



Clean water



Industrial use



PERFORMANCE RANGE

- Flow rate up to **45 l/min** (2.7 m³/h)
- Head up to **92 m**

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

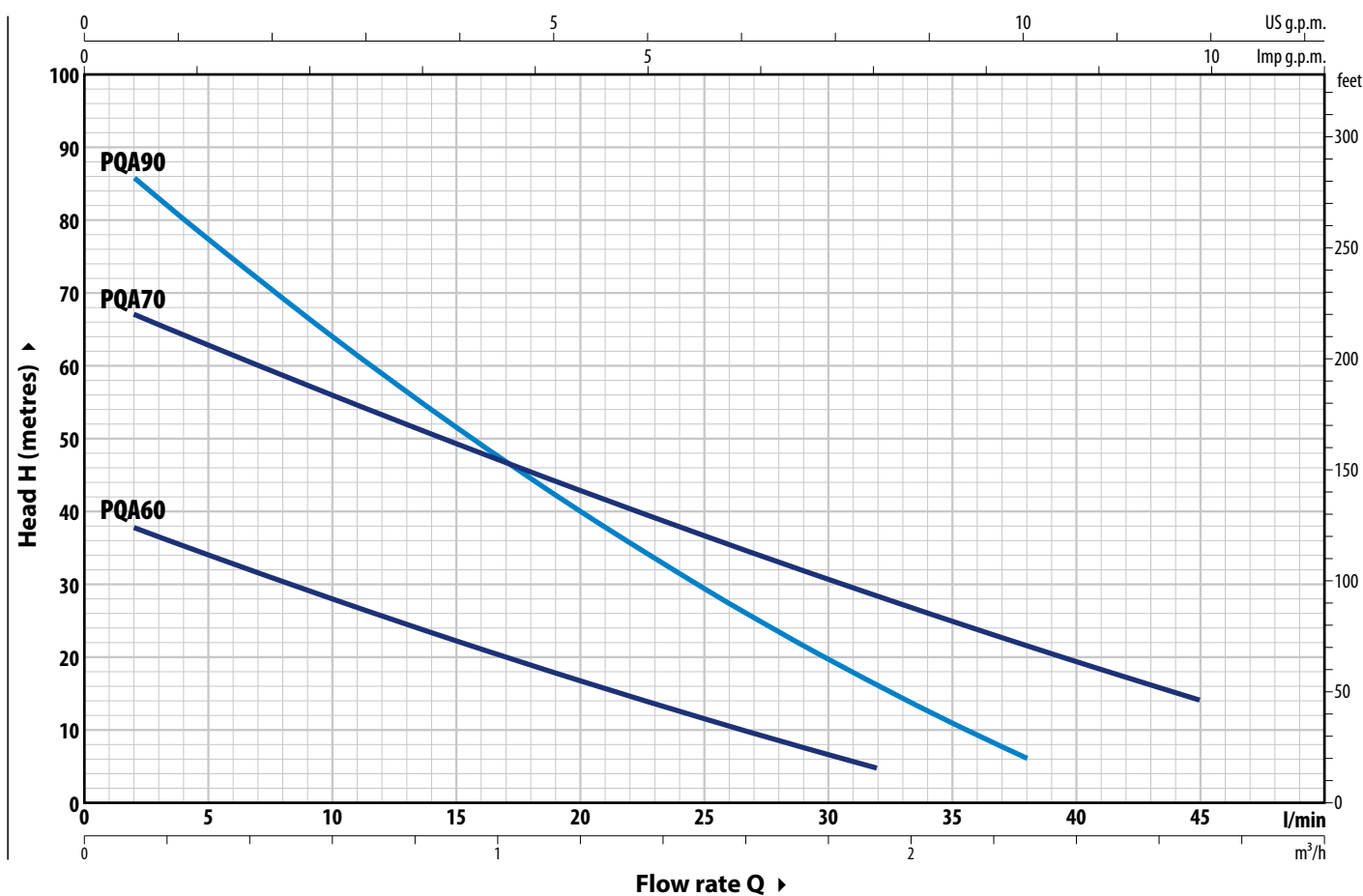
- ✘ Mechanical seal options available
- ✘ Shaft in AISI 316 stainless steel - EN 10088-3 - 1.4401
- ✘ Protection rating IPX5 for PQA 70-90
- ✘ Different voltage or frequency

PATENTS - TRADE MARKS - MODELS

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

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P ₂)		3~	Q	m³/h															
Single-phase	Three-phase	kW	HP			l/min	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		
						0	2	5	10	15	20	25	28	30	32	38	41	45			
PQAm 60	PQA 60	0.37	0.55	IE3	H m	40.5	38	34	28	22.5	17	11.8	8.8	6.9	5						
PQAm 70	PQA 70	0.55	0.75			70	67	63	56	49	43	36.5	33	30.5	28.5	21.5	18.2	14			
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.

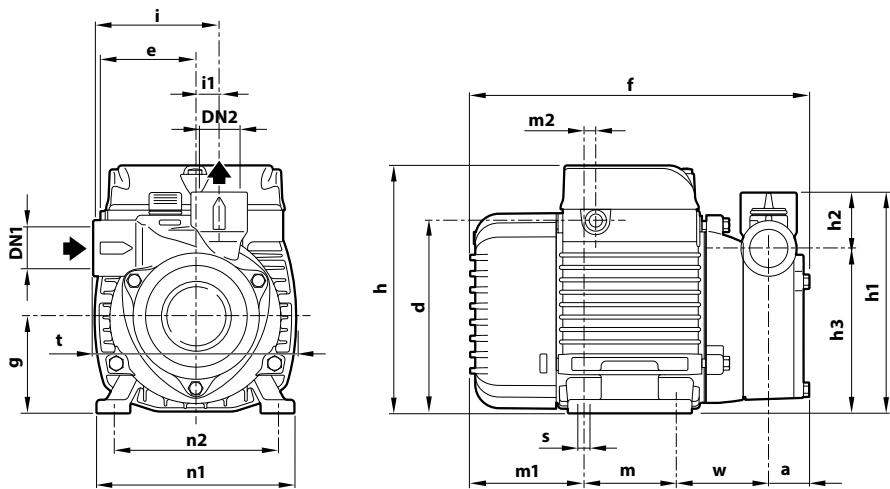
ABSORPTION

TYPE	VOLTAGE	
	220 V	110 V
PQAm 60	2.6 A	6.0 A
PQAm 70	6.5 A	13.0 A
PQAm 90	5.6 A	11.2 A

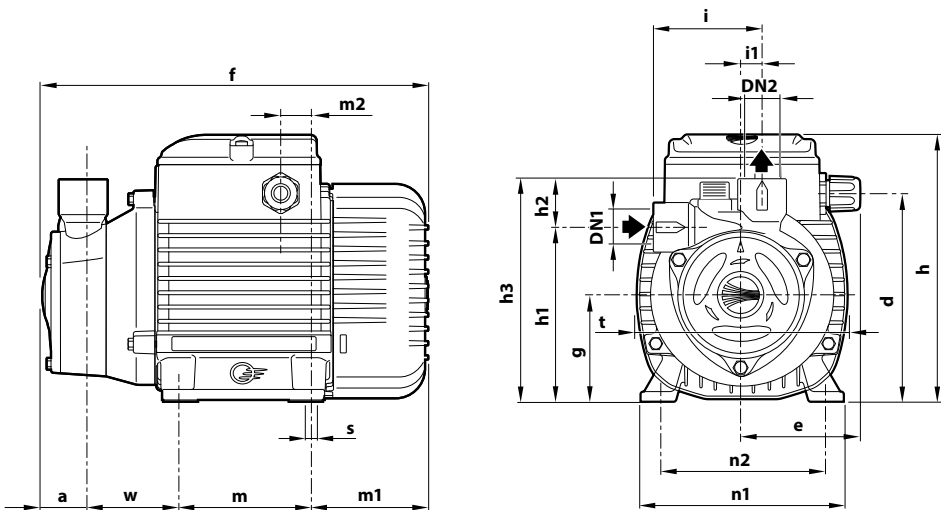
TYPE	VOLTAGE			
	220 V - Δ	380 V - Δ	220 V - Δ	440 V - Δ
PQA 60	2.0 A	1.15 A	2.0 A	1.1 A
PQA 70	3.4 A	1.95 A	3.5 A	2.0 A
PQA 90	4.2 A	2.4 A	3.7 A	2.2 A

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		GROUPAGE	CONTAINER
Single-ph.	Three-ph.	n. pumps	n. pumps
PQAm 60	PQA 60	238	306
PQAm 70	PQA 70	102	170
PQAm 90	PQA 90	102	170

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 220 V - 60 Hz with winding integrated thermal motor protection. PQA: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz – The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1) – Continuous running duty S1 – Insulation: class F – Protection rating: IPX4	

