SEWAGE

VORTEX F

submersible pump for sewage water

wastewater

domestic use

Vertical outlet

The range Vortex F is designed for pumping of sewage with suspended solids, it is ideal for installation with guide rain.

KEY ADVANTAGES OF A VORTEX PUMP

1. INCOLMATAGE

The vortex impeller creates a vortex that leads to most solids without contact with the turbine and the fibrous materials are repelled and can not hold on to the turbine.

2. MINIMUM WEAR + CONSISTENT PERFORMANCE

The Vortex pump wear is very low because most of the solids pumped passes through the volute without touching the turbine. The yield remains constant over a long period.

3. LOW MAINTENANCE + NO ADJUSTMENT

The position of the wheel back in the volute eliminates the risk of blockage and sudden loss of performance. No adjustment is necessary and the cost of maintenance and operation are low and constant.

USE

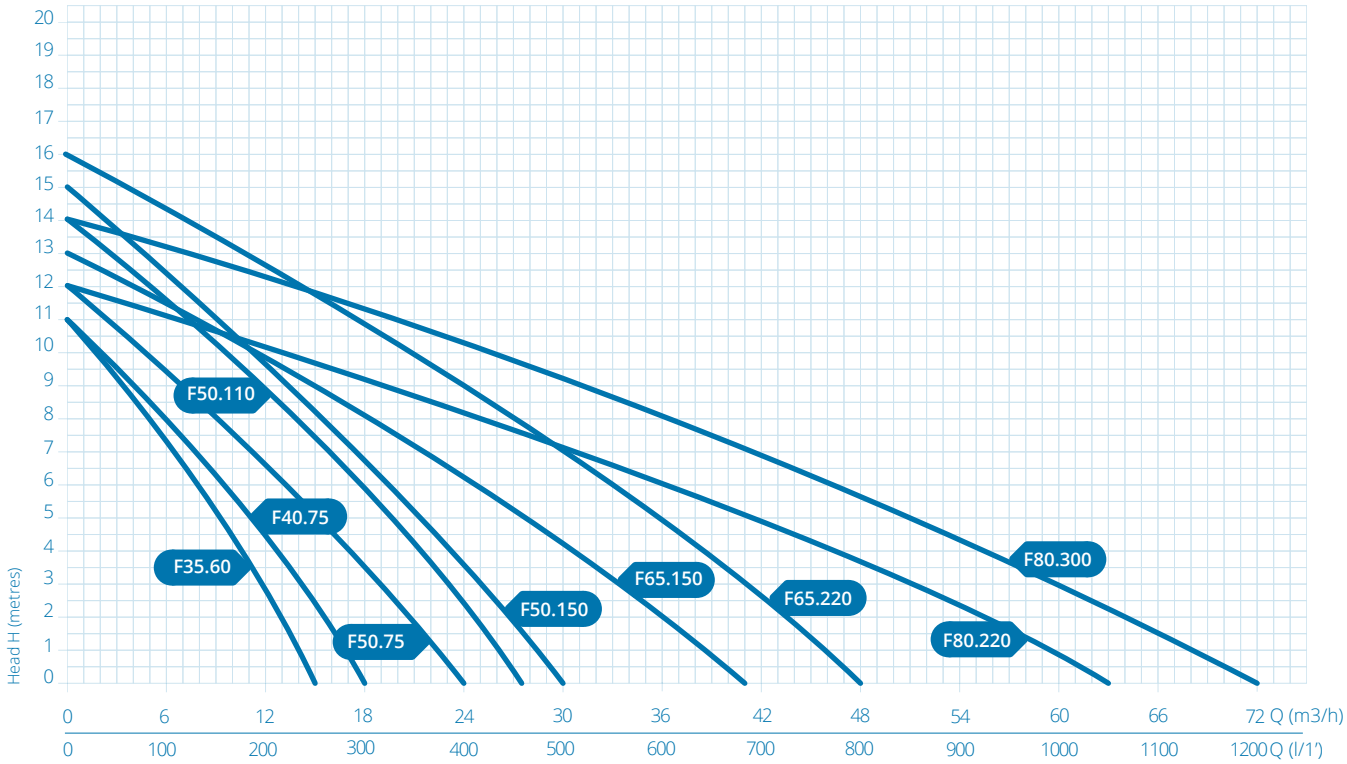
Water loaded with suspended matter. All wastewater from homes, including toilets from 50 mm to pass
Front outlet is ideal for installations with guide rail
Immersion depth of 10 m

FEATURES

- Motor casing in stainless steel;
- Volute pump in cast iron, stainless steel shaft;
- Engine oil bath class F, 10 m cable, built-in capacitor (to phase);
- Double seals, lip seals and reinforced carbon ceramic mechanical seal;
- Single-phase models with or without float float (type A).

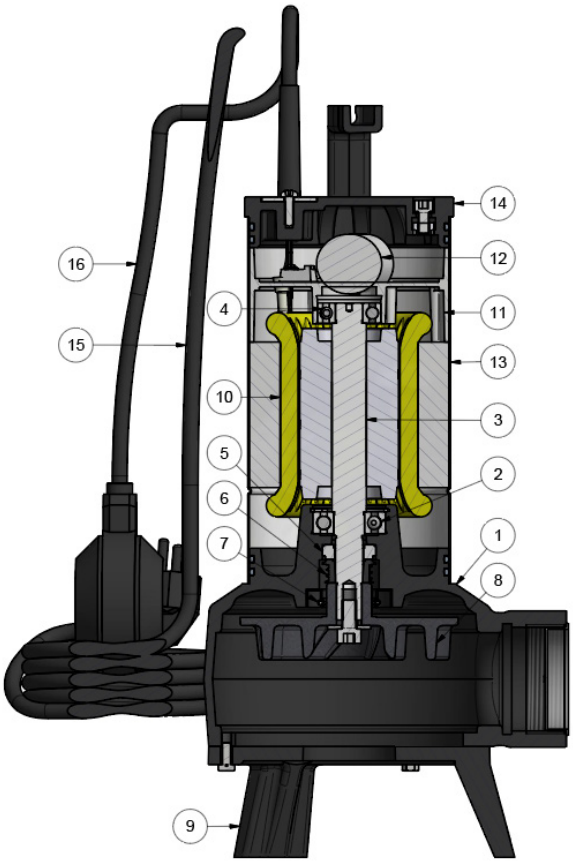
CHARACTERISTIC CURVES AND PERFORMANCE DATA

50Hz



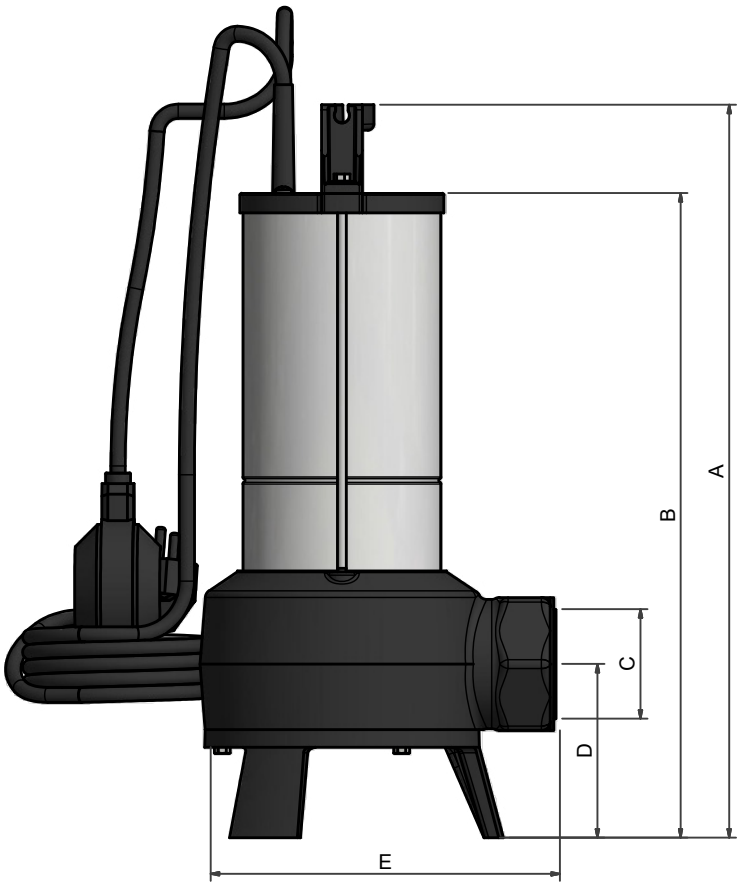
TYPE	POWER	MOTOR 1~		MOTOR 3~	PORT		Q m³/h	0	3	6	9	12	15	18	24	27	30	36	48	60	72
							l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**400**	**450**	**500**	**600**	**800**	**1000**	**1200**
	kW	A	µF	A	ø mm	DN															
F 35.60	0,6	5,2	16	1,4	33	1" ¼		11	10	8	5,7	3	0								
F 40.75	0,75	6,4	20	2,6	38	1" ½		11	9,7	8,4	6,8	5	2,7	0							
F 50.75		7,7	20	2,8				12	11,4	10,3	9	7,7	6,2	4,6	1						
F 50.110	1,1	8,9	35	3,0	50	2"		14	13	12	11	9,5	8	6,4	2,7	0,7					
F 50.150		9,8	35	3,7			**H** - meters	15	14	13	12	10,8	9,4	7,8	4,4	2,4	0				
F 65.150	1,5	11,3	40	4,8	65	2" ½		13	12,5	12	11	10	9	8	6	5	4	2,2			
F 65.220		-	-	6,1				16	15,3	14,4	13,5	12,6	11,7	10,7	8,8	8	7	5	0		
F 80.220	2,2	12,2	50	5	80	3"		12	11,5	11	10,5	10	9,6	9	8,1	7,6	7	6	3,5	0,8	
F 80.300		-	-	8				14	13,7	13,3	13	12,5	12	11,6	10,6	10	9,5	8,4	6	3	0

COMPONENTS AND MATERIALS



POS.	COMPONENT	MATERIALS
1	Body Vortex Pump F50.75	Cast Iron
2	Bearing	Steel
3	Rotor / Shaft	Steel and Aluminum / Stainless Steel
4	Bearing	Steel
5	Mechanical Seal Fixe	Nitrile Rubber / Ceramics
6	Mechanical Seal Mobile	Graphite Steel
7	Lip Seals	Nitrile Rubber
8	Impeller Pump Vortex	Cast Iron
9	Bottom Support Pump Vortex	Cast Iron
10	Stator	
11	Top Engine Support	Aluminium
12	Capacitor	
13	Motor Casing	Stainless Steel
14	Pump Cover	Noryl
15	Power Cable	Neoprene
16	Float	Neoprene / Plastic

DIMENSIONS AND WEIGHT



TYPE	DIMENSIONS (mm)					WEIGHT	
	A	B	C	ØD	Ø E (passage)	F	Kg
F 35.60	338	288	70	1"¼	**33**	174	11,5
F 40.75	368	318	85	1"½	**38**	177	13,5
F 50.75	413	363	98	2"	**50**	200	15,5
F 50.110	432	383				210	20,0
F 50.150	442	393					20,5
F 65.150	483	435	115	2" ½	**65**	217	22,0
F 65.220	493	445					25,0
F 80.150	520	485	145	3"	**80**	240	28
F 80.220	535	500					30