

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. 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: 40°C, short term up to 60°C.

Operation: Permanent operation (S1)

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 H. Motor protection IP 68. Model W and Ex with thermal sensors embedded in motor winding.

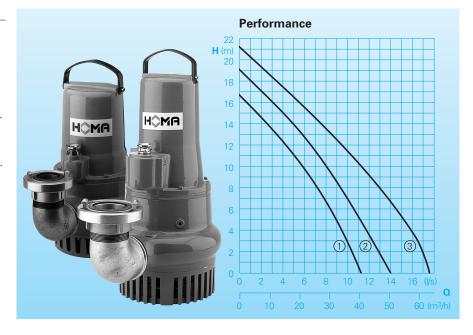
H07RN8-F4G1,5 Cable: Model Ex: H07RN8-F6G1,5 Shaft/Bearing: Large diameter

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 Ex c d II B T4(T3).



Technical Data

Curve Pump type		Motor		Capacitor*	Nominal	Discharge	Weight
No.		P_1	P_2	(μF)	current		(kg)
		(kW)	(kW)		(A)		
1	H119 W G (A) (Ex)	1,6	1,2	30	7,8	G 2 AG	26,0
2	H119 D G (A) (Ex)	1,6	1,2		2,9	G 2 AG	26,0
3	H121 D (A) (Ex)	2,7	2,3		4,5	G 2½ AG	40,0

Speed: 2900 rpm Model W: 230-240V/1Ph 50Hz Model D: 400-415V/3Ph 50Hz

Model A: With automatic level control HOMA-Nivomatik

Model Ex: explosion proof

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 EN-GJL-250
Rotor shaft, screws Schrauben	stainless steel
Mechanical seals	Silicon carbide
Seal kit	Perbonane

Equipment supplied

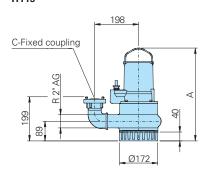
Pump with 90° elbow, STORZ-fixed coupling size C, model H 121: size B. With 15 m of cable, control box and plug. Model W (230-240V/1Ph):

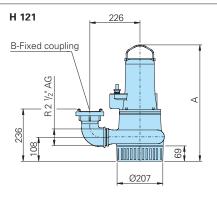
With control box W19; WT19 fitted with overload protection, capacitor, on-offswitch and plug.

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

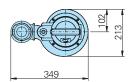
With control box D32: DT32 fitted with overload protection, on-off-switch and phase inverter.

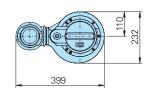
Model A: With additional automatic level control, AS float switch, manualauto-switch, control box WA15/19; DA15/32; DA15/12.



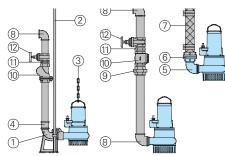


Pump type	Dim. A
H119 WG	419
H119 WG (Ex)	426
H119 DG	419
H119 DG (Ex)	426
H121 D (Ex)	525





Α	CC	ess	ori	es



Part Description	Dimension	Part No.
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①Auto-coupling system cast iron with counterflange

for H119, duck foot bend with thread, guide tube-bracket BSP½" BSP2"/BSP2" 8604005 KK50/R2"

- for H121, duck foot bend

for KK65/BSP21/2"

with flange, guide tube-bracket BSP1" KK65/BSP2 ½" DN65/BSP21/2" 8604015 Auto-coupling system complete all or partial in stainless steel types on request OScrew-kits for installation of coupling system on request Supporting brackets for ½" dia. guide tube for KK50 7320271 extension 1" dia. for KK65 7323714 ②Guide rails, pair, per m steel galvanized, for KK50/R2" ½" dia. 2190085 for KK65/R21/2" 1" dia. 2190135 stainless steel for KK50/BSP2" ½" dia. 2190250

Part Description	Dimension	Part No.
3 Pump chain sets, testet. With shackle, One- or Two-strand, different lengths and load capacities	0	n request
(4) Galvanized double		
nipple	BSP 2"F	2109102
Threaded flange	DN 65 BSP 2 1/2" F	2215060
(§)90° galvanized elbow	BSP 2" F/M BSP 2 1/2" F/M	Equipment supplied H 119 Equipment supplied H 121
⑥ STORZ-fixed coupling	C-BSP 2" F B-BSP 2 1/2" F	Equipment supplied H 119 Equipment supplied H 121
⑦Synthetic pressure hose with rubber lining and couplings C – 52 dia.	10 m 15 m	2611310 2611315
	20 m 30 m	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

Part Description	Dimension	Part No.		
Hose band	2" 85/20	2306009 2308520		
STORZ-reducer	B-C A-B	2015423 2015612		
Coupling spanner	A, B, C	2016002		
890° galvanized elbow	BSP 2" F BSP 2 1/2" F	2113606 2113610		
	BSP 2" M/F BSP 2 1/2" M/F	2114311 2114312		
®Bronze non-return valve	BSP 2" F BSP 2 1/2" F	2211413 2211513		
(1) Galvanized double nipple	BSP 2" M BSP 2 1/2" M	2009018 2009025		
②Bronze gate valve	BSP 2" F BSP 2 1/2" F	2216020 2216025		
OHOMA-Nivomatik float switch level contr conversion kit, – for 230-240 V/1Ph AZW 10/15	rol 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 1586141				
Battery for mains- independent operation	9V	1952215		
Floatswitch MB, mercury free, on or off with integrated counter weight		1405710		
Cable length	10 m 15 m	1465710 1465715		
OHOMA 2 poles earth leakage circuit breaker Fi 16/0,03 A	١	1561160		
OControl panel for single or twin pump station for				
automatic operation	C	n request		



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1" dia.

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