

## Помпа центробежна с периферно работно колело City Pumps IQ 05M



# IQ

PUMPS WITH PERIPHERAL IMPELLER

Clean water
 Domestic use
 Industrial use



### PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3.0 m<sup>3</sup>/h)
- Head up to **70 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** (+45 °C for IQ 05)
- Max. working pressure:
  - **6 bar** for IQ 05, IQ 07
  - **10 bar** for IQ 1000
- Continuous service **S1**

### CONSTRUCTION AND SAFETY STANDARDS

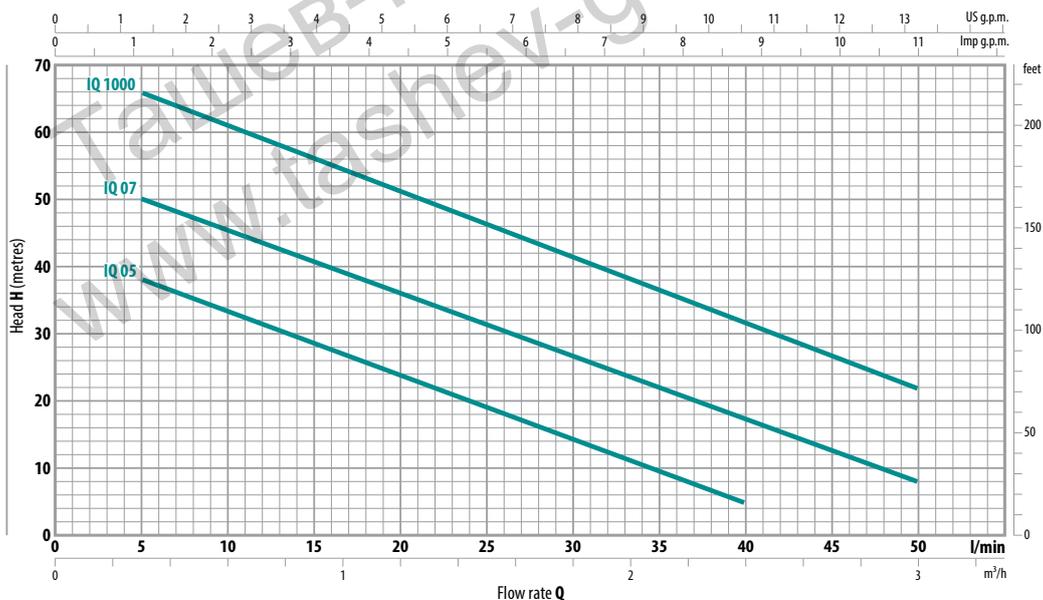
**EN 60335-1**  
**IEC 60335-1**  
**CEI 61-150**

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



### CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz | n=2900 min<sup>-1</sup> | HS=0 m



| MODEL        |             | POWER (P <sub>2</sub> ) |      | Q        | Flow rate Q |     |      |      |     |      |     |      |     |     |
|--------------|-------------|-------------------------|------|----------|-------------|-----|------|------|-----|------|-----|------|-----|-----|
| Single-phase | Three-phase | kW                      | HP   |          | 0           | 0.3 | 0.6  | 0.9  | 1.2 | 1.5  | 1.8 | 2.1  | 2.4 | 3.0 |
| IQ 05M       | IQ 05       | 0.37                    | 0.50 | H metres | 40          | 38  | 33.5 | 29   | 24  | 19.5 | 15  | 10   | 5   |     |
| IQ 07M       | IQ 07       | 0.55                    | 0.75 |          | 55          | 50  | 45.5 | 40.5 | 36  | 31   | 27  | 22   | 17  | 8   |
| IQ 1000M     | IQ 1000     | 0.75                    | 1    |          | 70          | 66  | 61   | 56   | 51  | 46   | 41  | 36.5 | 31  | 22  |

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

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

## 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 both domestic and industrial applications.

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

## CONSTRUCTION CHARACTERISTICS

**PUMP BODY** Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1

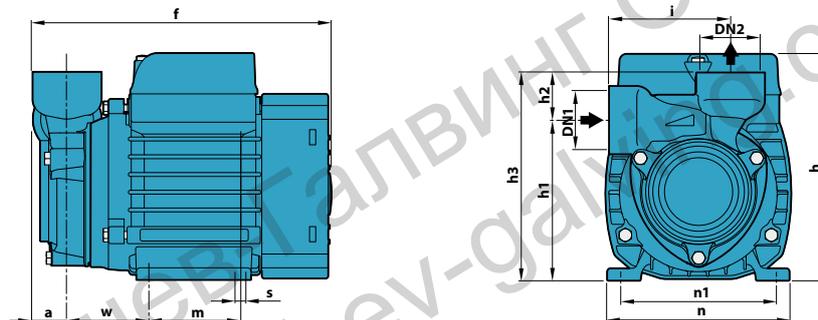
**IMPELLER** Brass with peripheral radial vanes

**MOTOR SHAFT** Stainless steel EN 10088-3 - 1.4104

**MECHANICAL SEAL** **IQ05, IQ07:**  
Ceramic - Graphite - NBR  
**IQ1000:**  
Silicon carbide - Graphite - NBR

**ELECTRIC MOTOR** The three-phase pumps are fitted with high performance motors up to P2=0.55kW in class IE2 and from P2=0.60kW in class IE3 (IEC 60034-30)

## 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       |       |     | 22            | 190 | 145  | 101 | 30 | 131 | 76 | 55 | 118 | 93-100 | 53 | 7 | 5.1 | 5.1 |     |
| IQ 07M       | IQ 07       | 1"    | 1"  |               | 220 | 152  | 113 |    | 143 | 78 | 80 | 120 | 100    |    |   | 7.0 | 6.2 |     |
| IQ 1000M     | IQ 1000     |       |     |               | 255 | 180* | 121 |    | 151 | 83 | 90 | 138 | 112    |    |   | 62  | 9.7 | 9.6 |

(\*) h=199 mm for single phase versions at 110 V

## ABSORPTION

| MODEL    | VOLTAGE      |       |        |
|----------|--------------|-------|--------|
|          | Single-phase | 230 V | 240 V  |
| IQ 05M   | 2.6 A        | 2.4 A | 5.2 A  |
| IQ 07M   | 3.7 A        | 3.4 A | 7.4 A  |
| IQ 1000M | 5.2 A        | 4.8 A | 10.5 A |

| MODEL   | VOLTAGE     |        |       |       |       |
|---------|-------------|--------|-------|-------|-------|
|         | Three-phase | 230 V  | 400 V | 690 V | 240 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 1000 | 3.8 A       | 2.2 A  | -     | 3.3 A | 1.9 A |

## PALLETIZATION

| MODEL        |             | GROUPAGE | CONTAINER |
|--------------|-------------|----------|-----------|
| Single-phase | Three-phase | n. pumps | n. pumps  |
| IQ 05M       | IQ 05       | 256      | 352       |
| IQ 07M       | IQ 07       | 200      | 240       |
| IQ 1000M     | IQ 1000     | 102      | 170       |