

PQA

peripheral pumps for industrial uses
(pump components free from ferrous materials)



PQA 70



PERFORMANCE RANGE

Flow rate up to 50 l/min (3 m³/h)
Dynamic head up to 70 m

OPERATING LIMITS

Suction lift up to 8 m
Fluid temperature up to + 60°C
Maximum ambient temperature + 40°C

CONSTRUCTION AND SAFETY STANDARDS:

EN 60034-1
IEC 34-1
CEI 2-3

PUMP INSTALLATION AND APPLICATIONS

These pumps are suitable for pumping clean water not containing abrasive particles and fluids which are not chemically aggressive to the pump components.

THE HYDRAULIC PERFORMANCE OF THIS STURDY AND COMPACT PUMPS ALSO MAKES THEM IDEALLY SUITED FOR INDUSTRIAL APPLICATIONS, COOLING, CONDITIONING, IRONING PLANTS, BOILERS, ETC.

This pump should be installed in a covered area, protected against weather.

WARRANTY: 2 YEARS

(according to our general sales conditions).

STRUCTURAL CHARACTERISTICS

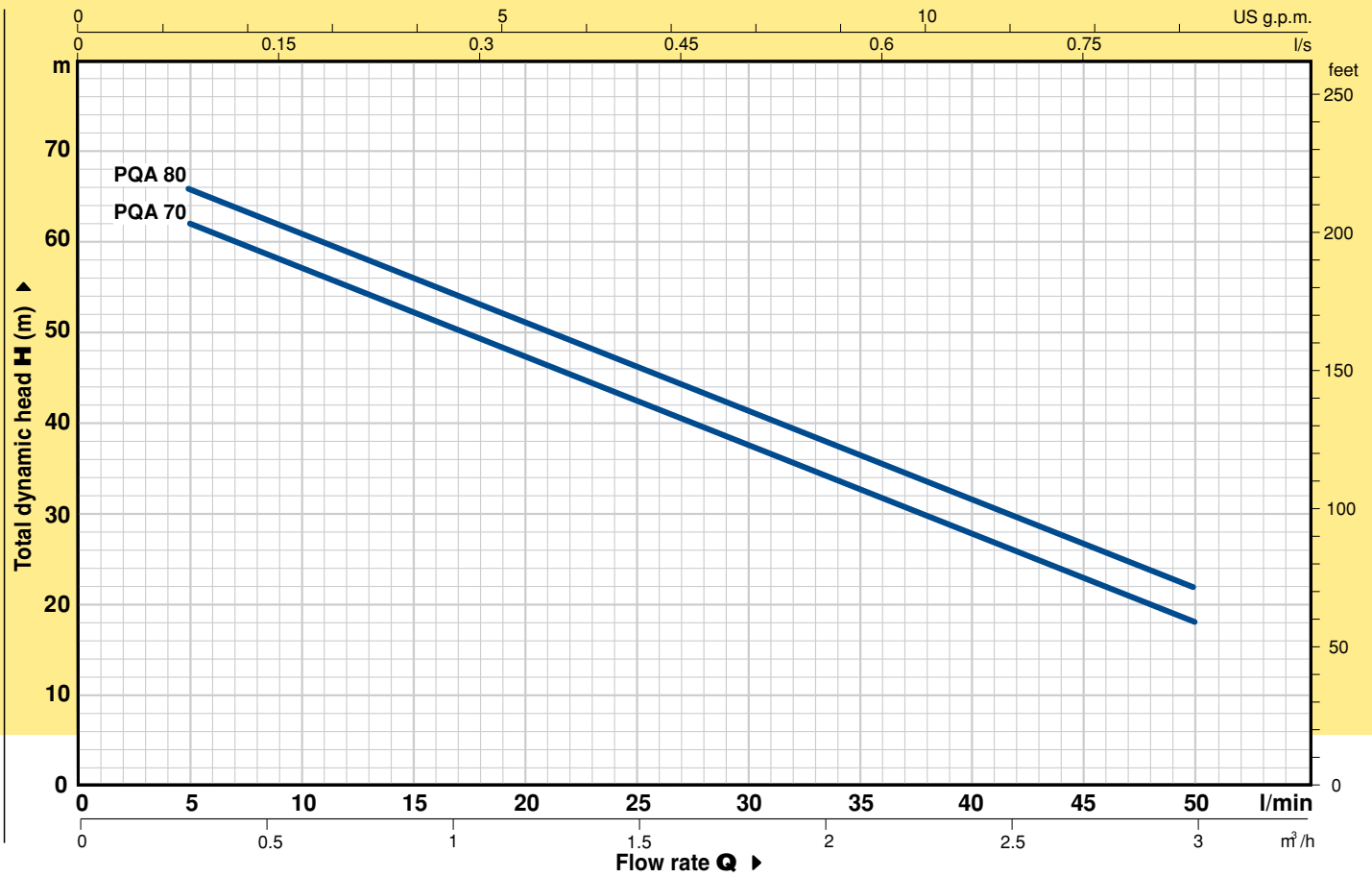
- **PUMP BODY:**
technopolymer, with UNI ISO 228/1 gas threaded suction and delivery openings.
- **PUMP BODY COVER:**
brass.
- **MOTOR BRACKET patented n° 1289150:**
aluminium with front brass insert; reducing difficulties when starting the pump after long periods without use, due to the impeller blocking.
- **IMPELLER:**
brass.
- **MOTOR SHAFT:**
AISI 430F stainless steel.
- **MECHANICAL SEAL:**
ceramic and graphite.
- **MOTOR:**
the pumps are coupled to an asynchronous, high efficiency PEDROLLO induction motor of suitable size, which is quiet, closed and externally ventilated, with an «IM B3» structural shape, suitable for continuous duty. **INSULATION class B.**
The thermal cutout relay (motor protector) is incorporated in single phase motors.
Three phase motors require an adequate external motor protector, with connections according to current standards.
- **PROTECTION:**
IP 44 .
- **REGISTERED MODEL**

SPECIAL FEATURES ON REQUEST:

- ⇒ AISI 316 stainless steel motor shaft
- ⇒ EPDM, VITON (or other on request) mechanical seal
- ⇒ IP 55 protection
- ⇒ insulation class F
- ⇒ other voltages
- ⇒ 60 Hz frequency
- ⇒ for higher temperature pumped liquids
- ⇒ for use in areas with a higher temperature



PERFORMANCE CHART AT n= 2900 1/min

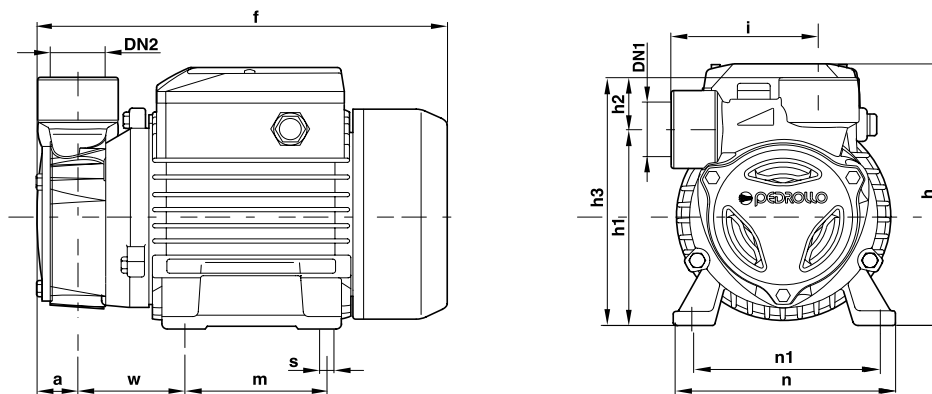


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q m³/h l/min	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
Single phase	Three phase	kW	HP		0	5	10	15	20	25	30	35	40	45	50
PQAm 70	PQA 70	0.60	0.85	H (m)	65	62	57	52	47	42	37	32	27	23	18
PQAm 80	PQA 80	0.75	1		70	66	61	56	51	46	41	36.5	31	27	22

Q = FLOW RATE H = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DN1	DN2	DIMENSIONS mm											
Single phase	Three phase			a	f	h	h1	h2	h3	i	m	n	n1	w	s
PQAm 70	PQA 70	1"	1"	22	255	179	121	30	151	83	90	138	112	62	7
PQAm 80	PQA 80	1"	1"	22	255	179	121	30	151	83	90	138	112	62	7