

Stainless steel submersible drainage pumps for chemically aggressive liquids. Spherical clearance 10 mm.

CH432, CH436

Application

HOMA CH432 and CH436 stainless steel submersible drainage pumps are suitable for pumping corrosive, abrasive or chemically aggressive liquids, drainage water or chemicals containing soft solids up to 10 mm diameter. They are used in various domestic, industrial or municipal applications.

DIN EN 12050-2: Conformity and design approved and controlled by LGA.

Installation: Transportable or permanent.

Pumped liquid: Drainage water with abrasive or chemically aggressive contents, chemical liquids. PH-value 3-14, with chemically aggressive liquid may also be lower, see specific chemical resistance of used materials.

Max liquid temperature: 40°C, short term up to 60°C.

Operation: Permanent (S1).

Design

Fully submersible, compact integrated motor-pump unit consisting of:

Pump: Single stage centrifugal pump with horizontal discharge.

Impeller: Open multi-channel impeller, spherical clearance 10 mm.

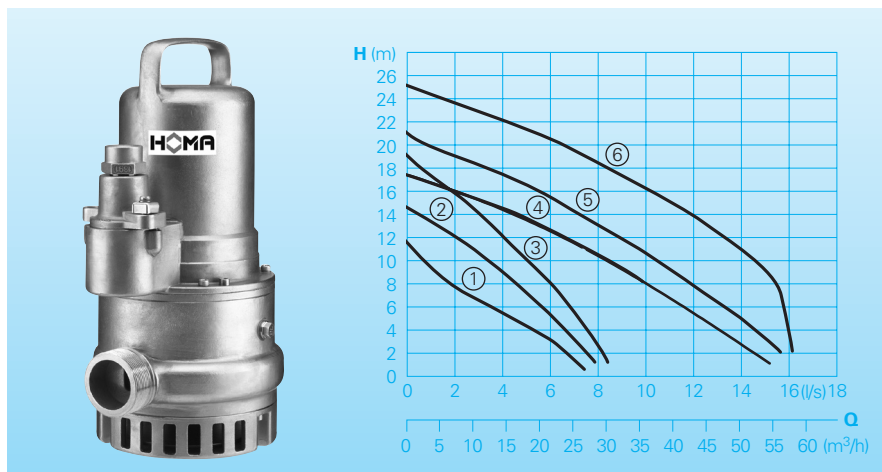
Motor: Fully submersible, pressure tight electric motor. Insulation class H, degree of protection IP 68. Thermal sensor embedded in the winding.
Cable: H07RN8-F(PLUS)-6G1,5
Model CH432W: H07RN8-F4G1,5 with cable protective hose and longitudinally tight cable trumpet.

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

Seals: Combination of mechanical seal and lip seal (CH432) respectively 2 mechanical seals (CH436) from silicon-carbide/ silicon-carbide and viton in a separate oil chamber. Oil inspection from outside.

Explosion proof: All pump types also available according to
II 2 G Ex c d II B T4(T3).

Performance



Technical Data

Curve No.	Pump type	Motor input P ₁ P ₂ (kW) (kW)		Capacitor* (μF)	Nominal current (A)	Discharge	Weight (kg)
①	CH432-0,9/2 W (Ex)	0,9	0,7	25	5,3	G2	28,0
②	CH432-1,3/2 W (Ex)	1,3	1,0	25	6,6	G2	28,0
③	CH432-1,7/2 W (Ex)	1,7	1,3	30	7,9	G2	28,0
①	CH432-0,9/2 D (Ex)	0,9	0,7		1,9	G2	28,0
②	CH432-1,2/2 D (Ex)	1,2	0,9		2,3	G2	28,0
③	CH432-1,6/2 D (Ex)	1,6	1,2		2,8	G2	28,0
④	CH436-1,9/2 D (Ex)	1,9	1,5		4,0	G2 1/2	40,0
⑤	CH436-2,4/2 D (Ex)	2,4	1,9		4,6	G2 1/2	40,0
⑥	CH436-3,5/2 D (Ex)	3,5	2,8		7,1	G2 1/2	52,0

Speed: 2800 rpm

Model W: 230-240V / 1Ph

Model D: 400-415V / 3Ph

Model Ex: explosion proof

* **Capacitor:** For the operation it is necessary to install a capacitor in the control box. (available as Accessories)

Materials

Pump housing	Stainless steel 1.4436
motor housing	
impeller	
Rotor shaft	Stainless steel 1.4462
Mechanical connection parts	Stainless steel 1.4571
O-Rings	FPM (Viton)
Mechanical seals	SiC/SiC, FPM (Viton)
Shaft seal ring	FPM (Viton)
Cable protective hose	Polyolefine

Equipment supplied

Pump with 10 m of cable, 5 m cable protective hose, loose cable end.
Possible control boxes: available as accessories.

Model	W:	W19; WA10/19
	WEx:	WT19
Model	D:	DT32; DA10/32
	DEX:	DT32

