PQ-PRO

INDUSTRIAL USE

Pumps with peripheral impeller





PERFORMANCE RANGE

- Flow rate up to **15 l/min** (0.9 m³/h)
- Head up to 80 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
- 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 DNV ISO 9001: QUALITY



CE

INSTALLATION AND USE

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

The hydraulic characteristics of these pumps, coupled with their compactness, makes them suitable for use in industrial applications. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

• Motor bracket: patent n. IT1243605

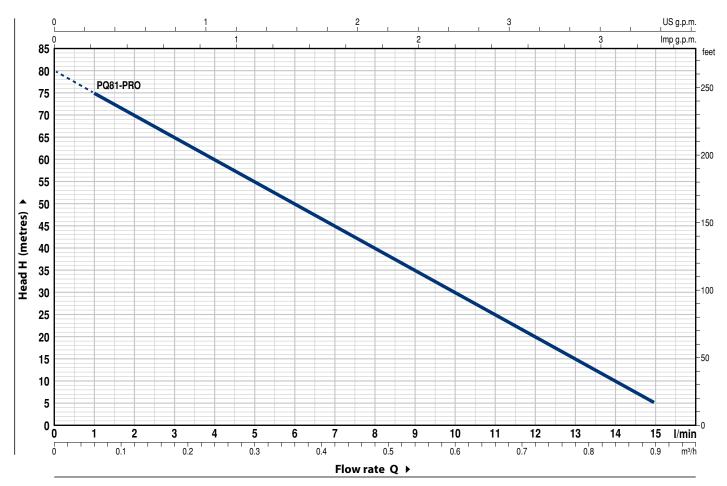
OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- EN 10088-3 1.4401 (AISI 316) stainless steel pump shaft
- Other voltages or 60 Hz frequency



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹ HS= 0 m



мо	DEL	POV	NER (P	2)	m ³ /h	0	0.06	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66	0.72	0.78	0.84	0.90
Single-phase	Three-phase	kW	HP		l/min	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PQm 81-PRO	PQ 81-PRO	0.45	0.60	IE3	H metres	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5

 $\label{eq:q} \mathbf{Q} = \mathsf{Flow} \; \mathsf{rate} \; \; \mathbf{H} = \mathsf{Total} \; \mathsf{manometric} \; \mathsf{head} \; \; \mathbf{HS} = \mathsf{Suction} \; \mathsf{height}$

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

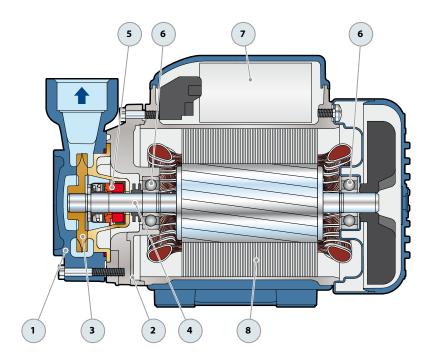
▲ Three-phase motor efficiency class (IEC 60034-30-1)

PQ-PRO

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

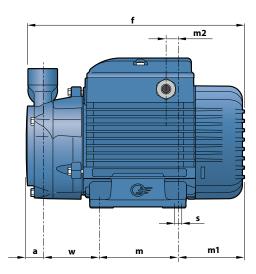
1	PUMP BODY	Cast iron v	Cast iron with an anti-block treatment and threaded ports in compliance with ISO 228/1										
2	MOTOR BRACKET	Aluminiun	n with brass i	nsert (patented), redu	ces the risk of imp	eller seizure							
3	IMPELLER	Brass with	peripheral ra	idial vanes									
4	MOTOR SHAFT	Stainless s	teel AISI 431										
5	MECHANICAL SEAL	Seal	Shaft		Materials								
		Model	Diameter	Stationary ring	Rotational ring	Elastomer							
		ST1-12	Ø 12 mm	Silicon carbide	Graphite	NBR							
6	BEARINGS	6201 ZZ /	6201 ZZ										
7	CAPACITOR	Capacitar	nce										
		(230 V or 240) V)	(110 V)									
		12.5 μF - 4	150 VL	25 μF - 250 VL									
8	ELECTRIC MOTOR			e 230 V - 50 Hz with th 2 230/400 V - 50 Hz.	nermal overload p	rotector incorporatec	l into the winding.						
		-	mp is fitted v	with a high performa	ance motor in cla	ss IE3 (IEC 60034-30	-1)						

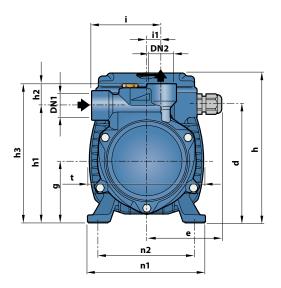
- Insulation: class F
- Protection: IP X4





DIMENSIONS AND WEIGHT





MODEL PORTS			DIMENSIONS mm												kg									
Single-phase	Three-phase	DN1	DN2	а	d	e	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~
PQm 81-PRO	PQ 81-PRO	1⁄2"	1⁄2"	19	120.5	77	224	63	153	119	22	141	71	15	80	69	11.5	120	100	117	55	7	6.9	6.2

ABSORPTION

MODEL	VOLI	TAGE	MODEL	VOLTAGE					
Single-phase	230 V	110 V	Three-phase	230 V	400 V				
PQm 81-PRO	2.7 A	5.4 A	PQ 81-PRO	1.8 A	1.0 A				