PQ-EKO

INDUSTRIAL USE

Pump with peripheral impeller

Clean water

Industrial use

PERFORMANCE RANGE

- Flow rate up to **32 l/min** (1.92 m^3/h)
- Head up to **38 m**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+50 °C**
- Max. working pressure **6 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

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY

EAC

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

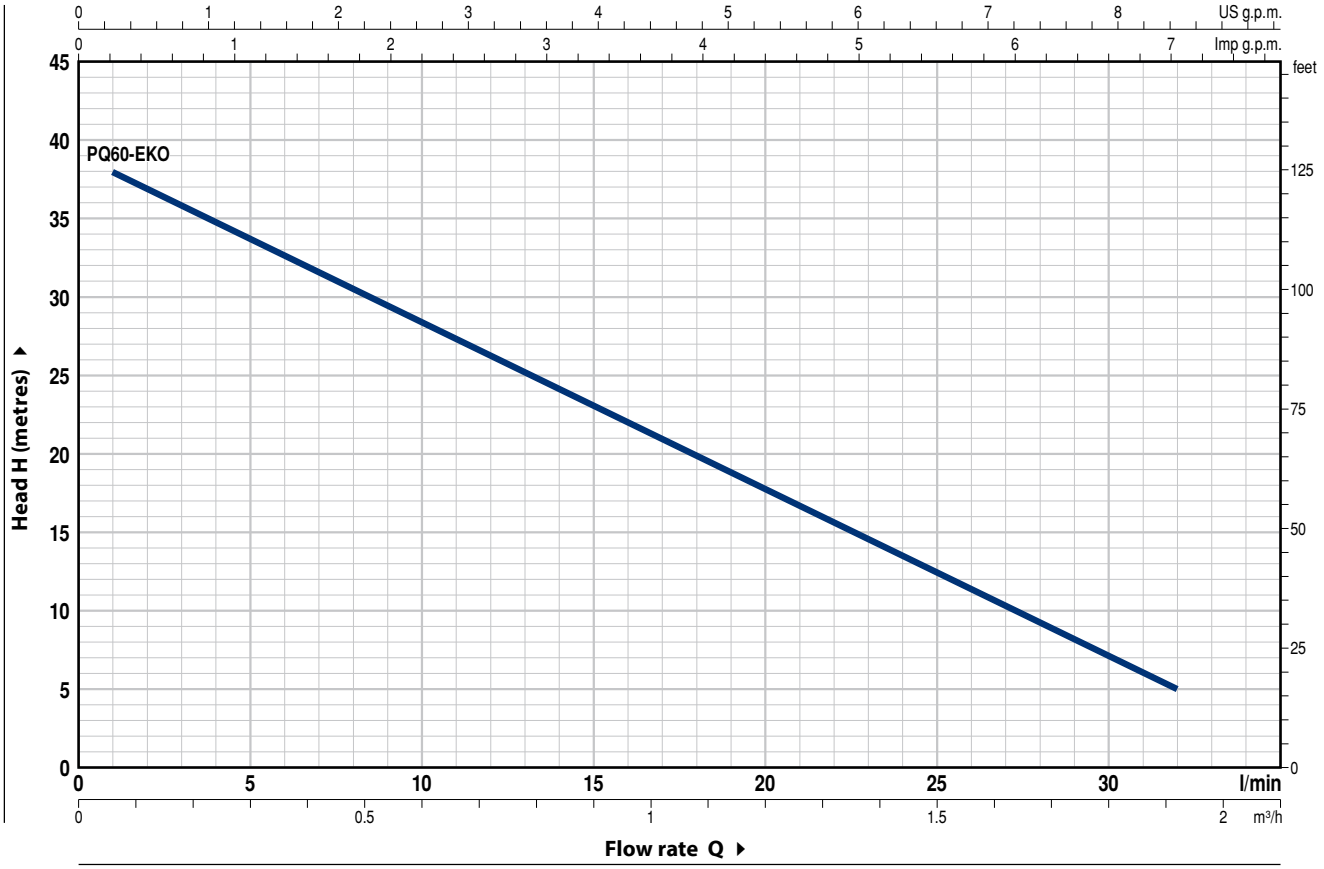
- Motor bracket: patent n IT1243605
- Shaft: patent n. 0000275945
- Registered EU Design n. 002146548

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



MODEL		POWER (P2)			Q	m³/h	0	0.06	0.3	0.6	0.9	1.2	1.5	1.8	1.92
Single-phase	**Three-phase**	**kW**	**HP**	**▲**		l/min	**0**	**1**	**5**	**10**	**15**	**20**	**25**	**30**	**32**
PQm 60-EKO	**PQ 60-EKO**	0.37	0.50	**IE3**	**H**	metres	39	38	33.5	28.5	23	18	12.5	7	5

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

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

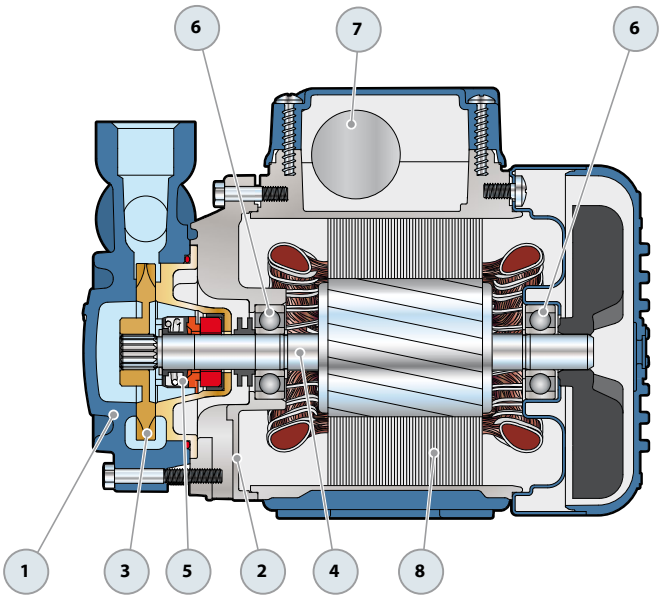
▲ Three-phase motor efficiency class (IEC 60034-30-1)

PQ-EKO

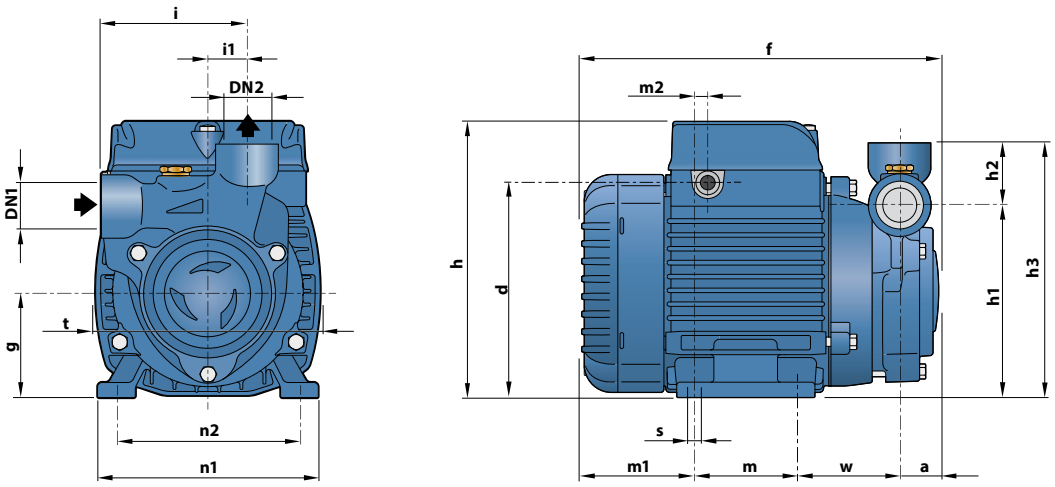
POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron with threaded ports in compliance with ISO 228/1
2	**MOTOR BRACKET**	Aluminium with brass insert (patented), reduces the risk of impeller seizure
3	**IMPELLER**	Brass with peripheral radial vanes
4	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104
5	**MECHANICAL SEAL**	

Seal	***Shaft***		*Materials*	
Model	***Diameter***	*Stationary ring*	*Rotational ring*	*Elastomer*
AR-12	**Ø 12** mm	Ceramic	Graphite	NBR

6	**BEARINGS**	**6201 ZZ / 6201 ZZ**	
7	**CAPACITOR**	***Capacitance***	
		(230 V or 240 V)	***(110 V)***
		10 µF - 450 VL	**25** µF - 450 VL
8	**ELECTRIC MOTOR**	**PQm-EKO**: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. **PQ-EKO**: 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	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~
PQm 60-EKO	**PQ 60-EKO**	**½"**	**½"**	21	112	191	56	145	101	32.5	133.5	75.5	20	55	62	8	116	94/100	118	53	7	**4.8**	**4.8**

ABSORPTION

MODEL	VOLTAGE	
Single-phase	230 V	110 V
PQm 60-EKO	**2.3** A	**5.0** A

MODEL	VOLTAGE	
Three-phase	230 V	400 V
PQ 60-EKO	**2.0** A	**1.15** A