

Pumps with Peripheral Impeller

 Clean Water

 Residential



PERFORMANCE RANGE

- Flow rate up to **23 GPM** (90 l/min) (5.4 m³/h)
- Head up to **328 feet** (100 m)

APPLICATION LIMITS

- Maximum Suction Lift up to **26 feet** (8 m)
- Liquid Temperature between **14°F** (-10 °C) and **140°F** (+60 °C)
- Ambient Temperature up to **104°F** (+40 °C) (**122°F** (+50 °C) for PK 60)
- Maximum Working Pressure:
 - **87 psi** (6 bar) for PK 60, PK 60-MD, PK 65,
 - **101 psi** (7 bar) for PK 70, PK 80
 - **145 psi** (10 bar) for PK 90, PK 100, PK 200, PK 300
- Continuous Duty Rating **S1**

CONSTRUCTION AND SAFETY STANDARDS

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

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



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

FEATURES AND BENEFITS

- Clean water that does not contain abrasive particles
- Liquids that are not chemically aggressive
- Easy to Use
- Low Energy Consumption

APPLICATIONS AND MARKETS

- Residential
- Irrigation
- Water Distribution
- Small Pressure Tanks
- Water Well Service
- Pressure Boosting Systems
- OEM Equipment

PATENTS - TRADE MARKS - MODELS

- Motor Bracket: Patent No. IT1243605
- Shaft: Patent No. 0000275945 (PK60, PK65)
- Pump Body: Patent No. 0000275946 (PK60, PK65)
- Registered EU Design No. 004673192
- PKm 60® Registered Trade Mark No. 009875394

OPTIONS AVAILABLE ON REQUEST

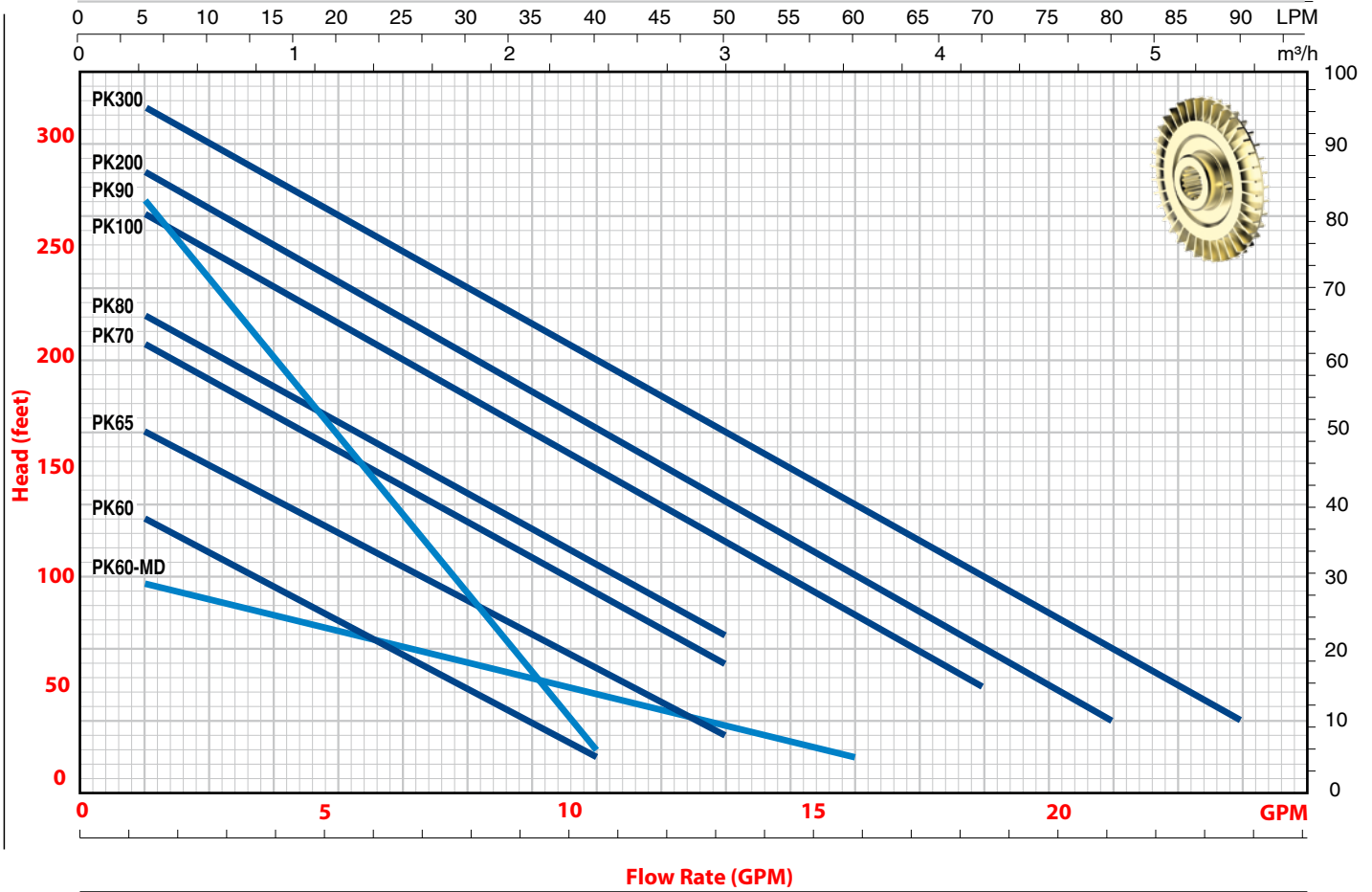
- Pump Body with GAS ANSI B 1.20.1 Threaded Ports
- Special Mechanical Seals
- Other Voltages Available
- IP X5 Class Protection for PQ 70/80/90/100/200/300

WARRANTY

2 YEARS subject to terms and conditions

PERFORMANCE CURVES AND DATA

60 Hz RPM = 3450



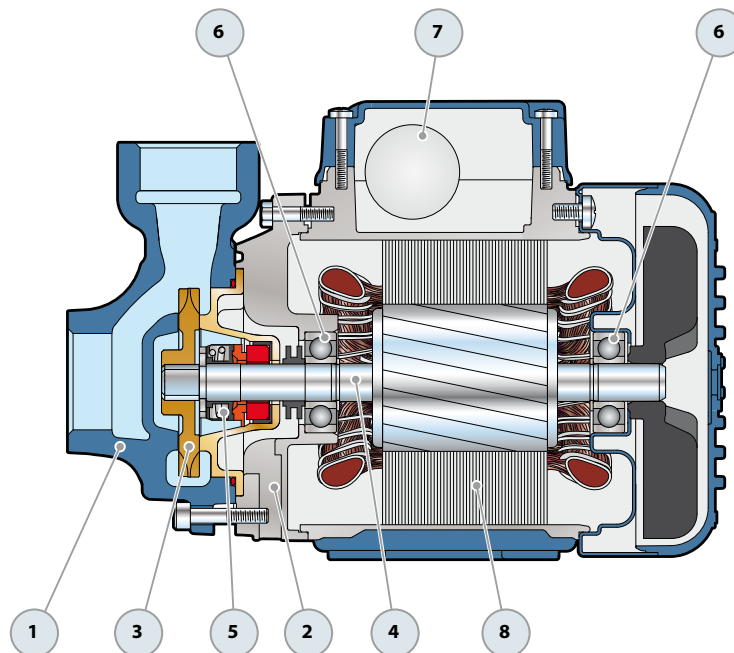
MODEL NUMBER		MOTOR SIZE			LPM	0	5	10	15	20	25	30	35	40	50	60	70	80	90
Single-phase	Three-phase	kW	HP	EFF	GPM	0	1.3	2.6	3.9	5.2	6.6	7.9	9.2	10.6	13.2	15.8	18.5	21.1	23.8
PKm 60	PK 60	0.37	0.50	IE2	HEAD (feet)	131	124	109	95	78	63	49	32	16	-	-	-	-	-
PKm 60-MD	PK 60-MD	0.37	0.50			98	95	85	80	73	67	59	52	44	31	16	-	-	-
PKm 65	PK 65	0.55	0.75	180		164	149	132	118	101	88	72	55	26	-	-	-	-	-
PKm 70	PK 70	0.60	0.85	213		203	187	170	154	137	121	104	88	59	-	-	-	-	-
PKm 80	PK 80	0.75	1.00	229		216	200	183	167	150	134	119	101	72	-	-	-	-	-
PKm 90	PK 90	0.75	1.00	IE3		295	269	232	196	160	124	88	55	16	-	-	-	-	-
PKm 100	PK 100	1.10	1.50			278	262	246	229	213	196	180	164	147	114	82	49	-	-
PKm 200	PK 200	1.50	2.00			295	282	265	249	232	214	196	180	164	131	98	65	32	-
PKm 300	PK 300	2.20	3.00			328	311	295	278	262	246	229	213	196	164	131	98	65	10

EFF = Three-phase motor efficiency class (IEC 60034-30-1)

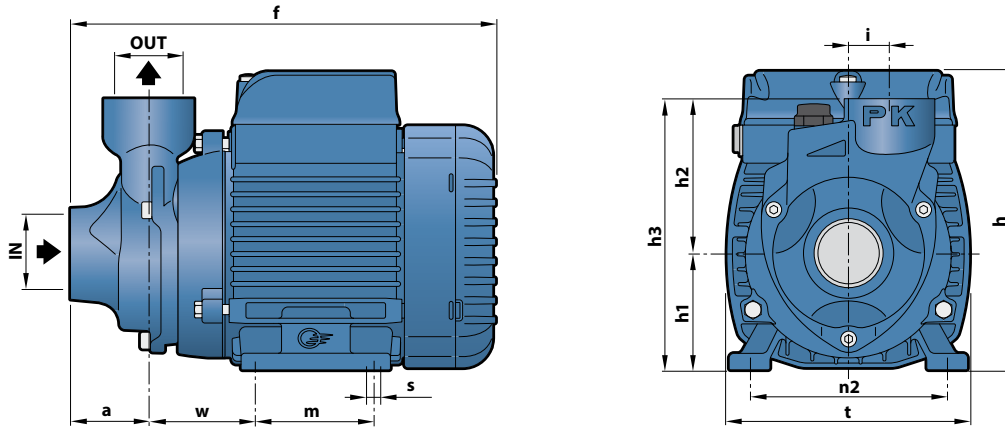
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1 PUMP BODY	Cast iron, with threaded ports in compliance with ISO 228/1 (PK 60, PK 60-MD with an Epoxy Electro Coating treatment)					
2 MOTOR BRACKET	Aluminium with brass insert (patented), reduces the risk of impeller seizure					
3 IMPELLER	Brass with peripheral radial vanes					
4 MOTOR SHAFT	Stainless steel AISI 431 (EN 10088-3 - 1.4104 for PK 60, PK 60-MD, PK 65)					
5 MECHANICAL SEAL	<i>Pump Model</i>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
	PK 60-65-70-80 PK 60-MD	AR-12	Ø 0.4 in	Ceramic	Graphite	NBR
	PK 90	ST1-12	Ø 0.4 in	Silicon carbide	Graphite	NBR
	PK 100-200-300	FN-14	Ø 0.5 in	Graphite	Ceramic	NBR
6 BEARINGS	<i>Pump Model</i>	<i>Model</i>				
	PK 60-65 PK 60-MD	6201 ZZ / 6201 ZZ				
	PK 70-80-90	6203 ZZ / 6203 ZZ				
	PK 100-200-300	6204 ZZ / 6204 ZZ				
7 CAPACITOR	EN 60252-1/A1					
8 ELECTRIC MOTOR	<p>PKm: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding. PK: three-phase 220/380 V - 60 Hz or 230/460 V - 60 Hz.</p> <p>➔ The three-phase pumps are fitted with high performance motors up to P₂=0.55 kW in class IE2 and from P₂=0.60 kW in class IE3 (IEC 60034-30-1)</p> <ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 					



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS (inches)											Lbs		
Single-phase	Three-phase	IN	OUT	a	f	h	h1	h2	h3	i	m	t	n2	w	s	1-PH	3-PH
PKm 60°	PK 60°	1"	1"	1.4	8.1	5.7	2.2	2.9	5.1	0.7	2.1	4.6	3.7-3.9	2	0.2	11.4	11.4
PKm 60°-MD	PK 60°-MD				9.3	6	2.4		3.1		4.7	3.9	12.3			12.3	
PKm 65	PK 65				5.4	2.0	13.8										
PKm 70	PK 70			3.3	6.1	22.0											
PKm 80	PK 80			3.5	5.5	4.4	2.4	21.8	22.0								
PKm 90	PK 90	¾"	¾"	1.8	10.9	7 *	2.7	3.3	6.1	0.7	3.5	5.5	4.4	2.4	0.3	22.4	22.2
PKm 100	PK 100	1"	1"	2.4	14	8.3	3.1	3.4	6.6	0.7	3.9	5.9	4.9	3.7	0.3	33.0	32.8
PKm 200	PK 200				14.8											35.0	35.0
PKm 300	PK 300				41.0											41.0	

(*) h=199 mm for single-phase versions at 110 V

ABSORPTION

MODEL	VOLTAGE		
	230 V	110 V	127 V
Single-phase	230 V	110 V	127 V
PKm 60°	2.6 A	5.5 A	5.3 A
PKm 60°-MD	3.3 A	6.5 A	6.0 A
PKm 65	5.8 A	11.5 A	10.0 A
PKm 70	5.2 A	10.8 A	9.0 A
PKm 80	6.5 A	13.0 A	12.0 A
PKm 90	6.0 A	12.0 A	10.4 A
PKm 100	9.0 A	18.0 A	15.6 A
PKm 200	12.0 A	24.0 A	20.8 A
PKm 300	12.5 A	-	-

MODEL	TENSIONE			
	230 V	380 V	230 V	460 V
Trifase	230 V	380 V	230 V	460 V
PK 60°	2.0 A	1.15 A	2.1 A	1.2 A
PK 60°-MD	2.4 A	1.4 A	2.5 A	1.4 A
PK 65	3.2 A	1.85 A	3.5 A	2.0 A
PK 70	3.8 A	2.2 A	3.8 A	2.2 A
PK 80	3.8 A	2.2 A	4.3 A	2.4 A
PK 90	4.2 A	2.4 A	4.2 A	2.4 A
PK 100	6.2 A	3.6 A	6.2 A	3.15 A
PK 200	9.2 A	5.3 A	7.0 A	4.2 A
PK 300	10.0 A	5.8 A	8.2 A	4.8 A