



PERFORMANCE RANGE

- Flow rate up to **45 l/min** (2.7 m³/h)
- Head up to **90 m**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C** (+45 °C for PQA 60)
- Max. working pressure **10 bar**
- Continuous service **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 BY DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT AND SAFETY



A130



IPOMTECT-168

INSTALLATION AND USE

Suitable for use with clean water that does not contain abrasive particles and liquids that are not chemically aggressive towards the materials from which the pump is made.

The RYTON and brass pump body construction guarantees against the formation of rust and oxidation. As a result of these characteristics these pumps are suitable for use in industrial applications such as cooling, conditioning and boiler feed.

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

PATENTS - TRADE MARKS - MODELS

- Motor bracket: patented n° IT1243605

OPTIONALS AVAILABLE ON REQUEST

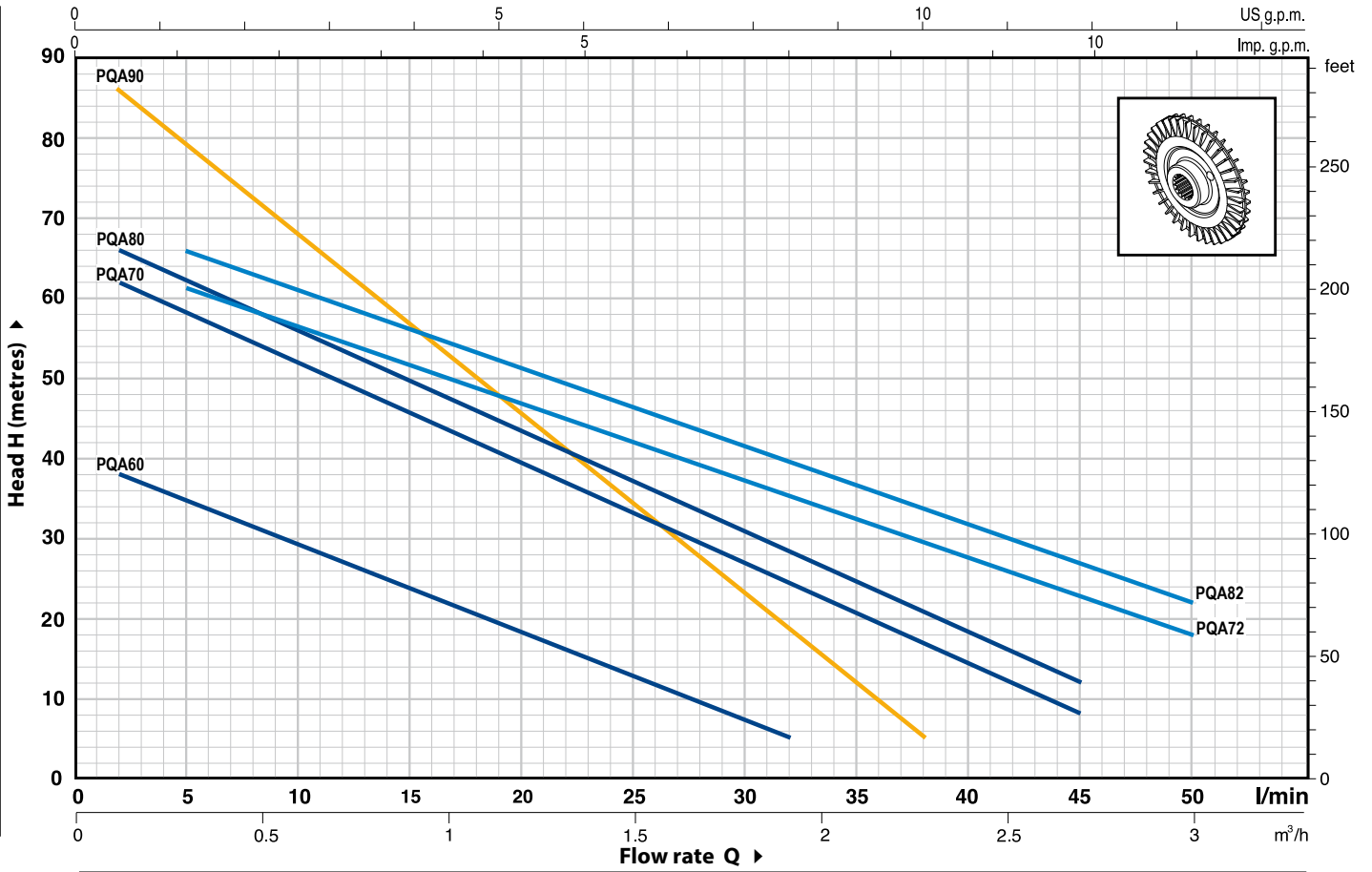
- Special mechanical seal
- EN 10088-3 - 1.4401 (AISI 316) stainless steel motor shaft
- Other voltages or 60 Hz frequency
- IP X5 class protection for PQA 70-72-80-82-90

GUARANTEE

1 year subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

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

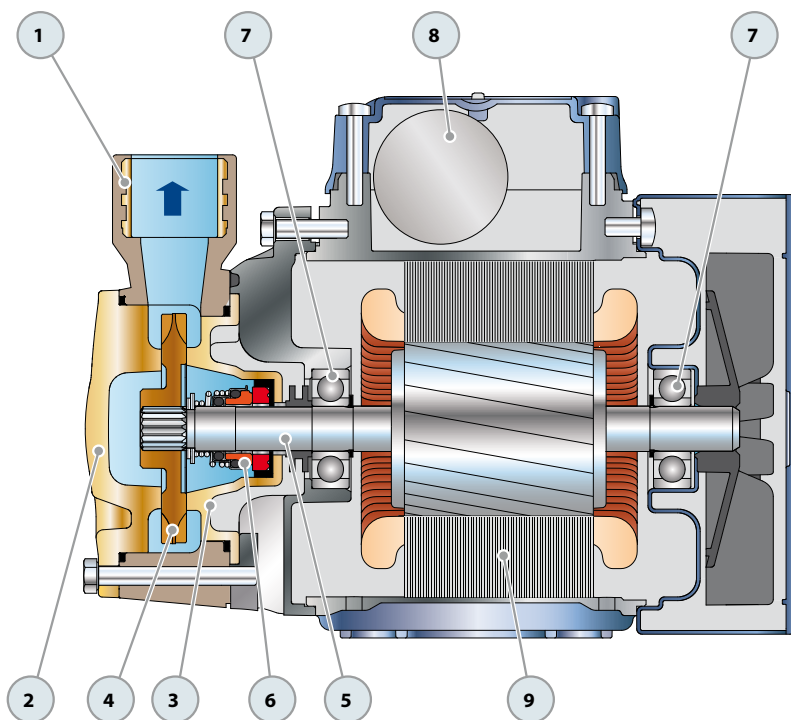


MODEL		POWER		Q	H metres														
Single-phase	Three-phase	kW	HP		m³/h	0	0.1	0.3	0.6	0.9	1.2	1.5	1.8	1.9	2.3	2.7	3.0		
				l/min	0	2	5	10	15	20	25	30	32	38	45	50			
PQAm 60	PQA 60	0.37	0.50	H metres	40	38	35	29	23.5	18	12.5	7	5						
PQAm 70	PQA 70	0.55	0.75		65	62	58	52	45.5	39.5	33	27	24	16.5	8				
PQAm 72	PQA 72	0.55	0.75		65	-	62	57	52	47	42	37.5	35.5	29.5	22.5	18			
PQAm 80	PQA 80	0.75	1		70	66	62	56	49.5	43	37	31	28	20.5	12				
PQAm 82	PQA 82	0.75	1		70	-	66	61	56	51	46	41.5	39.5	34	26.5	22			
PQAm 90	PQA 90	0.75	1		90	86	79	68	56.5	45.5	34	23	18.5	5					

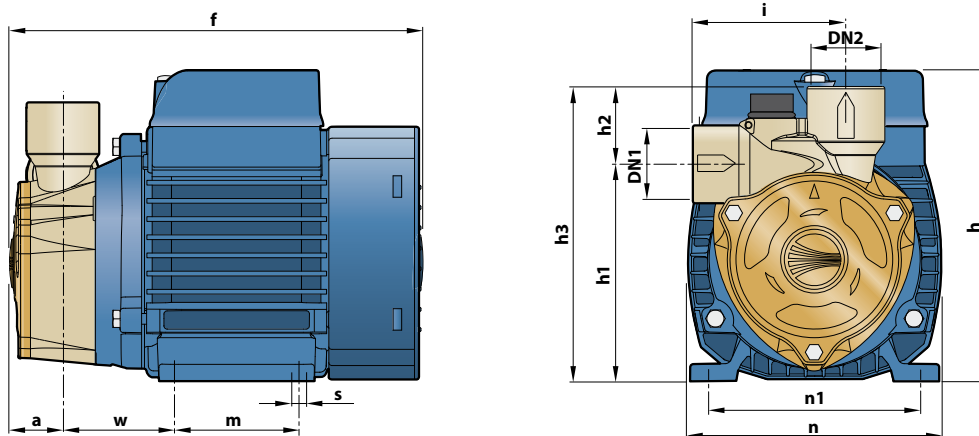
Q = Flow rate H = Total manometric head HS = Suction height

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

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	RYTON, complete with threaded metallic port inserts in compliance with ISO 228/1				
2	BODY PLATE	Brass				
3	MOTOR BRACKET	Aluminium with brass insert (patented), reduces the risk of impeller seizure				
4	IMPELLER	Brass, with peripheral radial vanes				
5	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104				
6	MECHANICAL SEAL	Seal	Shaft	Materials		
		<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		MG1-12	Ø 12 mm	Silicon carbide	Graphite	NBR
7	BEARINGS	Pump	Model			
		PQA 60	6201 ZZ / 6201 ZZ			
		PQA 70-72-80-82-90	6203 ZZ / 6203 ZZ			
8	CAPACITOR	Pump	Capacitance			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		PQAm 60	10 µF 450 VL	25 µF 250 VL		
		PQAm 70-72	16 µF 450 VL	60 µF 250 VL		
		PQAm 80-82	20 µF 450 VL	60 µF 250 VL		
		PQAm 90	20 µF 450 VL	60 µF 250 VL		
9	ELECTRIC MOTOR	<p>PQAm: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.</p> <p>PQA: three-phase 230/400 V - 50 Hz.</p> <p>➔ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance</p> <ul style="list-style-type: none"> - Insulation: F class. - Protection: IP X4. 				



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm												kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	i	m	n	n1	w	s	1~	3~
PQAm 60	PQA 60	½"	½"	25	192	145	96	33	129	72.5	55	118	93-100	53	7	4.7	4.7
PQAm 70	PQA 70						116.5	32.5	149							9.4	8.4
PQAm 72	PQA 72	1"	1"	28	258	179	121	30	151	83	90	138	112	62	7	9.5	8.5
PQAm 80	PQA 80	½"	½"				116.5	32.5	149	72.5						9.4	8.4
PQAm 82	PQA 82	1"	1"	28	258	179	121	30	151	83	90	138	112	62	7	9.5	8.5
PQAm 90	PQA 90	½"	½"					35	156	76						9.5	8.5

ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
PQAm 60	2.5 A	2.4 A	5.2 A
PQAm 70	6.2 A	5.5 A	10.8 A
PQAm 72	6.2 A	5.5 A	10.8 A
PQAm 80	6.3 A	5.5 A	10.8 A
PQAm 82	6.3 A	5.5 A	10.8 A
PQAm 90	5.6 A	5.1 A	11.5 A

MODEL	VOLTAGE (three-phase)			
	230 V	400 V	240 V	415 V
Three-phase	230 V	400 V	240 V	415 V
PQA 60	2.0 A	1.15 A	1.9 A	1.1 A
PQA 70	4.2 A	2.4 A	3.7 A	2.2 A
PQA 72	4.2 A	2.4 A	3.7 A	2.2 A
PQA 80	4.2 A	2.4 A	3.7 A	2.2 A
PQA 82	4.2 A	2.4 A	3.7 A	2.2 A
PQA 90	4.2 A	2.4 A	3.8 A	2.2 A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
Single-phase	Three-phase	n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
				1~	3~			1~	3~
PQAm 60	PQA 60	238	1240	1143	1143	306	1563	1462	1462
PQAm 70	PQA 70	102	1280	983	881	170	2040	1622	1452
PQAm 72	PQA 72	120	1310	1160	1040	180	1900	1730	1550
PQAm 80	PQA 80	102	1280	983	881	170	2040	1622	1452
PQAm 82	PQA 82	120	1310	1160	1040	180	1900	1730	1550
PQAm 90	PQA 90	102	1280	993	891	170	2040	1639	1469

