

# TIGER



## **ELETTROPOMPE SOMMERGIBILI VORTEX E BICANALI PER ACQUE CARICHE SUBMERSIBLE VORTEX AND BICANAL ELECTRIC PUMPS FOR WASTEWATER**

**PREVALENZA** : 6,5 mt. ÷ 16,0 mt.  
**PORTATA** : 12,0 m<sup>3</sup>/h ÷ 42,0 m<sup>3</sup>/h  
**POTENZA NOMINALE** : 0,5 kW (0,7HP) ÷ 1,5 kW (2,0HP)  
**PASSAGGIO SOLIDI FINO A 50 mm.**

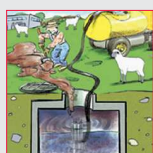
### **APPLICAZIONI**

- SVUOTAMENTO DI FOSSE DI DECANTAZIONE, POZZI NERI, POZZI DI RACCOLTA LIQUAMI.
- POMPAGGIO DI ACQUE LURIDE ANCHE CON CORPI SOLIDI IN SOSPENSIONE.
- MOVIMENTAZIONE DI ACQUE LURIDE AD USO DOMESTICO ED INDUSTRIALE.

**PUMP HEAD** : 6,5 mt ÷ 16,0 mt  
**DELIVERY** : 12,0 m<sup>3</sup>/h ÷ 42,0 m<sup>3</sup>/h  
**RATED HORSEPOWER** : 0,5 kW (0,7HP) ÷ 1,5 kW (2,0HP)  
**SOLID MATTER BYPASS up to 50 mm.**

### **APPLICATIONS**

- DECANTATION PIT, SEWAGE PIT AND SLURRY COLLECTION PIT PUMP OUT.
- PUMP OUT OF LAVATORY/FOUL WATER WITH POSSIBLE FLOATING SOLIDS CONTENTS.
- DOMESTIC AND INDUSTRIAL LAVATORY/BLACK WATER HANDLING SYSTEMS.



**ARVEN**  
WATER PUMPS

## CARATTERISTICHE DI COSTRUZIONE:

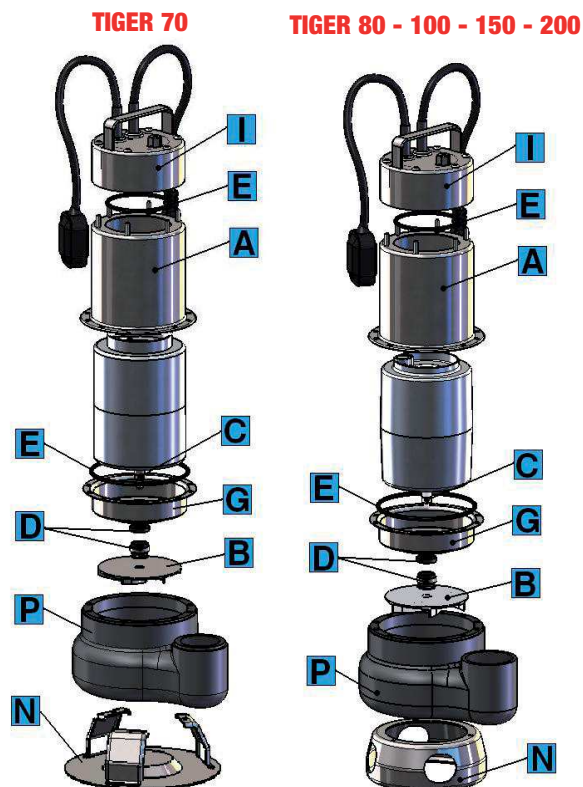
- ELETTOPOMPA A DOPPIA CAMERA (MOTORE, TENUTA MECCANICA).
  - MOTORE A BAGNO D'OLIO (BIODEGRADABILE E DIELETTRICO) PER RAFFREDDAMENTO E LUBRIFICAZIONE CUSCINETTI.
  - ANELLO DI TENUTA LATO MOTORE.
  - TENUTA MECCANICA A BAGNO D'OLIO.
  - IMMERSIONE MASSIMA: mt. 5 .
  - GRADO DI PROTEZIONE IP 68 .
  - CLASSE DI ISOLAMENTO: F
  - TEMPERATURA MAX. LIQUIDO POMPATO:  
25°C con pompa PARZIALMENTE immersa.  
35°C con pompa TOTALMENTE immersa
  - PASSAGGIO LIBERO: 30 mm - TIGER 70.  
35 mm - TIGER 80.  
50 mm - TIGER 100 - 150 - 200.
  - VERSIONI: Monofase: 220-277V/50Hz e 220-277V/60Hz con protettore termico incorporato e condensatore permanentemente inserito.  
Trifase: 220-277V/50Hz o 380-480V/50Hz e 220-277V/60Hz o 380-480V/60Hz con protezione da sovraccarico a cura dell'utente.
  - VERSIONI MONOFASI AUTOMATICHE CON GALLEGGIANTE O MANUALI SENZA GALLEGGIANTE.
  - CAVO STANDARD:  
Monofase: 10 metri H07RN-F per versione normale (aut.-man.)  
5 metri H07RN-F solo per versione automatica. (esclusa TIGER 150)  
5 metri H05VV-F solo per TIGER 70.  
Trifase: 10 metri H07RN-F
- SPECIALI VOLTAGGI E FREQUENZE A RICHIESTA.

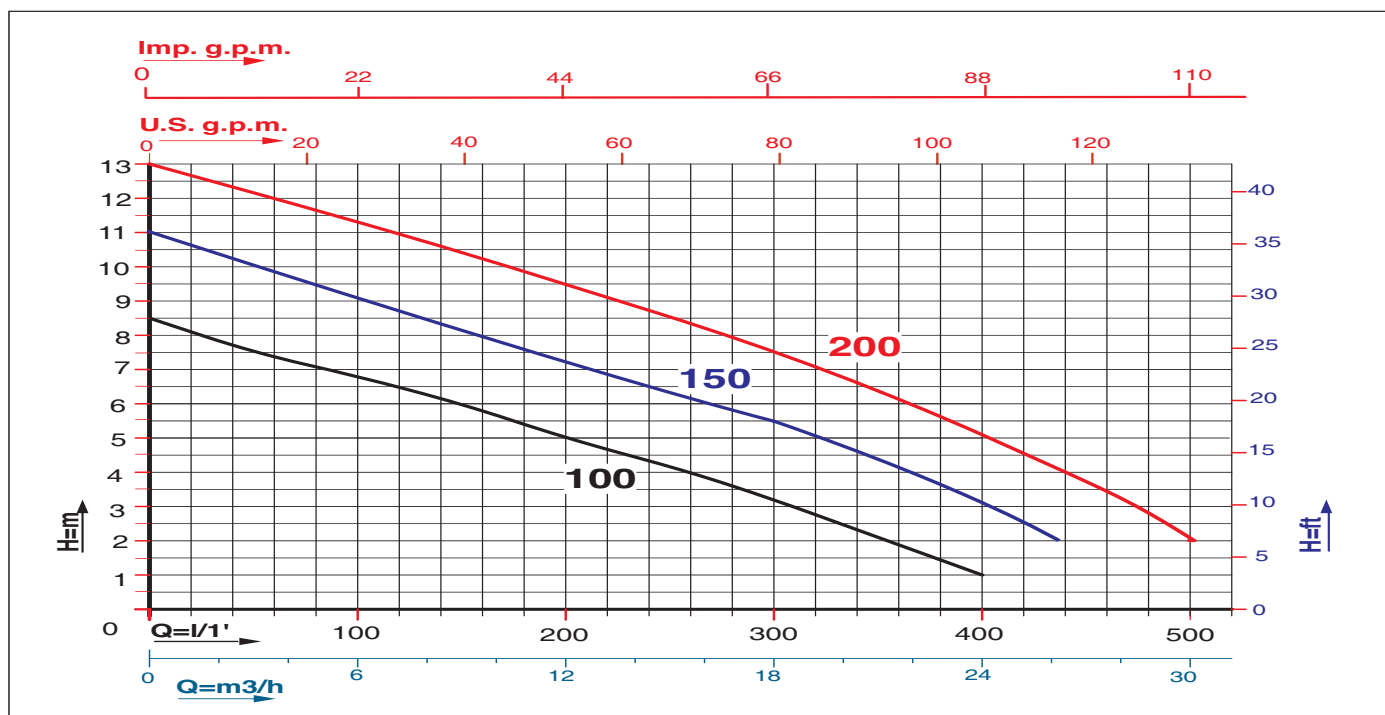
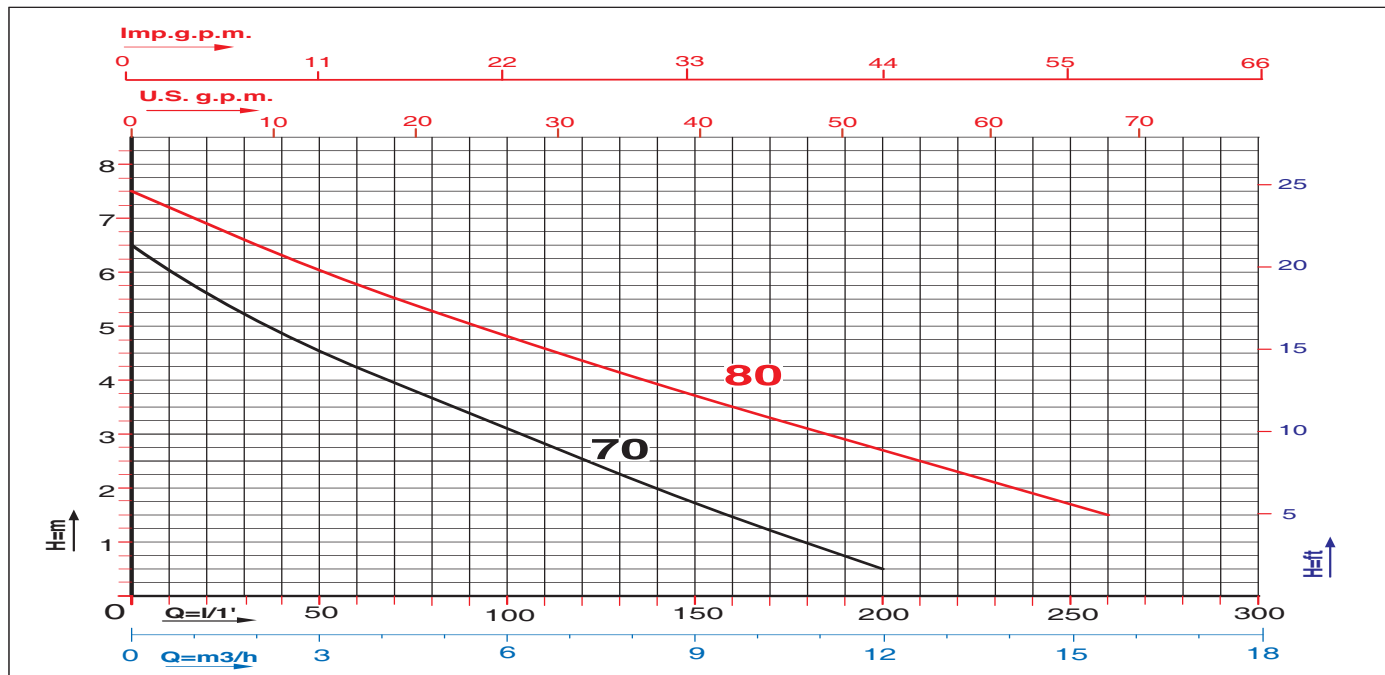
## DESIGN ENGINEERING:

- DUAL CHAMBER ELECTRIC PUMP (MECHANICAL SEAL, MOTOR).
  - OIL BATH MOTOR (BIODEGRADABLE AND DIELECTRIC) FOR COOLING AND BEARING LUBRICATION.
  - SEALING RING - ENGINE FACE.
  - OIL BATH MECHANICAL SEALS.
  - PERMISSIBLE DRAUGHT OF WATER: 5 m.
  - IP 68 PROTECTION CLASS.
  - CLASS "F" INSULATION.
  - MAX. PUMPED LIQUID TEMPERATURE:  
25°C with PARTIALLY submerged pump.  
35°C with TOTALLY submerged pump.
  - BY PASS SECTION: 30 mm - TIGER 70.  
35 mm - TIGER 80.  
50 mm - TIGER 100 - 150 - 200.
  - VERSIONS: Single Phase: 220-230V/50Hz or 220-230V/60 Hz with built in thermal protection and permanent capacitor.  
Three Phases : 220-277V/50 Hz or 380-480V/50Hz and 220-277V/60Hz or 380-480V/60Hz with overload protection care of the User.
  - AUTOMATIC SINGLE PHASE VERSIONS WITH FLOATER OR MANUAL SINGLE PHASE VERSION WITHOUT FLOATER.
  - STANDARD CABLE FEATURES:  
Single Phase: 10 metres H07RN-F for the standard version (automatic-manual).  
5 metres H07RN-F only for the automatic version. (excluded TIGER 150).  
5 metres H05VV-F only for TIGER 70.  
Three Phases: 10 metres H07RN-F.
- CUSTOMISED VOLTAGE AND FREQUENCY RATING AVAILABLE ON DEMAND.

## TABELLA MATERIALI / MATERIALS TABLE:

| Pos. | Componente / Component                   | Materiale / Materials                                                  |
|------|------------------------------------------|------------------------------------------------------------------------|
| A    | Carcassa esterna / External housing      | ACCIAIO INOX<br>AISI 304-DIN 1.4301<br>STAINLESS STEEL                 |
| B    | Girante / Impeller                       |                                                                        |
| C    | Albero (lato pompa)<br>Shaft (pump side) | TIGER 70<br>ACCIAIO INOX AISI 416-DIN 1.4005 / STAINLESS STEEL         |
|      |                                          | TIGER 80-100-150<br>ACCIAIO INOX AISI 316-DIN 1.4401 / STAINLESS STEEL |
| D    | Tenuta meccanica<br>Mechanical seal      | Lato pompa / Pump face<br>GRAFITE-CERAMICA<br>GRAPHITE-CERAMIC         |
|      |                                          | Lato motore / Motor face<br>ANELLO DI TENUTA NBR<br>NBR SEAL RING      |
| E    | O-ring                                   | NBR                                                                    |
| G    | Porta motore / Motor holder              | ACCIAIO INOX<br>AISI 304-DIN 1.4301<br>STAINLESS STEEL                 |
| I    | Coperchio / Cover                        |                                                                        |
| N    | Base d'appoggio / Base holder            |                                                                        |
| P    | Corpo pompa / Pump body                  | GHISA (G20) / CAST IRON                                                |





Caratteristiche di funzionamento a 2800 rpm 50Hz e 3450 rpm 60Hz - Performances at 2800 rpm 50 Hz and 3450 rpm 60 Hz  
Le prestazioni valgono per liquidi con densità  $\rho = 1,0 \text{ kg/dm}^3$  ed una viscosità  $\nu = 1 \text{ mm}^2/\text{s}$  / The performance data holds true for liquids with a  $\rho = 1,0 \text{ kg/dm}^3$  density and a  $\nu = 1 \text{ mm}^2/\text{s}$  viscosity.

| MODELLO<br>MODEL | VOLTAGGIO<br>VOLTAGE<br><br>50 Hz | DATI ELETTRICI / ELECTRICAL DATA |      |         |        |       |     | DATI IDRAULICI / HYDRAULIC DATA                                                          |      |        |      |      |     |     |      |     |     |     |     |
|------------------|-----------------------------------|----------------------------------|------|---------|--------|-------|-----|------------------------------------------------------------------------------------------|------|--------|------|------|-----|-----|------|-----|-----|-----|-----|
|                  |                                   | P1max                            |      | P2 nom. |        | I max |     | Condensatore<br>Capacitor                                                                | m³/h | 0      | 3    | 6    | 9   | 12  | 15,6 | 18  | 24  | 27  | 30  |
|                  |                                   | kW                               | kW   | HP      | Ampere | µF    | VC  |                                                                                          |      | l/min. | 0    | 50   | 100 | 150 | 200  | 260 | 300 | 400 | 450 |
| TIGER 70 M       | 1 x 220-230V                      | 0,9                              | 0,5  | 0,7     | 4,0    | 14,5  | 450 | H (m)                                                                                    | 6,5  | 4,5    | 3,1  | 1,7  | 0,5 | --- | ---  | --- | --- | --- | --- |
| TIGER 80 M       | 1 x 220-230V                      | 1,1                              | 0,6  | 0,8     | 5,0    | 16,0  | 450 |                                                                                          | 7,5  | 6,0    | 4,8  | 3,7  | 2,7 | 1,5 | ---  | --- | --- | --- | --- |
| TIGER 80 T       | 3 x 380-440V                      | 0,9                              | 0,6  | 0,8     | 2,0    | ---   | --- |                                                                                          | 7,5  | 6,0    | 4,8  | 3,7  | 2,7 | 1,5 | ---  | --- | --- | --- | --- |
| TIGER 100 M      | 1 x 220-230V                      | 1,5                              | 0,75 | 1,0     | 6,5    | 20,0  | 450 |                                                                                          | 8,5  | 7,5    | 6,8  | 6,0  | 5,0 | 4,0 | 3,2  | 1,0 | --- | --- | --- |
| TIGER 100 T      | 3 x 380-440V                      | 1,3                              | 0,75 | 1,0     | 2,4    | ---   | --- |                                                                                          | 8,5  | 7,5    | 6,8  | 6,0  | 5,0 | 4,0 | 3,2  | 1,0 | --- | --- | --- |
| TIGER 150 M      | 1 x 220-230V                      | 2,2                              | 1,1  | 1,5     | 10,4   | 30,0  | 450 |                                                                                          | 11,0 | 9,8    | 9,0  | 8,0  | 7,3 | 6,2 | 5,6  | 3,2 | 1,8 | --- | --- |
| TIGER 150 T      | 3 x 380-440V                      | 1,7                              | 1,1  | 1,5     | 3,0    | ---   | --- |                                                                                          | 11,0 | 9,8    | 9,0  | 8,0  | 7,3 | 6,2 | 5,6  | 3,2 | 1,8 | --- | --- |
| TIGER 200 M      | 1 x 220-230V                      | 2,4                              | 1,5  | 2,0     | 11,5   | 30,0  | 450 |                                                                                          | 13,0 | 12,2   | 11,2 | 10,4 | 9,5 | 8,3 | 7,5  | 5,2 | 3,0 | 2,0 | --- |
| TIGER 200 T      | 3 x 380-440V                      | 2,2                              | 1,5  | 2,0     | 3,6    | ---   | --- |                                                                                          | 13,0 | 12,2   | 11,2 | 10,4 | 9,5 | 8,3 | 7,5  | 5,2 | 3,0 | 2,0 | --- |
|                  |                                   |                                  |      |         |        |       |     | PREVALENZA TOTALE in METRI COLONNA ACQUA / TOTAL PUMP HEAD AND WATER COLUMN HEIGHT IN m. |      |        |      |      |     |     |      |     |     |     |     |

PREVALENZA TOTALE in METRI COLONNA ACQUA / TOTAL PUMP HEAD AND WATER COLUMN HEIGHT IN m.

## CARATTERISTICHE DI COSTRUZIONE:

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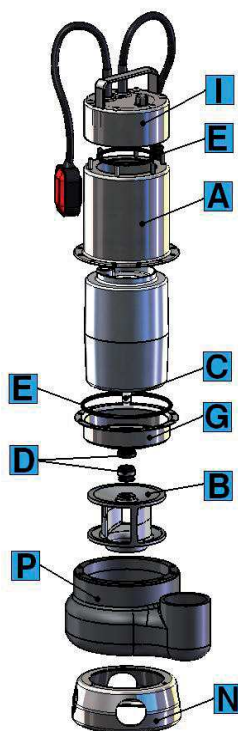
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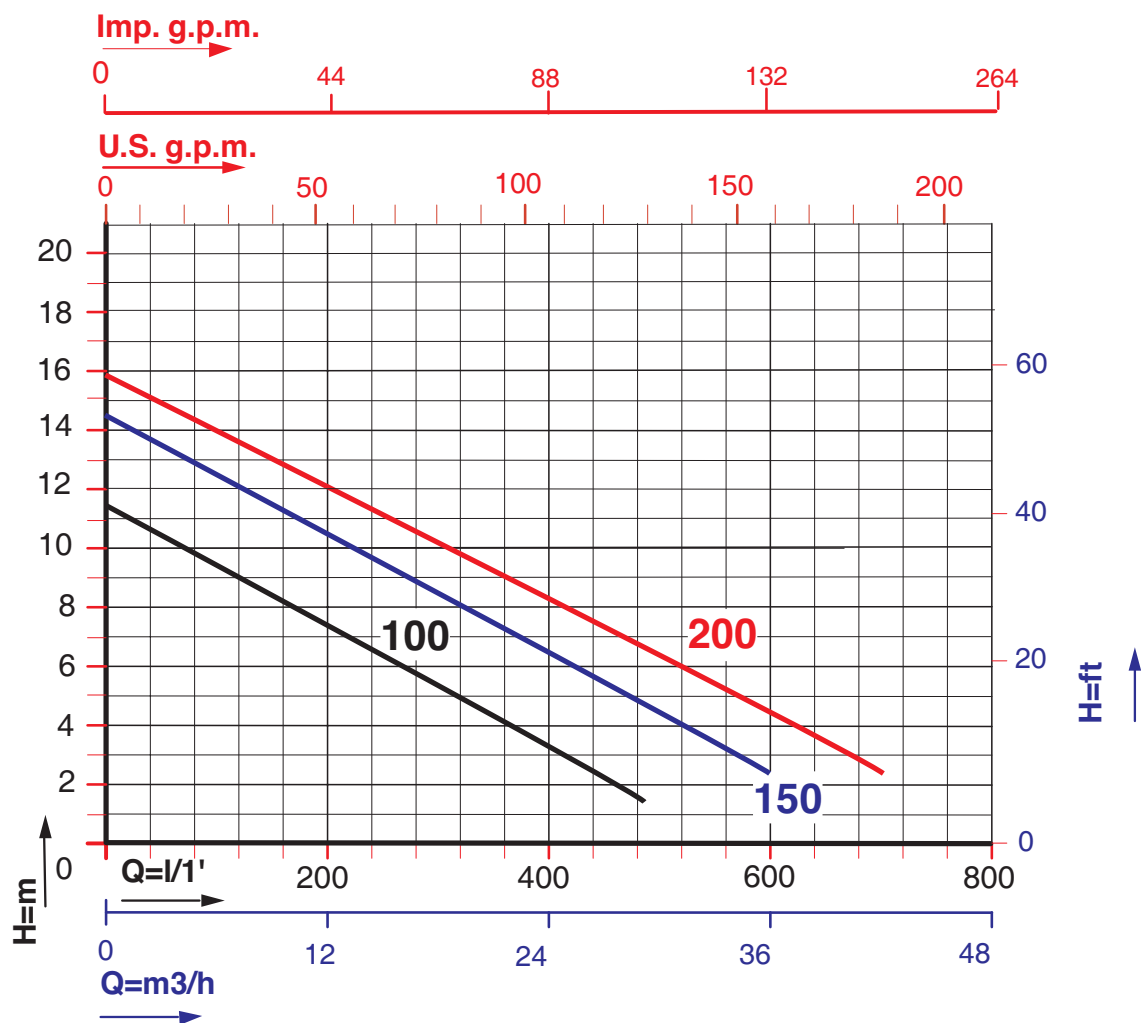
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| C    | Albero (lato pompa) / Shaft (pump side) |                          | ACCIAIO INOX<br>AISI 316 DIN 1.4401<br>STAINLESS STEEL |
| D    | Tenuta meccanica<br>Mechanical seal     | Lato pompa / Pump face   | GRAFITE-CERAMICA<br>GRAPHITE-CERAMIC                   |
|      |                                         | Lato motore / Motor face | ANELLO DI TENUTA NBR<br>NBR SEAL RING                  |
| E    | O-ring                                  |                          | NBR                                                    |
| G    | Porta motore / Motor holder             |                          | ACCIAIO INOX<br>AISI 304 DIN 1.4301<br>STAINLESS STEEL |
| I    | Coperchio / Cover                       |                          |                                                        |
| N    | Base d'appoggio / Base holder           |                          | ACCIAIO INOX<br>AISI 304 DIN 1.4301<br>STAINLESS STEEL |
| P    | Corpo pompa / Pump body                 |                          | GHISA (G20)<br>CAST IRON                               |

## TIGER - BC 100 - 150 - 200



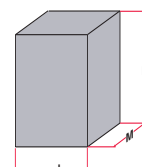
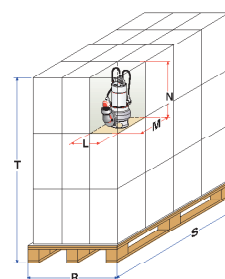
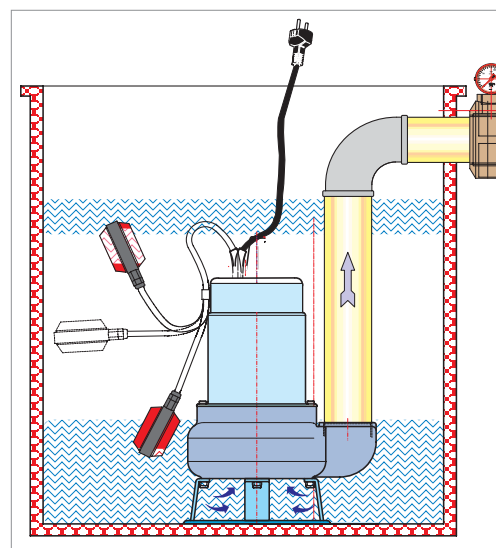
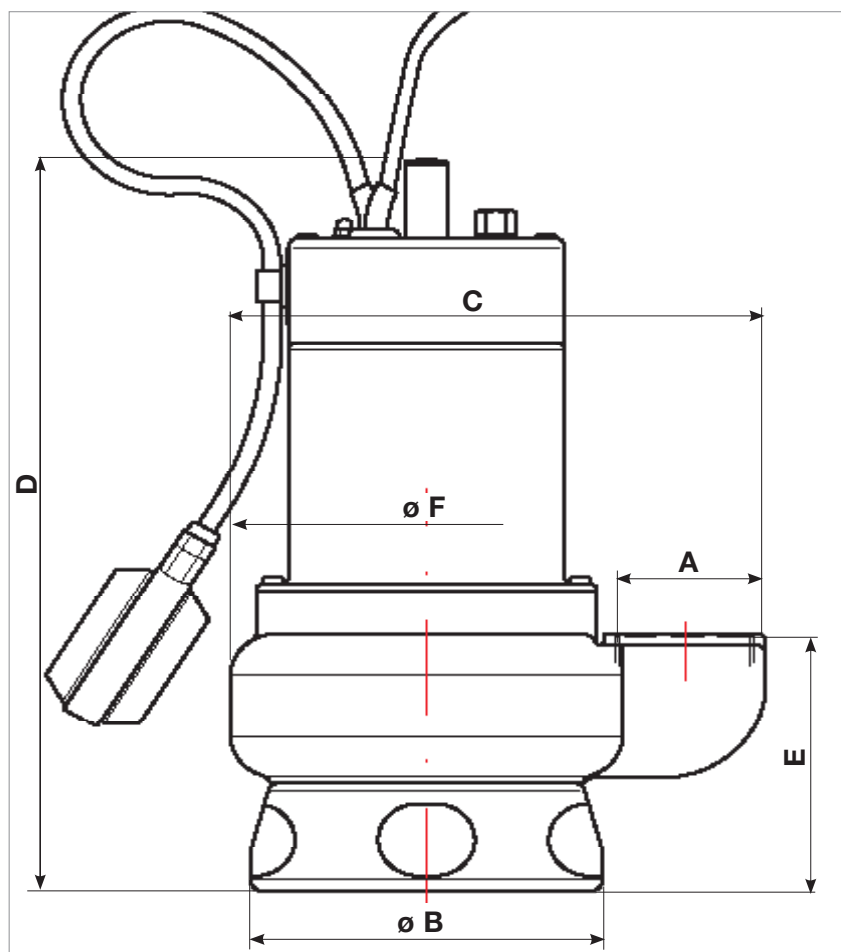


Caratteristiche di funzionamento a 2800 rpm 50Hz e 3450 rpm 60Hz - Performances at 2800 rpm 50 Hz and 3450 rpm 60 Hz  
 Le prestazioni valgono per liquidi con densità  $\rho = 1,0 \text{ kg/dm}^3$  ed una viscosità  $\nu = 1 \text{ mm}^2/\text{s}$  / The performance data holds true for liquids with a  $\rho = 1,0 \text{ kg/dm}^3$  density and a  $\nu = 1 \text{ mm}^2/\text{s}$  viscosity.

| MODELLO<br>MODEL                                                                         | VOLTAGGIO<br>VOLTAGE | DATI ELETTRICI / ELECTRICAL DATA |         |     |        |                           |     | DATI IDRAULICI / HYDRAULIC DATA |      |      |      |      |      |     |     |     |     |
|------------------------------------------------------------------------------------------|----------------------|----------------------------------|---------|-----|--------|---------------------------|-----|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
|                                                                                          |                      | P1max                            | P2 nom. |     | I max  | Condensatore<br>Capacitor |     | m³/h                            | 0    | 3    | 6    | 12   | 18   | 24  | 30  | 36  | 42  |
|                                                                                          | 50 Hz                | kW                               | kW      | HP  | Ampere | µF                        | VC  | l/min.                          | 0    | 50   | 100  | 200  | 300  | 400 | 500 | 600 | 700 |
| TIGER - BC 100 M                                                                         | 1 x 220-230V         | 1,5                              | 0,75    | 1,0 | 7,0    | 20,0                      | 450 | H (m)                           | 11,5 | 10,5 | 9,5  | 7,5  | 5,5  | 3,3 | 1,5 | --- | --- |
| TIGER - BC 100 T                                                                         | 3 x 380-440V         | 1,3                              | 0,75    | 1,0 | 3,2    | ---                       | --- |                                 | 11,5 | 10,5 | 9,5  | 7,5  | 5,5  | 3,3 | 1,5 | --- | --- |
| TIGER - BC 150 M                                                                         | 1 x 220-230V         | 2,2                              | 1,1     | 1,5 | 11,5   | 30,0                      | 450 |                                 | 14,5 | 13,5 | 12,5 | 10,5 | 8,5  | 6,5 | 4,5 | 2,5 | --- |
| TIGER - BC 150 T                                                                         | 3 x 380-440V         | 1,7                              | 1,1     | 1,5 | 4,5    | ---                       | --- |                                 | 14,5 | 13,5 | 12,5 | 10,5 | 8,5  | 6,5 | 4,5 | 2,5 | --- |
| TIGER - BC 200 T                                                                         | 3 x 380-440V         | 2,2                              | 1,5     | 2,0 | 4,8    | ---                       | --- |                                 | 16,0 | 14,8 | 14,0 | 12,0 | 10,5 | 8,2 | 6,5 | 4,3 | 2,5 |
| PREVALENZA TOTALE in METRI COLONNA ACQUA / TOTAL PUMP HEAD AND WATER COLUMN HEIGHT IN m. |                      |                                  |         |     |        |                           |     |                                 |      |      |      |      |      |     |     |     |     |

PREVALENZA TOTALE in METRI COLONNA ACQUA / TOTAL PUMP HEAD AND WATER COLUMN HEIGHT IN m.

# DIMENSIONI E PESI / SIZE AND WEIGHT DATA:



| MODELLO / MODEL | DIMENSIONI POMPA in mm. / PUMP DIMENSIONS in mm. |     |     |       |     |     |
|-----------------|--------------------------------------------------|-----|-----|-------|-----|-----|
|                 | A                                                | B   | C   | D     | E   | F   |
| TIGER 70        | 1" 1/2                                           | 150 | 232 | 360,5 | 125 | 170 |
| TIGER 80        | 1" 1/2                                           | 150 | 232 | 372,5 | 125 | 170 |
| TIGER 100       | 2"                                               | 150 | 232 | 385,5 | 125 | 170 |
| TIGER 150       | 2"                                               | 150 | 232 | 395,5 | 125 | 170 |
| TIGER 200       | 2"                                               | 150 | 232 | 395,5 | 125 | 170 |
| TIGER - BC 100  | 2"                                               | 150 | 232 | 367   | 125 | 170 |
| TIGER - BC 150  | 2"                                               | 150 | 232 | 407   | 125 | 170 |
| TIGER - BC 200  | 2"                                               | 150 | 232 | 407   | 125 | 170 |

| MODELLO / MODEL | DIMENSIONI SCATOLA / PACKING DIMENSIONS |          |          |                      | DIMENSIONI PALLET / PALLET DIMENSIONS |          |          |                        |                      |
|-----------------|-----------------------------------------|----------|----------|----------------------|---------------------------------------|----------|----------|------------------------|----------------------|
|                 | L<br>mm.                                | M<br>mm. | N<br>mm. | Peso / Weight<br>Kg. | R<br>mm.                              | S<br>mm. | T<br>mm. | nr.<br>scatole/cartons | Peso / Weight<br>Kg. |
| TIGER 70        | 190                                     | 230      | 410      | 12,0                 | 800                                   | 1200     | 1360     | 60                     | 685                  |
| TIGER 80        | 190                                     | 230      | 410      | 12,5                 | 800                                   | 1200     | 1360     | 60                     | 745                  |
| TIGER 100       | 190                                     | 230      | 410      | 13,5                 | 800                                   | 1200     | 1360     | 60                     | 805                  |
| TIGER 150       | 190                                     | 230      | 480      | 17,0                 | 800                                   | 1200     | 1570     | 60                     | 925                  |
| TIGER 200       | 190                                     | 230      | 480      | 17,1                 | 800                                   | 1200     | 1570     | 60                     | 925                  |
| TIGER BC 100    | 190                                     | 230      | 480      | 15,0                 | 800                                   | 1200     | 1570     | 60                     | 865                  |
| TIGER BC 150    | 190                                     | 230      | 480      | 17,9                 | 800                                   | 1200     | 1570     | 60                     | 985                  |
| TIGER BC 200    | 190                                     | 230      | 480      | 18,3                 | 800                                   | 1200     | 1570     | 60                     | 985                  |