

## PERFORMANCE RANGE

- Flow rate up to **90 l/min** (5.4 m<sup>3</sup>/h)
- Head up to **100 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:
  - **6.5 bar** for IQ 05-07
  - **10 bar** for IQ 800-1000-701-1000H-1500-2000-3000
- Continuous service **S1**

## CONSTRUCTION AND SAFETY STANDARDS

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



## INSTALLATION AND USE

Suitable for use with clean water that does not contain abrasive particles and 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 both domestic and industrial applications.

The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

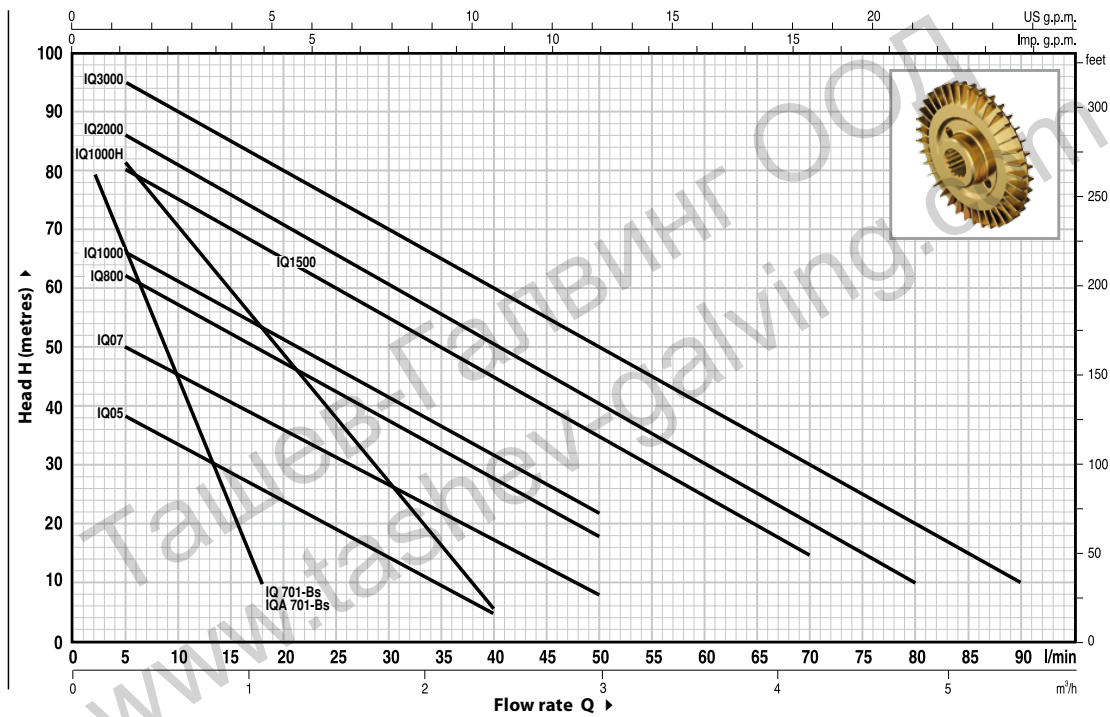
## OPTIONALS AVAILABLE ON REQUEST

- Special mechanical seal
- EN 10088-3 - 1.4401 (AISI 316) stainless steel motor shaft
- Other voltages or 60 Hz frequency
- IP55 class protection

## GUARANTEE

2 years subject to terms and conditions

## CHARACTERISTIC CURVES AND PERFORMANCE DATA | 50 Hz | n= 2900 1/min | HS= 0 m



MODEL		POWER		Q	Flow rate														
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4
IQ 05M	IQ 05	0.37	0.50	H metres	0	5	10	15	20	25	30	35	40	50	60	70	80	90	
IQ 07M	IQ 07	0.50	0.70		40	38	33.5	29	24	19.5	15	10	5						
IQ 800M	IQ 800	0.60	0.85		55	50	45.5	40.5	36	31	27	22	17	8					
IQ 1000M	IQ 1000	0.75	1		65	62	57	52	47	42	37	32	27	18					
IQ 1000HM	IQ 1000H	0.75	1		70	66	61	56	51	46	41	36.5	31	22					
IQ 1500M	IQ 1500	1.1	1.5		80	82	71	60	49	38	27	17	5						
IQ 2000M	IQ 2000	1.5	2		85	80	75	70	65	60	55	50	45	35	25	15			
–	IQ 3000	2.2	3		90	86	81	76	71	65.5	60	55	50	40	30	20	10		
					100	95	90	85	80	75	70	65	60	50	40	30	20	10	

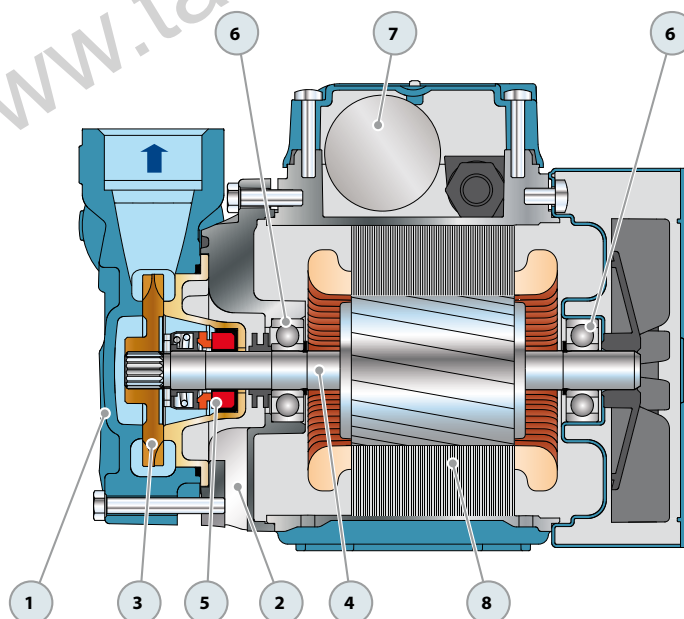
MODEL		POWER		Q	Flow rate									
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96
IQ 701M	IQ 701	0.50	0.70	H metres	0	2	4	6	8	10	12	14	16	18
IQA 701M-Bs	IQA 701-Bs	0.50	0.70		90	80	71	63	54	45	37	28	19	10
					90	80	71	63	54	45	37	28	19	10

⇒ IQA 701 Bs= version with brass pump body

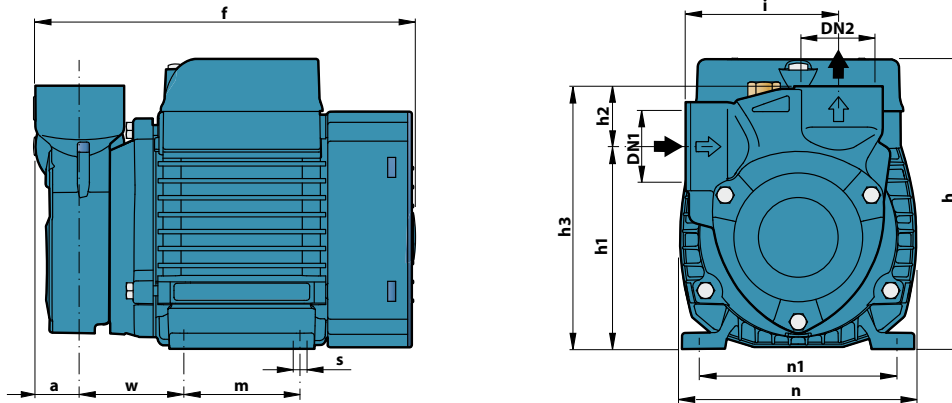
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS					
1	<b>PUMP BODY</b>	Cast iron (brass for IQA 701-Bs), complete with threaded ports in compliance with ISO 228/1					
2	<b>MOTOR BRACKET</b>	Aluminium with brass insert (patented), reduces the risk of impeller seizure					
3	<b>IMPELLER</b>	Brass, with peripheral radial vanes					
4	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104					
5	<b>MECHANICAL SEAL</b>	<b>Pump</b>	<b>Seal</b>	<b>Shaft</b>	<b>Materials</b>		
		<i>Model</i>	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		<b>IQ 05-07</b>	<b>AR-12</b>	<b>Ø 12 mm</b>	Ceramic	Graphite	NBR
		<b>IQ 800-1000-701-1000H IQA 701Bs</b>	<b>MG1-12</b>	<b>Ø 12 mm</b>	Silicon carbide	Graphite	NBR
		<b>IQ 1500-2000-3000</b>	<b>FN-14</b>	<b>Ø 14 mm</b>	Graphite	Ceramic	NBR
6	<b>BEARINGS</b>	<b>Pump</b>	<b>Model</b>				
		<b>IQ 05-07-701 IQA 701Bs</b>	<b>6201 ZZ / 6201 ZZ</b>				
		<b>IQ 800-1000-1000H</b>	<b>6203 ZZ / 6203 ZZ</b>				
		<b>IQ 1500-2000-3000</b>	<b>6204 ZZ / 6204 ZZ</b>				
7	<b>CAPACITOR</b>	<b>Pump</b>	<b>Capacitance</b>				
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>		<i>(110 V)</i>		
		<b>IQ 05M</b>	<b>10 µF 450 VL</b>	<b>25 µF 250 VL</b>			
		<b>IQ 07M</b>	<b>14 µF 450 VL</b>	<b>30 µF 250 VL</b>			
		<b>IQ 800M</b>	<b>16 µF 450 VL</b>	<b>60 µF 300 VL</b>			
		<b>IQ 1000M</b>	<b>20 µF 450 VL</b>	<b>60 µF 300 VL</b>			
		<b>IQ 701M - IQA 701M-Bs</b>	<b>14 µF 450 VL</b>	<b>30 µF 250 VL</b>			
		<b>IQ 1000HM</b>	<b>20 µF 450 VL</b>	<b>60 µF 300 VL</b>			
		<b>IQ 1500M</b>	<b>31.5 µF 450 VL</b>	<b>60 µF 250 VL</b>			
		<b>IQ 2000M</b>	<b>45 µF 450 VL</b>	<b>80 µF 250 VL</b>			
8	<b>ELECTRIC MOTOR</b>	<b>IQ M:</b> single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.					
		<b>IQ:</b> three-phase 230/400 V - 50 Hz.					
		- Insulation: F class. - Protection: IPX4.					



## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm												kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	i	m	n	n1	w	s	1~	3~
IQ 05M	IQ 05	1"	1"	23	190	145	101	30	131	76	55	118	96	53	7	5.2	5.2
IQ 07M	IQ 07				216	152	108		138		80		100			6.5	6.0
IQ 800M	IQ 800				225	180	121		151		83		90			138	112
IQ 1000M	IQ 1000	½"	½"	18	220	152	119	23	141	71	80	120	100	58	7	9.7	9.0
IQ 701M	IQ 701															6.6	6.2
IQA 701M-Bs	IQA 701-Bs															6.5	6.1
IQ 1000HM	IQ 1000H	¾"	¾"	22	255	180	126	27	153	84	90	138	112	62	7	9.9	8.8
IQ 1500M	IQ 1500	1"	1"	25	318	212	140	30	170	89	100	164	125	85	9	14.1	12.2
IQ 2000M	IQ 2000															15.2	14.1
-	IQ 3000															-	15.2

## ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
IQ 05M	2.6 A	2.4 A	5.2 A
IQ 07M	3.7 A	3.4 A	7.4 A
IQ 800M	5.2 A	4.8 A	10.8 A
IQ 1000M	5.2 A	4.8 A	10.8 A
IQ 701M	3.4 A	2.7 A	5.8 A
IQA 701M-Bs	3.4 A	2.7 A	5.8 A
IQ 1000HM	5.6 A	5.1 A	11.5 A
IQ 1500M	9.0 A	8.2 A	18.0 A
IQ 2000M	12.0 A	11.0 A	24.0 A

MODEL	VOLTAGE (three-phase)				
Three-phase	230 V	400 V	690 V	240 V	415 V
IQ 05	2.0 A	1.15 A	-	1.9 A	1.1 A
IQ 07	3.0 A	1.7 A	-	2.8 A	1.6 A
IQ 800	3.8 A	2.2 A	-	3.3 A	1.9 A
IQ 1000	3.8 A	2.2 A	-	3.3 A	1.9 A
IQ 701	2.2 A	1.3 A	-	2.0 A	1.15 A
IQA 701-Bs	2.2 A	1.3 A	-	2.0 A	1.15 A
IQ 1000H	4.2 A	2.4 A	-	3.8 A	2.2 A
IQ 1500	6.3 A	3.6 A	2.05 A	5.7 A	3.3 A
IQ 2000	7.6 A	4.4 A	2.5 A	7.0 A	4.0 A
IQ 3000	9.3 A	5.4 A	3.15 A	8.7 A	5.0 A