

# "Verti Sub"



**Sealand Electric Pumps South Africa**

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## VERTICAL MONOBLOC MULTISTAGE ELECTRIC PUMPS

The vertical monobloc multistage electric pumps of the series Verti Sub are designed with the most advanced and sophisticated engineering and industrial design systems. The Verti Sub have been studied to pump clean liquids, without abrasives and suspended solids, non-explosive or aggressive for the pump's materials, with liquid temperature not higher than 35 °C for domestic use (CEI EN 60335-2-41) or 60 °C for other use. The extreme noiselessness permit the internal or external installation, immersed in to a storage tank or basin. The use of corrosion-proof materials along with the particular impeller & diffuser design make them suitable for environments with a slight presence of sand in the water. Max. immersion 15 m.

### TECHNICAL FEATURES

- Pump body: stainless steel Aisi 304
- Diffusers: Techno-polymer
- Impeller: Techno-polymer
- Motor body: stainless steel Aisi 304
- Pump shaft: stainless steel Aisi 304
- Pump's side mechanical seal: silicon carbide- alumina
- Motor's side mechanical seal: graphite-alumina
- Quick cable coupling watertight connector
- 20 m H07RN-F feeding cable.

### MOTOR

- Two poles induction rewindable motor cooled by the pumped liquid, with protection IP 68, class F. insulation.
- Single-phase feeding with incorporated motor protector and capacitor permanently connected.
- The compulsory three-phase feeding protection is to be supplied by the user.
- Continuous duty.

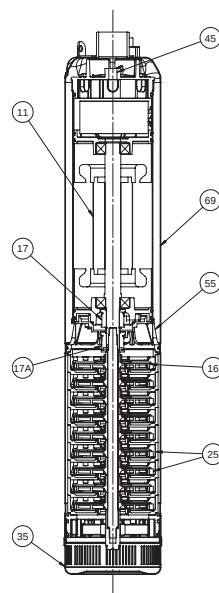
### ON REQUEST:

- Single-phase automatic version with float switch (AUT).



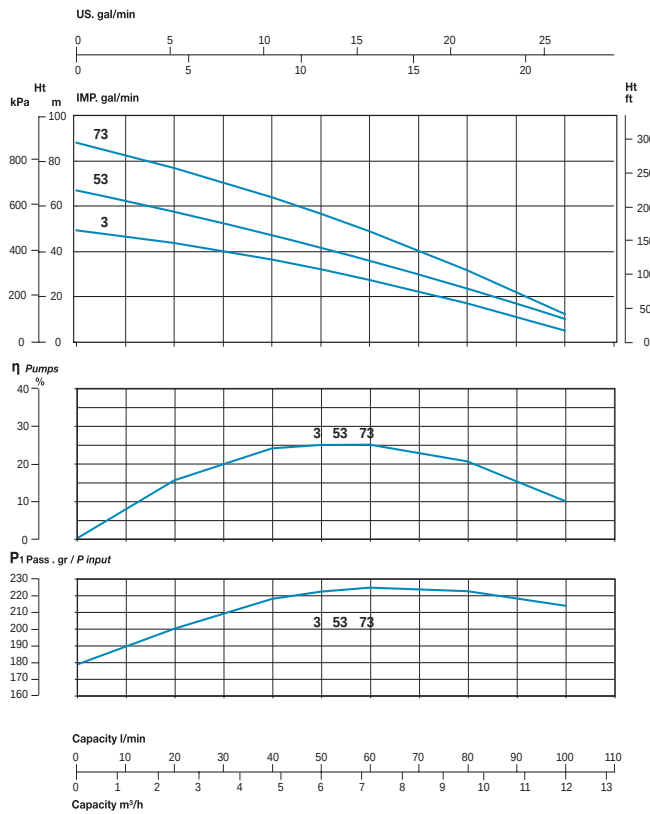
### SPARE PARTS LIST

**Easy installation**  
**High performance**  
**Energy saving**  
**Quick cable coupling watertight connector**

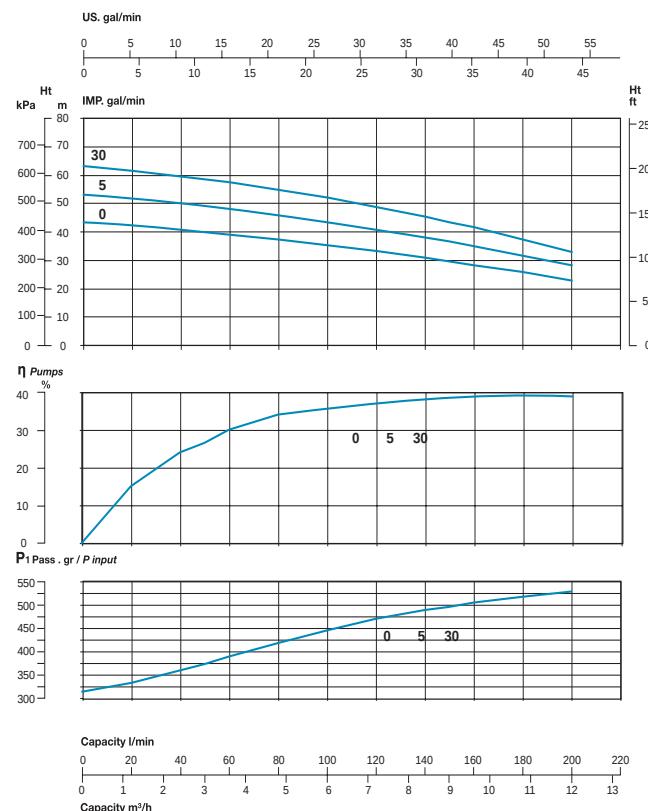
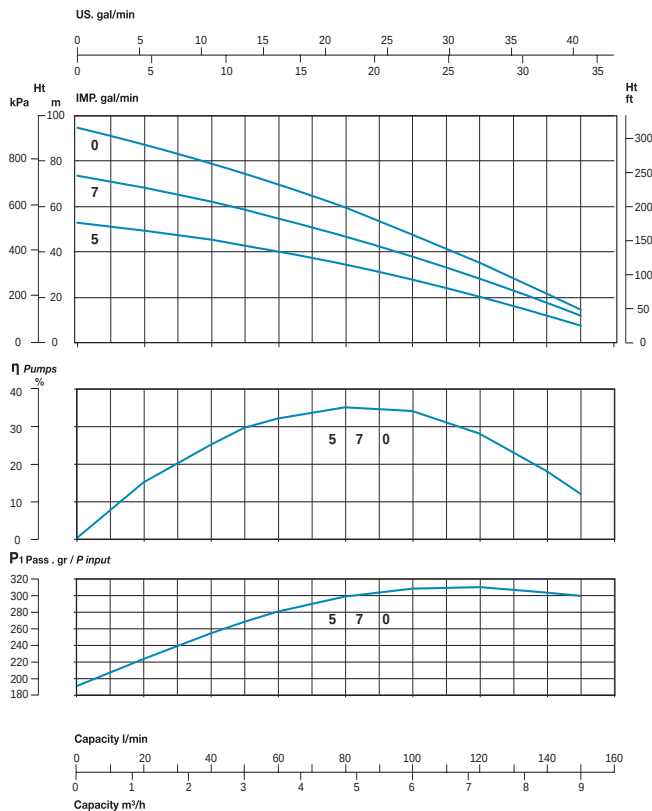
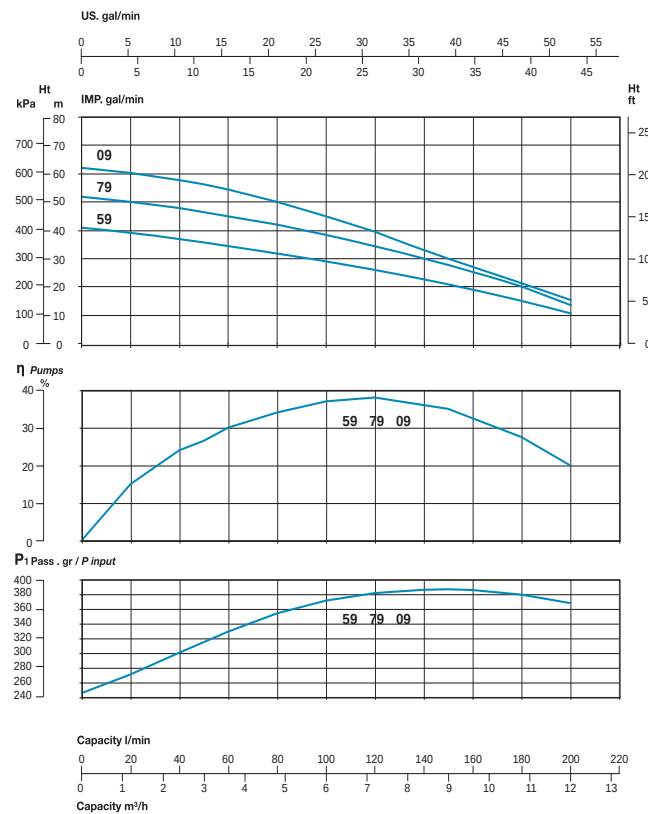


- 11 Pump shaft + rotor
- 16 Impeller
- 17 Mechanical seal
- 17A Mechanical seal
- 25 Diffuser
- 35 Pump base
- 45 Cover
- 55 Seal support
- 69 Cover

min<sup>-1</sup> ~ 2900



min<sup>-1</sup> ~ 2900



## 50 Hz

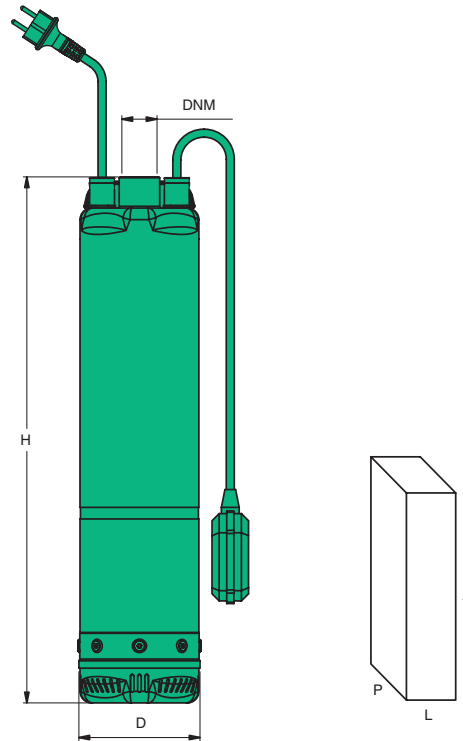
| TIPO<br>TYPE             |                        | Potenza<br>nominale<br>Nominal<br>power |     | Potenza<br>assorbita<br>Input<br>power<br>[W] |      | Condensatore<br>Capacitor<br>450 V max | Corrente assorbita<br>Input current<br>[A] |        | Portata - Capacity |                                         |      |      |      |      |      |      |      |      |      |      |      |      |  |
|--------------------------|------------------------|-----------------------------------------|-----|-----------------------------------------------|------|----------------------------------------|--------------------------------------------|--------|--------------------|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Monofase<br>Single-phase | Trifase<br>Three-phase | kW                                      | HP  | a                                             | b    | [μF]                                   | 1~230V                                     | 3~400V | Q [m³/h]           | 0                                       | 1.2  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  | 8.4  | 9    | 9.6  | 10.8 | 12   |  |
|                          |                        |                                         |     |                                               |      |                                        |                                            |        | Q [l/v']           | 0                                       | 20   | 40   | 50   | 60   | 80   | 100  | 120  | 140  | 150  | 160  | 180  | 200  |  |
|                          |                        |                                         |     |                                               |      |                                        |                                            |        |                    | Prevalenza (m C.A.) Total head (m W.C.) |      |      |      |      |      |      |      |      |      |      |      |      |  |
| a                        | b                      |                                         |     |                                               |      |                                        |                                            |        | H [m]              |                                         |      |      |      |      |      |      |      |      |      |      |      |      |  |
| Verti SUB 123 M          |                        | 0.88                                    | 1.2 | 1180                                          | -    | 30                                     | 5.2                                        | -      |                    | 49,4                                    | 43,7 | 36,5 | 32,3 | 27,7 | 17,3 | 5,3  |      |      |      |      |      |      |  |
| Verti SUB 153 M          |                        | 1.1                                     | 1.5 | 1530                                          | -    | 31.5                                   | 6.8                                        | -      |                    | 66,8                                    | 57,6 | 47,3 | 41,8 | 36,0 | 23,7 | 10,4 |      |      |      |      |      |      |  |
| Verti SUB 173 M          | Verti SUB 173 T        | 1.47                                    | 2   | 1990                                          | 1890 | 36                                     | 9.2                                        | 4.1    |                    | 88,0                                    | 76,9 | 63,9 | 56,6 | 48,8 | 31,7 | 12,6 |      |      |      |      |      |      |  |
| Verti SUB 156 M          |                        | 1.1                                     | 1.5 | 1640                                          | -    | 31.5                                   | 7.3                                        | -      |                    | 52,9                                    | 49,4 | 45,2 | 42,8 | 40,1 | 34,3 | 27,7 | 20,3 | 12,1 | 7,7  |      |      |      |  |
| Verti SUB 176 M          | Verti SUB 176 T        | 1.47                                    | 2   | 2170                                          | 2090 | 40                                     | 9.8                                        | 3.9    |                    | 73,7                                    | 68,3 | 62,0 | 58,5 | 54,8 | 46,8 | 37,9 | 28,2 | 17,7 | 12,1 |      |      |      |  |
| Verti SUB 206 M          | Verti SUB 206 T        | 1.85                                    | 2.5 | 2610                                          | 2610 | 50                                     | 11.7                                       | 4.8    |                    | 94,6                                    | 87,4 | 79,1 | 74,5 | 69,7 | 59,3 | 47,8 | 35,2 | 21,6 | 14,4 |      |      |      |  |
| Verti SUB 159 M          |                        | 1.1                                     | 1.5 | 1580                                          | -    | 31.5                                   | 7.1                                        | -      |                    | 40,9                                    | 39,0 | 36,8 | 35,7 | 34,4 | 31,8 | 29,0 | 25,9 | 22,5 | 20,8 | 19,0 | 14,8 | 10,5 |  |
| Verti SUB 179 M          | Verti SUB 179 T        | 1.47                                    | 2   | 1950                                          | 1950 | 40                                     | 8.9                                        | 3.9    |                    | 51,8                                    | 50,0 | 47,8 | 46,5 | 45,1 | 42,0 | 38,5 | 34,5 | 30,1 | 27,7 | 25,2 | 20,0 | 13,4 |  |
| Verti SUB 209 M          | Verti SUB 209 T        | 1.85                                    | 2.5 | 2340                                          | 2240 | 50                                     | 10.6                                       | 4.3    |                    | 62,0                                    | 60,3 | 57,7 | 56,1 | 54,3 | 50,1 | 45,1 | 39,3 | 32,8 | 30,0 | 27,0 | 21,0 | 15,3 |  |
| Verti SUB 2012 M         | Verti SUB 2012 T       | 1.47                                    | 2   | 2350                                          | 2200 | 40                                     | 10,5                                       | 4,0    |                    | 43,5                                    | 42,2 | 40,7 | 39,9 | 39,1 | 37,3 | 35,3 | 33,2 | 30,9 | 29,7 | 28,4 | 25,7 | 22,9 |  |
| Verti SUB 2512 M         | Verti SUB 2512 T       | 1,85                                    | 2,5 | 2650                                          | 2800 | 50                                     | 11,7                                       | 5,2    |                    | 53,2                                    | 51,7 | 50,0 | 49,0 | 48,0 | 45,8 | 43,5 | 40,8 | 38,0 | 36,5 | 34,9 | 31,7 | 28,2 |  |
| Verti SUB 3012 M         | Verti SUB 3012 T       | 2,2                                     | 3   | 3100                                          | 3280 | 55                                     | 13,6                                       | 6      |                    | 63,3                                    | 61,6 | 59,6 | 58,6 | 57,4 | 54,8 | 52,0 | 48,8 | 45,3 | 43,5 | 41,5 | 37,5 | 33,1 |  |

a) ~ Monofase 230 V      b) ~ Trifase 400 V

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b) ~ Trifase 400 V





| TYPE              | DIMENSIONS [mm] |     |       | PACKING [mm] |     |     | WEIGHT [kg] |
|-------------------|-----------------|-----|-------|--------------|-----|-----|-------------|
|                   | H               | D   | DNM   | A            | L   | P   |             |
| Verti Sub 123 Aut | 591             | 136 | 1"1/4 | 900          | 240 | 220 | 16.5        |
| Verti Sub 153 Aut | 640             | 136 | 1"1/4 | 900          | 240 | 220 | 18          |
| Verti Sub 173 Aut | 749             | 136 | 1"1/4 | 900          | 240 | 220 | 19.5        |
| Verti Sub 173 T   | 749             | 136 | 1"1/4 | 900          | 240 | 220 | 19          |
| Verti Sub 156 Aut | 591             | 136 | 1"1/4 | 900          | 240 | 220 | 17          |
| Verti Sub 176 Aut | 640             | 136 | 1"1/4 | 900          | 240 | 220 | 18          |
| Verti Sub 176 T   | 640             | 136 | 1"1/4 | 900          | 240 | 220 | 17.5        |
| Verti Sub 206 Aut | 749             | 136 | 1"1/4 | 900          | 240 | 220 | 19.5        |
| Verti Sub 206 T   | 749             | 136 | 1"1/4 | 900          | 240 | 220 | 19          |
| Verti Sub 159 Aut | 640             | 136 | 1"1/4 | 900          | 240 | 220 | 18          |
| Verti Sub 179 Aut | 664             | 136 | 1"1/4 | 900          | 240 | 220 | 19          |
| Verti Sub 179 T   | 664             | 136 | 1"1/4 | 900          | 240 | 220 | 18.5        |
| Verti Sub 209 Aut | 763             | 136 | 1"1/4 | 900          | 240 | 220 | 20          |
| Verti Sub 209 T   | 763             | 136 | 1"1/4 | 900          | 240 | 220 | 19.5        |
| Verti Sub 2012 M  | 640             | 136 | 1"1/4 | 800          | 190 | 240 | 24          |
| Verti Sub 2012 T  | 640             | 136 | 1"1/4 | 800          | 190 | 240 | 24          |
| Verti Sub 2512 M  | 664             | 136 | 1"1/4 | 800          | 190 | 240 | 22          |
| Verti Sub 2512 T  | 664             | 136 | 1"1/4 | 800          | 190 | 240 | 21          |
| Verti Sub 3012 M  | 763             | 136 | 1"1/4 | 900          | 190 | 240 | 25          |
| Verti Sub 3012 T  | 763             | 136 | 1"1/4 | 900          | 190 | 240 | 24          |