ELECTRIC SUBMERSIBLE DEWATERING PUMPS

WEDA range (50 Hz)

Sustainable Productivity

Atlas Copco

WEDA dewatering pumps

WEDA pumps and accessories were designed for an extensive range of dewatering applications, across multiple industries. They provide the performance, reliability and ease of use you need. WEDA pumps feature a built-in starter and motor protection system along with optional automatic level control. Adjustable wear resistant rubber diffusors and hardened high chrome impellers ensure durability in tough environments.

WEDA pumps are made for durability. The unique sealing system and modular design make them one of the most flexible pumps on the market. Easy to use and maintain, WEDA pumps promise optimal performance. The WEDA ISP (Instant Service Pack) is the optimum maintenance solution and can be easily fitted at the job site.

With the ability to handle flows up to 16.500 l/min and a power rating up to 54 kW, WEDA pumps are the perfect partner for your dewatering needs.

POWERFUL & PORTABLE

DESIGNED FOR EASY SERVICE

250-16.500 l/min

Atlas Copco

*Not all features and options mentioned are available on the small range. Please check data sheets for exact details.

The WEDA+ range

The WEDA+ range includes all of the characteristics customers have come to expect from existing WEDA pumps; with the addition of new features that have been developed to take performance to the next level. Benefits include higher efficiency, simplified maintenance and increased capacity.

Across all models, a new feature of the range is rotation control and phase failure protection. This innovation negates the risk of the impeller rotating in the wrong direction and will stop the pump in event of phase failure.

The WEDA range is a plug and play solution but we have taken the WEDA+ models to the next level. This includes the adding of a new cable entry system, allowing the use of a wider range of cable configurations.

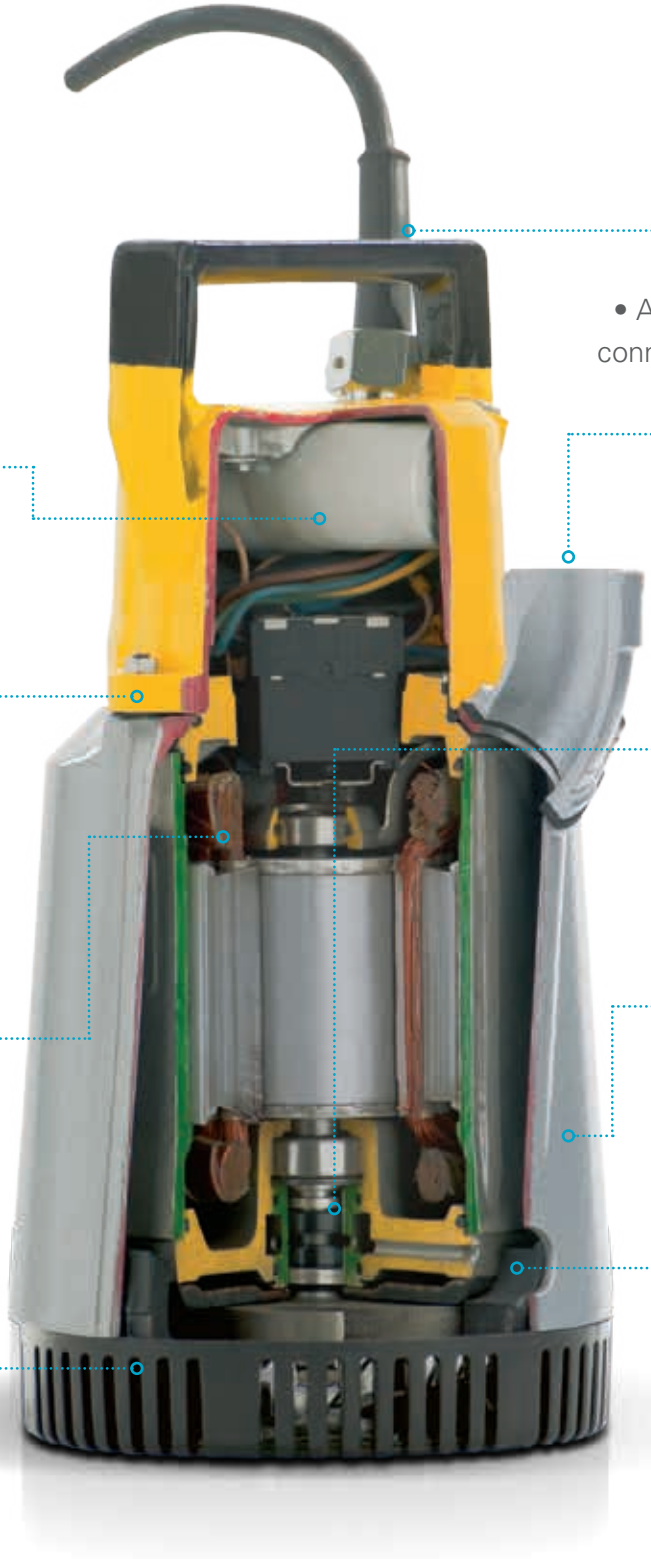
WEDA+ models feature a new, improved aluminium alloy with higher corrosion resistance. This increases robustness and lifetime, even when tacking the toughest of applications. We have also improved performance when it comes to solid handling and reduced the risk of clogging.

UP 15% LIGHTER

UP TO 20% SMALLER

UP TO 20% LESS ELECTRICITY CONSUMED

WEDA standard features



- Reinforced cable entry
- Adjustable discharge connection, 180° or 90°
- Low friction seals
- External plug for grease filling
- High-quality chrome clog free impeller
- Built-in run capacitor/contactor
- Easy access to the electrical components
- Class F insulated stators with thermo switches in all windings
- Adjustable lower diffuser made from wear resistant nitrile rubber

*Not all features and options mentioned are available on the small range. Please check data sheets for exact details.

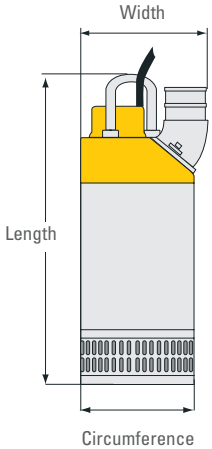
WEDA+ extended features

- New cable entry to allow multiple cable types and improved sealing
- New starter units with rotation control and phase failure protection
- New motor design with higher efficiency and reduced start current
- New double row bearings with improved lifetime
- New hydraulic ends for higher efficiency and improved LCC
- Improved aluminium alloy with higher corrosion resistance

Medium and large WEDA range pumps

TECHNICAL DATA

		WEDA 10		WEDA 30		WEDA 40	WEDA 50+		WEDA 60+	
Specifications		**Single phase**	**Three phase**	**Low head**	**Normal head**	**Normal head**	**Normal head**	**High head**	**Normal head**	**High head**
Max. head	m	15,5	15	16,5	22,5	21	24	39	29	38
Max. flow	l/min	483	466	1245	822	1320	2300	1200	2600	1500
	m3/h	29	28	75	50	79	146	67	161	86
Rated output	kW	1	1	2	2	3	5,6	5,6	7,5	7,5
Max. power input	kW	1,5	1,2	2,6	2,5	3,4	6,6	6,6	8,8	8,8
Rated current (110v)	A	13	-	-	-	-	-	-	-	-
Rated current (230v)	A	6,1	4	11	7,3	10	16,2	16,2	22,7	22,7
Rated current (400v)	A	-	2	-	4	5,3	9,3	9,3	12,7	12,7
Rated current (500v)	A	-	1,8	-	3,6	4,4	7,3	7,3	10,2	10,2
Shaft speed	rpm	2900	2900	2900	2900	2900	2880	2880	2890	2890
Discharge connection	inch	2″	2″	3″ (4″)	3″ (4″)	3″ (4″)	4" (3")	3" (4")	4" (3")	3" (4")
Max solid handling size	mm	4	4	7	7	7	8	8	8	8
Weight and dimensions										
Weight	kg	12,5	12,5	20	20	25	55	55	61	61
Length	mm	442	372	503	476	503	720	720	760	760
Width	mm	222	222	286	286	286	330	302	330	302
Circumference	mm	183	183	220	220	220	278	278	278	278



TYPICAL APPLICATIONS

- Mining and tunneling
- Offshore

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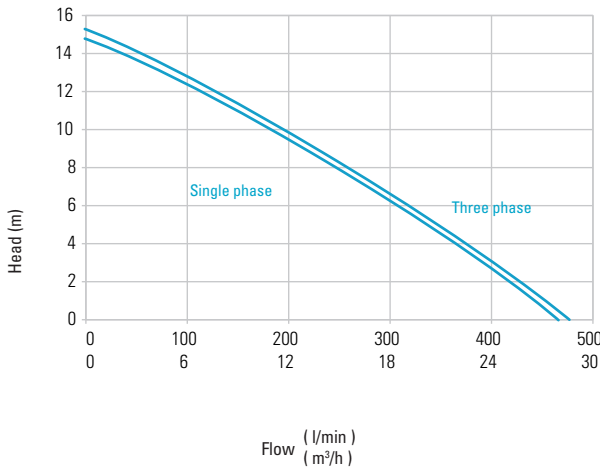
TECHNICAL DATA

		WEDA 70		WEDA 90		WEDA 100	WEDA 60S
Specifications		**Low head**	**High head**	**Low head**	**High head**	**Normal head**	**Normal head**
Max. head	m	32	65	46	96	42,5	23
Max. flow	l/min	4750	1583	6777	2111	16.200	952
	m3/h	285	95	407	127	972	57
Rated output	kW	11,8	11,8	26,5	26,5	54	7,5
Max. power input	kW	14	13,8	29,3	29,3	65	8,5
Rated current (110v)	A	-	-	-	-	-	-
Rated current (230v)	A	-	-	-	-	-	26
Rated current (400v)	A	23	25	45	47	110	16
Rated current (500v)	A	18	18	38	38	80	13
Shaft speed	rpm	2900	2900	2900	2900	1450	2900
Discharge connection	inch	6" (4")	4" (6")	6" (4")	4" (6")	10"	3" (4")
Max solid handling size	mm	7	7	7	7	12	50
Weight and dimensions							
Weight	kg	95	95	180	180	510	70
Length	mm	911	911	1058	1058	1412	760
Width	mm	395	395	437	437	650	330
Circumference	mm	360	360	401	401	600	278

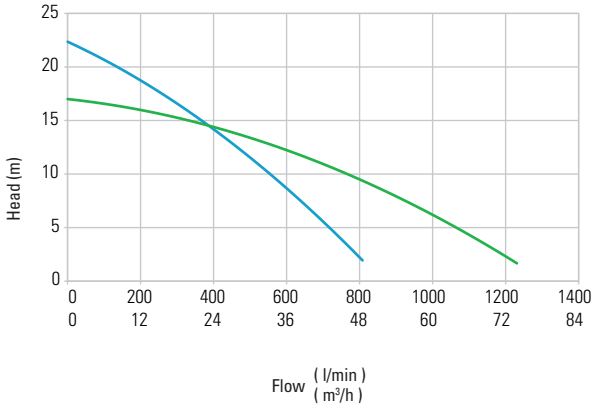
- Construction
- Industrial
- Emergency
- Maintenance

Pump curves

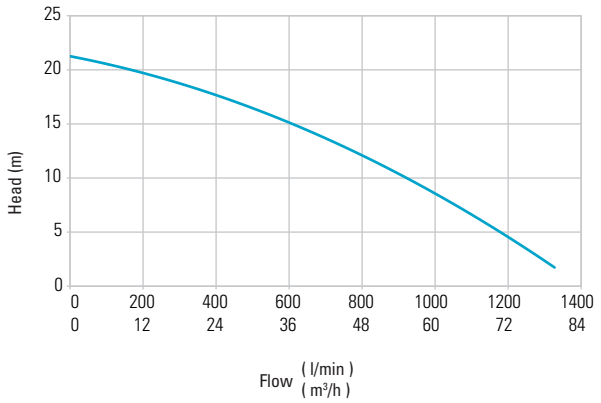
WEDA 10



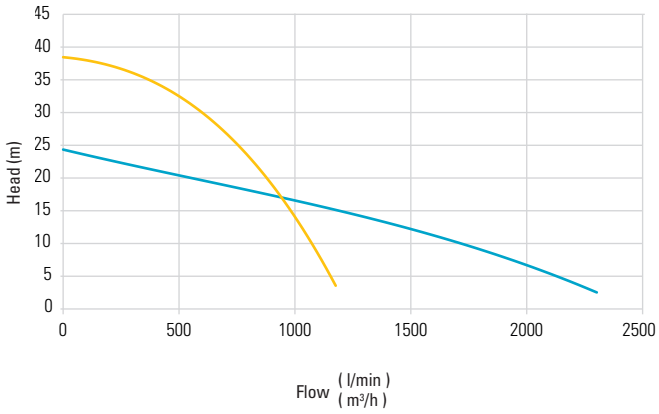
WEDA 30



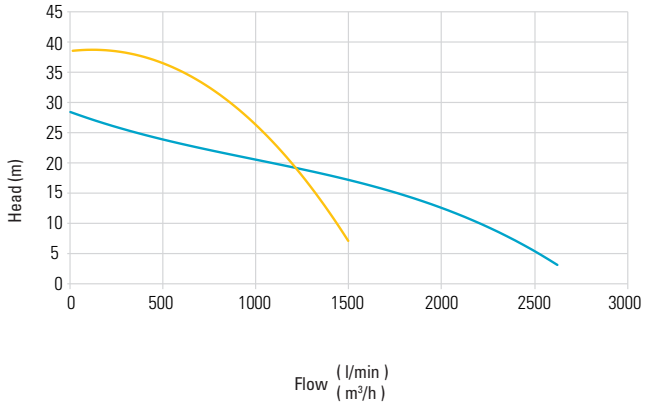
WEDA 40



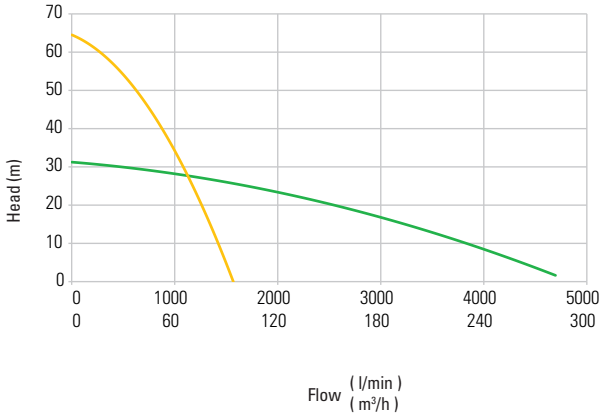
WEDA 50+



WEDA 60+



WEDA 70



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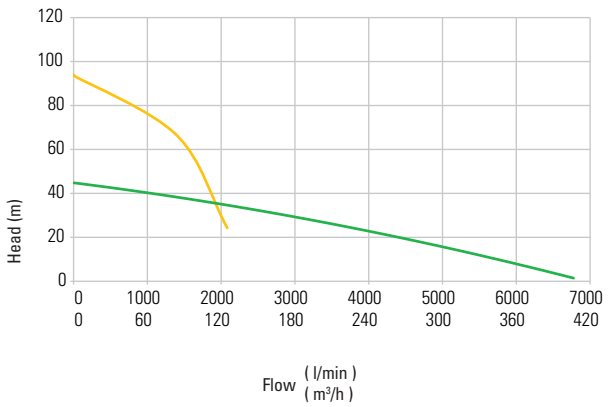
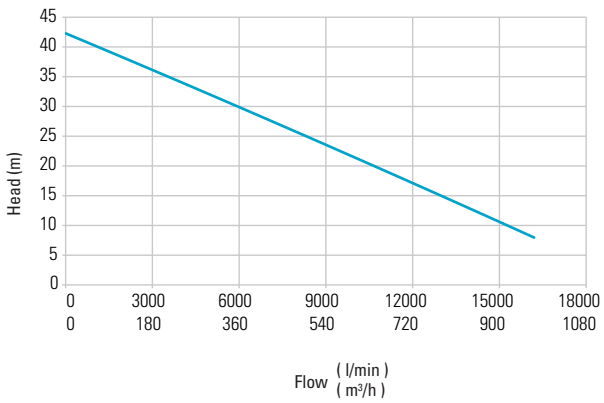
According to ISO 9906 - ANNEX A

High head
Normal head
Low head

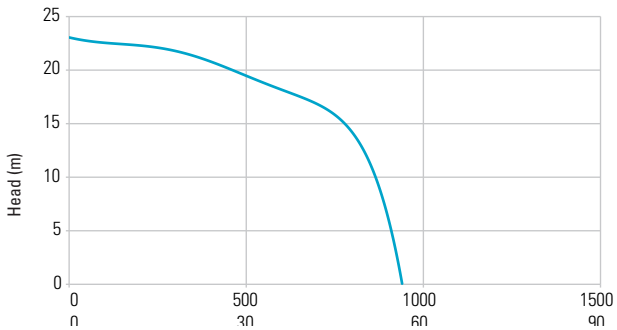
WEDA 90



WEDA 100



WEDA 60S



Unique Sealing System

You can change seals, impeller and other parts in minutes. For larger pumps, the WEDA ISP (Instant Service Pack) is the optimum maintenance solution. The ISP contains the seals, bearing oil and oil housing and can easily be changed at the work site.

Modular Design

Machined slots make it easy to separate the various parts of each pump. All stainless steel bolts and nuts used are the same size. This makes it possible to use one effective tool to complete the entire operation.

WEDA Small range

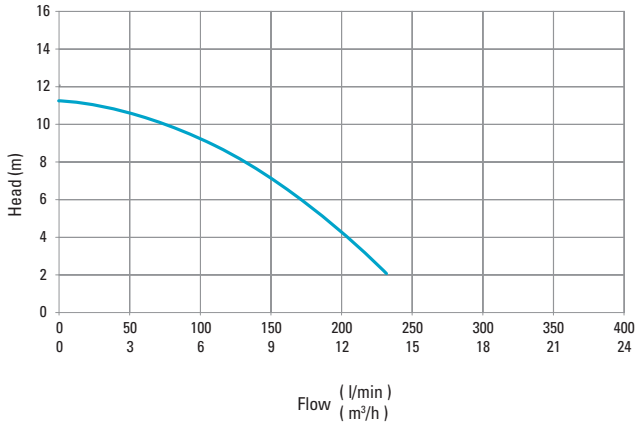
The range of WEDA Small pumps are portable, light weight and easily maintained. They provide a simple, cost effective solution for light duty applications. The design of the pump's outer jacket for cooling and thermo-protection keeps it running safely under various conditions. The triple shaft seal assures a long life time and the semi vortex wet-end minimizes maintenance.

TECHNICAL DATA

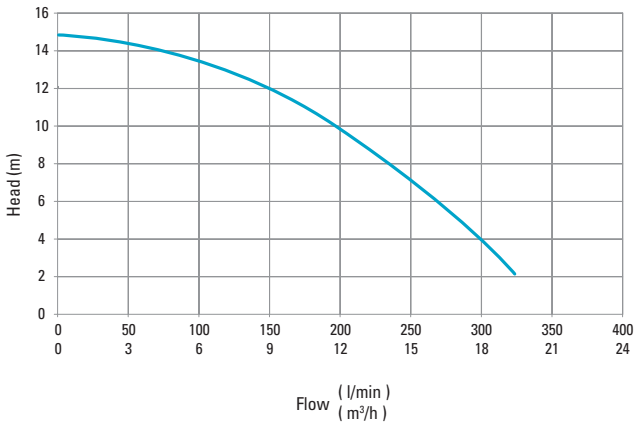
		WEDA 04	WEDA 04B	WEDA 04S	WEDA 08	WEDA 08S
Specifications		**Normal head**	**Normal head**	**Normal head**	**Normal head**	**Normal head**
Max. head	m	11,3	12	10,5	15,2	13
Max. flow	l/min	250	225	270	325	317
	m3/h	15	13,5	16,2	19,5	19
Max. power input	kW	0,65	0,65	0,65	1,2	1,2
Rated current (230v)	A	2,8	2,8	2,8	5,2	5,2
Discharge connection	inch	2"	1" (2" optional)	2"	2"	2"
Max solid handling size	mm	7,5	4,5	25	7,5	25
Weight and dimensions						
Weight	kg	9	9,5	10	12,4	13
Length	mm	340	415	375	358	416
Width	mm	209	253	277	210	277
Circumference	mm	182	220	241	183	241

Performance curves

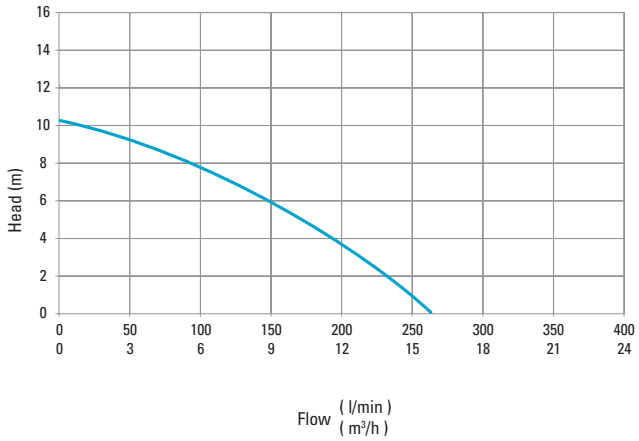
WEDA 04



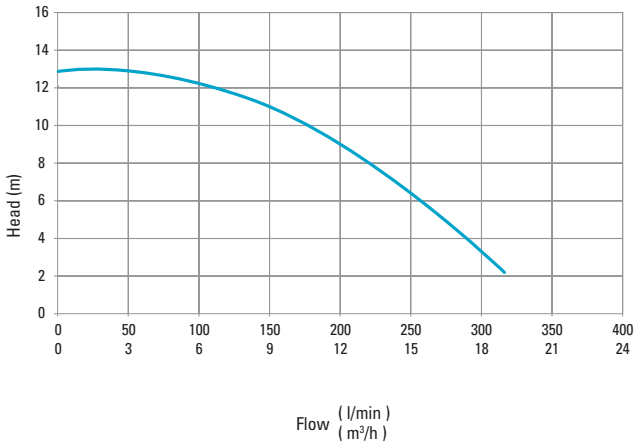
WEDA 08



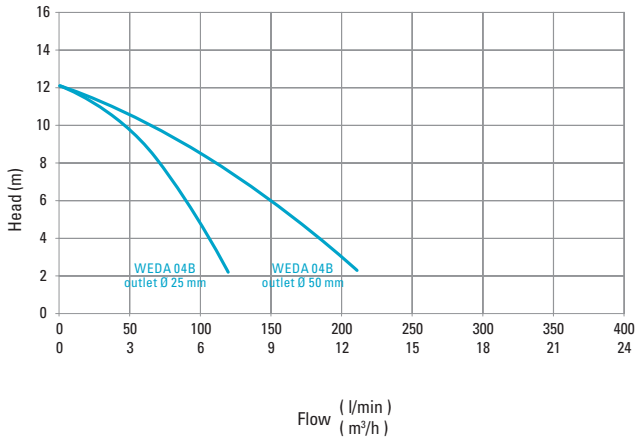
WEDA 04S



WEDA 08S



WEDA 04B



KEY FEATURES

- Dry running capacity
- Thermal protection on motor
- Built-in high torque capacitor
- Double mechanical shaft seals constructed from silicon carbide
- Additional lip seal for extended lifespan of the primary seal
- Easily accessed impeller and pump housing

Portable Energy Solutions Portfolio

AIR COMPRESSORS

READY TO GO
- 1-5 m³/min
- 7-12 bar

VERSATILITY
- 5,5-22 m³/min
- 7-20 bar

PRODUCTIVITY PARTNER
- 19-116 m³/min
- 10-345 bar

Diesel and electric options available

GENERATORS

PORTABLE
- 1,6-13,9 kVA

MOBILE
- 9-1250* kVA

INDUSTRIAL
- 10-1250* kVA

*Multiple configurations available to produce power for any size application

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE
- 275-16.500 l/min

CENTRIFUGAL
- 833-23.300 l/min

SMALL PORTABLE
- 210-2500 l/min

Diesel and electric options available

LIGHT TOWERS

LED

METAL HALIDE

ELECTRIC

Committed to sustainable productivity

Atlas Copco's Portable Energy division has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

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