



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



CERTIFICATIONS



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

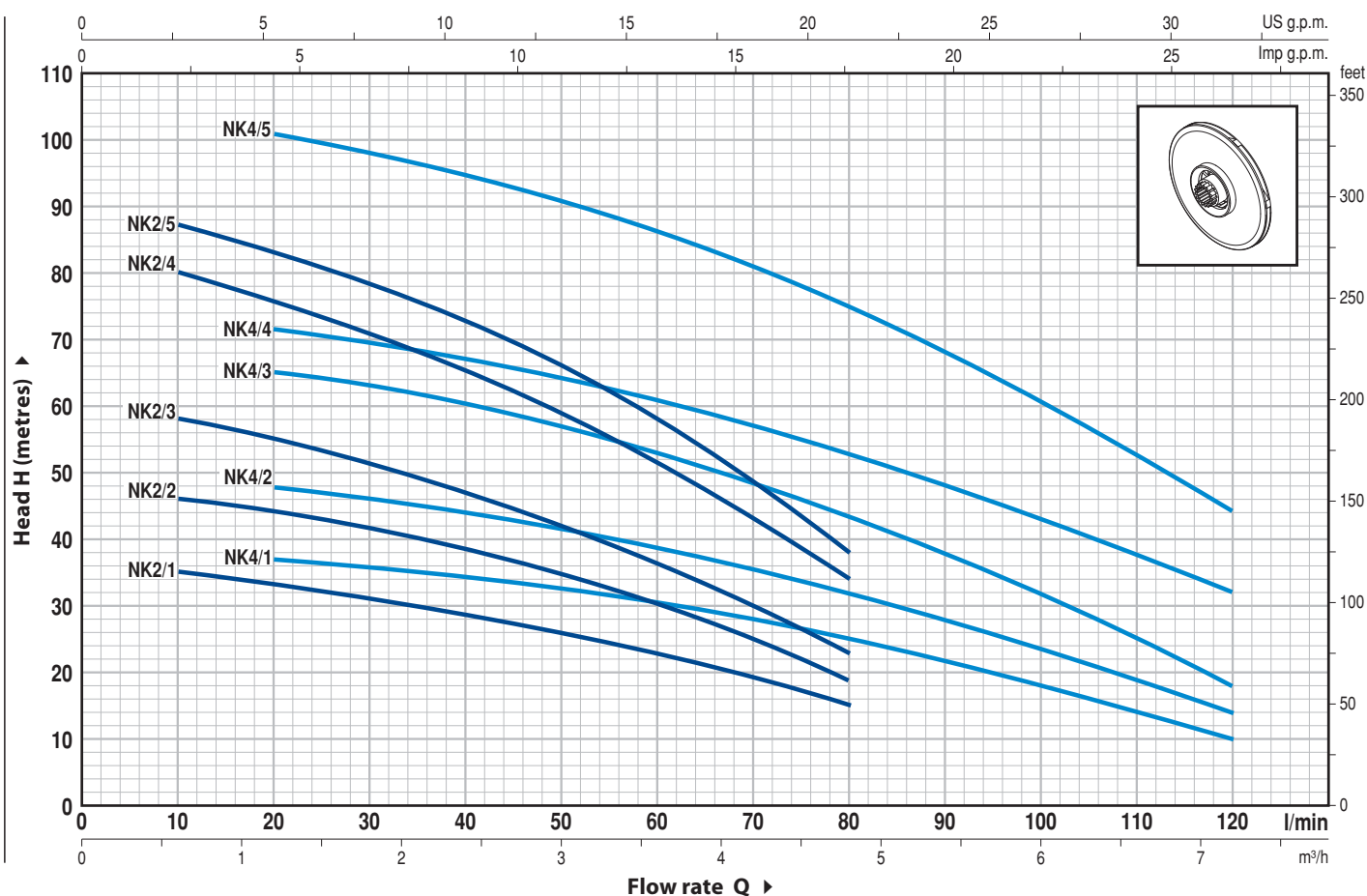
- Pumps fitted with power cables of other lengths
- Other voltages or 60 Hz frequency

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
NKm 2/1	–	0.45	0.6	H metres	36	35	33	31	28.5	26	23	19	15				
NKm 2/2	–	0.55	0.75		48	46	44	41.5	39	35	30	25	19				
NKm 2/3	NK 2/3	0.75	1		60	58	55	51	47	42	36	30	23				
NKm 2/4	NK 2/4	1.1	1.5		84	80	75	70	65	59	51	42.5	34				
NKm 2/5	NK 2/5	1.5	2		90	87	83	78	73	66	58	48	38				
NKm 4/1	–	0.55	0.75		40	–	37	36	34.5	32.5	30	28	25	21.5	18.5	14.5	10
NKm 4/2	NK 4/2	0.75	1		50	–	48	46	44	41	38	35	32	28	24	19	14
NKm 4/3	NK 4/3	1.1	1.5		67	–	65	62.5	60	56.5	52	48	44	38	32	25	18
NKm 4/4	NK 4/4	1.5	2		75	–	72	69	66	64	60	57	53	48	43	38	32
NKm 4/5	NK 4/5	2.2	3		105	–	101	98	94	90	86	80	75	67	60	52	44

“GE” VERSION WITH FLOAT SWITCH

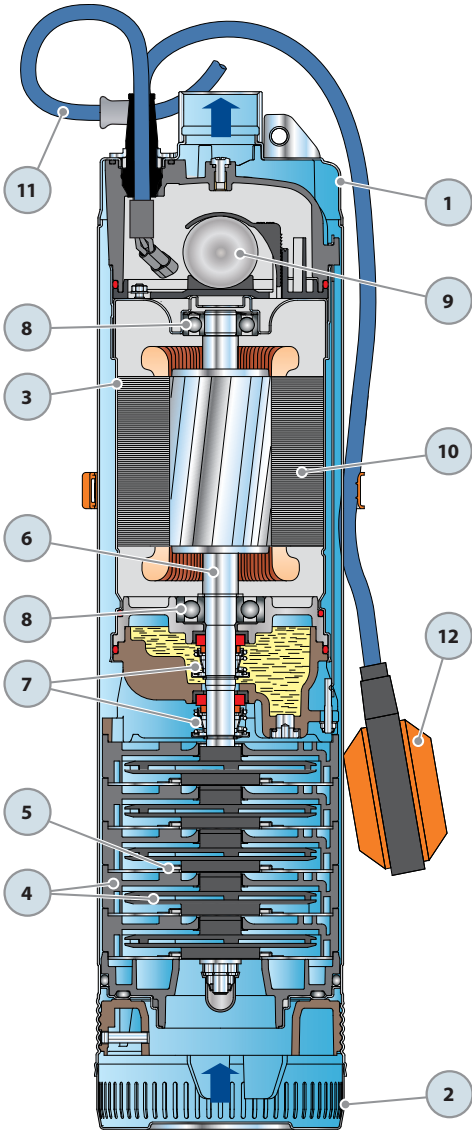
MODEL	POWER		Q m³/h l/min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
	kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	120
Single-phase			H metres													
NKm 2/1 - GE	0.45	0.6		36	35	33	31	28.5	26	23	19	15				
NKm 2/2 - GE	0.55	0.75		48	46	44	41.5	39	35	30	25	19				
NKm 2/3 - GE	0.75	1		60	58	55	51	47	42	36	30	23				
NKm 2/4 - GE	1.1	1.5		84	80	75	70	65	59	51	42.5	34				
NKm 2/5 - GE	1.5	2		90	87	83	78	73	66	58	48	38				
NKm 4/1 - GE	0.55	0.75		40	–	37	36	34.5	32.5	30	28	25	21.5	18.5	14.5	10
NKm 4/2 - GE	0.75	1		50	–	48	46	44	41	38	35	32	28	24	19	14
NKm 4/3 - GE	1.1	1.5		67	–	65	62.5	60	56.5	52	48	44	38	32	25	18
NKm 4/4 - GE	1.5	2		75	–	72	69	66	64	60	57	53	48	43	38	32
NKm 4/5 - GE	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.

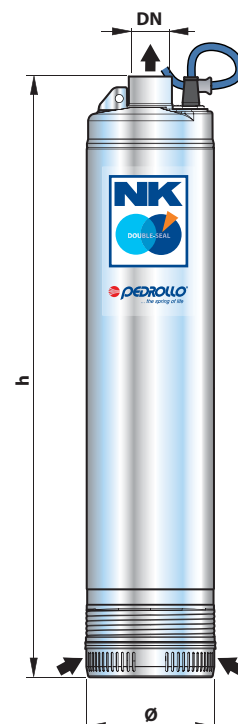
POS. COMPONENT		CONSTRUCTION CHARACTERISTICS			
1	EXTERNAL SLEEVE	Stainless steel AISI 304, complete with threaded delivery port in compliance with ISO 228/1			
2	SUCTION FILTER	Stainless steel AISI 304			
3	MOTOR SLEEVE	Stainless steel AISI 304			
4	IMPELLERS AND DIFFUSERS	Noryl GFN2V			
5	DIAPHRAGMS	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)			
NKm 2/1	16 µF 500 VL	30 µF 250 VL			
NKm 2/2	16 µF 500 VL	30 µF 250 VL			
NKm 4/1	20 µF 500 VL	–			
NKm 2/3	20 µF 500 VL	–			
NKm 4/2	25 µF 500 VL	–			
NKm 2/4					
NKm 4/3					
10	ELECTRIC MOTOR				
NKm: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.					
NK: three-phase 400 V - 50 Hz.					
– Insulation: F class.					
– Protection: IP 68.					
11	POWER CABLE				
➔ 20 metre long DRINCABLE® for permanent immersion in drinking water					
12	FLOAT SWITCH				

The diagram illustrates the internal components of a submersible pump assembly. It shows a vertical motor shaft (6) passing through a series of mechanical seals (7) and bearings (8). The shaft is connected to a pump impeller (4) at the top. The entire assembly is housed within a stainless steel external sleeve (1). A suction filter (2) is located at the top of the sleeve. The pump is powered by a motor (10) with a capacitor (9). A power cable (11) is connected to the motor, and a float switch (12) is attached to the bottom of the assembly. The diagram also shows the motor sleeve (3) and the impeller/diffusers (4). The motor shaft (6) is shown passing through the motor sleeve (3) and the impeller/diffusers (4). The motor shaft (6) is also shown passing through the motor sleeve (3) and the impeller/diffusers (4). The motor shaft (6) is also shown passing through the motor sleeve (3) and the impeller/diffusers (4).



DIMENSIONS AND WEIGHT

MODEL		PORT	N°	DIMENSIONS mm		kg	
Single-phase	Three-phase	DN	STAGES	Ø	h	1~	3~
NKm 2/1	–	1 1/4"	3	135	495	13.9	–
NKm 2/2	–		4		519	14.5	–
NKm 2/3	NK 2/3		5		573	16.3	15.2
NKm 2/4	NK 2/4		7		621	18.1	18.0
NKm 4/1	–		4		519	14.3	–
NKm 4/2	NK 4/2		5		573	16.2	15.2
NKm 4/3	NK 4/3		7		621	18.1	18.0



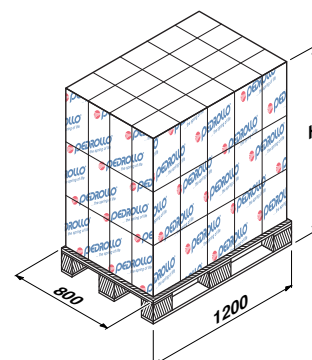
ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
NKm 2/1	4.5 A	4.5 A	9.0 A
NKm 2/2	5.0 A	5.0 A	10.0 A
NKm 2/3	6.0 A	6.0 A	–
NKm 2/4	7.5 A	7.5 A	–
NKm 4/1	5.0 A	5.0 A	10.0 A
NKm 4/2	6.0 A	6.0 A	–
NKm 4/3	7.5 A	7.5 A	–

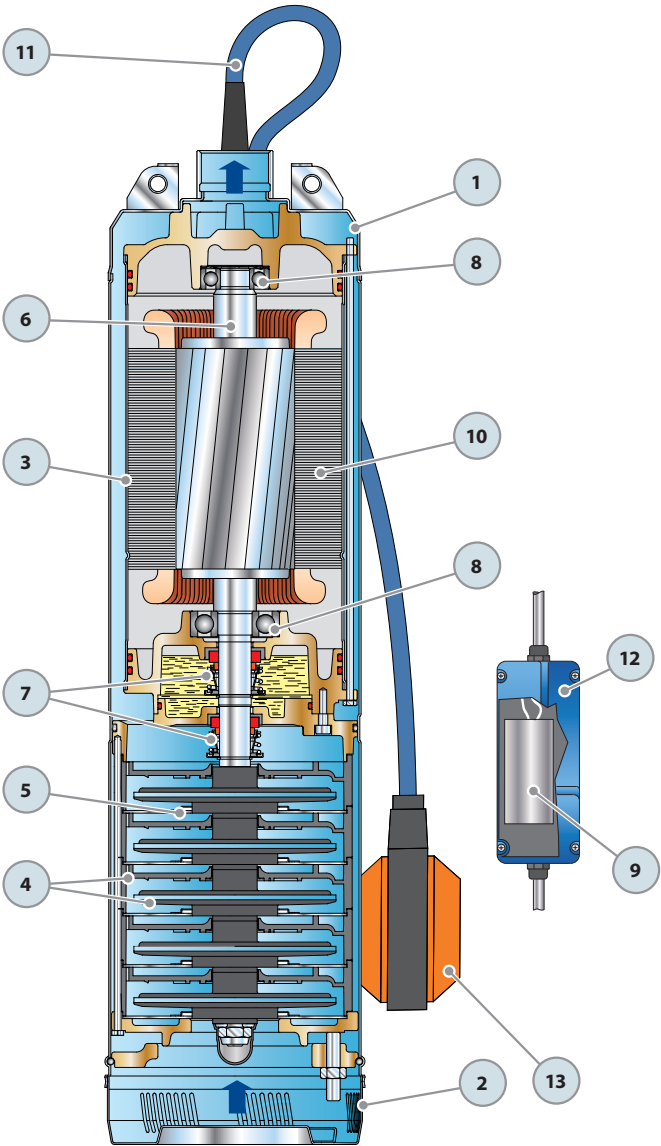
MODEL	VOLTAGE (three-phase)			
	230 V	400 V	240 V	415 V
NK 2/3	4.5 A	2.6 A	4.5 A	2.6 A
NK 2/4	5.2 A	3.0 A	5.2 A	3.0 A
NK 4/2	4.5 A	2.6 A	4.5 A	2.6 A
NK 4/3	5.2 A	3.0 A	5.2 A	3.0 A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
		n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
Single-phase	Three-phase			1~	3~			1~	3~
NKm 2/1	–	30	1015	434	–	60	1890	852	–
NKm 2/2	–	30	1015	452	–	60	1890	887	–
NKm 4/1	–	30	1015	452	–	60	1890	887	–
NKm 2/3	NK 2/3	25	869	425	400	40	1307	670	626
NKm 4/2	NK 4/2	25	869	425	400	40	1307	670	626
NKm 2/4	NK 2/4	25	869	469	467	40	1307	740	737
NKm 4/3	NK 4/3	25	869	469	467	40	1307	740	737



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																								
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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>NKm 2/5</td><td>35 µF 450 VL</td></tr><tr><td>NKm 4/4</td><td></td></tr><tr><td>NKm 4/5</td><td>50 µF 450 VL</td></tr></table>		Pump	Capacitance	Single-phase	(230 V or 240 V)	NKm 2/5	35 µF 450 VL	NKm 4/4		NKm 4/5	50 µF 450 VL															
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Single-phase	(230 V or 240 V)																									
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NKm 4/4																										
NKm 4/5	50 µF 450 VL																									
10	ELECTRIC MOTOR	NKm: single-phase 230 V - 50 Hz. Windings up to 1.5 kW with built-in thermal overload protector. ⇒ The NKm4/5 2.2 kW pump is equipped with an external manual reset overload protector housed in the control box. NK: 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 drinking water																								
12	CONTROL BOX	(for single-phase versions)																								
13	FLOAT SWITCH																									



DIMENSIONS AND WEIGHT

MODEL		PORT DN	N° STAGES	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
NKm 2/5	NK 2/5	1 1/4"	6	153	612	26.7	23.8
NKm 4/4	NK 4/4		5		582	26.0	24.4
NKm 4/5	NK 4/5		7		642	30.5	28.0



ABSORPTION

MODEL	VOLTAGE (single-phase)	
Single-phase	230 V	240 V
NKm 2/5	9.0 A	9.0 A
NKm 4/4	9.5 A	9.5 A
NKm 4/5	14.0 A	14.0 A

MODEL	VOLTAGE (three-phase)			
Three-phase	230 V	400 V	240 V	415 V
NK 2/5	6.2 A	3.6 A	6.2 A	3.6 A
NK 4/4	6.2 A	3.6 A	6.2 A	3.6 A
NK 4/5	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~
NKm 2/5	NK 2/5	20	1100	551	493	40	2060	1085	969
NKm 4/4	NK 4/4	20	1100	537	505	40	2060	1058	993
NKm 4/5	NK 4/5	20	1100	627	576	40	2060	1237	1136

