



INSTALLATION AND USE

The **PQA** electric pumps are designed to transfer clean water free from abrasive particles and non-corrosive liquids that do not harm the pump's components. Made from PPS with a brass impeller front cover, ensuring protection against rust and oxidation, they are suited for various industrial applications, such as cooling, air conditioning, and ironing systems.

APPLICATION LIMITS

- Manometric suction head up to **8 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C** (+50 °C for PQA 60)
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

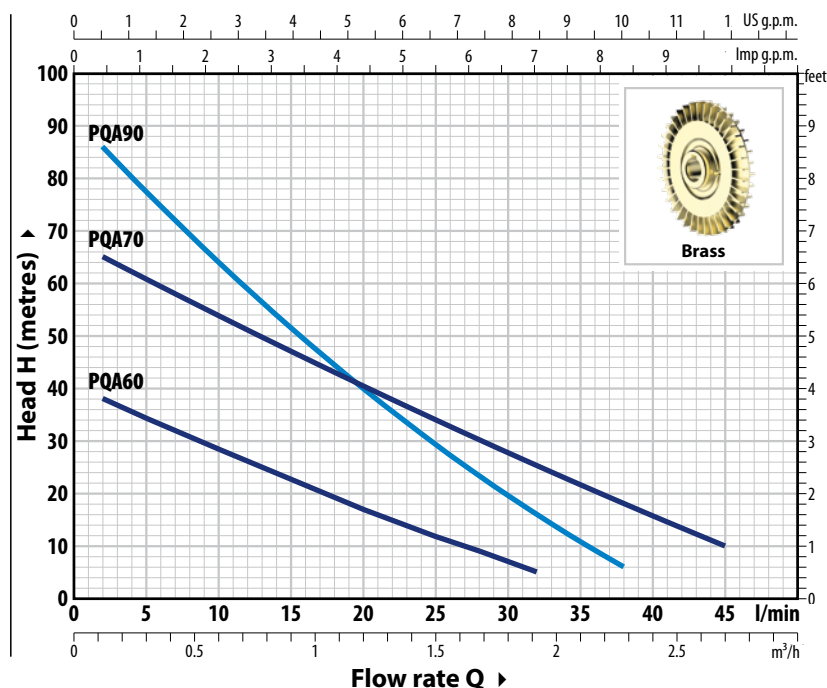
- ✗ Mechanical seal options available
- ✗ Shaft in AISI 316 stainless steel - EN 10088-3 - 1.4401
- ✗ Protection rating IP X5 for PQA 70-90
- ✗ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Motor bracket: Patent No. IT1243605
- Shaft: Patent No. 0000275945 (PQA 50)

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



ABSORPTION

TYPE	VOLTAGE	
Single-ph.	230 V	
PQAm 60	2.3 A	
PQAm 70	6.2 A	
PQAm 90	5.6 A	

TYPE	VOLTAGE	
Three-ph.	230 V - Δ	400 V - 人
PQA 60	2.0 A	1.15 A
PQA 70	4.2 A	2.4 A
PQA 90	4.2 A	2.4 A

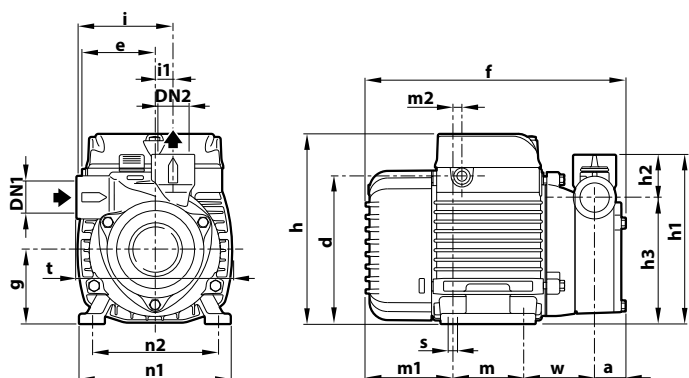
TYPE		POWER (P ₂)		1~3~	Q	m³/h																
Single-phase	Three-phase	kW	HP			0	0.12	0.3	0.6	0.9	1.2	1.5	1.68	1.8	1.92	2.28	2.46	2.7				
PQAm 60	PQA 60	0.30	0.40			40.5	38	34	28	22.5	17	11.8	8.8	6.9	5							
PQAm 70	PQA 70	0.55	0.75	IE2	IE3	68	65	61	54	47	40.5	34	30	27.5	25.3	18.1	14.6	10				
PQAm 90	PQA 90	0.75	1			92	86	78	64	51.5	40	29.5	23.4	19.6	16	6						

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

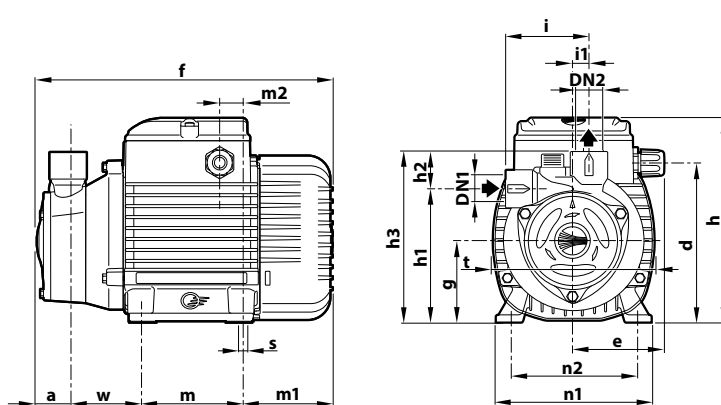
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS AND WEIGHT

PQA 60



PQA 70, PQA 90



TYPE		PORTS		DIMENSIONS mm																			kg	
Single-ph.	Three-ph.	DN1	DN2	a	d	e	f	g	h	h1	h2	h3	i	i1	m	m1	m2	n1	n2	t	w	s	1~	3~
PQAm 60	PQA 60	½"	½"	23	112	55.5	196	56	145	96	33	129	72.5	13.5	55	65	8	116	97	117	53	7	4.6	4.6
PQAm 70	PQA 70			28	139	79	261	71	179	116.5	32.5	149			90	80.5	22	134	112	142	62.5		9.6	9.6
PQAm 90	PQA 90			26.5			260			121	35	156									76		16	62

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	Three-ph.	
PQAm 60	PQA 60	238
PQAm 70	PQA 70	102
PQAm 90	PQA 90	102

CONSTRUCTION FEATURES

1 Pump body	PPS, with ISO 228/1 threaded metal inserted in ports
2 Cover	Brass
3 Motor bracket	Aluminium with brass cover with front anti-locking shim function (patented)
4 Impeller	Brass, radial peripheral vane type
5 Mechanical seal	Type Materials
	ST1-12 Silicon carbide / Graphite / NBR
6 Motor shaft	Stainless steel AISI 431
7 Electric motor	PQAm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection. PQA: three-phase 230/400 V - 50 Hz

※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
class **IE2** for single-phase models
class **IE3** for three-phase models

- Continuous running duty **S1**
- Insulation: class F
- Protection rating: IP X4

