MK Vertical multi-stage centrifugal pumps



- Clean water
- Domestic use
- Civil use
- Agricultural use

PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **105 m**

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **11 bar**

INSTALLATION AND USE

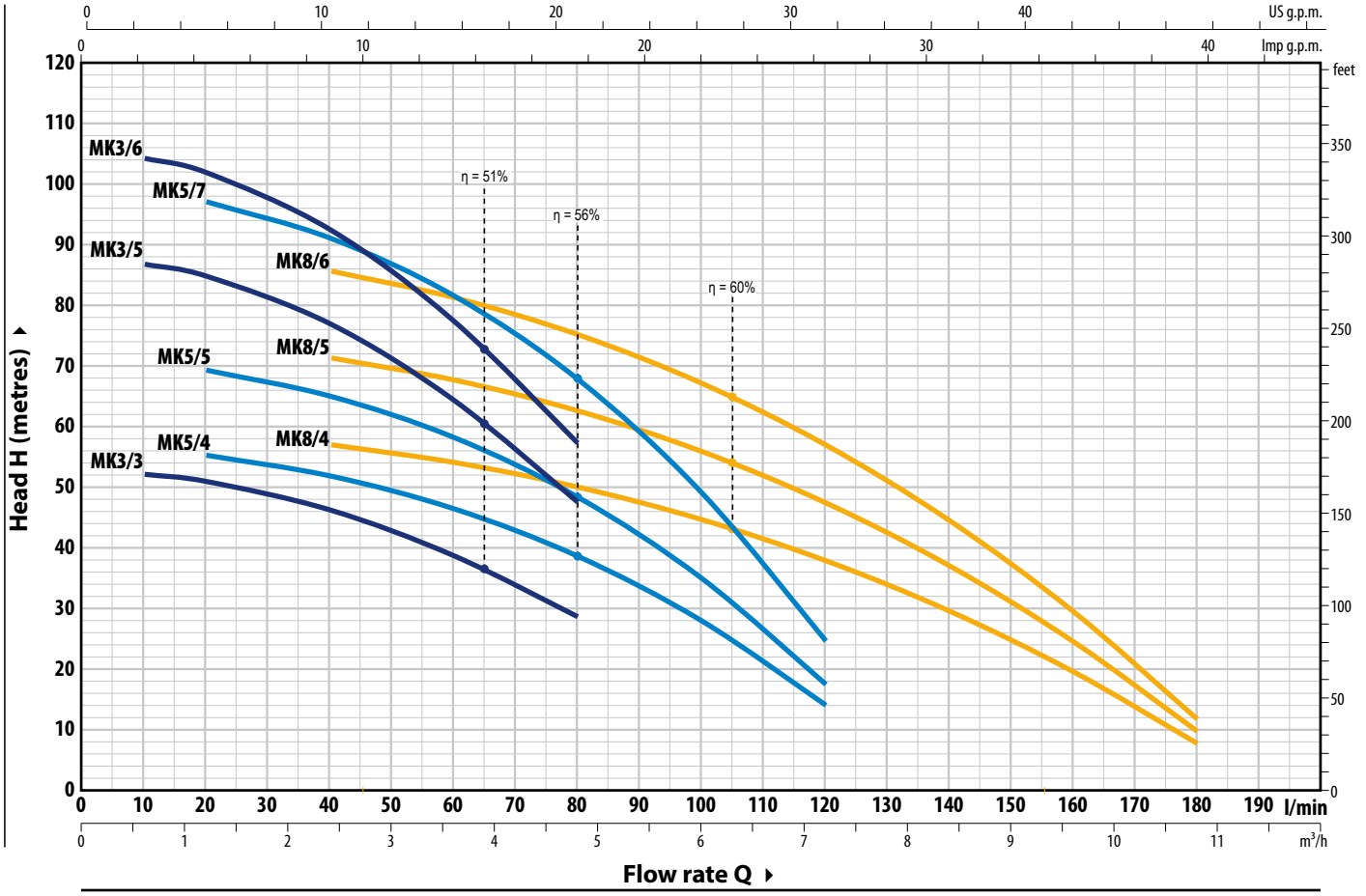
Compact and cost-effective vertical multistage centrifugal pumps suitable for water supply, clean liquids, and pressurization in domestic, civil, and agricultural systems, as well as irrigation.

AVAILABLE UPON REQUEST

※ Different voltage or frequency

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



MODEL		POWER (P2)			Q m³/h	0	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8
Single-ph.	**Three-ph.**	**kW**	**HP**	▲	Q l/min	**0**	**10**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**
MKm 3/3	**MK 3/3**	0.75	1			52.5	52	51	46.5	38.5	28.5					
MKm 3/5	**MK 3/5**	1.1	1.5	**IE3**		88	87	85	77	64.5	47.5					
MKm 3/6	**MK 3/6**	1.5	2			105	104	102	93	77	57.5					
MKm 5/4	**MK 5/4**	0.75	1			57.5	–	55.5	52	46.5	38.5	28	14			
MKm 5/5	**MK 5/5**	1.1	1.5	**IE3**	**H** m	72	–	69.5	65	58	48.5	35	17.5			
MKm 5/7	**MK 5/7**	1.5	2			100	–	97	91	81	67.5	49	24.5			
MKm 8/4	**MK 8/4**	1.1	1.5			60	–	–	57	54	50	44.5	38	29.5	19.6	8
MKm 8/5	**MK 8/5**	1.5	2	**IE3**		75	–	–	71	67.5	62.5	56	47.5	37	24.5	10
MKm 8/6	**MK 8/6**	2.2	3			90	–	–	86	81	75	67	57	44.5	29.5	11.5

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

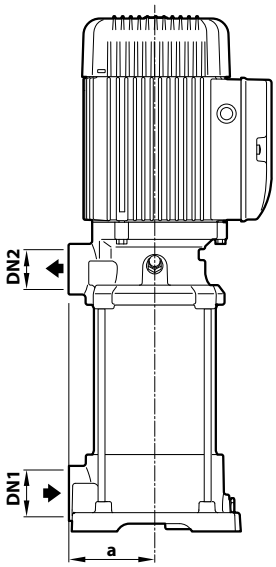
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

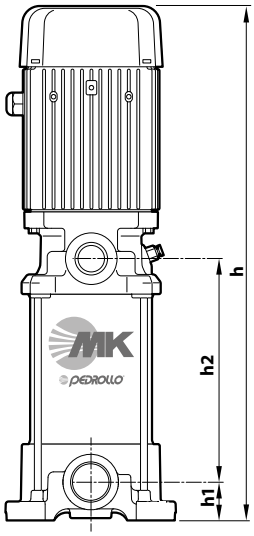
ABSORPTION

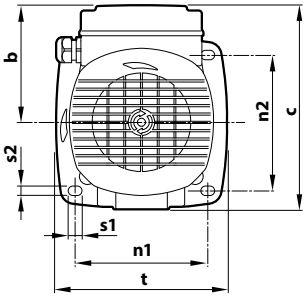
TYPE	VOLTAGE
Single-ph.	220 V
MKm 3/3	5.1 A
MKm 3/5	7.8 A
MKm 3/6	9.2 A
MKm 5/4	5.9 A
MKm 5/5	7.8 A
MKm 5/7	9.7 A
MKm 8/4	7.8 A
MKm 8/5	9.9 A
MKm 8/6	11.2 A

TYPE	VOLTAGE			
Three-ph.	220 V - Δ	380 V - Y	220 V - Δ	440 V - Y
MK 3/3	5.5 A	3.2 A	4.8 A	2.8 A
MK 3/5	4.7 A	2.7 A	4.0 A	2.3 A
MK 3/6	6.0 A	3.5 A	6.7 A	4.0 A
MK 5/4	5.7 A	3.3 A	5.0 A	2.9 A
MK 5/5	4.7 A	2.7 A	4.0 A	2.3 A
MK 5/7	6.5 A	3.8 A	5.7 A	3.3 A
MK 8/4	6.2 A	3.6 A	5.4 A	3.1 A
MK 8/5	6.5 A	3.8 A	5.7 A	3.3 A
MK 8/6	7.8 A	4.5 A	6.6 A	3.8 A

DIMENSIONS AND WEIGHT







TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	Three-ph.	DN1	DN2	a	h	h1	h2	n1	n2	t	b	c	s1	s2	1~	3~
MKm 3/3	MK 3/3	1¼"	1"	93	447	41.5	132.5	143	146	185	127	220	14.5	10	21.3	20.0
MKm 3/5	MK 3/5				501		186.5								22.2	22.2
MKm 3/6	MK 3/6				528		213.5								24.0	24.0
MKm 5/4	MK 5/4				474		159.5								21.8	20.5
MKm 5/5	MK 5/5				501		186.5								21.9	22.0
MKm 5/7	MK 5/7				555		240.5								24.6	24.2
MKm 8/4	MK 8/4				474		159.5								22.7	22.7
MKm 8/5	MK 8/5				501		186.5								23.4	23.0
MKm 8/6	MK 8/6				548		213.5								27.1	26.1

MATERIALS AND COMPONENTS

1	**Suction body**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded suction port
2	**External sleeve**	Stainless steel **AISI 304**
3	**Delivery port**	Cast iron with cataphoresis treatment, provided with ISO 228/1 threaded delivery port
4	**Impellers and diffusers**	Noryl™
5	**Diaphragms.**	**AISI 304** stainless steel complete with wear rings

6 Mechanical seal

Seal	Shaft	Materials
FN-18	Ø 18 mm	Graphite / Ceramic / NBR

7	**Motor shaft**	Stainless steel **AISI 431**

8 Electric motor

MKm: single-phase 220 V - 60 Hz with capacitor and winding integrated thermal motor protection

MK: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz

– The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)

– Continuous running duty **S1**

