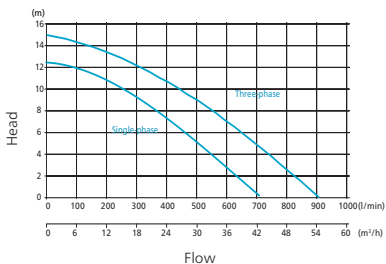
Specifications	1ph	
Rated frequency	60	Hz
Max power P1	-	kW
Rated power P2	1,0	hp
Discharge connection	2"	in
Max solid handling size	1"	in
Weight and dimensions		
Weight	28,7	lbs
Height	16,38"	in
Width	10,9"	in
Diameter	9,5"	in

WEDA S30N (50Hz)

Sludge pumps



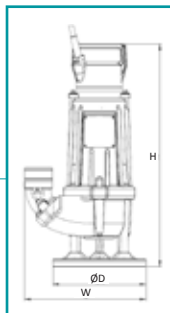
Performance curve



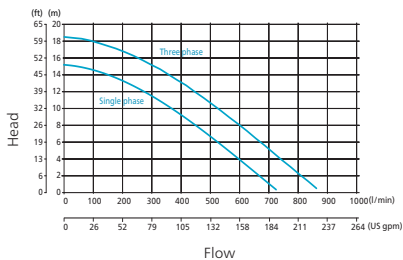
Specifications	1ph	3ph	
Rated frequency	50	50	Hz
Max power P1	2,2	3,1	kW
Rated power P2	1.8	2.5	kW
Discharge connection	3"	3"	in
Max solid handling size	50	50	mm
Weight and dimensions			
Weight	25	25	kg
Height	620	620	mm
Width	326	326	mm
Diameter	250	250	mm

WEDA S30N (60Hz)

Sludge pumps



Performance curve



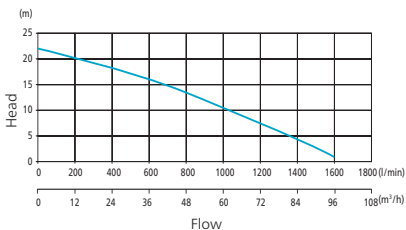
Specifications	1ph	3ph	
Rated frequency	60	60	Hz
Max power P1	2,8	3,6	kW
Rated power P2	3,0	40	hp
Discharge connection	3"	3"	in
Max solid handling size	2"	2"	in
Weight and dimensions			
Weight	55	55	lbs
Height	24,3"	24,3"	in
Width	12,8"	12,8"	in
Diameter	9,8"	9,8"	in

WEDA S50N (50Hz)

Sludge pumps



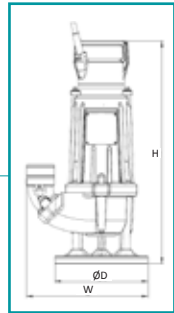
Performance curve



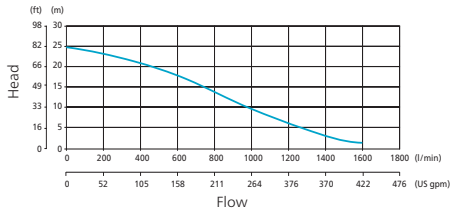
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	6	kW
Rated power P2	5.2	kW
Discharge connection	3" or 4"	in
Max solid handling size	50	mm
Weight and dimensions		
Weight	59	kg
Height	810	mm
Width	450	mm
Diameter	350	mm

WEDA S50N (60Hz)

Sludge pumps



Performance curve



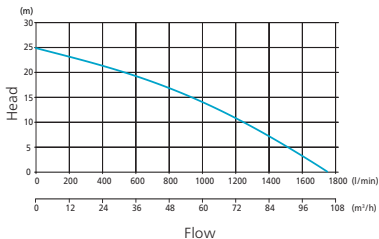
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	6,5	kW
Rated power P2	7,5	hp
Discharge connection	3" or 4"	in
Max solid handling size	2"	in
Weight and dimensions		
Weight	130	lbs
Height	32"	in
Width	17,7"	in
Diameter	13,8"	in

WEDA S60N (50Hz)

Sludge pumps



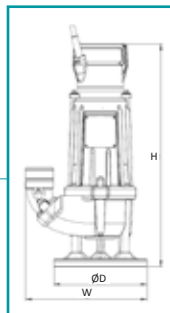
Performance curve



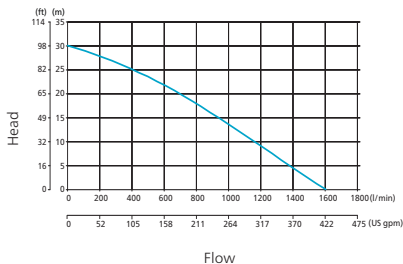
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	8,0	kW
Rated power P2	6,9	kW
Discharge connection	3" (4")	in
Max solid handling size	50	mm
Weight and dimensions		
Weight	65	kg
Height	870	mm
Width	450	mm
Diameter	350	mm

WEDA S60N (60Hz)

Sludge pumps



Performance curve



Specifications	3ph	
Rated frequency	60	Hz
Max power P1	8,0	kW
Rated power P2	9,2	hp
Discharge connection	3" (4")	in
Max solid handling size	2"	in
Weight and dimensions		
Weight	143	lbs
Height	34,2"	in
Width	17,7"	in
Diameter	13,8"	in

Submersible pumps

Slurry pumps (WEDA L)



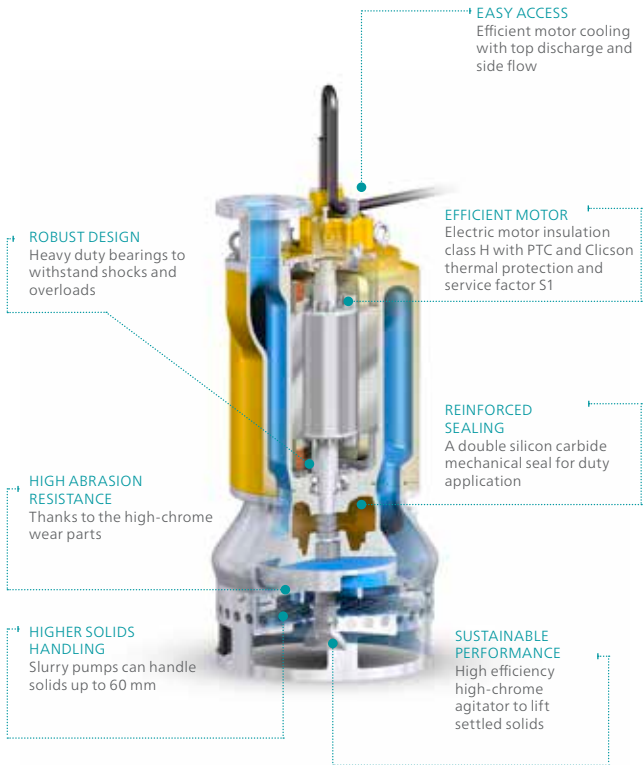
WEDA slurry pumps are designed for an extensive range of dewatering applications in abrasive media with high solid content, like in quarries, mines or Dredging.

UP TO
DENSITY 1700kg/m³

SOLID
HANDLING
20-60 mm

DESIGN
BOTTOM SIDE
AND TOP
DISCHARGE

PH values
from 2 to 10

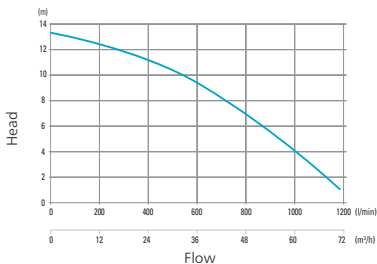


WEDA L40N (50Hz)

Slurry pumps



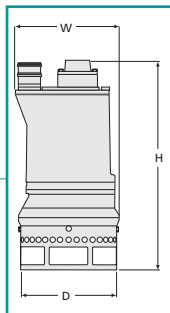
Performance curve



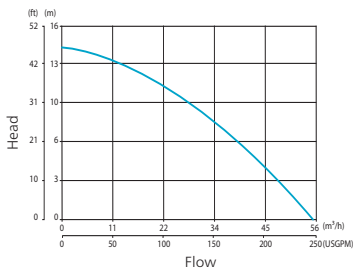
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	4,5	kW
Rated power P2	3,70	kW
Discharge connection	3"	in
Max solid handling size	20	mm
Weight and dimensions		
Weight	185	kg
Height	793	mm
Width	388	mm
Diameter	337	mm

WEDA L40N (60Hz)

Slurry pumps



Performance curve



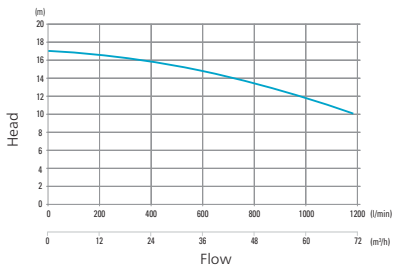
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	4,5	kW
Rated power P2	4,9	hp
Discharge connection	3"	in
Max solid handling size	0,8"	in
Weight and dimensions		
Weight	408	lbs
Height	31,2"	in
Width	15,3"	in
Diameter	13,3"	in

WEDA L50N (50Hz)

Slurry pumps



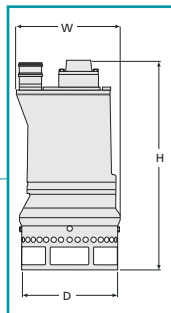
Performance curve



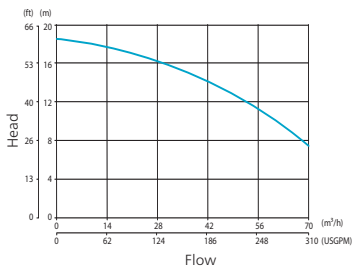
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	6,8	kW
Rated power P2	5,50	kW
Discharge connection	4"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	260	kg
Height	914	mm
Width	435	mm
Diameter	413	mm

WEDA L50N (60Hz)

Slurry pumps



Performance curve



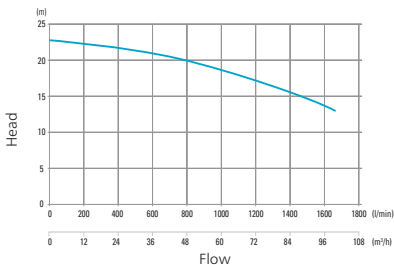
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	6,8	kW
Rated power P2	7,4	hp
Discharge connection	4"	in
Max solid handling size	1,0"	in
Weight and dimensions		
Weight	573	lbs
Height	36,0"	in
Width	17,1"	in
Diameter	16,3"	in

WEDA L60N (50Hz)

Slurry pumps



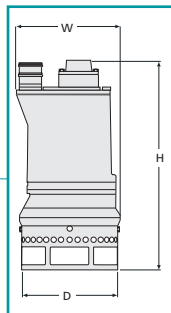
Performance curve



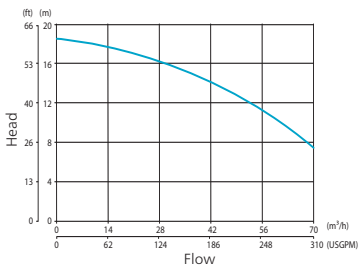
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	10,4	kW
Rated power P2	9,0	kW
Discharge connection	4"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	260	kg
Height	914	mm
Width	435	mm
Diameter	413	mm

WEDA L60N (60Hz)

Slurry pumps



Performance curve



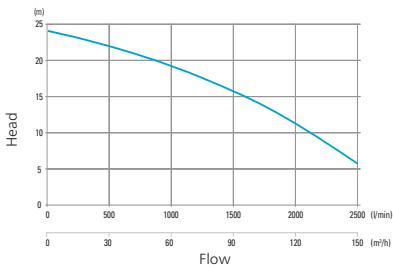
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	10,4	kW
Rated power P2	12,0	hp
Discharge connection	4"	in
Max solid handling size	1,0"	in
Weight and dimensions		
Weight	573	lbs
Height	36,0"	in
Width	17,1"	in
Diameter	16,3"	in

WEDA L70N (50Hz)

Slurry pumps



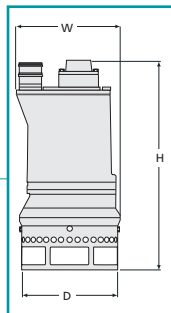
Performance curve



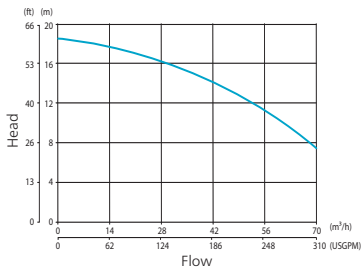
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	50	kW
Rated power P2	11.0	kW
Discharge connection	4"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	270	kg
Height	914	mm
Width	435	mm
Diameter	413	mm

WEDA L70N (60Hz)

Slurry pumps



Performance curve



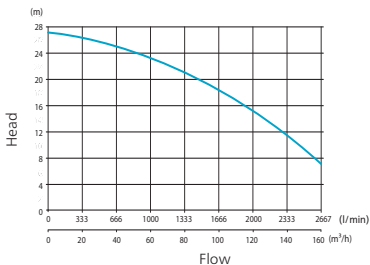
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	12,8	kW
Rated power P2	14,8	hp
Discharge connection	4"	in
Max solid handling size	1,0"	in
Weight and dimensions		
Weight	596	lbs
Height	36,0"	in
Width	17,1"	in
Diameter	16,3"	in

WEDA L80N (50Hz)

Slurry pumps



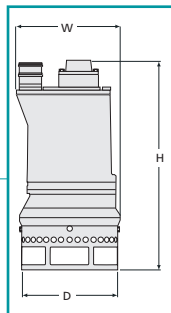
Performance curve



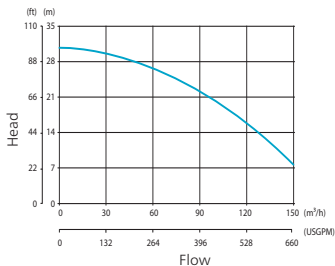
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	16,1	kW
Rated power P2	15,0	kW
Discharge connection	4"	in
Max solid handling size	25	mm
Weight and dimensions		
Weight	310	kg
Height	1080	mm
Width	580	mm
Diameter	495	mm

WEDA L80N (60Hz)

Slurry pumps



Performance curve



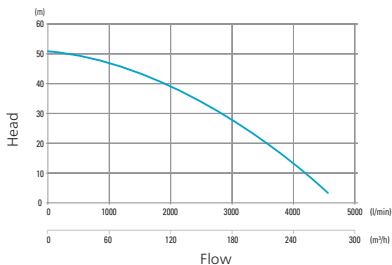
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	16,1	kW
Rated power P2	20,2	hp
Discharge connection	4"	in
Max solid handling size	1,0"	in
Weight and dimensions		
Weight	684	lbs
Height	43,0"	in
Width	22,9"	in
Diameter	19,5"	in

WEDA L95N (50Hz)

Slurry pumps



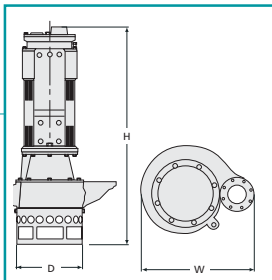
Performance curve



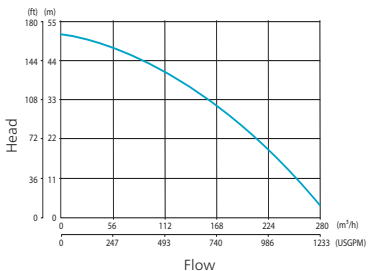
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	40,1	kW
Rated power P2	37	kW
Discharge connection	4"	in
Max solid handling size	35	mm
Weight and dimensions		
Weight	750	kg
Height	1605	mm
Width	935	mm
Diameter	546	mm

WEDA L95N (60Hz)

Slurry pumps



Performance curve



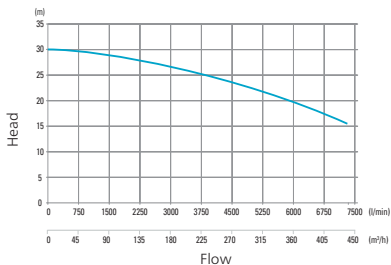
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	40,1	kW
Rated power P2	49,7	hp
Discharge connection	4"	in
Max solid handling size	1,4"	in
Weight and dimensions		
Weight	1654	lbs
Height	63,2"	in
Width	36,9"	in
Diameter	21,5"	in

WEDA L100N (50Hz)

Slurry pumps



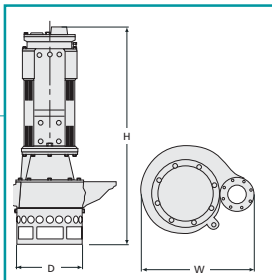
Performance curve



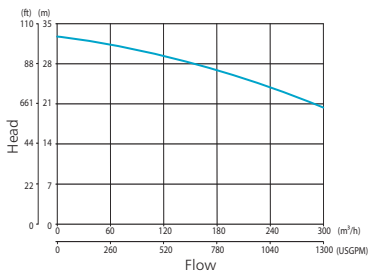
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	48,8	kW
Rated power P2	45	kW
Discharge connection	6"	in
Max solid handling size	60	mm
Weight and dimensions		
Weight	1005	kg
Height	1605	mm
Width	935	mm
Diameter	546	mm

WEDA L100N (60Hz)

Slurry pumps



Performance curve



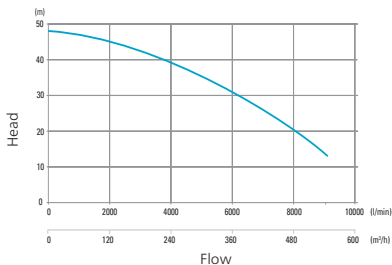
Specifications	3ph	
Rated frequency	60	Hz
Max power P1	48,8	kW
Rated power P2	60,4	hp
Discharge connection	6"	in
Max solid handling size	2,4"	in
Weight and dimensions		
Weight	2216	lbs
Height	63,2"	in
Width	36,9"	in
Diameter	21,5"	in

WEDA L110N (50Hz)

Slurry pumps



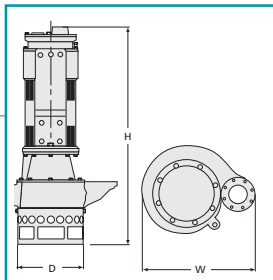
Performance curve



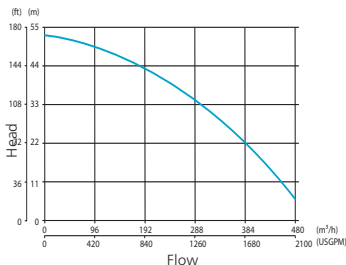
Specifications	3ph	
Rated frequency	50	Hz
Max power P1	79,9	kW
Rated power P2	75	kW
Discharge connection	6"	in
Max solid handling size	60	mm
Weight and dimensions		
Weight	1070	kg
Height	1605	mm
Width	935	mm
Diameter	546	mm

WEDA L110N (60Hz)

Slurry pumps



Performance curve

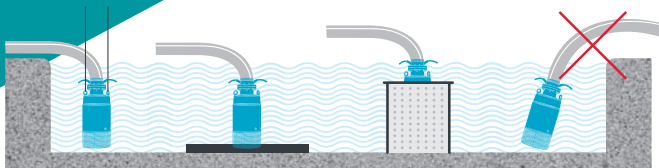


Specifications	3ph	
Rated frequency	60	Hz
Max power P1	79,9	kW
Rated power P2	100,6	hp
Discharge connection	6"	in
Max solid handling size	2.4"	in
Weight and dimensions		
Weight	2359	lbs
Height	63,2"	in
Width	36,9"	in
Diameter	21,5"	in

Submersible pumps

Other information

Installing a submersible pump



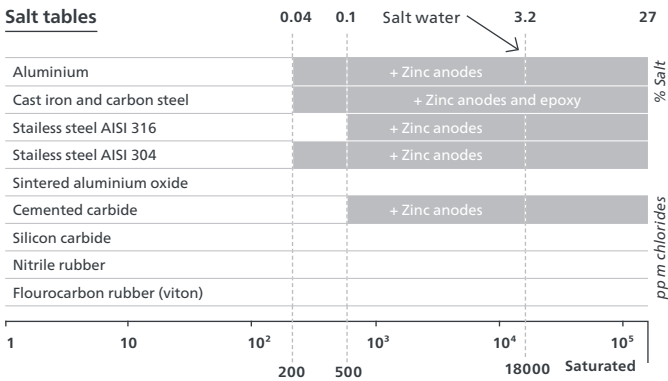
Hanging by rope
(Not by electric cable)

Seated on platform

Separated by strainer

Sunk

Salt tables





Self priming terminology

General requirement

Application: define the nature of the service, have a short description, try to define q.ty

Liquid pec

Info required:

- SG = specific gravity
- Viscosity
- Temperature
- Corrosive and/or abrasive properties
- Nature, percentage and maximum size of solid content

Flow

State whether total or per unit

Suction static head

- Type of condition > suction lift (90% of apps) – flooded suction conditions (10% of apps)
- Understand the distance between water surface and pump centre («eye of the impeller»)

Friction losses > focus on suction

Info required to dimension the right pump

- Pipe lengths
- Diameters
- Type of materials
- Fittings, elbows, valves

PRESSURE

Verify if standard app (1 atm) – if not understand what pressure we have (es. Pressurised tank to pump)

Discharge friction head

Info required to dimension the right pump

- Pipe lengths
- Diameters
- Type of materials
- Fittings, elbows, valves

Pressure head

Is end of the pipe discharging to atmospheric pressure, if not final pressure needed

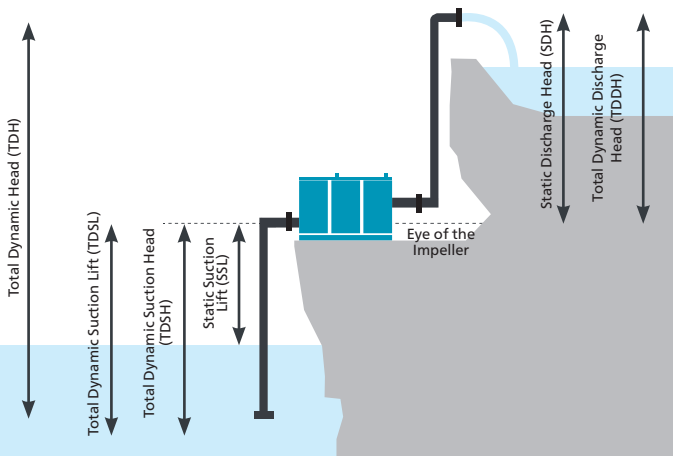
Total head = Total discharge head – Total suction head

note: refered system (0 point) is pump centre – «eye of the impeller»

$$\text{TDSL} = \text{SSL} + \text{Friction Loss}$$


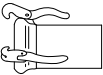
$$\text{TDDH} = \text{SDH} + \text{Friction Loss}$$

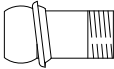
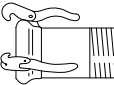

$$\text{TDH} = \text{TDSL} + \text{TDDH}$$




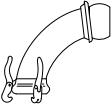


Friction losses are affected by length and size of pipework, bends, gate valves, strainer and velocity of flow. When SG (Specific Gravity) is different than $SG=1.0$ (Clean Water), it will also affect the Total Dynamic Head.

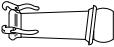
Accessories

Description	Material	Notes	Weight	Length	Diameter		Connections	
			kg	mm	mm/ in	[mm]	[in]	
N° 1 Male hose fitting		Galva- nized steel	0,4	110	40	50	2"	
			0,6	130	50			
			0,8	140	60	80	3"	
			1,3	230	80	100	4"	
			1,7	280	100	100	5"	
			2,8	290	120	120	6"	
			3,5	295	150	150	8"	
			8	355	200	200	10"	
			12	400	250	250	12"	
			24	505	300	300	12"	
N° 2 Female hose fitting		Galva- nized steel	0,8	105	40	50	2"	
			1,3	140	50			
			1,4	150	60			
			1,5	225	80	80	3"	
			2,0	240	80	100	4"	
			2,3	250	100			
			3,0	255	120	120	5"	
			3,6	260	150	150	6"	
			9	300	200	200	8"	
			11	340	250	250	10"	
25	440	300	300	12"				





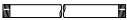

Description	Material		Weight	Length	Diameter	Connections				
			kg	mm	mm/ in	[mm]	[in]			
N° 3 Threaded male coupling		Galva- nized steel	0,3	60	1 ¼"	50	2"			
			0,4	70	1 ½"					
			0,5	85	2"					
						1,4	145	3"	80	3"
						1,9	150	4"	100	4"
						3,0	190	5"	120	5"
						3,5	170	5"	150	6"
						3,8	180	6"		
N° 4 Threaded female coupling		Galva- nized steel	0,7	75	1 ¼"	50	2"			
			0,9	80	1 ½"					
			1	100	2"					
						1,7	110	3"	80	3"
						2,1	115	4"	100	4"
						3,2	125	5"	120	5"
						4	140	6"	150	6"
N° 5 Flanged male coupling		Galva- nized steel	1,5	50		50	2"			
			5	100		80	3"			
			6	120		100	4"			
			6,5	180		150	6"			
			10	205		200	8"			
			7	180		250	10"			
			12	255		300	12"			
			20	315		2,1	2,1"			
			30	380		3,2	3,2"			


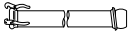
Accessories

Description		Material	Notes	Weight	Length	Diameter	Connections		
				kg	mm	mm/ in	[mm]	[in]	
N° 6		Galvanized steel		2,5			80	3"	
45° elbow				3,4			100	4"	
				4,5			120	5"	
				6			150	6"	
				15			200	8"	
				22			250	10"	
N° 7		Galvanized steel	2 levers 3 levers	1,7			50	2"	
90° elbow				2,7			80	3"	
				4			100	4"	
				7			120	5"	
				7,5			150	6"	
				16			200	8"	
				24			250	10"	
				42			300	12"	
				N° 8				Galvanized steel	
	Male cap	2	120	5"					
2,9		150	6"						
7		200	8"						
11		250	10"						
N° 9					0,3			50	2"
Female cap	1,4				100			4"	
	1,9				120			5"	
	2,3				150			6"	
	7				200			8"	
	11				250			10"	

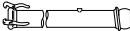

Description		Material	Notes	Weight	Length	Diameter	Connections		
				kg	mm	mm/ in	[mm]	[in]	
N° 10 Threaded plug		Galvanized steel		0,2			32	1¼"	
N° 11		Galvanized steel		6,5			100	4"	
Female/female/ male "T" fitting				8			120	5"	
				10			150	6"	
				26			200	8"	
				32			250	10"	
N°12		Galvanized steel		1			50	2"	
Male/male inverter coupling				2,2			100	4"	
				3,4			120	5"	
				4,5			150	6"	
N° 13		Galvanized steel		1,3			50	2"	
Female/female inverter coupling				3,3			100	4"	
				4			120	5"	
				5			150	6"	
N° 14		Galvanized steel		3,5		80	100	4"	
Male/female reducer				4,8			100	120	5"
				5,5			100	150	6"
				5,5			120	150	6"
				8			150	200	8"
				13			150	250	10"
				3,6			100	80	3"
				4,9			120	100	4"
				55			150	100	4"
				55			150	120	5"



Accessories

Description		Material	Notes	Weight	Length	Diameter	Connections	
				kg	mm	mm/ in	[mm]	[in]
N° 15 Male/female gate valve		Galva- nized steel		5,5			80	3"
				9			100	4"
				10			120	5"
				14			150	6"
N° 16 O-ring		NBR rubber		0,02			50	2"
				0,05			80	3"
				0,07			100	4"
				0,1			120	5"
				0,15			150	6"
				0,28			200	8"
				0,47			250	10"
0,67			300	12"				
N° 17 Assembly		Brass		1,5	-	-	32	1¼"
N° 18 Elbow coupling		Galva- nized steel		0,6		-	32	1¼"
N° 19 Riser pipe		Galva- nized steel		2,5	0,02			
				5	0,05			
				7,5	0,07			
				10	0,1		32	1¼"
				12,5	0,15			
15	0,28							
N° 20 Coupling sleeve		Steel		0,25	-	-	32	1¼"




Description		Material	Notes	Weight	Length	Connections	
				kg	mm	[mm]	[in]
N° 22 Female Trasflex hose coupling		PVC	Max vacuum 10 m H ₂ O	2,9	1	40	1½"
N° 23 Discharge pipe		Galva- nized steel		9	4,0	80	3"
				11	5,8		
				12	6,2		
				12	4,0	100	4"
				16	5,8		
				17	6,2		
				15,5	4,0	120	5"
				21	5,8		
				22,5	6,2		
				16	3,0	150	6"
				21,5	4,0		
				29,5	5,8		
				32	6,3		
				44	4,0		
				59	5,8		
				63	6,3	200	8"
				66	4,0		
90	5,8						
98	6,4	250	10"				
80	4,0						
100	5,8						
109	6,5	300	12"				


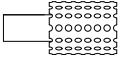
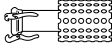

Accessories

Description		Material	Notes	Weight	Length	Connections				
				kg	mm	[mm]	[in]			
Header pipe with threaded holes		Galvanized steel	N° 3 - 1 1/4"	12	5,8	100	4"			
				13	6,2					
				16,5	4,0	120	5"			
				22,5	4,0	150	6"			
			N° 6 - 1 1/4"	18,0	5,8	100	4"			
				19,0	6,2					
				22,5	5,8	120	5"			
				32	5,8	150	6"			
				24	6,2	120	5"			
				33	6,3	150	6"			
			Header pipe complete with cock assemblies		Galvanized steel	N° 3 - 1 1/4"	16,5	5,8	100	4"
							17,5	6,2		
						N° 6 - 1 1/4"	24,0	5,8	100	4"
							25,0	6,2		
N° 3 - 1 1/4"	21	4,0				120	5"			
N° 4 - 1 1/4"	28,5	5,8								
	30	6,2								
N° 6 - 1 1/4"	31,5	5,8								
	33	6,2								
N° 3 - 1 1/4"	27	4,0				150	6"			
N° 4 - 1 1/4"	38	5,8								
	39	6,3								
N° 6 - 1 1/4"	41	5,8								
	42	6,3								





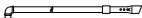
Description		Material	Notes		Weight	Length	Connections	
					kg	mm	[mm]	[in]
N° 26 Flexible hose (PVC with steel spiral)		PVC	Max vacuum [m H ₂ O]	10	9,5	4	50	2"
				10	12,5	6		
				10	18	10		
				9	9	2	80	3"
				9	17	4		
				9	19,5	5		
				9	23	6	100	4"
				9	53	2		
				9	22	4		
				9	26	5		
				9	30	6		
				9	10	10		
				N° 28 Flexible hose (Rubber / canvas with steel spiral)		Rubber / canvas	Max vacuum [m H ₂ O]	6
6	20	3						
6	27	4						
6	38,5	6	150					6"
6	22,5	2						
6	29,5	3						
6	39	4	200					8"
6	47,5	5						
6	55	6						
8	42	2	250					10"
8	67	4						
8	79	5						
8	92	6	300					12"
8	64	2						
8	77	3						
8	103	4						
8	124	5						
8	153	6						
8	75	2						
8	112,5	3						
8	150	4						






Accessories

Description		Material	Notes	Weight	Length	Pressure	Connections	
				[kg]	[m]	[bar]	[mm]	[in]
N° 29 Flat discharge hose		PVC/ canvas		0,32/m		8	40	1½"
				0,41/m		10	50	2"
				0,56/m		8	60	2½"
				0,77/m		8	80	3"
				1,05/m		8	100	4"
				1,28/m		6	127	5"
				1,60/m		4	150	6"
				2,40/m		2,5	204	8"
			Rubber/ canvas		1,30/m		5	250
			2,10/m		5	300	12"	
N° 30 Flat discharge hose with female coupling		PVC/ canvas		4,3	10	10	40	1½"
				7,5	10	10	50	2"
				9	10	8	80	3"
				11	10	4	100	4"
				14	10	6	127	5"
				23,5	10	4	150	6"
			28	10	2,5	204	8"	
	Rubber/ canvas		39,5	10	5	250	10"	
			76	10	5	300	12"	
N° 31 Flat discharge hose with male/female couplings		PVC/ canvas		5,5	10	8	40	1½"
				8	10	10	50	2"
				8	10	16		
				11,5	10	8	80	3"
			2 levers	14,5	10	8	100	4"
			3 levers	15	10	8		
				18	10	6	127	5"
				23	10	4	150	6"
				41	10	2,5	204	8"
			Rubber/ canvas		64	10	5	250
			168	10	5	300	12"	





Description		Material	Notes	Weight	Length	Pressure	Connections	
				[kg]	[m]		[bar]	[mm]
N° 31.1 Jetting hose with male/female couplings		Rubber/ canvas		11	10	10	50	2"
N° 32 Strainer		Galva- nized steel		0,67	0,200		40	1½"
				0,95	0,240		50	2"
				1,95	0,320		80	3"
				2,87	0,440		100	4"
				4,5	0,550		120	5"
				8	0,640		150	6"
				15,5	0,810		200	8"
N° 33 Strainer with female coupling		Galva- nized steel		1,7	0,210		50	2"
				2,8	0,320		80	3"
				5	0,450		100	4"
				7,5	0,610		120	5"
				10,5	0,700		150	6"
				32	0,910		200	8"
				49	1,190		250	10"
				98	1,840		300	12"
N° 33 Flexible suction hose with strainer (PVC with steel spiral)		PVC + Galva- nized steel		9,5	4		50	2"
				11	6			
				12,5	6			
				15	6		60	2½"
				17,5	4			
				20,5	5		80	3"
				24	6			
22,5				4				
				26,5	5		100	4"
	31	6						

Accessories

Description		Material	Notes	Weight	Length	Connections			
				[kg]	[m]	[mm]	[in]		
N° 35 Flexible suction hose with strainer (Rubber / canvas with steel spiral)		Rubber / canvas + Galvanized steel		30	4	120	5"		
				38	6				
				28	2				
								150	6"
				30	3				
				44	4				
				52	5				
								200	8"
60	6								
73,5	4								
99,5	6								
N° 37 Wellpoint spear (aluminium frame, reps stainless steel screen)		Aluminium + Stainless steel		1,7	0,650	32	1¼"		
N° 39 Wellpoint spear for gravel		Aluminium		1,7	0,350	32	1¼"		
N° 44 Riser pipe + wellpoint spear (Ref. 37)		PVC + Galvanized steel		10	3	32	1¼"		
12,5				4					
15				5					
17,5				6					
N° 45 Riser pipe + wellpoint spear for gravel		Aluminium + Steel		10	3	32	1¼"		
12,5				4					
15				5					
17,5				6					

Description		Material	Notes	Weight	Length	Connections	
				[kg]	[m]	[mm]	[in]
N° 46 Riser pipe		PVC		3	2	32	1 1/4"
				4,5	3		
				5,5	4		
				7	5		
				8	6		
N° 47 Riser pipe with elbow		PVC		3	2	32	1 1/4"
				4	3		
				5	4		
				6,5	5		
				9	6		
N° 48 Wellpoint spear		PVC + PE HD		0,7	-	32	1 1/4"
N° 49 Riser pipe with elbow and wellpoint spear		PVC + PE HD		3,4	2	32	1 1/4"
				4,6	3		
				6	4		
				7	5		
				8,5	6		
N° 50 Discharge pipe with couplings		PE HD		10	3,0	100	4"
				12	4,0		
				16	5,8		
				12,5	4,0	120	5"
				15,5	5,8		
				18,5	4,0	150	6"
				26	5,8		

Accessories

Description		Material	Notes	Weight		Length		Connections	
				[kg]	[m]	[mm]	[in]		
N° 51 Header pipe with 3 threaded holes		PE HD	N° 3 - 1 1/4"	6,5	5,8	100	4"		
				10,5	4,0	120	5"		
				17	4,0	150	6"		
N° 52 Header pipe with 6 threaded holes		PE HD	N° 6 - 1 1/4"	17,5	5,8	120	5"		
				27,5	5,8	150	6"		
N° 53 Header pipe with 3 cock assemblies		PE HD	N° 3 - 1 1/4"	10	5,8	100	4"		
				15	4,0	120	5"		
				21	4,0	150	6"		
N° 54 Header pipe with 6 cock assemblies		PE HD	N° 6 - 1 1/4"	25	5,8	120	5"		
				33	5,8	150	6"		

Main options for WEDA range

Discharge connections

We understand that you will have preferred equipment connections, so we offer four types. All can be mounted in either a vertical or horizontal position.

- Hose
- Storz
- ISO-G
- NPT



Level regulators

For easy control of water level by automatic pump switch-on/-off:

- Float switch



Zinc anodes

Specifically required for pumping water with a high concentration of salts such as sea water, brine, etc.



Low suction collar

To easily drain the water level down to the floor.

Hoses

Multiple hose options with a variety of end connections are available in different lengths ready in stock.

Epoxy coating

For additional protection against corrosion.

Parts and Service

Service paks

All-in-one box tailored to match your equipment. Our Preventive Maintenance Kits contain all the parts required for the equipment's scheduled maintenance program. These kits are easy to obtain and attractively priced. When the repairs are carried out by one of our certified technicians, your machine can achieve maximum productivity.

Service paks	Service intervals	Kits - What is included
	250 h	Oil filter, Oil drain washer
	500 h	Oil filter, Fuel filter, Air filter, Oil drain washer, Fuel - pre filter* V-Belt
	1000 h	Oil filter, Fuel filter, Air filter, Oil drain washer, Fuel - pre filter*, V-Belt*, Air filter safety cartridge*
	2000 h	Oil filter, Fuel filter, Air filter, Oil drain washer, Fuel - pre filter*, V-Belt*, Air filter safety cartridge*
	3000 h	Oil filter, Fuel filter, Air filter, Oil drain washer, Fuel - pre filter*, V-Belt*, Air filter safety cartridge*

*please refer to your machine manual or spare parts book

Service paks					
Machine models	250 h	500 h	1000 h	2000 h	3000 h
PAS 4 / 6 / 8 Kubota	X / yearly	X	X	X	
PAS 100 / 150 / 200 MF Kohler		X / yearly			
PAS 100 / 150 / 200 MF Deutz		X / yearly			
PAS 300 MF Perkins		X / yearly	X		
PAS 100 / 150 / 200 HF Deutz		X / yearly	X		X
PAS 300 HF Volvo		X / yearly	X	X	X
VAR 4 / 6 / 8 / 10 Kohler		X / yearly	X		
VAR 4 / 6 / 8 / 10 / 12 Deutz		X / yearly	X		
VAR 12 Perkins		X / yearly	X		X
WEL 4 / 6 Kohler		X / yearly			
WEL 4 / 6 Deutz		X / yearly	X		
BEN 4 / 6 Kohler		X / yearly			
BEN 4 / 6 Deutz		X / yearly	X		

Pump parts

Atlas Copco pump parts such as for example wear and hydraulic parts are designed to withstand the toughest applications and ensure the promised performance.

Thanks to the material selection and optimized design, it increases the machine productivity while keeping the life cycle cost low.

- Wear resistant in toughest conditions
- Optimized design for minimized performance drop
- Low life cycle cost



Parts and Service

O-ring kit

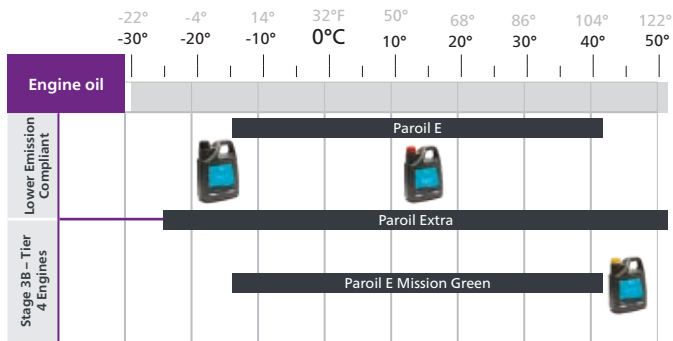
The gasket kit or O-Ring kit contains the proper selection of gaskets to reseal the pump casing after a service intervention like changing an impeller.

Moreover, the kit offers the price benefit against the individual items and is the ideal solution to prevent leakages after the service.



Fluids

Original lubricants are the best way to protect your machine investment, by both maximizing uptime and by improving the resale value of your equipment. Atlas Copco lubricants have been especially engineered for your compressor to match our maintenance specifications and therefore provide optimal protection for your products. Our lubricants last longer and perform better.



	Paroil E Mineral lubricant		5l	1615 5953 00	Engine oil
			20l	1615 5954 00	
			210l	1615 5955 00	
			1000l	1630 0096 00	
	Paroil E Mission Green Mineral lubricant for Stage 3b/Tier 4 engines		5l	1630 0471 00	Engine oil
			20l	1630 0472 00	
			210l	1630 0473 00	
	Parcool EG Coolant for water-cooled diesel engines		5l	1604 5308 01	Coolant
			20l	1604 5307 02	
			210l	1604 5306 01	
	Parcool EG Concentrate Coolant for water-cooled diesel engines		5l	1604 8159 01	Coolant

Parts and Service

Seal kits

The seal kit contains the following parts

- Mechanical shaft seal
- O-ring kit

The seal kit is the proper selection of components for a mechanical seal change to ensure trouble free operation after service.

The high quality mechanical seals and gaskets are well selected to meet the quality requirements and its foreseen lifetime.

The Seal kits are available for the complete pump range and offers a price benefit against the individual items.



Instant Service Pack

The seal kit contains the following parts

- Mechanical shaft seal
- O-ring kit

The seal kit is the proper selection of components for a mechanical seal change to ensure trouble free operation after service.

The high quality mechanical seals and gaskets are well selected to meet the quality requirements and its foreseen lifetime.

The Seal kits are available for the complete pump range and offers a price benefit against the individual items.



Wear part kit

The wear part kit is a typical selection of components to bring the pump performance back to factory setup.

It is the ideal solution for a machine overhaul or refurbishment.

The wear part kits are available for the complete pump range and offers a price benefit against the individual items

Wear part kit - What is included	Impeller	Shaft key
	Wear plate	Impeller nut
	Wear plate gasket	Rear wearplate*
	Wear plate fixation	

*please refer to your machine manual or spare parts book

Parts and Service



Geofencing



Service notifications



Reports



Vital parameters

Fleetlink

FleetLink is an intelligent telematics system that helps optimize fleet usage, reduce maintenance cost, ultimately saving time and money. It allows you to manage your machines conveniently wherever you are, always having the latest fleet information at hand.

Fleetlink keeps you connected in an ever changing world, with state of the art digital monitoring tools. Remotely manage your machine fleet whether big or small. FleetLink keeps you connected to your job-site, machines and your team.

Getting connected is very easy! Fleetlink is comes with your machines as an option or can be retrofitted.

Contact with your Atlas Copco contact available packages, choose your package.



www.atlascopco.com/fleetlink



Friction losses

Friction Loss

In smooth bore pipe

igpm	2°	3°	4°	6°	8°	10°	12°	m ³ /h
50	10	1.4	0.3					10
75	20	3	0.7					15
100	35	5	1	0.1				20
150		12	2.5	0.35				30
200		18	4.5	0.6				50
300		40	10	1.2	0.4			75
400			18	2.2	0.7			100
500			28	3.5	1.1			125
600			38	4.5	1.5			150
700				6.5	2			175
800				8	2.7			200
900				10	3.4	1	0.4	225
1000				13	4	1.4	0.5	250
1200				18	6	2	0.8	300
1400				26	8	3	1	350
1600				32	11	4	1.5	400
1800				36	14	4.5	2	450
2000				38	17	5	2.5	500
2500					25	9	4	650
3000					38	12	5	750
4000						21	8	1000

Suction Head

As affected by temperature

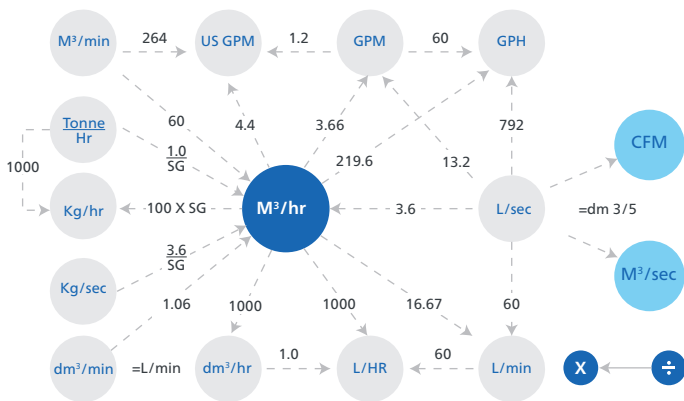
Temperature Pressure		Vapour Pressure	Max. Elevation	
°C	°F	kN/m ²	m	ft
0	32	0.6	10.3	33.8
5	41	0.9	10.2	33.5
10	50	1.2	10.2	33.5
15	59	1.7	10.2	33.5
20	68	2.3	10.1	33.1
25	77	3.2	10.0	32.8
30	86	4.3	9.9	32.5
35	95	5.6	9.8	32.2
40	104	7.7	9.5	31.2
45	113	9.6	9.4	30.8
50	122	12.5	9.1	29.9
55	131	15.7	8.7	28.5
60	140	20	8.3	27.2
65	149	25	7.8	25.6
70	158	32.1	7.1	23.3
75	167	38.6	6.4	21
80	176	47.5	5.5	18
85	185	57.8	4.4	14.4
90	194	70	3.2	10.5
95	203	84.5	1.7	5.6
100	212	101.33	0	0

Utilities table

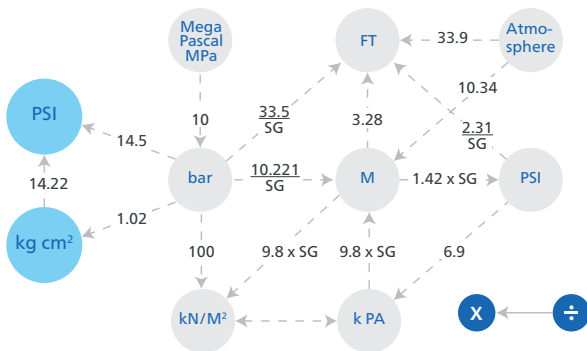
Conversion Factors

Inches	x	25.4	=	mm	x	0.0394	=	Inches
Feet	x	0.3048	=	m	x	3.281	=	Feet
Yards	x	0.9144	=	m	x	1.0936	=	Yards
Miles	x	1.609	=	km	x	0.6214	=	Miles
Ft ²	x	0.0929	=	m ²	x	10.764	=	Ft ²
Miles ²	x	2.59	=	km ²	x	0.3861	=	Miles ²
In ²	x	16387	=	mm ³	x	0.00061	=	In ²
Ft ²	x	0.02832	=	m ³	x	35.31	=	Ft ²
Gals	x	4.546	=	L	x	0.22	=	Gals
(Imp)	x	0.004546	=	m ³	x	220	=	(Imp)
Gals(US)	x	3.785	=	L	x	0.2642	=	Gals(US)
LBS	x	0.4536	=	kg	x	2.2046	=	LBS
Tons	x	1016	=	kg	x	0.000984	=	Tons
Gal/min (Imp)	x	0.2727	=	m ³ /h	x	3.667	=	Gal/min (Imp)
	x	0.0757	=	L/sec	x	13.21	=	
	x	1.2	=	USGPM	x	0.833	=	
L/sec	x	3.6	=	m ³ /h	x	0.277	=	L/sec
PSI	x	0.068995	=	Bar	x	14.504	=	PSI
	x	0.703 S.G	=	M Liquid	x	1.422xS.G	=	
Ft Liquid	x	0.02989xS.G	=	Bar	x	33.456 S.G	=	Ft Liquid
STD.ATM	x	1.01225	=	Bar	x	0.9876	=	STD.ATM
HP	x	0.7457	=	Kw	x	7.341	=	HP

Flow Conversions



Head/pressure Conversions



Hydraulic Characteristics

Affinity Laws :

There are certain relationship in existence which allows prediction of head and flow characteristic of pump when measured at different speeds and with different impeller diameter. These are called as Affinity Laws.

Effect of change in speed on pump performance.

When the speed of the of a centrifugal pump changes, the flow at any given point varies directly to the speed, the head varies to the square of the speed and power varies to cube of the speed. These relations are termed the affinity laws and can be expressed as follows:

$Q \propto N$ where Q = flow $H \propto N^2$ where H = head

$P \propto N^3$ where P = absorbed power N = speed (r p m)

Then for a given change in speed, taking suffix 1 as relating to known performance, and suffix 2 as the performance which is required we have:

$$\frac{Q_2}{Q_1} = \frac{N_2}{N_1} \quad \text{therefore} \quad Q_2 = \frac{Q_1 \times N_2}{N_1}$$

$$\text{and } \frac{H_2}{H_1} = \left(\frac{N_2}{N_1}\right)^2 \quad \text{therefore} \quad H_2 = H_1 \left(\frac{N_2}{N_1}\right)^2$$

$$\text{and } \frac{P_2}{P_1} = \left(\frac{N_2}{N_1}\right)^3 \quad \text{therefore} \quad P_2 = P_1 \left(\frac{N_2}{N_1}\right)^3$$

Effect of change in diameter of impeller.

The performance of a centrifugal pump can be varied by reducing the impeller diameter. The effect of impeller reduction has the following relationships, when the performance of a full diameter impeller is known.

$Q > D$ where Q = flow $H > D^2$ where H = head

$P > D^3$ where P = absorbed power D = impeller diameter

$$\text{therefore } \frac{Q_2}{Q_1} = \frac{D_2}{D_1} \quad \text{therefore} \quad Q_2 = \frac{Q_1 \times D_2}{D_1}$$

$$\text{and } \frac{H_2}{H_1} = \left(\frac{D_2}{D_1}\right)^2 \quad \text{therefore} \quad H_2 = H_1 \left(\frac{D_2}{D_1}\right)^2$$

$$\text{and } \frac{P_2}{P_1} = \left(\frac{D_2}{D_1}\right)^3 \quad \text{therefore} \quad P_2 = P_1 \left(\frac{D_2}{D_1}\right)^3$$



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