

Model VORTEX 1000 E / 23

Description Top-quality heavy-duty construction pump

suitable to pump dirty water. It can be used in many applications such as industrial plants or civil plants whenever it is required

a pump with a high head.

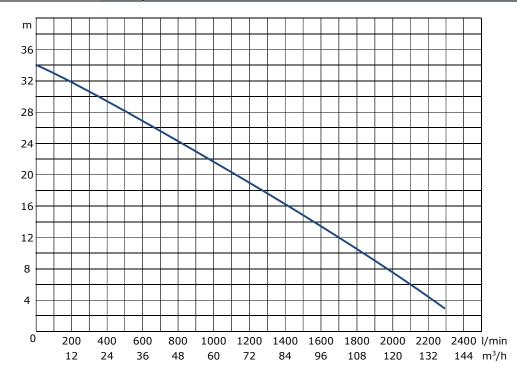
Pumped fluid

Application Dirty water
Max Density 1100 kg/m³
Temperature range 0-40 °C
pH range 6-10 pH



Performance

	Head (m)								
Model	4	8	12	16	20	24	28	32	
	Capacity								
l/min	2230	1970	1700	1410	1115	820	500	180	
VORTEX 1000 E / 23 m ³ /h	133,8	118,2	102,0	84,6	66,9	49,2	30,0	10,8	
l/s	37,17	32,83	28,33	23,50	18,58	13,67	8,33	3,00	





Hydraulic

Impeller type Single-channel impeller Outlet DN 80 – horizontal, PN 16

Free passage 56 mm

Max head 34 m (3.4 bar)

Min head 3 m

Max capacity 2.250 l/min Min suction level 255 mm

Electric characteristics

Model	Power(P ₂) HP kW		rpm	Voltage	ph	I _N	Built-in float-switch	
VORTEX 1000 E / 23	10	7.5	2850	400	3~	16,3	NO	

Technical characteristics

IP 68

Sealing Double mechanical seal in oil bath

Max. immersion 20 meters (with a feeding cable of suitable length)

Protective coating Two-component epoxy paint anti-corrosion

Sound pressure level < 70dB

Humidity probe Included. To be connected to a suitable electric board

Components & Materials

Cable 07RN8F, length 10 meters, 4G2,5 + 3x0,5 free ends.

3x0,5: 2 wires for temperature probe on the winding, 1 wire for

humidity probe on the mechanical seals' chamber

Impeller Cast-iron EN-GJL-250

Pump support Galvanized iron

Discharge body
Motor case
Intermediate flange
Pump cover

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Motor shaftStainless steel AISI 420 1.4028ScrewsStainless steel AISI 304 1.4301 (A2)Mechanical sealLower: Silicon carbide / NBR / AISI 304

Upper: Alumina / Graphite / NBR / AISI 304

Kit o-ring NBR

Ball bearings Lower: 3306-ZZ, upper: 6206-2RS1
Oil Dielectric, not polluting, not toxic





Motor characteristics

Type of motor Hard-duty squirrel cage motor in oil bath

Start type DOL (Direct On Line). See section "Special features on request"

Protection The pump must be connected to an electric board with a

magnetothermic switch. The pump is also supplied with a thermal probe on the motor winding to be connected to a

suitable electric board.

Insulation class Class F Nos. of poles 2

Service type S1 (with pump completely immerged into pumped fluid)
Cooling Ensured by the immersion of the pump into the fluid

Optional available

Coupling foot Coupling foot model DN80 (connection DN80)

Hose connection 90° elbow flanged DN 80 hose connection

Electric board Model F6-0.5/10-3

No return valve Professional flanged no-return ball check valve DN80 in cast-iron

with NBR ball

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

to an electric board F6-0.5/10-3

Anods To avoid corrosion by galvanic currents

Special features on request

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

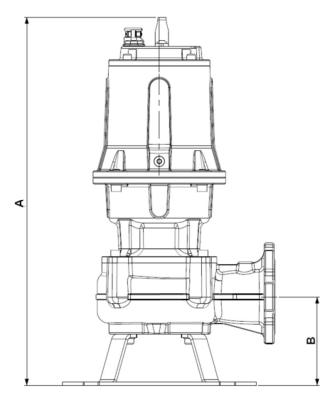
abrasive applications

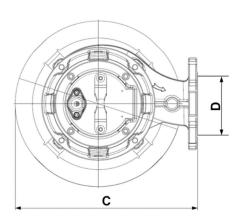
Star/Delta motor Pump is available as an optional also with star / delta starting

motor



Dimensions & weight





Model		D	imensi	Weight	Pumps		
	Α	В	С	D	Carton box	kg	per layer on EPAL
VORTEX 1000 E / 23	685	164	395	DN 80	490x400xH860	95	4