



Flow rate up to 80 l/min(4.8 m<sup>3</sup>/h) Dynamic head up to 70 m

### **OPERATING LIMITS**

Suction lift up to 9 m Fluid temperature up to +40°C Maximum ambient temperature +40°C



## **WORKING PRINCIPLE**

The TAB series are SELF-PRIMING CENTRIFUGAL PUMPS. Self-priming is achieved using an ejector, housed in the pump body. The total delivery produced by the closed centrifugal impeller is sent only partly to the delivery opening. The remaining water is recirculated through the ejector, which is connected to the suction chamber and generates the necessary vacuum of self-prime the pump. When first starting the pump fill the pump body with water, without bothering to fill the suction piping and eliminate any air pockets. When the pump is started up the water in the pump body circulates through the ejector and transfers any air from the suction to delivery chamber, expelling it through the delivery piping. At the same time the vacuum thus generated causes water to rise in the suction piping, thus self-priming the pump. Since the self-priming system operates continuously, these pumps are practically unaffected even by the presence of large amounts of entrained air in the fluid being pumped. The TAB series, based on past TOP experience, is designed with particular attention to hydraulic efficiency and choice of materials. The result is a compact, quiet high performance pump.

# **PUMP INSTALLATION AND APPLICATIONS**

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

THEY ARE EXTREMELY RELIABLE. ECONOMICAL AND SIMPLE TO USE. BEING PARTICULARLY SUITABLE FOR DOMESTIC APPLICATIONS SUCH AS THE AUTOMATIC DISTRIBUTION OF WATER FROM SMALL AND MEDIUM-SIZE TANKS, WATERING GARDENS, ECT.

These pumps should be installed in a covered area, protected against the weather

### **PERFORMANCE**

The wide range of pump in the TAB series satisfied the most varied requirements with features such as:

- high heads compared to required power levels;
- flat operating and power absorption curves, giving moderate curve variations with respect to large variations in delivery demand;
- high tolerance of the presence of entrained air in the fluid to be pumped;
- suction capacity up to 9 meters

### **STRUCTURAL CHARACTERISTICS**

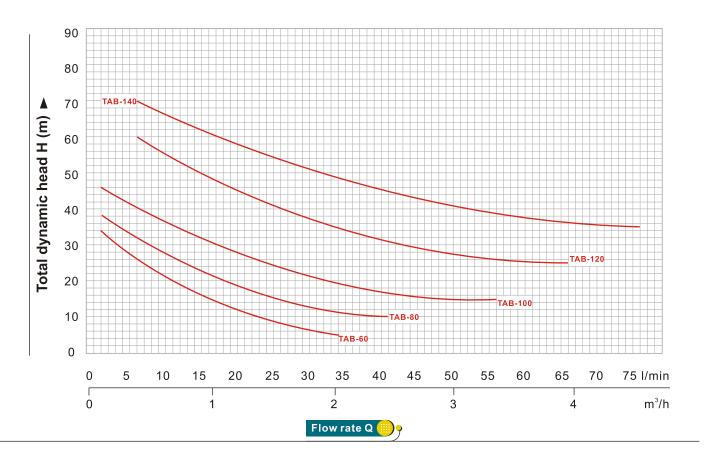
- ☐ Cast iron PUMP BODY
- ☐ Stainless steel PUMP BODY COVER serving also as mechanical seal housing.
- ☐ Technopolymer **EJECTOR UNIT**(approved for drinking water)
- ☐ Centrifugal radial flow IMPELLER in BRASS or technopolymer (approved for drinking water)on request.
- ☐ Ceramic and graphite **MECHANICAL SEAL**.
- □ MOTOR: the pumps are coupled directly to an asynchronous, high efficient TOP induction motor of suitable size, which is quiet running, closed and externally ventilated, suitable for continuous duty. INSULATION class  $\ensuremath{\mathsf{B}}$  .

The thermal cutout relay (motor protector) is incorporated in all single phase motors.

Three phase motors require an adequate external motor protector, with connection according to current standards.

- ☐ PROTECTION IP 44
- □ CONSTRUCTION AND SAFETY STANDARDS in compliance with IEC.

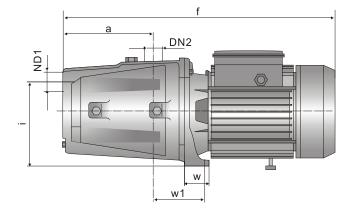
WARRANTY: 1YEAR(according to our general sales conditions)

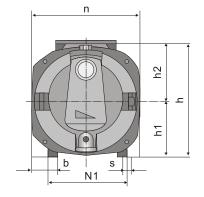


## PERFORMANCE DATA at n=2900 I/min

| PUMP MODEL   |             | POWER |      | Qm³/h      | 0  | 0.3 | 0.6  | 0.9 | 1.2  | 1.5 | 1.8  | 2.1  | 2.28 | 2.7 | 3.6  | 4.2 | 4.8 |
|--------------|-------------|-------|------|------------|----|-----|------|-----|------|-----|------|------|------|-----|------|-----|-----|
| Single phase | Three phase | kM    | HP   | I/min      | 0  | 5   | 10   | 15  | 20   | 25  | 30   | 35   | 38   | 45  | 60   | 70  | 80  |
| TABm-60      | TAB-60      | 0.4   | 0.50 | - H<br>- m | 35 | 34  | 26.5 | 20  | 15   | 11  | 8    | 6    | 5    |     |      |     |     |
| TABm-80      | TAB-80      | 0.55  | 0.70 |            | 40 | 38  | 32   | 28  | 21.5 | 18  | 15   | 13   | 11.5 | 10  |      |     |     |
| TABm-100     | TAB-100     | 0.75  | 0.85 |            | 50 | 46  | 40   | 35  | 30.5 | 27  | 32.5 | 21   | 19   | 17  | 15   |     |     |
| TABm-120     | TAB-120     | 1.1   | 1.5  |            | 64 | -   | 60   | 54  | 49   | 44  | 40   | 36   | 34.5 | 31  | 26   | 25  |     |
| TABm-140     | TAB-140     | 1.5   | 2    |            | 70 | -   | 70   | 65  | 61   | 57  | 53   | 49.5 | 48   | 44  | 38.5 | 36  | 35  |

# H=TOTAL DYNAMIC HEAD IN METERS.Q=FLOW RATE





| PUMP MODEL   |             | DN1 | DN2  | DIMENSIONS mm |     |     |    |    |     |     |     |    |    |    |   |  |
|--------------|-------------|-----|------|---------------|-----|-----|----|----|-----|-----|-----|----|----|----|---|--|
| Single phase | Three phase | DNI | DIVZ | а             | f   | h   | h1 | h2 | i   | n   | n1  | W  | w1 | b  | S |  |
|              |             |     |      |               |     |     |    |    |     |     |     |    |    |    |   |  |
| TABm-60      | TAB-60      | 1″  | 1″   | 90            | 345 | 174 | 82 | 92 | 122 | 160 | 120 | 37 | 95 | 38 | 9 |  |
| TABm-80      | TAB-80      | 1"  | 1"   | 90            | 345 | 174 | 82 | 92 | 122 | 160 | 120 | 37 | 95 | 38 | 9 |  |
| TABm-100     | TAB-100     | 1″  | 1"   | 90            | 345 | 174 | 82 | 92 | 122 | 160 | 120 | 37 | 95 | 38 | 9 |  |
| TABm-120     | TAB-120     | 1″  | 1"   | 90            | 353 | 174 | 82 | 92 | 122 | 160 | 120 | 37 | 95 | 38 | 9 |  |
| TABm-140     | TAB-140     | 1"  | 1"   | 90            | 353 | 174 | 82 | 92 | 122 | 160 | 120 | 37 | 95 | 38 | 9 |  |