

Wear resistant submersible drainage pumps for clear water and drainage water.

H 119, H 121

Application

HOMA H 119 and H 121 are wear resistant submersible drainage pumps for pumping clear water or drainage water with abrasive sand or mud additives. They are used to pump surface water from sumps, subways and building sites, supply of industrial water, application on board ships etc.

DIN EN 12050-2: 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 liquid level in the sump.

Pumped liquid: Clear water or drainage water containing solids up to 10 mm spherical clearance. Max. liquid temperature: 35°C, short term up to 60°C.

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. The distance between impeller and casing can be readjusted to maintain maximum performance.


Motor: Fully submersible, pressure tight electric motor, oil-filled. Insulation class F. Motor protection IP 68. All 1 phase models with thermal sensors embedded in motor winding.

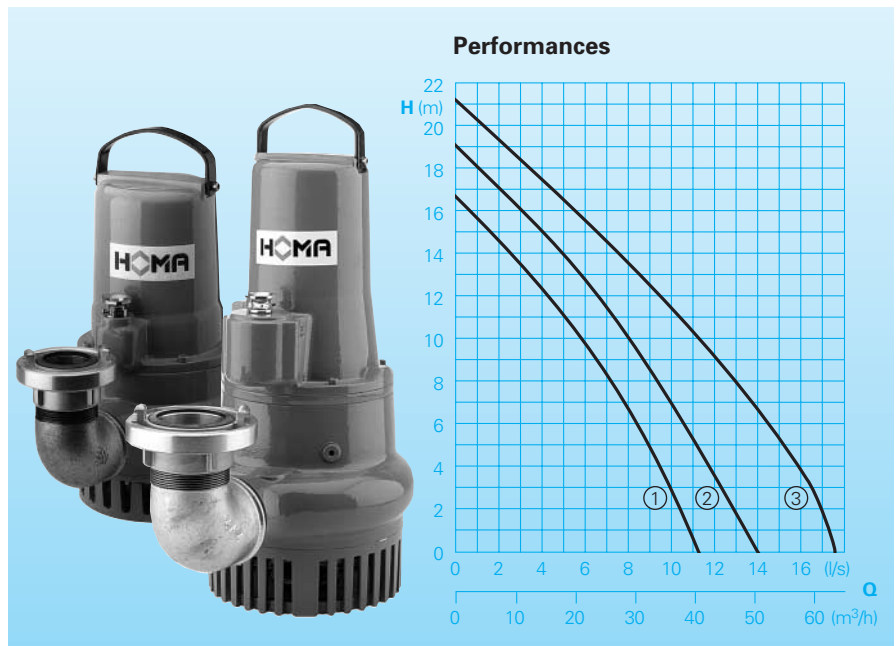
Cable: H07RN-F4G 1,5

Model Ex: H07RN-FPlus6G1,5

Shaft/Bearing: Large diameter stainless steel rotor shaft, prelubricated bearings, models H 121 lower bearing double-row type.

Seals: Combination of mechanical seals in a separate oil chamber. Oil check from outside. H 119 with 1 mechanical seal and 1 lip-seal. H 121 with 2 mechanical seals.

Explosion protection: All models are available with explosion proof motors according to  II 2 G EEx d [ib] IIBT4.



Technical Data

Curve No.	Pump type	Motor-input P ₁ (kW)	Motor-output P ₂ (kW)	Capacitor* (µF)	Nominal current (A)	Discharge	Weight (kg)
①	H 119 W G (A) (Ex)	1,6	1,2	30	7,8	BSP2" M	26
②	H 119 D G (A) (Ex)	1,6	1,2		2,9	BSP2" M	26
③	H 121 D (A) (Ex)	2,7	2,3		4,5	BSP2 1/2" M	40

Speed: 2900 rpm

Model W: 230-240V/1Ph

Model D: 400-415V/3Ph

Model Ex: Explosion proof

Model A: With automatic level control HOMA-Nivomatik

*Capacitor: For the operation it is necessary to install a capacitor in the control box.

Materials:

Motor housing, pump housing, impeller, suction cover	Cast iron GG 25/EN-GJL-250
Rotor shaft, screws	Stainless steel
Mechanical seals	Silicon carbide
Seal kit	Perbonane

Equipment supplied

Pump with 90° elbow, STORZ-fixed coupling size C, model H 121: size B. With 15 m of cable, control box and plug.

Model W (230-240V/1Ph):

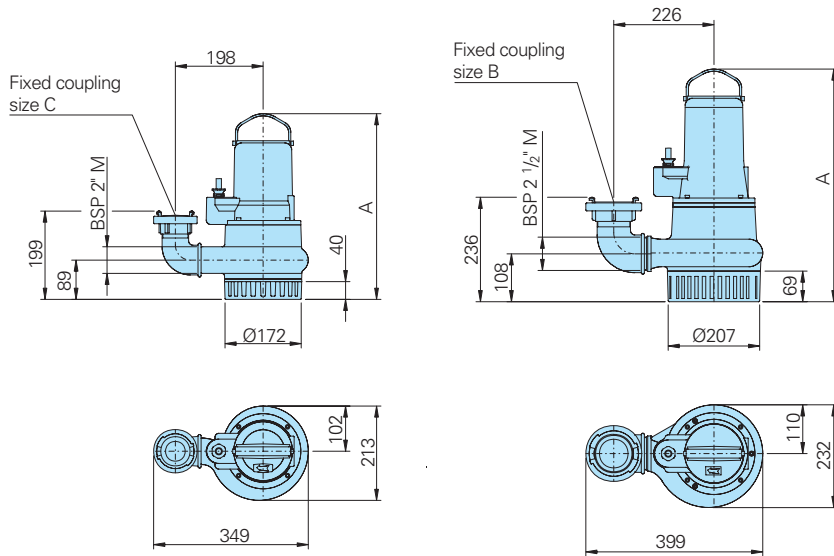
With control box W19; WT19 fitted with overload protection, capacitor, on-off-switch and plug.

Model D (400-415V/3Ph):

With control box D32; DT32 fitted with overload protection, on-off-switch and phase inverter.

Model A: With additional automatic level control, AS float switch, manual-auto-switch, control box WA15/19; DA15/32; DA15/12.

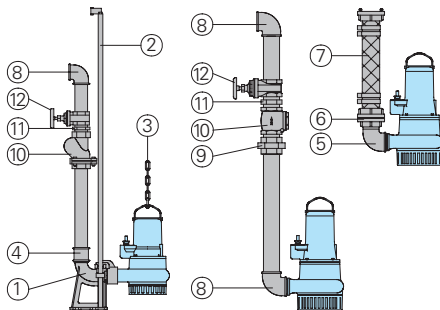
Dimensions



Pump type	Dim. A
H 119 WG	419
H 119 WG (Ex)	426
H 119 DG	419
H 119 DG (Ex)	426
H 121 D (Ex)	525

all dimensions in mm

Accessories



Part Description	Dimension	Part No.
① Auto-coupling system type KK50/R2" for H119, with:		8604005
- Cast iron auto-coupling with flange and thread	BSP 2" BSP 2" F	
- Cast iron flanged pump coupling	BSP 2" F	
- Cast iron upper slide bracket	BSP 1/2"	
type KK65/R 2 1/2" for H121, with:		8604015
- Cast iron auto-coupling with flange	DN 65	
- Cast iron flanged pump coupling	BSP 2 1/2" F	
- Cast iron upper slide rail bracket	BSP 1"	
② Guide rails, pair, per m, steel galvanized for KK50S/R2" for KK65/R2 1/2" stainless steel for KK50S/R2" for KK65/R2 1/2"	1/2" dia. 1" dia. 1/2" dia. 1" dia.	2190085 2190135 2190250 2190252

Part Description	Dimension	Part No.
③ Lifting chain, per m, steel galvanized	5 mm dia.	2800350
stainless steel	5 mm dia.	2800353
Shackle steel galvanized for chain 5 mm dia. stainless steel for chain 5 mm dia.		2801450 2801390
④ Galvanized double nipple	BSP 2" F	2109102
Threaded flange	DN 65 BSP 2 1/2" F	2215060
⑤ 90° galvanized elbow	BSP 2" F/M	Equipment supplied H 119
	BSP 2 1/2" F/M	Equipment supplied H 121
⑥ STORZ-fixed coupling	C-BSP 2" F	Equipment supplied H 119
	B-BSP 2 1/2" F	Equipment supplied H 121
⑦ Synthetic pressure hose with rubber lining and couplings		
C - 52 dia.	10 m 15 m 20 m 30 m	2611310 2611315 2611320 2611330
B - 75 dia.	10 m 15 m 20 m 30 m	2611210 2611215 2611220 2611230
STORZ-hose-coupling with spigot	C - 52 dia. B - 75 dia.	2013003 2013502
Reinforced hose, per m	50 mm dia. 75 mm dia.	2632050 2632075
Hose band	2" 85/20	2306009 2308520
STORZ-reducer	B-C A-B	2015423 2015612
Coupling spanner	A, B, C	2016002

Part Description	Dimension	Part No.
⑧ 90° galvanized elbow	BSP 2" F BSP 2 1/2" F	2113606 2113610
⑨ Galvanized pipe union	BSP 2" M/F BSP 2 1/2" M/F	2114311 2114312
⑩ Bronze non-return valve	BSP 2" F BSP 2 1/2" F	2211413 2211513
⑪ Galvanized double nipple	BSP 2" M BSP 2 1/2" M	2009018 2009025
⑫ Bronze gate valve	BSP 2" F BSP 2 1/2" F	2216020 2216025
○ HOMA-Nivomatik float switch level control conversion kit, - for 230-240 V/1Ph AZW 10/15	length 15 m	1435155
- for 400-415 V/3Ph AZD 10/15	length 15 m	1919452
○ Alarm device AL3 Mains-operated with connector for battery 9V (see below) for mains independent operation with integrated buzzer. Mains connection 230-240 V/1Ph		1586140
Battery for mains-independent operation	9V	1952215
Floatswitch MB, mercury free, on or off, with integrated counter weight		
Cable length	10 m 15 m	1465710 1465715
○ HOMA 2 poles earth leakage circuit breaker Fi 16/0,03 A		1561160
○ Control panel for single or twin pump station for automatic operation		On request

HOMA
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