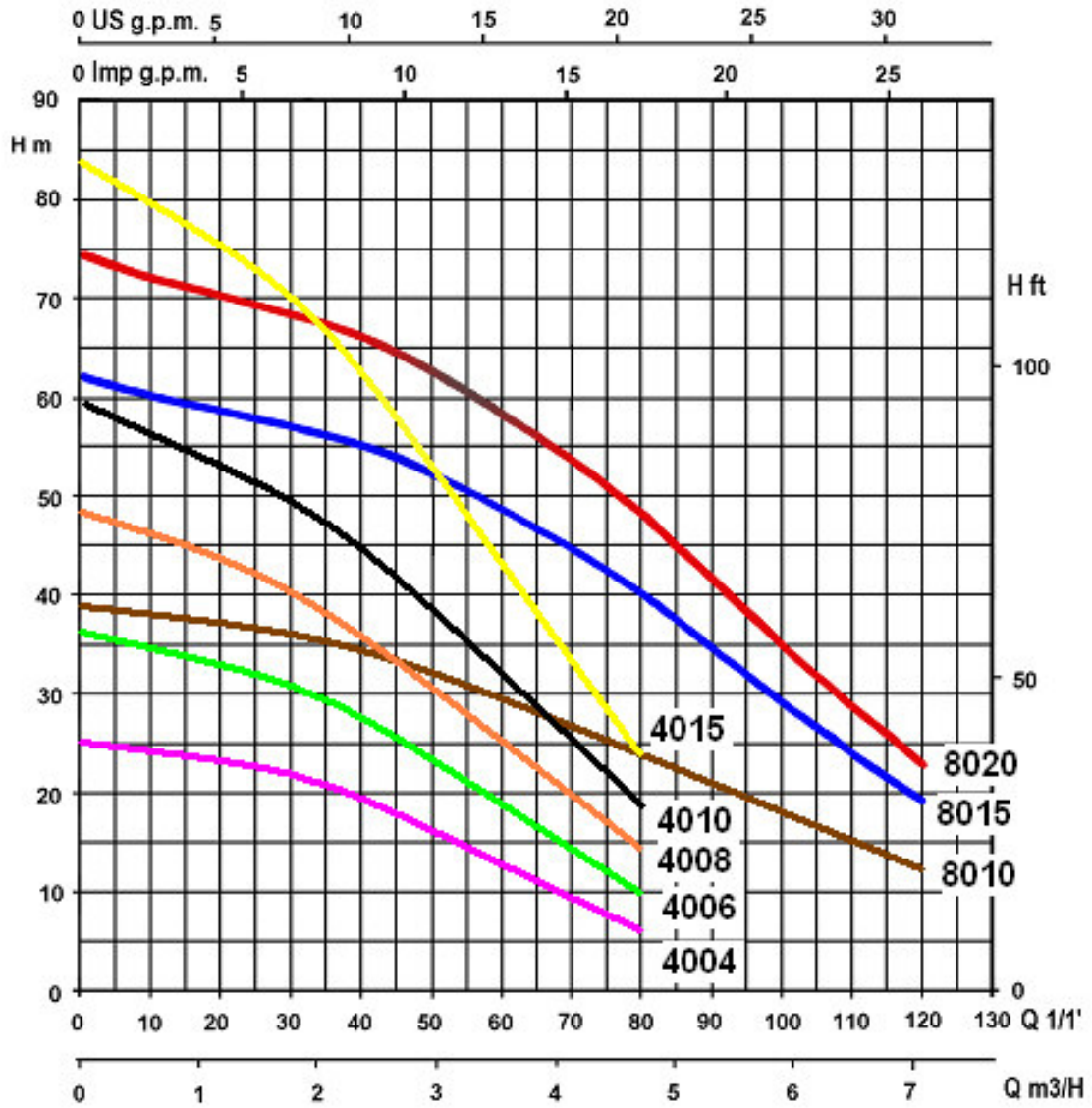




26/10/2008

Technical Specifications Rotorflush Filterpumps (Idrogo range)



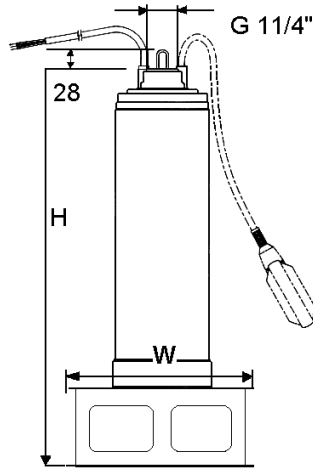
Pump output curves

Dry run protection must be provided, in the unlikely event of the filter blocking the pump will dry run and cause serious damage to the Filterpump. Rotorflush can supply suitable equipment

Pump Construction		
Liquid Handled	Type of Liquid	Water containing suspended solids (max 2000mg/litre for 250 micron screen)
	Max temperature	40 C
Maximum immersion (m)		20 10 (with float switch)
Construction	Impeller	Closed centrifugal type (multiple stages)
	Shaft seal type	Double mechanical seal
	Bearing	Sealed ball bearing
Pipe connection	Inlet	Self cleaning strainer (316 stainless steel)
	Outlet	G 1 1/4"
Materials	Casing	AISI 304
	Casing cover	AISI 304
	Impeller	Noryl
	Diffuser	Noryl
	Shaft	AISI416
	Shaft seal	Pump side: Sic/Sic/FPM Motor side: Carbon/Ceramic/NBR
	Lubricating Liquid	White mineral oil: Esso Marcol 172 (90 cc)
Applicable standard of Test		ISO 9906 grade 2

Motor Construction		
Type	Submersible dry type	
	Single Phase	Three Phase
No. of Poles	2	
Rotation speed (min ⁻¹)	2800	
Insulation Class	Class F	
Protection degree	IP 68	
Power rating	kW	0.45-1.2
	HP	0.6-1.6
Frequency	50 Hz	
Voltage (V)	230 +/- 10%	400 +/-10%
Capacitor	Built in	-
Overload protection	Built in	Provided by user
Float Switch	Optional	-
Float switch cable	Material: H07RN-F	-
	Size: 3 G 1	-
Upper bearing bracket	Aluminium	
Lower bearing bracket	Brass	
Motor Frame	AISI 304	
Power cable material size length (m)	H07RN-F	
	3 G 1.5	4 G 1
	20 (5 for Filterpump E4004)	
Type of cable entry	Cable gland	

Self cleaning inlet filter construction	
Filter screen area	273cm ²
Screen sizes	Standard 315micron 250, 150,100 and 50 microns available
Screen material	Sintered 316 stainless steel
Impeller extension shaft	AISI 316
Impeller bush	Brass
Impeller	Glass filled nylon
Rotor	AISI 316
Rotor bearings	Silicon carbide Acetal copolymer housing
Filter cage	AISI316



	E4004	E4006	E4008	E4010	E4015	E8010	E8015	E8020
Dimensions (mm)								
Height	583	583	609	660	686	610	634	660
Filter Diameter	210	210	210	210	210	210	210	210
Pump diameter	136	136	136	136	136	136	136	136
Weight (Kg)	15	17	18	19	20	18	19	20
Output	See pump curves							
Nominal output power (KW)	0.45	0.6	0.75	0.9	1.2	0.9	1.2	1.6
Float Switch available (Single phase only)	No	Yes	Yes	Yes	Yes	Yes	Yes	No
T= Three Phase M= Single Phase	M	T&M	T&M	T&M	T&M	T&M	T&M	T

Type Pumps		Power		Capacitor Single Phase		Input (KW)		Full Load Current (A)		Locked rotor current	
Single Phase 230V 50Hz	Three Phase 230/400V 50Hz	KW	HP	uF	V1	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase 230V 50Hz	Three Phase 400V 50Hz
E4004M	-	0.45	0.6	16	450	0.82		3.8		16	-
E4006M	E4006T	0.6	0.8	16	450	1	0.95	4.3	1.9	16	10
E4008M	E4008T	0.75	1	20	450	1.25	1.18	5.7	2.2	20	12
E4010M	E4010T	0.9	1.2	20	450	1.42	1.33	6.8	2.4	23	14
E4015M	E4015T	1.2	1.6	31.5	450	1.80	1.75	8.5	3.5	25	16.5
E8010M	E8010T	0.9	1.2	20	450	1.33	1.22	6.4	2.3	23	14
E8015M	E8015T	1.2	1.6	31.5	450	1.8	1.65	8.5	3.5	25	16.5
	E8020T	1.6	2.1	-	-	-	2.1	-	3.9	-	16.5