



GENERAL CATALOGUE

 **PEDROLLO**[®]
... the spring of life



PEDROLLO S.p.A.

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PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **103 m**

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **10 bar**
- Continuous service **S1**

SAFETY STANDARDS

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

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



CERTIFICATIONS



INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The high efficiency and adaptability of these pumps to even the most unusual of applications, makes them ideal for use in the domestic, civil and industrial sectors; in particular for the distribution of water in combination with pressure sets and for pressure boosting.

The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

OPTIONALS AVAILABLE ON REQUEST

- Suction and delivery ports with threaded flanges in compliance with ISO 228/1 (1" - 1¼" - 1½). MK 3-5 versions only
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

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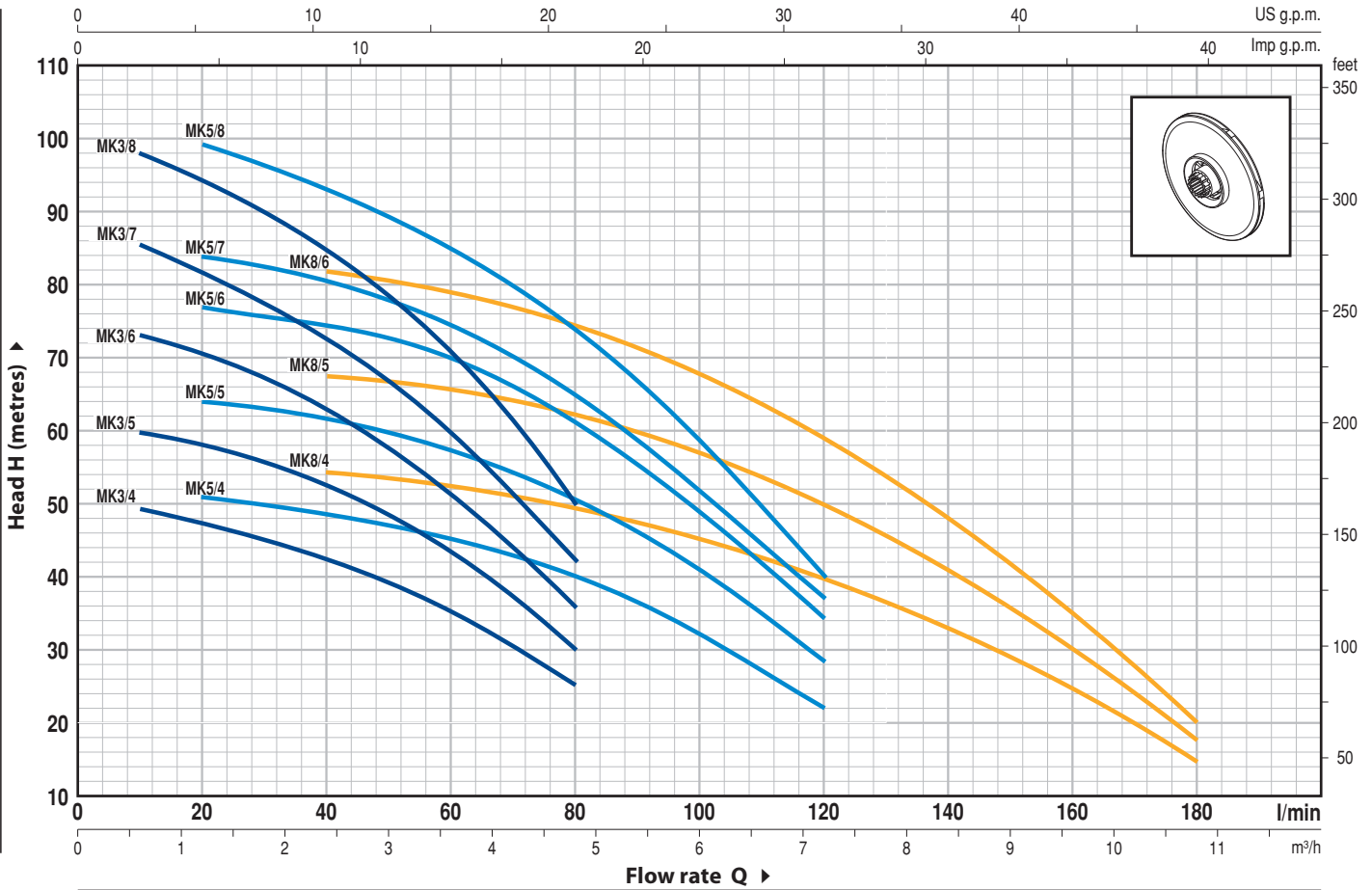
Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min HS= 0 m



MODEL		POWER		Q	Flow rate													
Single-phase	Three-phase	kW	HP		0	0.6	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8			
MK3/4	MK 3/4	0.75	1	0	0	10	20	40	60	80	100	120	140	160	180			
MK3/5	MK 3/5	0.75	1	50	49	47	42.5	35	25									
MK3/6	MK 3/6	1.1	1.5	62	60	58.5	52.5	43.5	30									
MK3/7	MK 3/7	1.1	1.5	75	73	70	62.5	51.5	36									
MK3/8	MK 3/8	1.5	2	88	85	81.5	73	59.5	42									
MK5/4	MK 5/4	1.1	1.5	100	98	94	85	70.5	50									
MK5/5	MK 5/5	1.5	2	53	-	51	48	45	40	32	22							
MK5/6	MK 5/6	1.8	2.5	67	-	64	61	57.5	51	41.5	29							
MK5/7	MK 5/7	2.2	3	80	-	77	74	70	61	49	34							
MK5/8	MK 5/8	2.2	3	87	-	84	80	75	64.5	51.5	37							
MK8/4	MK 8/4	1.5	2	103	-	99	93	85	74.5	58.5	40							
MK8/5	MK 8/5	1.8	2.5	56.0	-	-	54.0	52.0	50.0	46.0	39.0	31.5	24.0	15.0				
MK8/6	MK 8/6	2.2	3	70.0	-	-	67.5	66.0	63.0	58.0	50.0	40.0	30.0	18.0				
				86.0	-	-	82.0	78.0	74.0	68.0	58.0	46.5	35.0	20.0				

Q = Flow rate H = Total manometric head HS = Suction height

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

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS				
1	SUCTION BODY	Cast iron, complete with threaded suction port (flange for MK8 versions only) in compliance with ISO 228/1				
2	EXTERNAL SLEEVE	Stainless steel AISI 304				
3	DELIVERY BODY	Cast iron, complete with threaded suction port (flange for MK8 versions only) in compliance with ISO 228/1				
4	IMPELLERS AND DIFFUSERS	Noryl GFN2V				
5	DIAPHRAGMS	Stainless steel AISI 304 complete with anti-wear rings				
6	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104				
7	MECHANICAL SEAL	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
		<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		FN-15	Ø 15 mm	Graphite	Ceramic	NBR

8 BEARINGS

Pump	Model
MK 3/4-5-6-7	6303 ZZ - C3 / 6203 ZZ
MK 3/8	
MK 5/4-5-6-7-8	6304 ZZ / 6204 ZZ
MK 8/4-5-6	

9 CAPACITOR

Pump	Capacitance	
	(230 V or 240 V)	(110 V)
Single-phase		
MK _m 3/4	20 µF 450 VL	60 µF 300 VL
MK _m 3/5	20 µF 450 VL	60 µF 300 VL
MK _m 3/6	25 µF 450 VL	60 µF 300 VL
MK _m 3/7	25 µF 450 VL	60 µF 300 VL
MK _m 3/8	31.5 µF 450 VL	60 µF 250 VL
MK _m 5/4	25 µF 450 VL	60 µF 250 VL
MK _m 5/5	31.5 µF 450 VL	60 µF 250 VL
MK _m 5/6	45 µF 450 VL	80 µF 250 VL
MK _m 5/7	50 µF 450 VL	80 µF 250 VL
MK _m 5/8	50 µF 450 VL	80 µF 250 VL
MK _m 8/4	31.5 µF 450 VL	60 µF 250 VL
MK _m 8/5	45 µF 450 VL	80 µF 250 VL
MK _m 8/6	50 µF 450 VL	80 µF 250 VL

10 ELECTRIC MOTOR

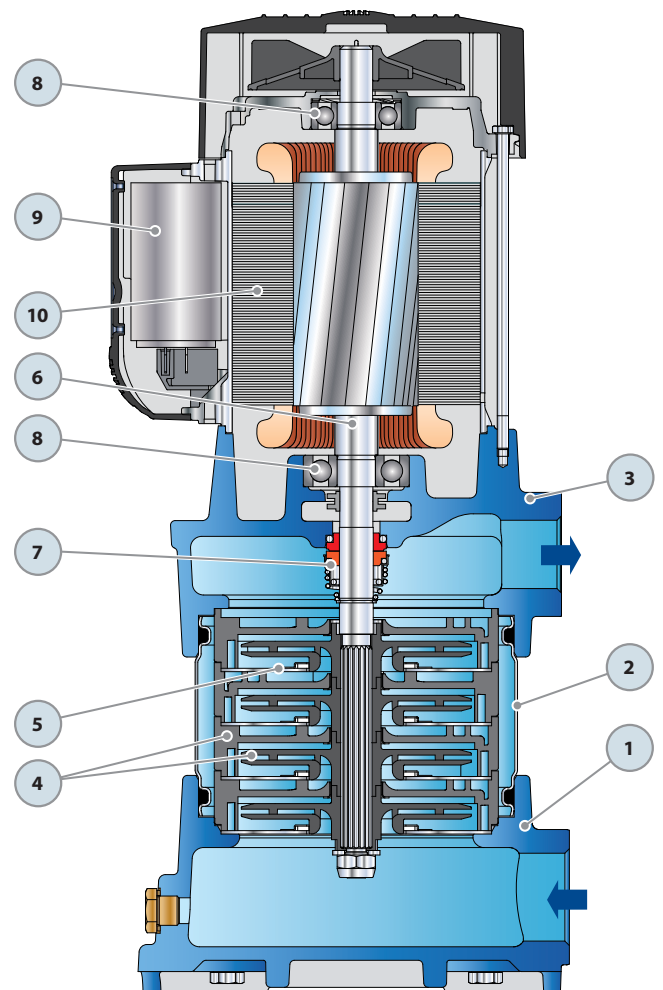
⇒ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance

MK_m: single-phase 230 V - 50 Hz
with thermal overload protector built-in to the winding.

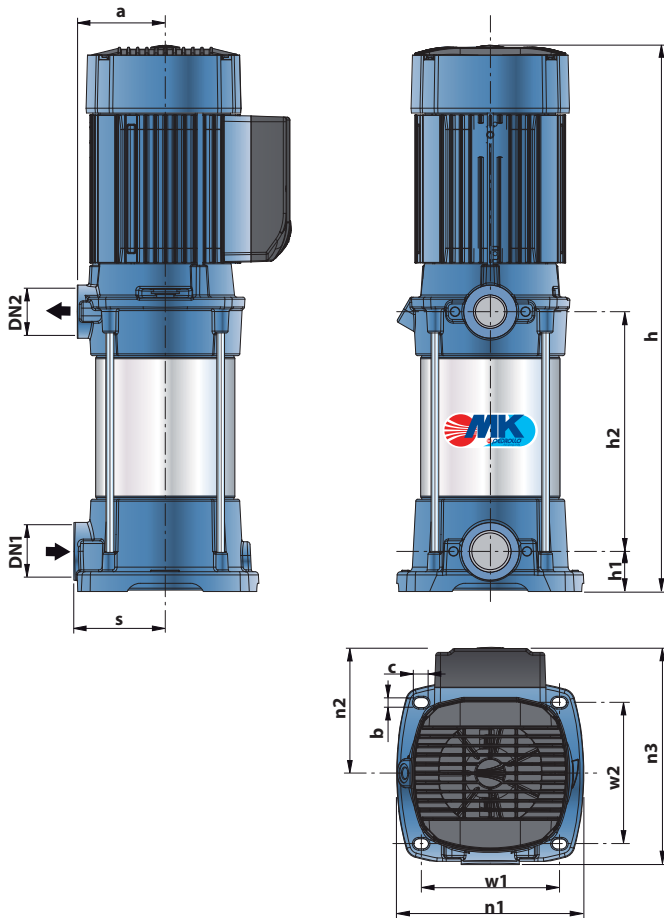
MK: three-phase 230/400 V - 50 Hz.

- Insulation: F class.

- Protection: IP 44.



DIMENSIONS AND WEIGHT



ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
MKm 3/4	5.0 A	4.8 A	10.0 A
MKm 3/5	6.0 A	5.8 A	12.0 A
MKm 3/6	6.5 A	6.3 A	13.0 A
MKm 3/7	7.0 A	6.8 A	14.0 A
MKm 3/8	9.0 A	8.7 A	18.0 A
MKm 5/4	6.5 A	6.3 A	13.0 A
MKm 5/5	8.5 A	8.2 A	17.0 A
MKm 5/6	9.5 A	9.1 A	19.0 A
MKm 5/7	10.5 A	10.2 A	21.0 A
MKm 5/8	11.5 A	11.0 A	23.0 A
MKm 8/4	8.5 A	8.2 A	17.0 A
MKm 8/5	9.5 A	9.1 A	19.0 A
MKm 8/6	11.5 A	11.0 A	23.0 A

MODEL	VOLTAGE (three-phase)					
	230 V	400 V	690 V	240 V	415 V	720 V
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
MKm 3/4	3.5 A	2.0 A	1.2 A	3.4 A	2.0 A	1.2 A
MKm 3/5	4.2 A	2.4 A	1.4 A	4.0 A	2.3 A	1.3 A
MKm 3/6	4.8 A	2.8 A	1.6 A	4.6 A	2.7 A	1.6 A
MKm 3/7	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
MKm 3/8	5.5 A	3.2 A	1.8 A	5.3 A	3.1 A	1.8 A
MKm 5/4	4.8 A	2.8 A	1.6 A	4.6 A	2.7 A	1.6 A
MKm 5/5	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
MKm 5/6	6.1 A	3.5 A	2.0 A	5.8 A	3.4 A	2.0 A
MKm 5/7	7.8 A	4.5 A	2.6 A	7.5 A	4.3 A	2.5 A
MKm 5/8	8.7 A	5.0 A	2.9 A	8.3 A	4.8 A	2.8 A
MKm 8/4	5.2 A	3.0 A	1.7 A	5.0 A	2.9 A	1.7 A
MKm 8/5	6.1 A	3.5 A	2.0 A	5.8 A	3.4 A	2.0 A
MKm 8/6	8.7 A	5.0 A	2.9 A	8.3 A	4.8 A	2.8 A

MODEL		PORTS		N° STAGES	DIMENSIONS mm										kg					
Single-phase	Three-phase	DN1	DN2		a	s	h	h1	h2	w1	w2	n1	n2	n3	b	c	1~	3~		
MKm 3/4	MKm 3/4	1 1/4"	1"	4	91	94.5	41.5	152	143	146	194	109.5	204	9.5	14.5			20.0	19.6	
MKm 3/5	MKm 3/5			5														176	20.8	20.3
MKm 3/6	MKm 3/6			6														220	21.1	21.6
MKm 3/7	MKm 3/7			7														224	21.8	22.3
MKm 3/8	MKm 3/8			8														248	26.6	25.6
MKm 5/4	MKm 5/4			4														152	22.3	21.6
MKm 5/5	MKm 5/5			5														176	24.3	23.4
MKm 5/6	MKm 5/6			6														200	25.8	25.0
MKm 5/7	MKm 5/7	7	224	27.3	26.6															
MKm 5/8	MKm 5/8	8	248	28.0	27.3															
MKm 8/4	MKm 8/4	2"	1 1/2"	4	114	162	41.5	152	143	146	194	109.5	204	9.5	14.5			23.6	22.7	
MKm 8/5	MKm 8/5			5														176	25.1	24.3
MKm 8/6	MKm 8/6			6														200	26.6	25.9

PALLETIZATION

MODEL		GROUPAGE / CONTAINER			
Single-phase	Three-phase	n° pumps	H (mm)	1~	3~
MKm 3/4	MKm 3/4	30	1400	620	610
MKm 3/5	MKm 3/5	30	1400	640	630
MKm 3/6	MKm 3/6	30	1400	650	670
MKm 3/7	MKm 3/7	30	1400	670	690
MKm 3/8	MKm 3/8	30	1500	820	790
MKm 5/4	MKm 5/4	30	1500	690	670
MKm 5/5	MKm 5/5	30	1500	750	720
MKm 5/6	MKm 5/6	30	1500	790	770
MKm 5/7	MKm 5/7	30	1500	840	820
MKm 5/8	MKm 5/8	30	1500	860	840
MKm 8/4	MKm 8/4	30	1500	729	699
MKm 8/5	MKm 8/5	30	1500	769	749
MKm 8/6	MKm 8/6	30	1500	818	798

