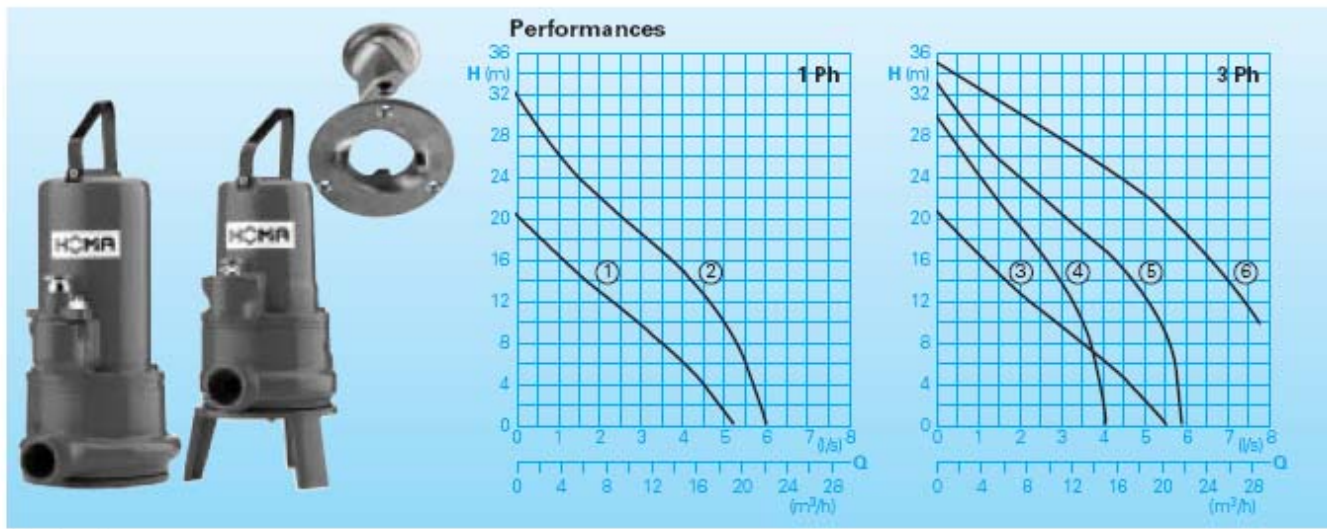


Electric Submersible pumps with cutter system for sewage and effluent.

Barracuda GRP 16-36



Application

The installation of conventional sewer systems in areas of low population like small villages, farms or under difficult topographic conditions is often extremely expensive, mainly because of the high cost for large diameter pipework installation. HOMA provides the perfect, economical alternative with Barracuda grinder pump pressure sewage systems. The Barracuda pumps cut all solids present in the sewage into small particles. This allows the use of pipes from 1 1/2" diameter, which can be easily laid at low cost with a minimum of construction work.

GRP 16 – 36 models are available with hydraulic performance up to 35 m total head. For higher head see Barracuda models GRP 55 – 110.

DIN EN 12050-1: Conformity and design approved and controlled by LGA, certificate No. 0220119.

Installation: Transportable or permanent. Models with float switch control for automatic pump operation, depending on medium level in the sump.

Pumped medium: Waste water or sewage containing soft solids. Max. medium temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

Fully submersible, compact integrated motor-pump consisting of:

Pump: Single stage centrifugal pump with horizontal discharge BSP 2" M.

Technical Data

Curve No.	Pump type	Motor input P ₁ (kW)	Motor output P ₂ (kW)	Voltage 50 Hz (V)	Speed (rpm)	Nominal current (A)	Weight (kg)
①	GRP 16 (B) W(A) (Ex)	1,5	1,1	230-240 / 1Ph	2900	7,5	27
②	GRP 26 W(A) (Ex)	2,5	1,8	230-240 / 1Ph	2900	11,5	33
③	GRP 16 (B) D (A) (Ex)	1,3	0,9	400-415 / 3Ph	2900	2,5	27
④	GRP 22 D (A) (Ex)	2,1	1,7	400-415 / 3Ph	2900	4,2	33
⑤	GRP 26 D (A) (Ex)	2,5	1,9	400-415 / 3Ph	2900	4,4	33
⑥	GRP 36 D (A) (Ex)	3,7	3,1	400-415 / 3Ph	2900	6,4	44

Discharge: BSP 2" M
Other voltages are available upon request.

Impeller/Cutter: Open multi-channel impeller. Cutter system at pump inlet consisting of stationary cutter ring and blade rotor.

Motor: Fully submersible, pressure-tight electric motor, single or three phase. Thermal sensors embedded in stator winding. Insulation class F, degree of protection IP 68.

Cable: H07 RN-F7 G1,5
GRP16W, GRP16WA: H07 RN-F4 G1,5
Model Ex: H07 RN-F(plus)7 G1,5

Shaft/Bearing: Large diameter stainless steel rotor shaft, heavy duty pre-lubricated bearings.

Seals: GRP 16 with combination of mechanical seal (silicon-carbide/silicon-carbide) and lip seal in oil chamber. Models from GRP 22 with two mechanical seals (silicon-carbide/silicon-carbide) in oil chamber, oil inspection from outside. Seal condition monitoring probe on request.

Explosion protection: All Models available with explosion proof motors according to II 2G EEx d (ib) II BT4.

Model B: With mounted base stand
Model A: With automatic level control
Model Ex: Explosion proof

Materials:

Motor housing, pump housing, impeller	Cast iron GG25
Cutter system	Stainless steel 1.4528
Rotor shaft, screws	Stainless steel
Mechanical seal	Silicon-carbide
O-rings	NBR

Equipment supplied

Model W: (230-240 V / 1 Ph): 10 m of cable. Attention: The pump requires a capacitor for operation, which is integrated in the control box (see accessories).

Model D: (400-415 V/3 Ph): 10 m of cable.

Model A: With additional automatic level control, with AS float switch, control box with overload protection, manual-auto-switch, and 10 m of cable. Model W with integrated capacitor. Model Ex with intrinsically safe relay.

Model GRP 16 B: With mounted base stand.

