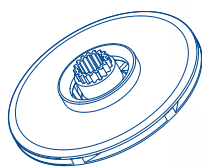




NH



Multi-stage submersible pumps



PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **105 m**

APPLICATION LIMITS

- Maximum liquid temperature **+40 °C**
- Maximum sand content **50 g/m³**
- **20 m** maximum immersion depth
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

- ➡ Complete with **20 m** long power cable

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



INSTALLATION AND USE

As a result of their high efficiency and reliability they are suitable for use with clean water in domestic, civil and agricultural applications such as the distribution of water in combination with pressure sets, for the irrigation of gardens and allotments and for pressure boosting, etc.

OPTIONALS AVAILABLE ON REQUEST

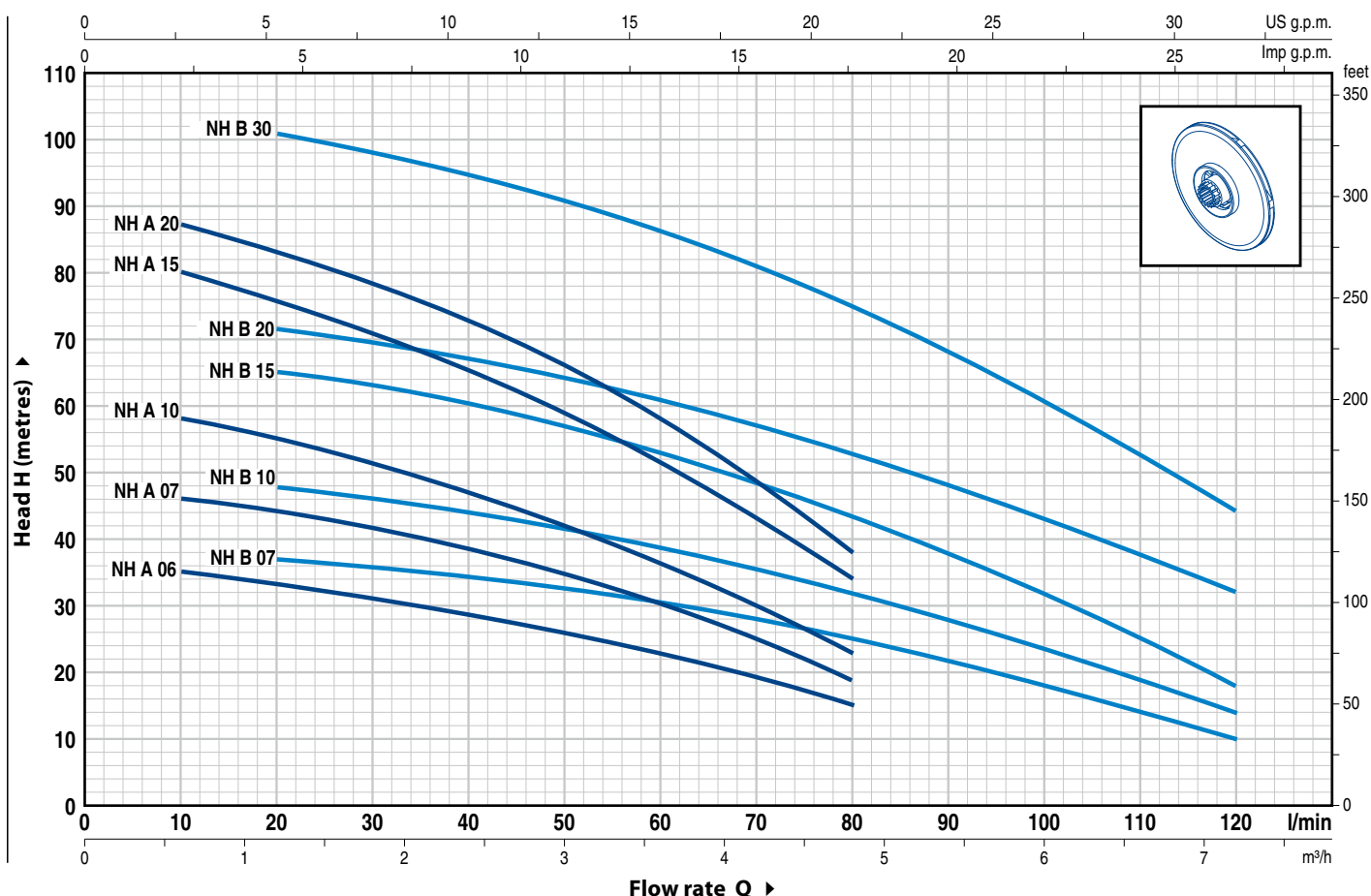
- Pumps fitted with power cables of other lengths
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



VERSION WITHOUT FLOAT SWITCH

MODEL		POWER		Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
Single-phase	Three-phase	kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	120
NH A 06M	–	0.45	0.6	H metres	36	35	33	31	28.5	26	23	19	15				
NH A 07M	–	0.55	0.75		48	46	44	41.5	39	35	30	25	19				
NH A 10M	NH A 10	0.75	1		60	58	55	51	47	42	36	30	23				
NH A 15M	NH A 15	1.1	1.5		84	80	75	70	65	59	51	42.5	34				
NH A 20M	NH A 20	1.5	2		90	87	83	78	73	66	58	48	38				
NH B 07M	–	0.55	0.75		40	–	37	36	34.5	32.5	30	28	25	21.5	18.5	14.5	10
NH B 10M	NH B 10	0.75	1		50	–	48	46	44	41	38	35	32	28	24	19	14
NH B 15M	NH B 15	1.1	1.5		67	–	65	62.5	60	56.5	52	48	44	38	32	25	18
NH B 20M	NH B 20	1.5	2		75	–	72	69	66	64	60	57	53	48	43	38	32
NH B 30M	NH B 30	2.2	3		105	–	101	98	94	90	86	80	75	67	60	52	44

“GE” VERSION WITH FLOAT SWITCH

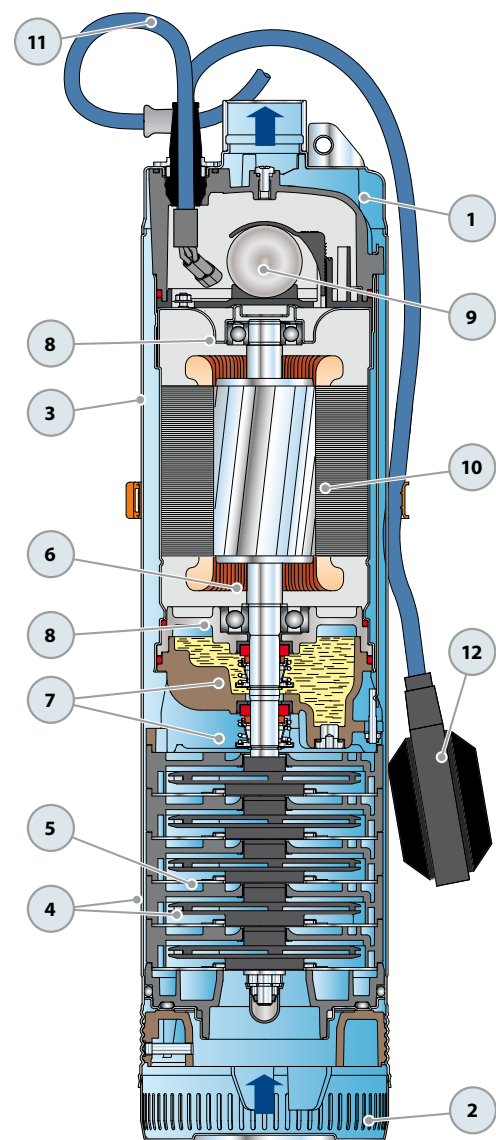
MODEL		POWER		Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
Single-phase		kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	120
NH A 06M - float		0.45	0.6	H metres	36	35	33	31	28.5	26	23	19	15				
NH A 07M - float		0.55	0.75		48	46	44	41.5	39	35	30	25	19				
NH A 10M - float		0.75	1		60	58	55	51	47	42	36	30	23				
NH A 15M - float		1.1	1.5		84	80	75	70	65	59	51	42.5	34				
NH A 20M - float		1.5	2		90	87	83	78	73	66	58	48	38				
NH B 07M - float		0.55	0.75		40	–	37	36	34.5	32.5	30	28	25	21.5	18.5	14.5	10
NH B 10M - float		0.75	1		50	–	48	46	44	41	38	35	32	28	24	19	14
NH B 15M - float		1.1	1.5		67	–	65	62.5	60	56.5	52	48	44	38	32	25	18
NH B 20M - float		1.5	2		75	–	72	69	66	64	60	57	53	48	43	38	32
NH B 30M - float		2.2	3		105	–	101	98	94	90	86	80	75	67	60	52	44

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

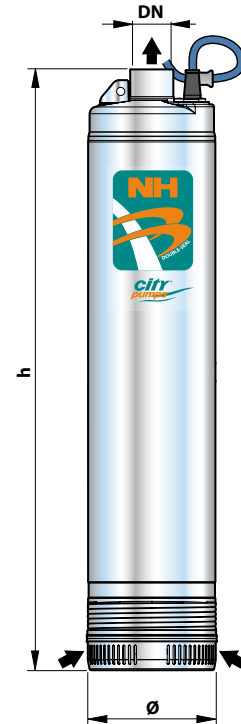
POS. COMPONENT		CONSTRUCTION CHARACTERISTICS			
1	EXTERNAL SLEEVE	Stainless steel AISI 304, complete with threaded delivery port in compliance with ISO 228/1			
2	SUCTION FILTER	Stainless steel AISI 304			
3	MOTOR SLEEVE	Stainless steel AISI 304			
4	IMPELLERS AND DIFFUSERS	Noryl GFN2V			
5	DIAPHRAGMS	Stainless steel AISI 304, complete with anti-wear ring			
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104			
7	TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER				
Seal		Shaft	Position	Materials	
Model	Diameter			Stationary ring	Rotational ring Elastomer
MG1-16	Ø 16 mm	Motor side		Silicon carbide	Graphite NBR
MG1-15 SIC	Ø 15 mm	Pump side		Silicon carbide	Silicon carbide NBR
8	BEARINGS	6303 2RS - C3 / 6203 ZZ - C3			
9	CAPACITOR				
Pump		Capacitance			
Single-phase	(230 V or 240 V)	(110 V)			
NH A 06M	16 µF 500 VL	30 µF 250 VL			
NH A 07M	16 µF 500 VL	30 µF 250 VL			
NH B 07M					
NH A 10M	20 µF 500 VL	–			
NH B 10M					
NH A 15M	25 µF 500 VL	–			
NH B 15M					
10	ELECTRIC MOTOR				
NH M: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.					
NH: three-phase 400 V - 50 Hz.					
– Insulation: F class.					
– Protection: IP 68.					
11	POWER CABLE				
➡ 20 metre long DRINCABLE® for permanent immersion in driNHing water					
12	FLOAT SWITCH				

The diagram illustrates the internal components of a submersible pump assembly. The components are numbered as follows: 1. External sleeve at the top; 2. Suction filter below the sleeve; 3. Motor sleeve surrounding the motor; 4. Impellers and diffusers in the center; 5. Diaphragms separating the motor from the pump chamber; 6. Motor shaft; 7. Two mechanical seals separated by an oil chamber; 8. Bearings; 9. Capacitor; 10. Electric motor; 11. Power cable; 12. Float switch at the bottom. The diagram shows the flow of water from the suction filter through the impellers and diffusers, and the electrical connection from the power cable to the motor and capacitor.



DIMENSIONS AND WEIGHT

MODEL		PORT DN	N° STAGES	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
NH A 06M	–	1¼"	3	135	495	13.9	–
NH A 07M	–		4		519	14.5	–
NH A 10M	–		5		573	16.3	–
–	NH A 10				543	–	15.0
NH A 15M	NH A 15		7		621	18.1	18.0
NH B 07M	–		4		519	14.3	–
NH B 10M	–		5		573	16.2	–
–	NH B 10				543	–	15.1
NH B 15M	NH B 15		7		621	18.1	18.0



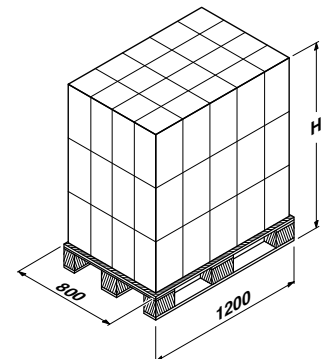
ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
NH A 06M	4.5 A	4.5 A	9.0 A
NH A 07M	5.0 A	5.0 A	10.0 A
NH A 10M	6.0 A	6.0 A	–
NH A 15M	7.5 A	7.5 A	–
NH B 07M	5.0 A	5.0 A	10.0 A
NH B 10M	6.0 A	6.0 A	–
NH B 15M	7.5 A	7.5 A	–

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
NH A 10	4.5 A	2.6 A	4.5 A	2.6 A
NH A 15	5.2 A	3.0 A	5.2 A	3.0 A
NH 4/2	4.5 A	2.6 A	4.5 A	2.6 A
NH B 15	5.2 A	3.0 A	5.2 A	3.0 A

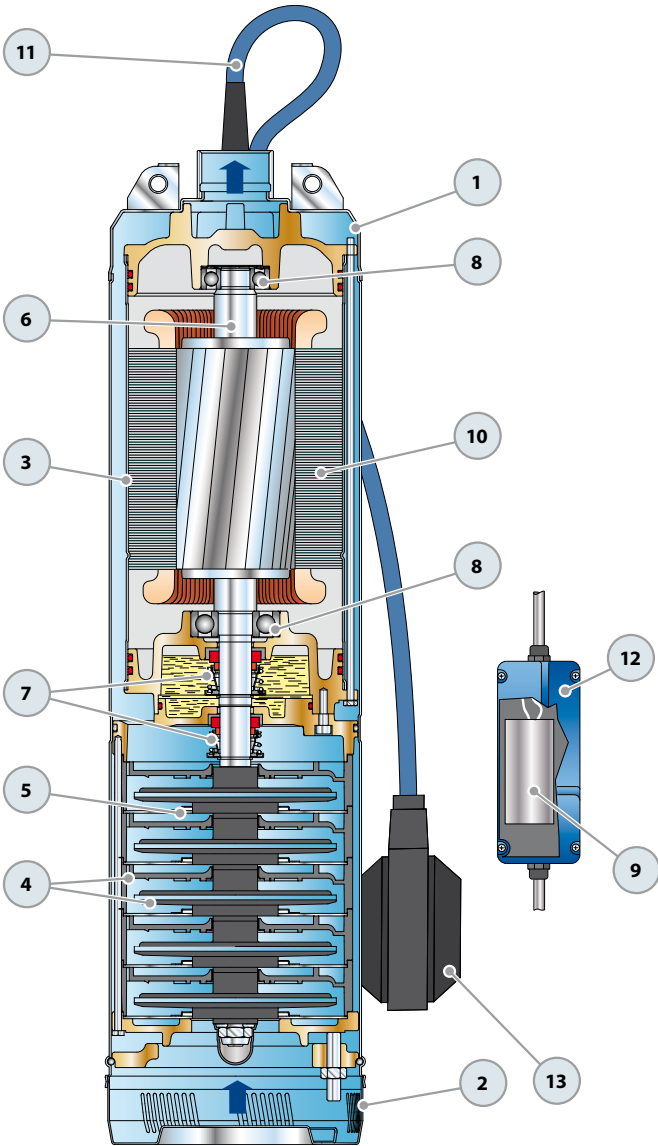
PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
Single-phase	Three-phase	n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
NH A 06M	–	30	1015	434	–	60	1890	852	–
NH A 07M	–	30	1015	452	–	60	1890	887	–
NH B 07M	–								
NH A 10M	–	25	869	425	–	40	1307	670	–
NH B 10M	–								
–	NH A 10 NH B 10	30	1015	–	470	60	1890	–	915
NH A 15M	NH A 15	25	869	469	467	40	1307	740	737
NH B 15M	NH B 15								



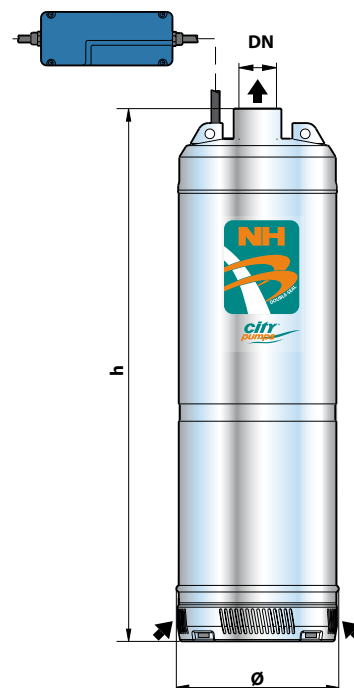
POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS																								
1	EXTERNAL SLEEVE	Stainless steel AISI 304, complete with threaded delivery port in compliance with ISO 228/1																								
2	SUCTION FILTER	Stainless steel AISI 304																								
3	MOTOR SLEEVE	Stainless steel AISI 304																								
4	IMPELLERS AND DIFFUSERS	Noryl GFN2V																								
5	DIAPHRAGMS	Stainless steel AISI 304, complete with anti-wear ring																								
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104																								
7	TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER																									
<table><tr><th>Seal</th><th>Shaft</th><th>Position</th><th colspan="3">Materials</th></tr><tr><th>Model</th><th>Diameter</th><th></th><th>Stationary ring</th><th>Rotational ring</th><th>Elastomer</th></tr><tr><td>MG1-19</td><td>Ø 19 mm</td><td>Motor side</td><td>Silicon carbide</td><td>Graphite</td><td>NBR</td></tr><tr><td>MG1-18 SIC</td><td>Ø 18 mm</td><td>Pump side</td><td>Silicon carbide</td><td>Silicon carbide</td><td>NBR</td></tr></table>		Seal	Shaft	Position	Materials			Model	Diameter		Stationary ring	Rotational ring	Elastomer	MG1-19	Ø 19 mm	Motor side	Silicon carbide	Graphite	NBR	MG1-18 SIC	Ø 18 mm	Pump side	Silicon carbide	Silicon carbide	NBR	
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<table><tr><th>Pump</th><th>Capacitance</th></tr><tr><th>Single-phase</th><th>(230 V or 240 V)</th></tr><tr><td>NH A 20M</td><td>35 µF 450 VL</td></tr><tr><td>NH B 20M</td><td></td></tr><tr><td>NH B 30M</td><td>50 µF 450 VL</td></tr></table>		Pump	Capacitance	Single-phase	(230 V or 240 V)	NH A 20M	35 µF 450 VL	NH B 20M		NH B 30M	50 µF 450 VL															
Pump	Capacitance																									
Single-phase	(230 V or 240 V)																									
NH A 20M	35 µF 450 VL																									
NH B 20M																										
NH B 30M	50 µF 450 VL																									
10	ELECTRIC MOTOR	NH M: single-phase 230 V - 50 Hz. Windings up to 1.5 kW with built-in thermal overload protector. ➡ The NH MB 30 2.2 kW pump is equipped with an external manual reset overload protector housed in the control box. NH: three-phase 400 V - 50 Hz. – Insulation: F class. – Protection: IP 68.																								
11	POWER CABLE	➡ 20 metre long DRINCABLE® with removable connector for permanent immersion in driNHing water																								
12	CONTROL BOX	(for single-phase versions)																								
13	FLOAT SWITCH																									

The diagram illustrates the internal components of a submersible pump. At the top, a power cable (11) enters through an external sleeve (1). Below the sleeve is a suction filter (2). The motor assembly consists of a motor sleeve (3) housing a motor shaft (6) with bearings (8). Two mechanical seals (7) are positioned on either side of the motor shaft, separated by an oil chamber. The pump side features impellers and diffusers (4) and diaphragms (5). The entire unit is shown in a vertical orientation, with a smaller inset diagram at the bottom right showing a float switch (13) connected to the pump assembly.



DIMENSIONS AND WEIGHT

MODEL		PORT DN	N° STAGES	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
NH A 20M	NH A 20	1¼"	6	153	612	26.7	23.8
NH B 20M	NH B 20		5		582	26.0	24.4
NH B 30M	NH B 30		7		642	30.5	28.0



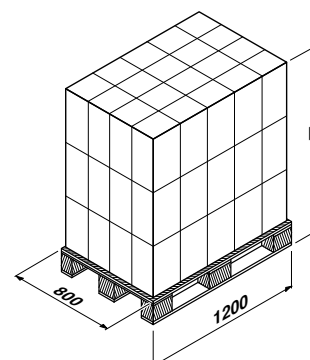
ABSORPTION

MODEL	VOLTAGE (single-phase)	
Single-phase	230 V	240 V
NH A 20M	9.0 A	9.0 A
NH B 20M	9.5 A	9.5 A
NH B 30M	14.0 A	14.0 A

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
NH A 20	6.2 A	3.6 A	6.2 A	3.6 A
NH B 20	6.2 A	3.6 A	6.2 A	3.6 A
NH B 30	8.5 A	4.9 A	8.5 A	4.9 A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
Single-phase	Three-phase	n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
				1~	3~			1~	3~
NH A 20M	NH A 20	20	1100	551	493	40	2060	1085	969
NH B 20M	NH B 20	20	1100	537	505	40	2060	1058	993
NH B 30M	NH B 30	20	1100	627	576	40	2060	1237	1136





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