Pumps with peripheral impeller



Clean water



Industrial use



PERFORMANCE RANGE

- Flow rate up to **17 l/min** (1.02 m³/h)
- Head up to 80.5 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 60034-1 EN 60335-1 IEC 60335-1 IEC 60034-1 **CEI 61-150 CEI 2-3**

CERTIFICATIONS

Company with management system certified DNV ISO 9001: QUALITÀ







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 pump, 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

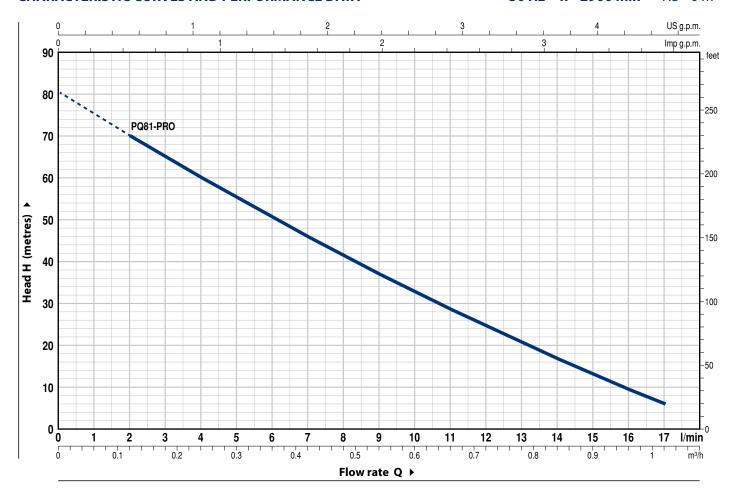
OPTIONS AVAILABLE ON REQUEST

- 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



MC	DDEL	PO	VER (P	2)	0 m³/h	0	0.12	0.18	0.3	0.42	0.54	0.66	0.78	0.9	1.02
Single-phase	Three-phase	kW	HP	•	l/min	0	2	3	5	7	9	11	13	15	17
PQm 81-PRO	PQ 81-PRO	0.45	0.60	IE3	H metres	80.5	70	65	55	46	37	28.5	20.6	13.1	6

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

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

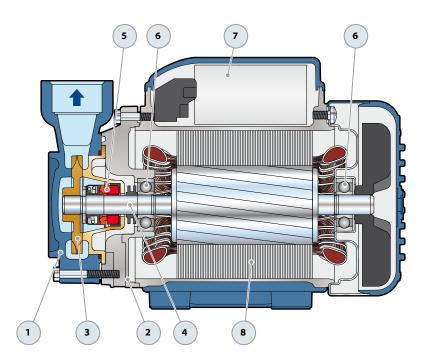
▲ Three-phase motor efficiency class (IEC 60034-30-1)

PQ 81-PRO

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS								
1	PUMP BODY	Cast iron w	Cast iron with an anti-block treatment and threaded ports in compliance with ISO 228/1							
2	MOTOR BRACKET	Aluminium	Aluminium with brass insert (patented), reduces the risk of impeller seizure							
3	IMPELLER	Brass with	Brass with peripheral radial vanes							
4	MOTOR SHAFT	Stainless st	teel AISI 431							
5	MECHANICAL SEAL	Seal Model ST1-12	Shaft Diameter Ø 12 mm	Stationary ring Silicon carbide	Materials Rotational ring Graphite	Elastomer NBR				
			Ø 12 mm	Silicon carbiac	Стартис	Non				
6	BEARINGS	6201 ZZ /	6201 ZZ							
7	CAPACITOR	EN 60252-	-1/A1 🜘 🧸	<u>₩</u>						
8	ELECTRIC MOTOR	PQm-PRO	: single-phase	230 V - 50 Hz with th	iermal overload p	rotector incorporated into the wi	nding.			

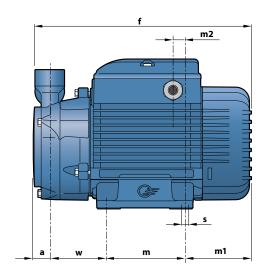
- PQ-PRO: three-phase 230/400 V 50 Hz.

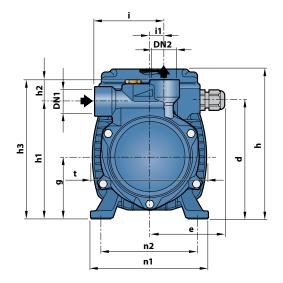
 → The pump is fitted with a high performance motor in class IE3 (IEC 60034-30-1)
- Insulation: class F
- Protection: IP X4





DIMENSIONS AND WEIGHT





MODEL PORTS				DIMENSIONS mm											kg									
Single-phase	Three-phase	DN1	DN2	a	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	VOLTAGE							
Single-phase	230 V	110 V						
PQm 81-PRO	2.7 A	5.4 A						

MODEL	VOLTAGE								
Three-phase	230 V	400 V							
PQ 81-PRO	1.8 A	1.0 A							

CAPACITORS

MODEL	CAPACITANCE								
Single-phase	230 V or 240 V	110 V							
PQm 81-PRO	12.5 μF - 450 VL	25 μF - 250 VL							