

Models

SUPERSAND N 300 / 23 SUPERSAND N 500 / 23

Description

Heavy-duty construction pump suitable to pump sandy and muddy water. Its most frequent applications are in the drainage of contractor sites and in general in dewatering. The impeller is made of a very abrasion-resistant material and the pump can be also installed in marble or glass processing plants. The pump is equipped also with an agitator at the bottom to help pumping when solid parts concentration is very high. The pumped fluid that flows between the motor case and the external case allows the pump to be used even with a very low liquid level.

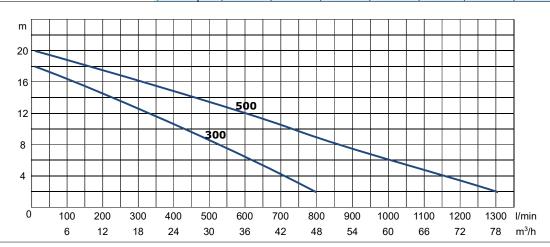


Pumped fluid

Application Max Density Temperature range pH range Sandy and muddy water 1100 kg/m³ 0-40 °C 32-104 °F 6-10 pH

Performance

	Head (m)								
Models		2	6	8	10	12	14	16	18
	Capacity								
	l/min	800	630	535	425	328	220	108	
SUPERSAND N 300 / 23	m³/h	48,0	37,8	32,1	25,5	19,7	13,2	6,5	
	l/s	13,33	10,50	8,92	7,08	5,47	3,67	1,80	
	l/min	1300	1005	855	745	600	450	310	158
SUPERSAND N 500 / 23	m³/h	78,0	60,3	51,3	44,7	36,0	27,0	18,6	9,5
	l/s	21,67	16,75	14,25	12,42	10,00	7,50	5,17	2,63







Hydraulic

Impeller type Multi-channel open impeller type

Outlet DN 80 – vertical (at pump top), PN 16, round counterflange

threaded 3" BSP female

Free passage 10 mm

Max head SUPERSAND N 300 / 23: 18m (1.8 bar)

SUPERSAND N 500 / 23: 20m (2.0 bar)

Min head 2 m

Max capacity SUPERSAND N 300 / 23: 800 l/min

SUPERSAND N 500 / 23: 1300 l/min

Min suction level 130 mm

Electric characteristics

Models	Power (P ₂) HP kW		rpm	Voltage V	ph	I _N A	Built-in float-switch	
SUPERSAND N 300 / 23	3.0	2.2	2850	400	3~	5,1	NO	
SUPERSAND N 500 / 23	5.0	3.7	2850	400	3~	7,6	NO	

Technical characteristics

IP 68

Sealing Double mechanical seal in oil bath + oil seal

Max. immersion 15 meters (with 20 meters cable)

Protective coating Two-component epoxy paint anti-corrosion on cast-iron parts

Sound pressure level < 70dB

Components & Materials

Cable Neoprene H07RN8F, length 20 meters, 4G1,5 with free ends

Resined cable gland for watertight sealing of the cable

ImpellerHigh chrome steelAgitatorHigh chrome steelFootingCast-iron EN-GJL-200

Bottom grid Stainless steel AISI 304 1.4301 (A2)

Casing cover Cast-iron EN-GJL-200
Casing Cast-iron EN-GJL-200
Mech. seals chamber Cast-iron EN-GJL-200

Motor case Stainless steel AISI 304 1.4301 (A2)

Pump cover Cast-iron EN-GJL-200

External case Stainless steel AISI 304 1.4301 (A2)

Motor shaft Stainless steel AISI 304 1.4301 (A2)

Screws Stainless steel AISI 304 1.4301 (A2)

Mechanical seal Lower: Silicon carbide / Silicon carbide / NBR / AISI 304

Upper: Alumina / Graphite / NBR / AISI 304

Oil seal NBR Kit o-ring NBR

Ball bearings Lower: 6306 LU, upper: 6304 LU
Oil Dielectric, not polluting, not toxic



SUPERSAND N 300-500 / 23

Motor characteristics

Type of motor Hard-duty squirrel cage motor

Start type DOL (Direct On Line)

Protection Automatic reset built-in thermal protection; it is anyway

suggested to connect the pump to an electric board with a

magnetothermic switch (see optional section for electric boards)

Insulation class F

Nos. of poles 2

Service type S1 (with pump completely immerged into pumped fluid)

Cooling Ensured by the pumped fluid that flows between the motor case

and the external pump case

Optional available

Hose connection Quick-coupling "storz" connection with DN80 hose connection in

aluminum

Flat PVC hose Three-layers flat roll-up hose D80mm made of PVC and high

tensile synthetic textile. Suitable to pump abrasive fluids.

Electric board F6-0.5/10-3

Separated float switch 10 meters cable or 20 meters cable float-switch to be connected

to an electric board F6-0.5/10-3

Anodes To avoid corrosion by galvanic currents

Special features on request

Metallized impeller Metallic coating of the impeller in molybdenum carbide for very

abrasive applications

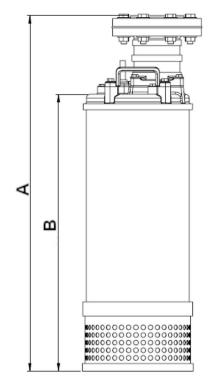
Special epoxy coating Special painting with two different bi-component epoxy coatings

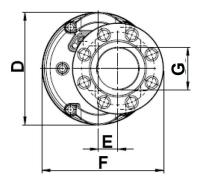
on each pump component before pump assembly. It grants a very good protection against corrosion. With this treatment the

pump can be used also to pump sea water.



Dimensions & weight





			Di	Weight	Pumps					
Models	A	В	D	E	F	G	Carton box	kg	per layer on EPAL	
SUPERSAND N 300 / 23	685	520	232	40	250	3″	295x255Xh770	56	12	
SUPERSAND N 500 / 23	746	581	232	40	250	3″	295x255Xh770	65	12	