

## Submersible drainage pumps jacket cooled for clear water and drainage water.

### H 500, H 700

#### Application

HOMA H 500 and H 700 are wear resistant submersible pumps, designed for drainage of dirty water, pumping clear water or leakage water, H 500 also for water including abrasive solids. With their small diameter casing and central top discharge the pumps are the ideal solution for operation in narrow wells where conventional submersible pumps would be too large. The water jacket cooled motor with the top discharge protects the motor against overheating even during sip operation. Model B for aggressive liquids, e. g. seawater, alkaline solution. The pumps are used to pump surface water from building sites, wells, subways or tunnels, for lowering ground water, for irrigation, supply of industrial water, application on board ships etc.

**Installation:** Transportable or permanent.

**Pumped liquid:** Clear water or drainage water with abrasive (e.g. sand) solids. Max. liquid temperature: 104°F, short term up to 140°F

**Operation:** Permanent (S1).

#### Design

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

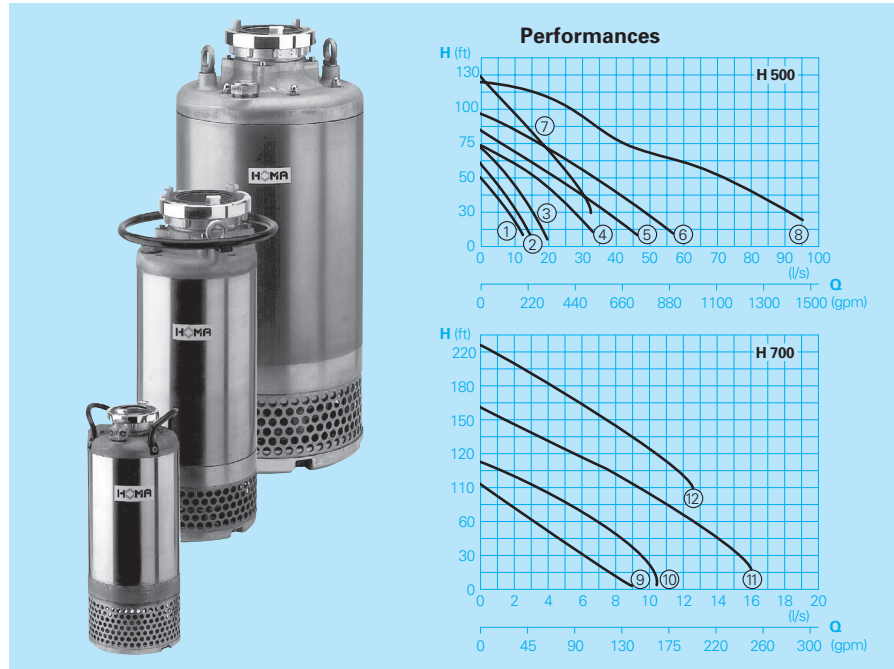
**Pump:** Single stage (H 500) or twin stage (H 700) centrifugal pump with vertical discharge.

**Impeller:** Open multi-channel impeller, spherical clearance 0,3"-0,7". The distance between impeller and casing can be readjusted to maintain maximum performance.

**Motor:** Fully submersible, pressure-tight, jacket cooled motor, oil-filled. Insulation class H. Motor protection IP 68. Cable connection chamber totally isolated from motor housing. Thermal sensors embedded in motor winding (types from H500B9/3).

**Shaft/Bearing:** Large diameter stainless steel rotor shaft, prelubricated bearings.

**Seals:** Combination of two mechanical seals in a separate oil chamber. Oil check from outside. Electronical seal control optional.



#### Technical Data

Curve No.	Pump type	Motor-output P <sub>2</sub> (HP)	Voltage 60Hz (3Ph)(V)	Nominal current (A)	Cable	Spherical clearance (mm)	Weight Stand.(B) (lbs)
a	H500 (B)/3/1	2,2	230/1Ph	9,8	H07RN-F4G2,5	8	72 (108)
b	H500 (B)/4/3	3,2	230/460	8,0 / 4,4	H07RN-F4G1,5	10	72 (108)
c	H500 (B)/5/3	4,0	230/460	11,2 / 5,6	H07RN-F4G2,5	10	86 (125)
d	H500 (B)/9/3	6,9	230/460	20,0 / 10,0	H07RN8-F7G2,5	10	121 (145)
e	H500 B/11/3	9,4	230/460	24,6 / 12,3	H07RN8-F7G4	15	(240)
f	H500 B/14/3	12,0	230/460	30,4 / 15,1	H07RN8-F10G2,5	15	(249)
g	H500 B/14H/3	12,0	230/460	30,4 / 15,4	H07RN8-F10G2,5	15	(249)
h	H500 B/33/3	28,8	230/460	71,0 / 35,5	H07RN8-F7G4	18	(662)
i	H700 (B)/4/3	2,9	230/460	8,4 / 4,2	H07RN-F4G1,5	10	79 (115)
j	H700 (B)/5/3	4,2	230/460	11,6 / 5,8	H07RN-F4G2,5	10	99 (138)
k	H700 B/11/3	9,1	230/460	24,2 / 12,1	H07RN8-F7G4	10	(271)
l	H700 B/15/3	12,7	230/460	32,6 / 16,3	H07RN8-F10G2,5	10	(280)

**Speed:** 3450 rpm  
Other voltages are available on request

**Model B:** For aggressive mediums

#### Materials

Motorhousing Model (B)	Aluminiumalloy AA 359-2 Cast iron ASTM A48;CI.40B	Motor shaft	AISI 430 F Stainless steel
Pressure cover Model (B)	Aluminium - optional NBR rubberized Cast iron	Bolts	AISI 304 Stainless steel
Motor jacket, suction stainer Model (B)	Aluminiumalloy AA 359-2 Aluminium AISI 304 Stainless steel	Mechanical seals	SiC / SiC
		Impeller up to H500/5/3 from H500/11/3 H700	ASTM A48;CI.40B Hard casting Cast iron EN-GJL-250
		Pump housing	Cast iron ASTM A48;CI.40B
		Seal kit	NBR

## Equipment supplied

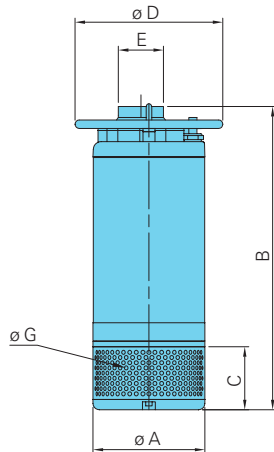
### Model (230 V / 1 Ph):

External start capacitor required.  
Optional for control box W19 fitted with overload protection, operation capacitor, on-off-switch, 20 m of cable.

### Model (460 V / 3 Ph):

Optional for control box D32, DT33 fitted with overload protection, on-off-switch and 20 m of cable.

## Dimensions



Type	A	B	C	D max.	G	E
H 500 (B)/3/1	8,6	19,7	2,5	9,4 <sup>1)</sup>	0,30	BSP 2 1/2" M / 3" NPT (M)
H 500 (B)/4/3	8,6	21,7	4,4	9,4 <sup>1)</sup>	0,39	BSP 2 1/2" M / 3" NPT (M)
H 500 (B)/5/3	8,6	23,5	4,4	9,4 <sup>1)</sup>	0,39	BSP 2 1/2" M / 3" NPT (M)
H 500 (B)/9/3	9,8	25,7	5,4	10,9 <sup>1)</sup>	0,39	BSP 4" M / 4" NPT (M)
H 500 B/11/3	11	29,6	4,9	14,5 <sup>2)</sup>	0,59	BSP 4" M / 4" NPT (M)
H 500 B/14/3	11	29,9	4,9	14,5 <sup>2)</sup>	0,59	BSP 6" M / 6" NPT (M)
H 500 B/14H/3	11	29,4	4,9	14,5 <sup>2)</sup>	0,59	BSP 3" F / 3" NPT (M)
H 500 B/33/3	17,3	39,0	7,2	17,3 <sup>3)</sup>	0,70	BSP 6" M / 4" NPT (M)
H 700 (B)/4/3	8,6	21,7	4,4	9,4 <sup>1)</sup>	0,39	BSP 2 1/2" M / 3" NPT (M)
H 700 (B)/5/3	8,6	23,5	4,4	9,4 <sup>1)</sup>	0,39	BSP 2 1/2" M / 3" NPT (M)
H 700 B/11/3	11	31,2	6,2	14,5 <sup>2)</sup>	0,39	BSP 3" F / 3" NPT (M)
H 700 B/15/3	11	31,2	6,2	14,5 <sup>2)</sup>	0,39	BSP 3" F / 3" NPT (M)

all dimensions in inch <sup>1)</sup> with double handle <sup>2)</sup> with support ring <sup>3)</sup> with lifting ring



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