

## High pressure pump for domestic waste water.

# HP124 - 126

### Application

For waste water disposal with small pipe cross-sections, large delivery heads at relatively low flow rates, pressure drainage systems in topographically difficult areas.

**Installation:** Stationary with auto-coupling system or with ring base stand.

**Pumped medium:** Clear and domestic waste water. The pumps are not suitable for pumping media with highly abrasive components (e.g. sand, gravel, stone). In the case of chemically aggressive components in the pumped medium, it is essential to observe the resistance of the materials used. For this purpose, the pump units are partly available in highly resistant materials (stainless steel). Max. temperature of pumped medium: 40°C, for brief periods up to 60°C.

**Operating mode:** Continuous operation (S1).

### Design

Fully submersible pump, consisting of:

**Pump:** Single stage centrifugal pump with horizontal discharge DN 50.

Optionally available with DN100 suction connection.

**Impeller:** Open multi-blade impeller, free passage 10 mm.

**Motor:** Fully submersible motor, sealed against pressurized water. Thermal sensor for temperature monitoring in the winding. Insulation class H, protection rating IP 68.

Type of start: Star-delta

Connecting cable: H07RN8-F12G1,5

**Shaft/bearing:** Shaft from chrome steel, permanently lubricated roller bearings.

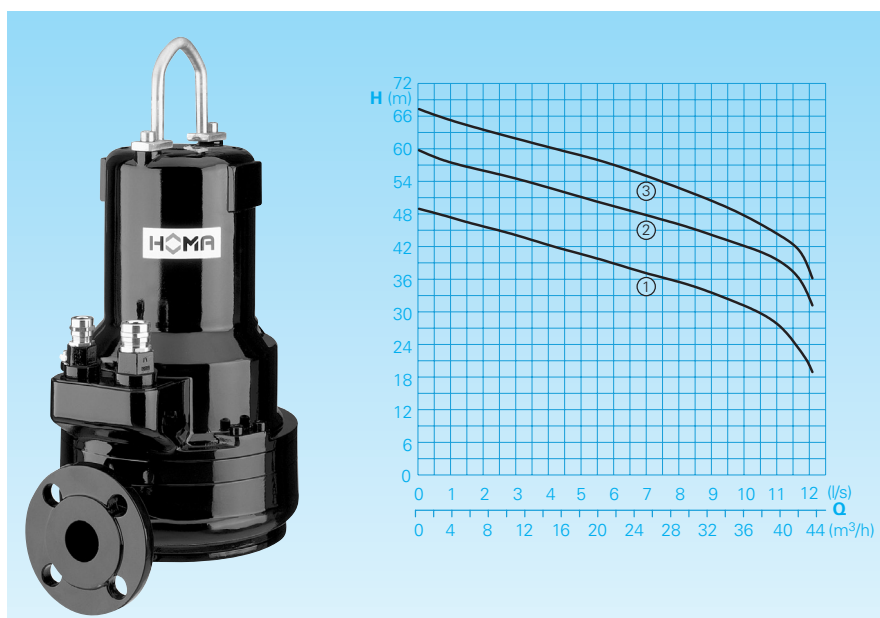
**Seal:** Two independent suspended acting mechanical seals (silicon carbide) in oil barrier chamber.

Standard with electronic seal monitoring to control the oil barrier chamber.

Oil control possible from the outside.

**Motorjacket:** All models available with PermaCool® system for drywell installation or not fully submerged operation.

### Conveying capacities



### Technical data

Curve No.	Pump type	Motor input P <sub>1</sub> (kW)	Motor input P <sub>2</sub> (kW)	Voltage 50 Hz (V)	Rotational speed (rpm)	Nominal current (A)	Weight
①	HP124 D	11,0	9,5	400/3Ph	2900	18,5	113
①	HP124 ET D	10,5	9,5	400/3Ph	2900	20,1	138
②	HP125 D	13,0	11,5	400/3Ph	2900	22,0	111
②	HP125 ET D	12,7	11,5	400/3Ph	2900	22,7	138
③	HP126 D	13,0	11,5	400/3Ph	2900	22,0	111
③	HP126 ET D	12,7	11,5	400/3Ph	2900	22,7	138

Discharge: DN 50

Cable length: 10 m

**Model ET:** EffTec-motor with patented PermaCool® system for wet and dry installation.

**Model Ex:** explosion-proof

### Materials

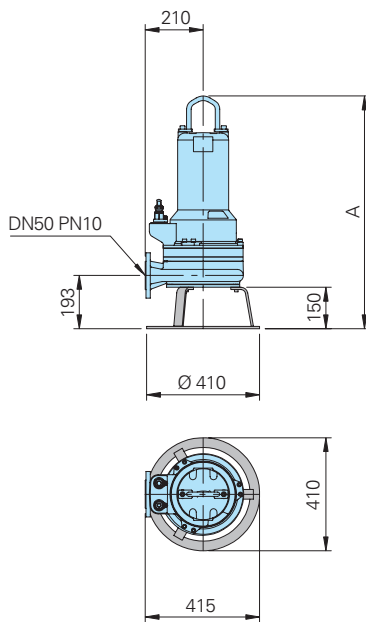
Pump housing, motor housing, impeller	Cast iron EN-GJL-250
Mechanical seal	Silicon carbide/ Silicon carbide/
Motor shaft, screws	Stainless steel
Elastomers	NBR

### Scope of supply

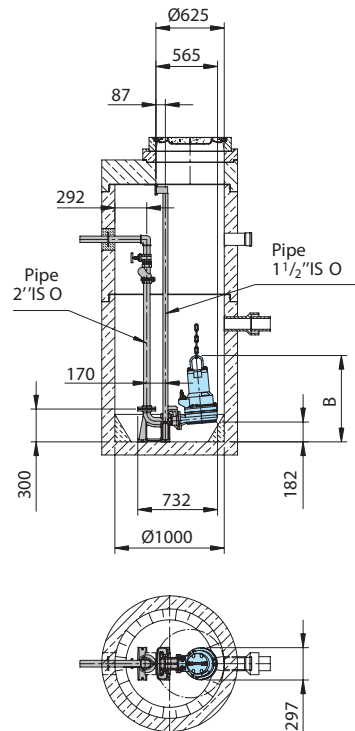
With 10 m of connecting cable and loose cable end.

## Dimensions and installation example (all dimensions in mm)

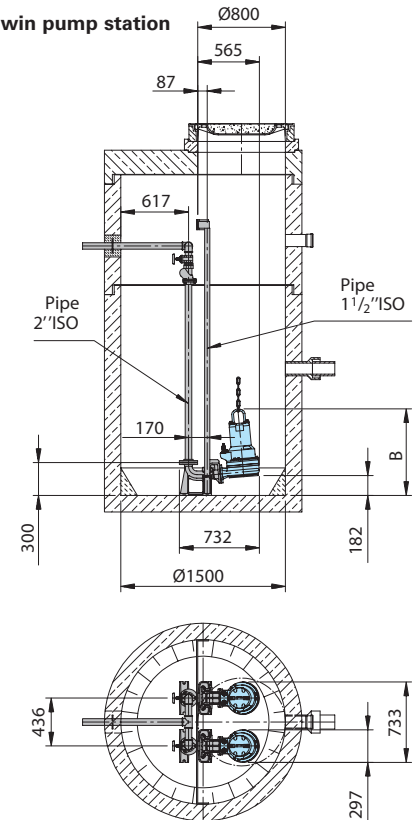
### Transportable model HP124 – HP126(ET)D



### Stationary model single pump station



### twin pump station

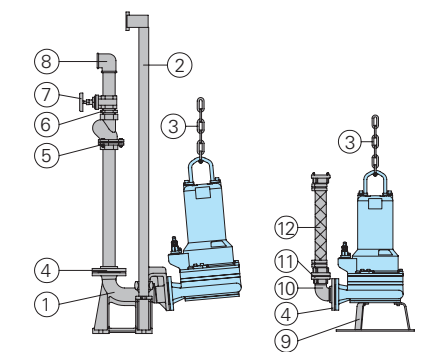


### Shaft installation with auto-couling system

Permanent installation utilising a submerged auto-coupling guide rail system for automatic connection and disconnection of the pump from the pipework from outside the sump. Applicable for single and multi pump stations. Advantages: Little space requirement, easy pump service and maintenance.

Type	A	B
HP124-126 (ET)D	844 (865)	862 (885)

### Accessories



Description	Size	Part no.
① Automatic coupling system GG with mating flange with double socket, base elbow with flange and slide rail bracket KK50/50	DN50	8604012
○ Coupling system completely or partly in stainless steel	all	on request

Description	Size	Part no.
○ Screw-Kits for fastening coupling systems		on request
○ Intermediate bracket for slide rail bracket extension	Ø 1 1/2" for KK50	7322901
② Guide rails, in pairs, per m		
Galvanized steel	Ø 1 1/2"	2190155
Stainless steel	Ø 1 1/2"	2190254
③ Pump chain sets, tested. With shackle, single or dual row, different lengths and load bearing capacities		on request
④ Threaded flange	DN 50/ BSP 2" F	2215050
⑤ Non-return ball valve GG	BSP 2" F	2212903
⑥ Double nipple, galvanized	BSP 2" M	2009018
⑦ Shut-off gate valve Brass	BSP 2" F	2216020

Description	Size	Part no.
⑧ 90° connection bend, galvanized	BSP 2" F	2113606
T-piece for merging the pressure pipe in double pump stations	BSP 2" F	2114306
⑨ Ring base stand		7321465
⑩ 90° Connection bend, galvanized	BSP 2" F/M	2111506
⑪ STORZ-fixed coupling	C-G 2" F	2010204
⑫ Plastic spiral hose, per m	Ø 50 mm	2632050
STORZ-hose coupling with long nozzle	C-52 mm Ø	2013003
Hose clamp	2"	2306009
Synthetic pressure hose, rubberized	10 m	2611310
from the inside, cpl. with	15 m	2611315
couplings C-52 mm Ø	20 m	2611320
	30 m	2611330
○ For pump controllers and switchgears for mobile and stationary applications, measuring systems and monitoring devices,	see HOMA accessories	

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