

**Models** SUPERSAND N 750 / 23  
SUPERSAND N 1000 / 23

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**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.

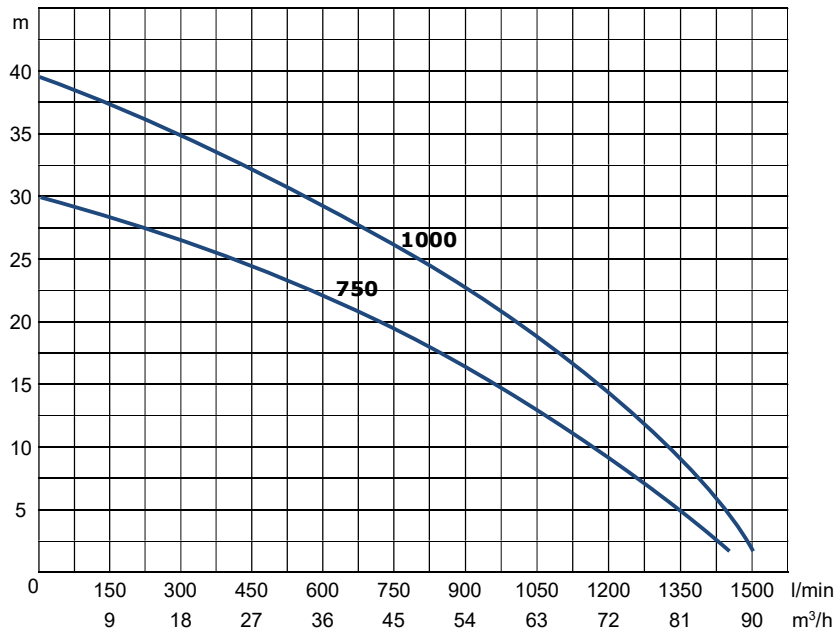
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**Pumped fluid**  
*Application* Sandy and muddy water  
*Max Density* 1100 kg/m<sup>3</sup>  
*Temperature range* 0-40 °C 32-104 °F  
*pH range* 6-10 pH

**Performance**

Models		Head (m)							
		2	5	10	15	20	25	30	35
SUPERSAND N 750 / 23	l/min	1400	1350	1170	950	700	390		
	m <sup>3</sup> /h	84,0	81,0	70,2	57,0	42,0	23,4		
	l/s	23,33	22,50	19,50	15,83	11,67	6,50		
SUPERSAND N 1000 / 23	l/min	1500	1450	1300	1155	995	800	550	290
	m <sup>3</sup> /h	90,0	87,0	78,0	69,3	59,7	48,0	33,0	17,4
	l/s	25,00	24,17	21,67	19,25	16,58	13,33	9,17	4,83


**Hydraulic**

<i>Impeller type</i>	Multi-channel open impeller type
<i>Outlet</i>	DN 100 – vertical (at pump top), PN 16, round counterflange threaded 4" BSP female
<i>Free passage</i>	10 mm
<i>Max head</i>	SUPERSAND N 750 / 23: 30 m (3.0 bar) SUPERSAND N 1000 / 23: 39 m (3.9 bar)
<i>Min head</i>	2 m
<i>Max capacity</i>	SUPERSAND N 750 / 23: 1400 l/min SUPERSAND N 1000 / 23: 1500 l/min
<i>Min suction level</i>	130 mm

**Electric characteristics**

Models	Power (P <sub>2</sub> )		rpm	Voltage V	ph	I <sub>N</sub> A	Built-in float-switch
	HP	kW					
SUPERSAND N 750 / 23	7.5	5.5	2850	400	3~	13,3	NO
SUPERSAND N 1000 / 23	10.0	7.5	2850	400	3~	15,3	NO

**Technical characteristics**

<i>IP</i>	68
<i>Sealing</i>	Double mechanical seal in oil bath + oil seal
<i>Max. immersion</i>	15 meters (with 20 meters cable)
<i>Protective coating</i>	Two-component epoxy paint anti-corrosion on cast-iron parts
<i>Sound pressure level</i>	< 70dB

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**Components & Materials**

<i>Cable</i>	Neoprene H07RN8F, length 20 meters, 4G4 with free ends Resined cable gland for watertight sealing of the cable
<i>Impeller</i>	High chrome steel
<i>Agitator</i>	High chrome steel
<i>Footing</i>	Cast-iron EN-GJL-250
<i>Bottom grid</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Casing cover</i>	Stainless steel AISI 304 1.4301 (A2) + rubber NBR
<i>Casing</i>	Cast-iron EN-GJL-250
<i>Intermediate flange</i>	Cast-iron EN-GJL-250
<i>Mech. seals chamber</i>	Cast-iron EN-GJL-250
<i>Bearing bracket</i>	Cast-iron EN-GJL-250
<i>Motor case</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Pump cover</i>	Cast-iron EN-GJL-250
<i>External case</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Motor shaft</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Screws</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Mechanical seal</i>	Lower: Silicon carbide / Silicon carbide / NBR / AISI 304 Upper: Alumina / Graphite / NBR / AISI 304
<i>Oil seal</i>	NBR
<i>Oil seal bush</i>	Stainless steel AISI 304 1.4301 (A2)
<i>Kit o-ring</i>	NBR
<i>Ball bearings</i>	Lower: 6309 LU, upper: 6306 LU
<i>Oil</i>	Dielectric, not polluting, not toxic

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**Motor characteristics**

<i>Type of motor</i>	Hard-duty squirrel cage motor
<i>Start type</i>	DOL (Direct On Line)
<i>Protection</i>	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)
<i>Insulation class</i>	Class F
<i>Nos. of poles</i>	2
<i>Service type</i>	S1 (with pump completely immersed into pumped fluid)
<i>Cooling</i>	Ensured by the pumped fluid that flows between the motor case and the external pump case

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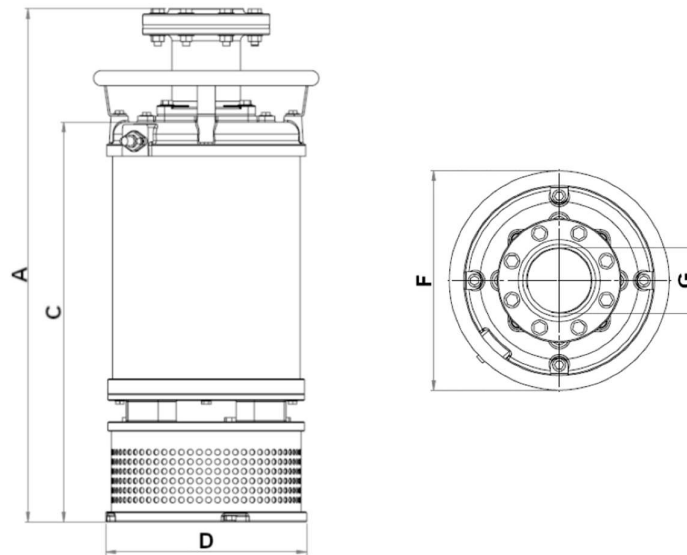
**Optional available**

<i>Hose connection</i>	Quick-coupling "storz" connection with DN100 hose connection in aluminum
<i>Flat PVC hose</i>	Three-layers flat roll-up hose D100mm made of PVC and high tensile synthetic textile. Suitable to pump abrasive fluids.
<i>Electric board</i>	F6-0.5/10-3
<i>Separated float switch</i>	10 meters cable or 20 meters cable float-switch to be connected to an electric board F6-0.5/10-3
<i>Anodes</i>	To avoid corrosion by galvanic currents

**Special features on request**

<i>Metallized impeller</i>	Metallic coating of the impeller in molybdenum carbide for very abrasive applications
<i>Special epoxy coating</i>	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**



Models	Dimensions (mm)					Carton box	Weight kg	Pumps per layer on EPAL
	A	C	D	F	G			
SUPERSAND N 750 / 23	860	670	337	378	4"	407x407Xh980	134	6
SUPERSAND N 1000 / 23	860	670	337	378	4"	407x407Xh980	136	6