



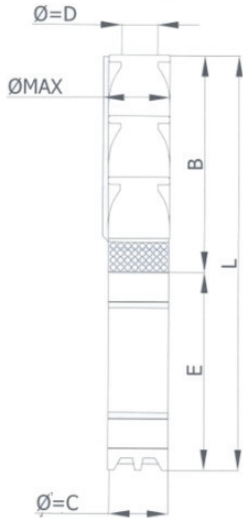
**SUBMERSIBLE BOREHOLE PUMP**

TYPICAL TECHNICAL DATA

BASED ON WATER DENSITY 1000 kg/m<sup>3</sup>

VISCOSITY 1.13 cst 113 mm<sup>2</sup>/s

**T 8120**



|   |   |   |                                     |
|---|---|---|-------------------------------------|
| Pumped Liquid: Non - Aggressive. Temperature min = 0° C max = 40° C             |   |   |                                     |
| Maximum allowable solid quantity = 50 g/m <sup>3</sup> solid dimension: Max 2mm |   |   |                                     |
| Speed - 2900 RPM  | CW = 12,5 - 150<br>Qmax = 180 m <sup>3</sup> /h | Best efficiency point:  | Q = 120 m <sup>3</sup><br>H = 190 m |
| Maximum pump diameter (including cable guard): 205 mm                           | Discharge diameter:                             | 5 "   |                                     |
| Maximum depth of application: Up to 250 m below the water level                 | Maximum working pressure:                       | 25 atm  |                                     |
| Minimum liquid level: 1200 mm from bottom of suction grid                       | Maximum head:                                   | 256 m   |                                     |
| Impeller type: Mixed Flow   | Construction and safety standards:              | TS 11146:1993 TS EN ISO 12100-1:2007<br>TS EN 809:2000 TS EN ISO 12100-2:2006<br>98/37/EC |                                     |

| PUMP TYPE | MOTOR |     |         | DIMENSIONS (mm) |      |      |      |      |      |       |       |       |       | WEIGHT (kg) |       |      |      |       |       |
|-----------|-------|-----|---------|-----------------|------|------|------|------|------|-------|-------|-------|-------|-------------|-------|------|------|-------|-------|
|           | 6"    | 8"  |         | 8.6"            | 8.8" | 8.6" | 8.8" | 6"   | 8"   | 6"    | 8"    | Ø MAX | Ø = D | 6"          | 8"    | 8.6" | 8.8" | 8.6"  | 8.8"  |
|           | HP    | HP  | Kw      | L               | L    | B    | B    | E    | E    | Ø = C | Ø = C |       |       | MOTOR       | MOTOR | PUMP | PUMP | TOTAL | TOTAL |
| T8120/01  | 12.5  | -   | 9.2     | 1276            | -    | 545  | -    | 731  | -    | 145   | -     | 200   | 5"    | 60          | -     | 36   | -    | 96    | -     |
| T8120/02  | 25    | 30  | 18.5/22 | 1666            | 1591 | 685  | 730  | 981  | 861  | 145   | 195   | 205   | 5"    | 88          | 121   | 47   | 50   | 135   | 171   |
| T8120/03  | 40    | 40  | 30      | 2016            | 1945 | 825  | 870  | 1191 | 1075 | 145   | 195   | 205   | 5"    | 112         | 142   | 59   | 61   | 171   | 203   |
| T8120/04  | 50    | 50  | 37      | 2236            | 2112 | 965  | 1010 | 1271 | 1102 | -     | 195   | 205   | 5"    | 114         | 148   | 70   | 73   | 184   | 221   |
| T8120/05  | -     | 70  | 52      | -               | 2302 | -    | 1150 | -    | 1152 | -     | 195   | 205   | 5"    | -           | 178   | -    | 85   | -     | 263   |
| T8120/06  | -     | 75  | 55      | -               | 2572 | -    | 1290 | -    | 1282 | -     | 195   | 205   | 5"    | -           | 183   | -    | 96   | -     | 279   |
| T8120/07  | -     | 90  | 66      | -               | 2823 | -    | 1430 | -    | 1393 | -     | 195   | 205   | 5"    | -           | 203   | -    | 108  | -     | 311   |
| T8120/08  | -     | 100 | 75      | -               | 3034 | -    | 1570 | -    | 1464 | -     | 195   | 205   | 5"    | -           | 217   | -    | 119  | -     | 336   |
| T8120/09  | -     | 110 | 81      | -               | 3245 | -    | 1710 | -    | 1535 | -     | 195   | 205   | 5"    | -           | 232   | -    | 131  | -     | 363   |
| T8120/10  | -     | 125 | 92      | -               | 3500 | -    | 1850 | -    | 1650 | -     | 195   | 205   | 5"    | -           | 256   | -    | 143  | -     | 399   |
| T8120/11  | -     | 150 | 110     | -               | 3834 | -    | 1990 | -    | 1844 | -     | 195   | 205   | 5"    | -           | 295   | -    | 154  | -     | 449   |
| T8120/12  | -     | 150 | 110     | -               | 3974 | -    | 2130 | -    | 1844 | -     | 195   | 205   | 5"    | -           | 295   | -    | 166  | -     | 461   |

| PUMP TYPE | MOTOR |     |         | m <sup>3</sup> /h | 0    | 72  | 75   | 84   | 90   | 96   | 105  | 120  | 135  | 150  | 165  | 180  |      |
|-----------|-------|-----|---------|-------------------|------|-----|------|------|------|------|------|------|------|------|------|------|------|
|           | 6"    | 8"  |         |                   |      |     |      |      |      |      |      |      |      |      |      |      |      |
|           | HP    | HP  | Kw      |                   | l/sn | 0.0 | 20.0 | 20.8 | 23.3 | 25.0 | 26.6 | 29.1 | 33.3 | 37.5 | 41.6 | 45.8 | 50.0 |
| T8120/01  | 12.5  | -   | 9.2     |                   | 27   | 23  | 22   | 22   | 21   | 20   | 19   | 18   | 16   | 14   | 10   | 5    |      |
| T8120/02  | 25    | 30  | 18.5/22 |                   | 54   | 45  | 45   | 43   | 42   | 41   | 40   | 36   | 33   | 28   | 21   | 11   |      |
| T8120/03  | 40    | 40  | 30      |                   | 83   | 70  | 69   | 67   | 65   | 64   | 62   | 56   | 51   | 44   | 32   | 18   |      |
| T8120/04  | 50    | 50  | 37      |                   | 109  | 92  | 91   | 87   | 85   | 83   | 80   | 73   | 66   | 56   | 41   | 23   |      |
| T8120/05  | -     | 70  | 52      | Head in Meters    | 133  | 114 | 112  | 107  | 105  | 102  | 97   | 89   | 79   | 67   | 50   | 28   |      |
| T8120/06  | -     | 75  | 55      |                   | 160  | 135 | 133  | 128  | 126  | 122  | 118  | 108  | 96   | 81   | 62   | 38   |      |
| T8120/07  | -     | 90  | 66      |                   | 188  | 157 | 154  | 150  | 147  | 143  | 139  | 128  | 112  | 96   | 75   | 51   |      |
| T8120/08  | -     | 100 | 75      |                   | 215  | 182 | 178  | 173  | 169  | 164  | 157  | 142  | 123  | 108  | 85   | 58   |      |
| T8120/09  | -     | 110 | 81      |                   | 233  | 201 | 197  | 194  | 191  | 185  | 178  | 160  | 139  | 126  | 100  | 74   |      |
| T8120/10  | -     | 125 | 92      |                   | 256  | 220 | 218  | 213  | 208  | 203  | 194  | 174  | 151  | 131  | 104  | 77   |      |
| T8120/11  | -     | 150 | 110     |                   | 277  | 239 | 238  | 231  | 226  | 221  | 209  | 188  | 163  | 135  | 110  | 82   |      |
| T8120/12  | -     | 150 | 110     |                   | 291  | 256 | 250  | 243  | 237  | 232  | 218  | 195  | 169  | 147  | 115  | 85   |      |

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TECHNICAL DATA NO: FPS T-8120