

Flat suction submersible drainage pump with automatic level sensor for flood protection

Chromatic C240 WF Sensoflat, C270 WF Sensoflat

Application

Pump for conveying clean or lightly soiled water.

Automatic extraction from water levels of just 5 mm to prevent severe flooding in rooms without pump sump or floor drain, e.g. through flooding cloud-burst, burst pipes or defective washing machines. Emergency deployment for flooding. A cooling jacket with discharge connector at the top ensures sufficient motor cooling even at low water level (sip operation). The sensor switch automatically switches the pump on at a water level of just 5 mm. Residual water is pumped off down to 2 mm.

Installation: Stationary or mobile.

Pumped medium: Clear- or drainage water containing solids up to 3 mm particle size. Max. temperature of pumped medium: 35°C, for brief periods up to 60°C.

Operating mode: C240: Continuous operation (S1), at medium temperature 36- 60°C: Intermittent operation (S3 30%).

C270: Intermittent operation.

Design

Submersible pump, consisting of:

Pump: Single-stage centrifugal pump with vertical discharge.

Impeller: Open multi-blade impeller, free passage C240: 3 mm, C270: 2 mm

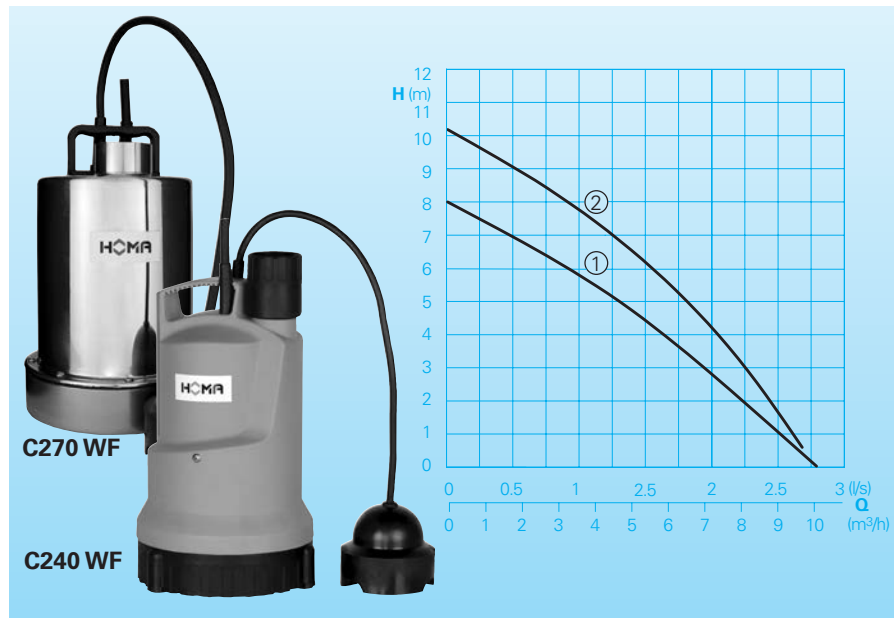
Motor: Pressure watertight, medium-immersed motor. Stainless steel motor housing. Insulation class B, Protection rating IPX8. Thermal sensor for temperature monitoring in the winding.

Shaft/bearing: strongly dimensioned chrome steel motor shaft, lifetime-lubricated roller bearings.

Seal: C240: Shaft seal with triple radial shaft seal and ceramic-coated sealing surfaces.

C270: Combination of axial shaft seal and radial shaft seal.

Conveying capacities



Technical data

Curve No.	Pumptype	Motor input P ₁ (kW)	Motor input P ₂ (kW)	Voltage 50 Hz (V)	Nominal current (A)	Connecting cable type	Weight (kg)
①	C240 WF	0,50	0,25	230/1Ph	2,2	H07RN8-F3G1	5,4
②	C270 WF	0,70	0,45	230/1Ph	3,2	H07RN-F3G1	7,0

Rotational speed: 2850 rpm

Discharge: G1 1/4

Materials

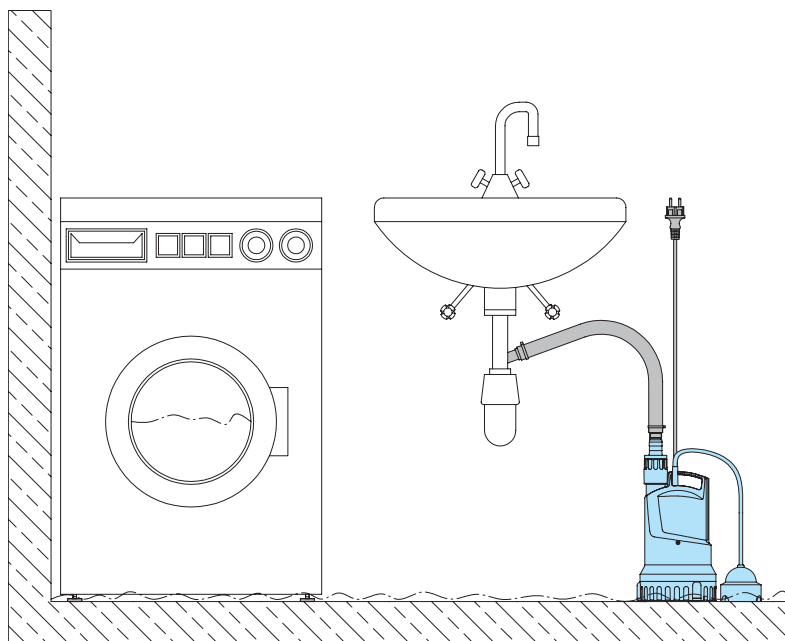
Motor housing, motor shaft, screws	Stainless steel
Suction sieve, outer housing C240	impact-resistant plastic
C270	Stainless steel
Impeller, pressurized lid	impact-resistant plastic
Elastomers	NBR

Scope of supply

C270: Pump with sensor switch, 10 m of connecting cable and mains plug.

C240: Pump with sensor switch, twin box G 1¼ inc. washers and hose connection, 10 m of connecting cable and mains plug.

C240 WF



Technical drawing of the pump assembly showing dimensions:

- Total height: 246
- Height from base to top of pump body: 225
- Base diameter: $\varnothing 153$
- Pump body diameter: $\varnothing 85$
- Top connection size: G1 3/4
- Top flange diameter: 42

Description	Size	Part no.
① Hose coupling, brass	1" ¾"	2003313 2003213
② PVC-hose, per m	1" Ø 25 mm ¾"Ø 19 mm	2621000 2620700
Plastic spiral hose, per m	1" Ø 25 mm ¾"Ø 19 mm	2632025 2632019
Hose clamp	¾" - 1"	2302330
③ Check valve, brass	BSP1¼"	2009027
④ Fixed coupling, brass	BSP1¼"	2005413
⑤ Double nipple, brass	BSP1¼"	2009019
○ Fault-current circuit breaker 2-pin, Fi 16/0.03 A		1561160



Flowmotion BVBA
Kleistraat 2, B-9320 Erembodegem
+32 (0)2 309 67 13
www.flowmotion.be

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