

# ULTRA HX

## Multistage Vertical



Stainless steel multistage vertical pumps. Suitable for clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.

### Construction features

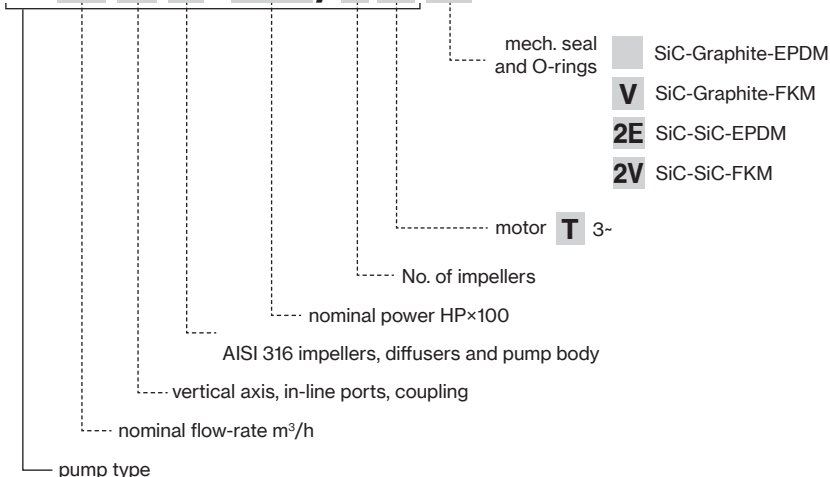
|                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| <b>Pump body</b>                               | EN 1.4401 / AISI 316                        |
| <b>Motor bracket</b>                           | cast iron                                   |
| <b>Impellers, diffusers, shell, pump shaft</b> | EN 1.4401 / AISI 316                        |
| <b>Mechanical seal</b>                         | silicon carbide-graphite-EPDM               |
| <b>Intermediate bush</b>                       | tungsten carbide                            |
| <b>Ambient temperature</b>                     | max 40 °C                                   |
| <b>Liquid temperature</b>                      | -15 ÷ +120 °C<br>(Max 85° for domestic use) |
| <b>Max operating pressure</b>                  | max 26 bar                                  |
| <b>Pump body gasket</b>                        | EPDM                                        |

### Motor

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>2 poles induction motor</b> | 3~ 230/400V - 50Hz P ≤ 4kW, size B14 V1<br>3~ 400/690V - 50Hz P > 4kW, size B5 V1<br>IE3 efficiency class |
| <b>Insulation class</b>        | F                                                                                                         |
| <b>Protection degree</b>       | IP55                                                                                                      |



**U 18 H X - 100 / 1 T - 2**

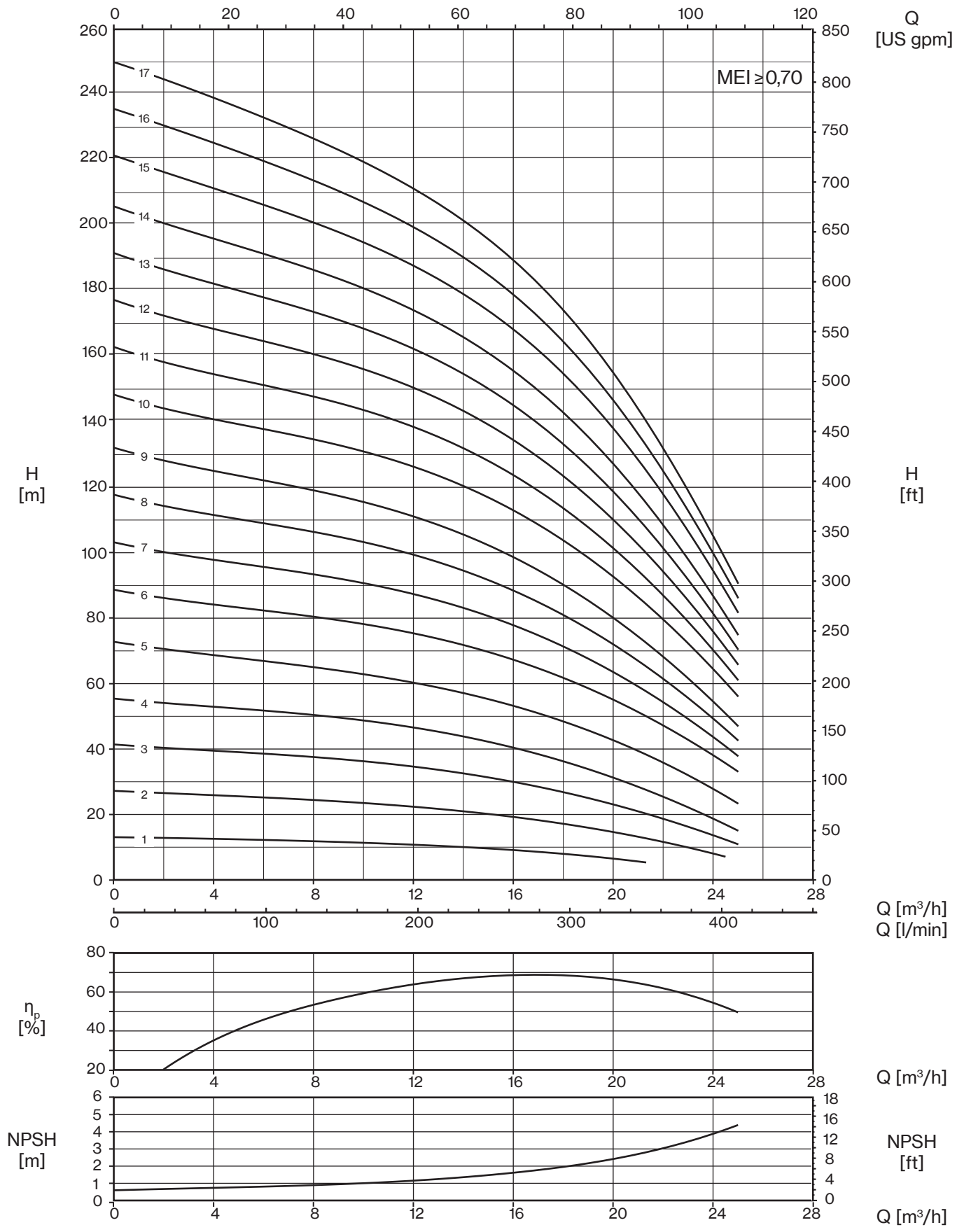


## ULTRA 18-22

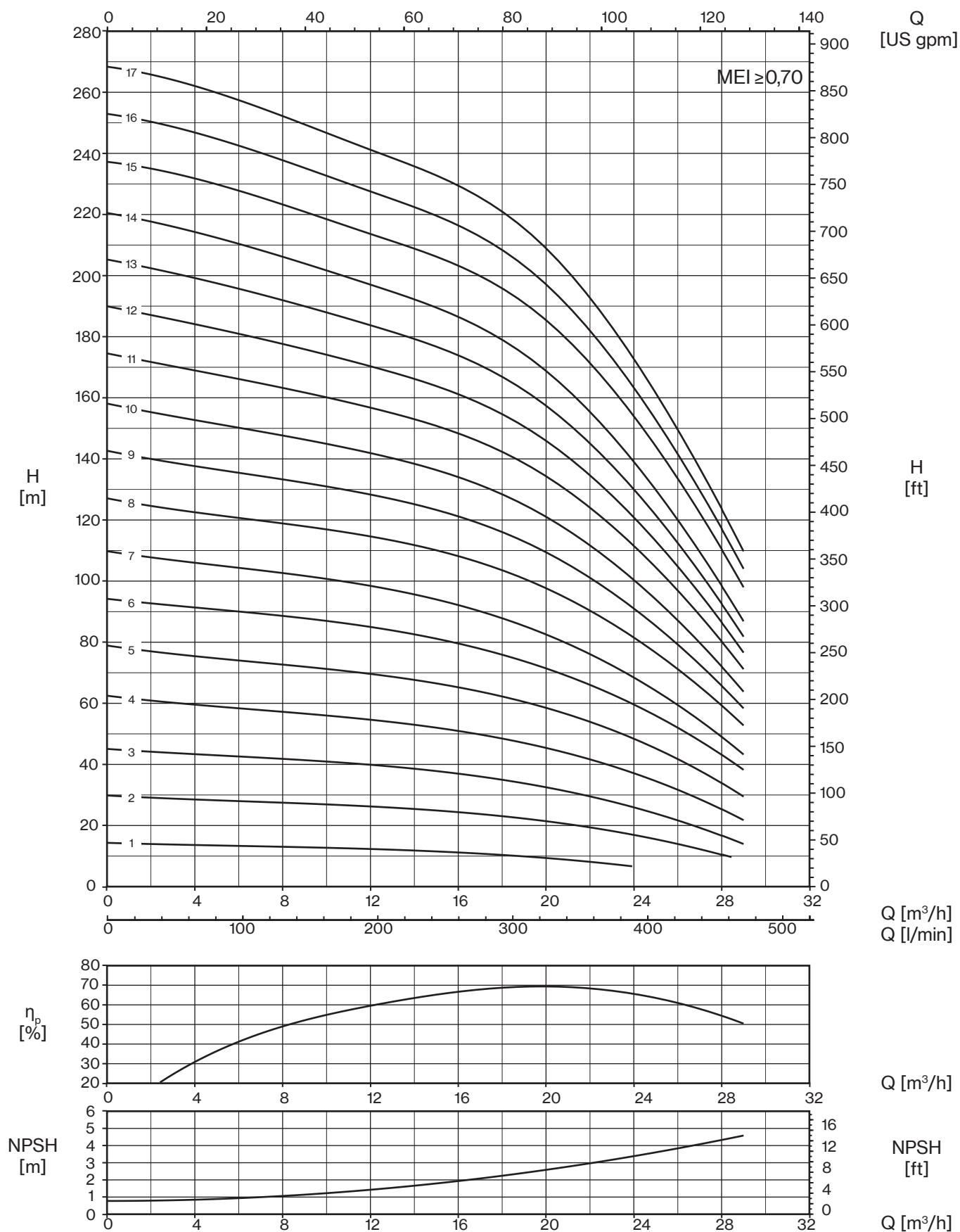
| TYPE - 50 Hz    | P2  |      | Q (l/min - m³/h - US gpm) |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-----|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |     |      | 0                         | 133,3 | 150   | 166,7 | 183,3 | 200   | 216,7 | 233,3 | 266,7 | 300   | 350   | 400   |
|                 |     |      | 0                         | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 16    | 18    | 21    | 24    |
|                 |     |      | 0                         | 35,2  | 39,6  | 44,0  | 48,4  | 52,8  | 57,2  | 61,6  | 70,3  | 79,1  | 92,3  | 105,5 |
| 3~              | HP  |      | H (m)                     |       |       |       |       |       |       |       |       |       |       |       |
|                 | kW  |      |                           |       |       |       |       |       |       |       |       |       |       |       |
| U 18HX-100/1T   | 1   | 0,75 | 13,0                      | 11,7  | 11,6  | 11,4  | 11,1  | 10,8  | 10,4  | 10,1  | 9,1   | 7,9   | 5,6   |       |
| U 18HX-200/2T   | 2   | 1,5  | 27,1                      | 24,3  | 23,9  | 23,5  | 22,9  | 22,3  | 21,7  | 21,1  | 19,3  | 17,2  | 13,1  | 8,0   |
| U 18HX-300/3T   | 3   | 2,2  | 41,2                      | 37,4  | 36,7  | 36,1  | 35,3  | 34,4  | 33,6  | 32,7  | 30,1  | 27,1  | 20,8  | 13,5  |
| U 18HX-400/4T   | 4   | 3    | 55,1                      | 50,2  | 49,3  | 48,5  | 47,5  | 46,3  | 45,2  | 44,0  | 40,6  | 36,6  | 28,2  | 18,5  |
| U 18HX-550/5T   | 5,5 | 4    | 72,3                      | 64,7  | 63,7  | 62,6  | 61,5  | 60,1  | 58,5  | 57,2  | 53,6  | 48,7  | 38,9  | 27,6  |
| U 18HX-750/6T   | 7,5 | 5,5  | 88,0                      | 80,1  | 78,9  | 77,7  | 76,4  | 74,9  | 73,3  | 71,7  | 68,0  | 62,4  | 51,3  | 37,5  |
| U 18HX-750/7T   | 7,5 | 5,5  | 102,5                     | 93,0  | 91,5  | 90,1  | 88,6  | 86,8  | 84,9  | 83,0  | 78,6  | 72,0  | 59,1  | 43,0  |
| U 18HX-1000/8T  | 10  | 7,5  | 116,9                     | 105,9 | 104,2 | 102,6 | 100,8 | 98,8  | 96,5  | 94,4  | 89,3  | 81,7  | 66,9  | 48,5  |
| U 18HX-1000/9T  | 10  | 7,5  | 131,2                     | 118,5 | 116,6 | 114,8 | 112,7 | 110,4 | 107,9 | 105,5 | 99,7  | 91,1  | 74,3  | 53,6  |
| U 18HX-1500/10T | 15  | 11   | 147,3                     | 134,1 | 132,1 | 130,1 | 127,9 | 125,5 | 122,8 | 120,2 | 114,1 | 104,8 | 86,3  | 63,4  |
| U 18HX-1500/11T | 15  | 11   | 161,7                     | 147,1 | 144,9 | 142,7 | 140,3 | 137,6 | 134,6 | 131,7 | 125,0 | 114,7 | 94,4  | 69,2  |
| U 18HX-1500/12T | 15  | 11   | 176,2                     | 160,0 | 157,6 | 155,2 | 152,6 | 149,6 | 146,3 | 143,2 | 135,7 | 124,5 | 102,3 | 74,8  |
| U 18HX-1500/13T | 15  | 11   | 190,6                     | 172,9 | 170,3 | 167,7 | 164,8 | 161,6 | 158,0 | 154,6 | 146,4 | 134,2 | 110,1 | 80,3  |
| U 18HX-1500/14T | 15  | 11   | 204,9                     | 185,7 | 182,9 | 180,0 | 176,9 | 173,4 | 169,5 | 165,9 | 157,0 | 143,8 | 117,8 | 85,7  |
| U 18HX-2000/15T | 20  | 15   | 220,7                     | 200,2 | 197,2 | 194,2 | 190,8 | 187,1 | 183,0 | 179,0 | 169,7 | 155,7 | 127,8 | 93,4  |
| U 18HX-2000/16T | 20  | 15   | 235,1                     | 213,1 | 209,8 | 206,6 | 203,0 | 199,0 | 194,6 | 190,4 | 180,3 | 165,3 | 135,6 | 98,9  |
| U 18HX-2000/17T | 20  | 15   | 249,4                     | 225,9 | 222,4 | 219,0 | 215,1 | 210,9 | 206,1 | 201,6 | 190,9 | 174,8 | 143,3 | 104,2 |

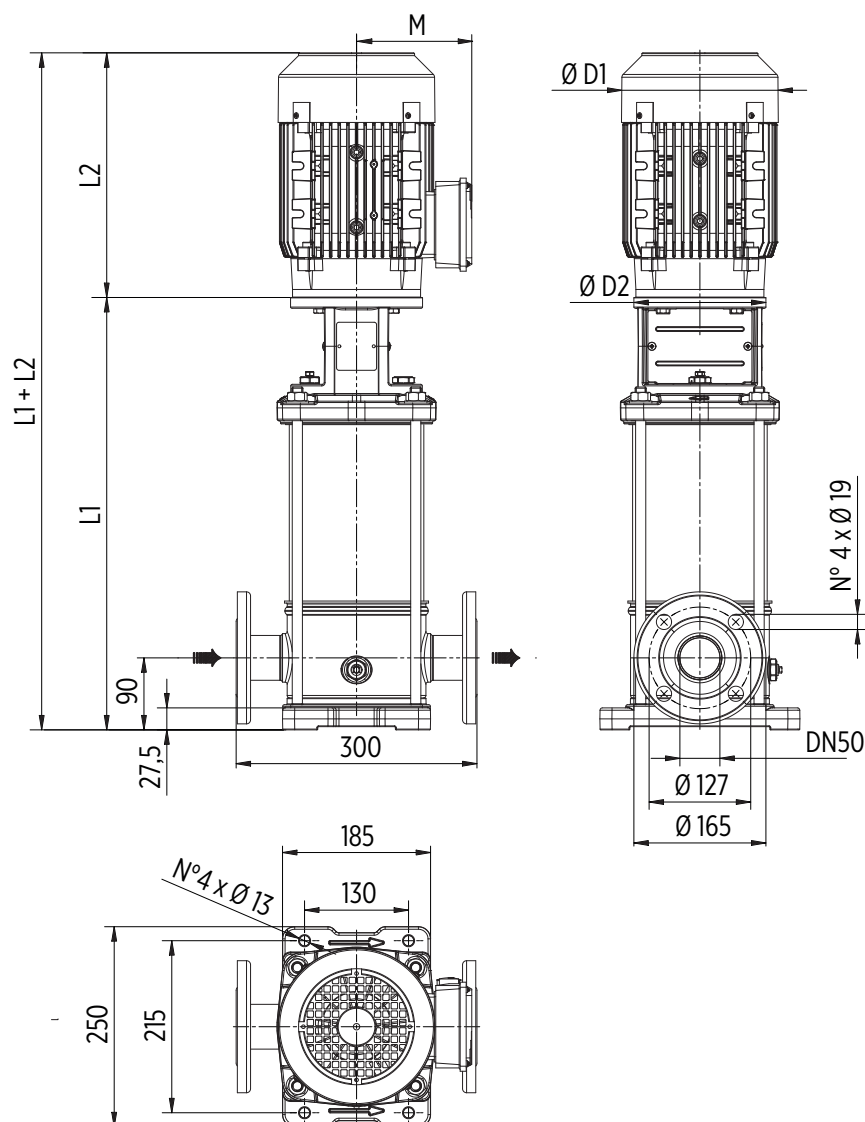
| TYPE - 50 Hz    | P2  |      | Q (l/min - m³/h - US gpm) |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-----|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |     |      | 0                         | 166,7 | 183,3 | 200   | 216,7 | 233,3 | 266,7 | 300   | 350   | 400   | 433,3 | 466,7 |
|                 |     |      | 0                         | 10    | 11    | 12    | 13    | 14    | 16    | 18    | 21    | 24    | 26    | 28    |
|                 |     |      | 0                         | 44,0  | 48,4  | 52,8  | 57,2  | 61,6  | 70,3  | 79,1  | 92,3  | 105,5 | 114,3 | 123,1 |
| 3~              | HP  |      | H (m)                     |       |       |       |       |       |       |       |       |       |       |       |
|                 | kW  |      |                           |       |       |       |       |       |       |       |       |       |       |       |
| U 22HX-200/1T   | 2   | 1,1  | 14,3                      | 12,9  | 12,8  | 12,5  | 12,2  | 11,9  | 11,4  | 10,5  | 9,0   | 6,7   | 4,0   |       |
| U 22HX-300/2T   | 3   | 2,2  | 29,7                      | 26,9  | 26,6  | 26,3  | 26,0  | 25,5  | 24,5  | 23,3  | 20,7  | 17,1  | 13,9  | 10,6  |
| U 22HX-400/3T   | 4   | 3    | 45,0                      | 40,9  | 40,4  | 39,9  | 39,2  | 38,5  | 37,2  | 35,5  | 31,6  | 25,8  | 21,5  | 16,6  |
| U 22HX-550/4T   | 5,5 | 4    | 62,2                      | 55,7  | 54,9  | 54,2  | 53,7  | 52,8  | 50,9  | 49,0  | 44,0  | 36,8  | 31,1  | 25,2  |
| U 22HX-750/5T   | 7,5 | 5,5  | 78,6                      | 70,8  | 69,9  | 69,0  | 68,5  | 67,4  | 65,1  | 62,8  | 56,9  | 47,9  | 41,0  | 33,5  |
| U 22HX-1000/6T  | 10  | 7,5  | 94,2                      | 86,2  | 85,1  | 84,1  | 83,2  | 82,2  | 79,7  | 77,3  | 70,0  | 59,4  | 51,3  | 42,0  |
| U 22HX-1000/7T  | 10  | 7,5  | 109,5                     | 99,8  | 98,5  | 97,4  | 96,3  | 95,1  | 92,2  | 89,2  | 80,6  | 68,2  | 58,7  | 47,9  |
| U 22HX-1500/8T  | 15  | 11   | 126,5                     | 116,1 | 114,7 | 113,5 | 112,3 | 111,0 | 107,9 | 104,8 | 95,4  | 81,4  | 70,7  | 58,3  |
| U 22HX-1500/9T  | 15  | 11   | 142,0                     | 130,2 | 128,6 | 127,2 | 125,9 | 124,4 | 120,8 | 117,3 | 106,7 | 90,8  | 78,7  | 64,8  |
| U 22HX-1500/10T | 15  | 11   | 157,5                     | 144,2 | 142,4 | 140,8 | 139,3 | 137,7 | 133,6 | 129,6 | 117,7 | 100,1 | 86,6  | 71,1  |
| U 22HX-2000/11T | 20  | 15   | 174,0                     | 159,4 | 157,4 | 155,7 | 154,1 | 152,3 | 147,9 | 143,5 | 130,5 | 111,2 | 96,4  | 79,3  |
| U 22HX-2000/12T | 20  | 15   | 189,5                     | 173,4 | 171,2 | 169,3 | 167,6 | 165,5 | 160,7 | 155,8 | 141,6 | 120,4 | 104,2 | 85,6  |
| U 22HX-2000/13T | 20  | 15   | 204,9                     | 187,3 | 184,9 | 182,8 | 180,9 | 178,7 | 173,4 | 168,1 | 152,5 | 129,5 | 111,9 | 91,7  |
| U 22HX-2000/14T | 20  | 15   | 220,3                     | 201,1 | 198,5 | 196,2 | 194,1 | 191,7 | 186,0 | 180,2 | 163,2 | 138,4 | 119,4 | 97,7  |
| U 22HX-2500/15T | 25  | 18,5 | 237,4                     | 218,1 | 215,4 | 213,1 | 211,0 | 208,6 | 202,6 | 196,8 | 179,4 | 153,1 | 133,0 | 109,7 |
| U 22HX-2500/16T | 25  | 18,5 | 252,9                     | 232,2 | 229,4 | 226,9 | 224,6 | 222,0 | 215,6 | 209,4 | 190,7 | 162,7 | 141,1 | 116,3 |
| U 22HX-2500/17T | 25  | 18,5 | 268,5                     | 246,3 | 243,3 | 240,6 | 238,2 | 235,4 | 228,6 | 221,9 | 202,0 | 172,1 | 149,2 | 122,8 |





## 22 HX

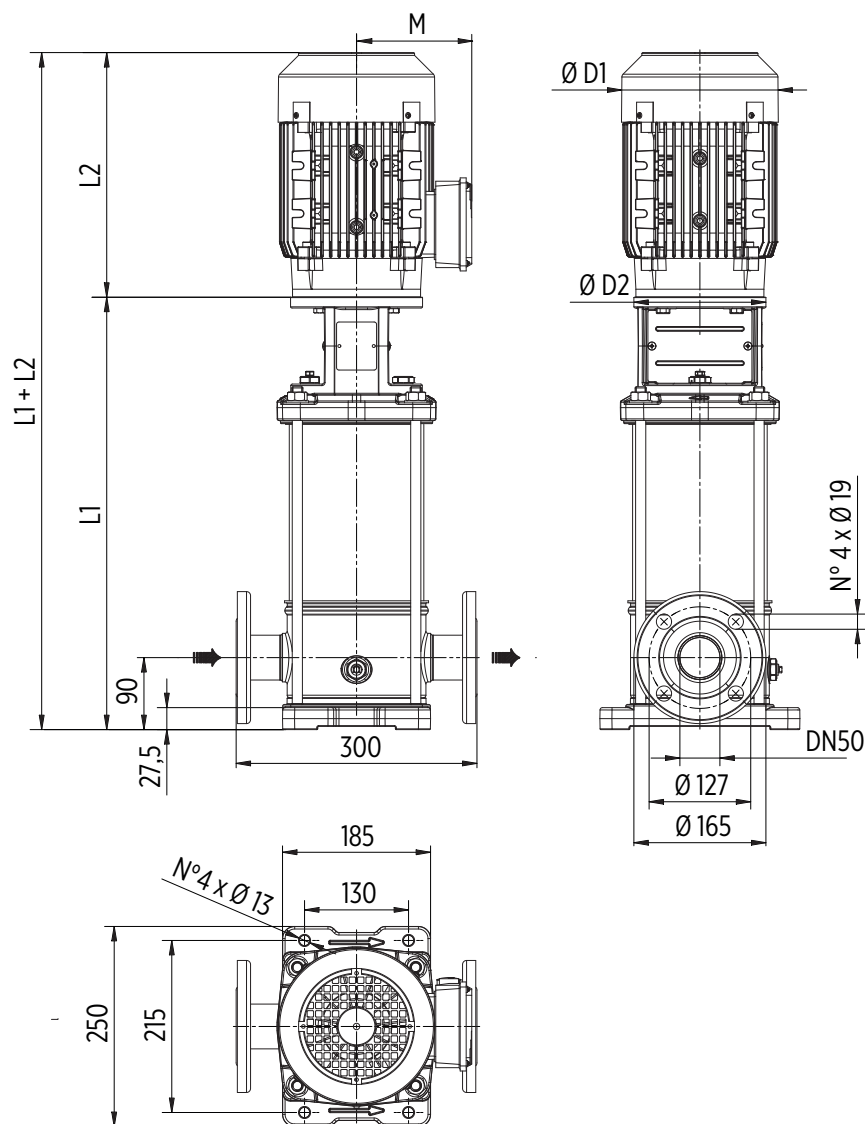




Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

| TYPE            | MOTOR |     | DIMENSIONS (mm) |     |     |     |     |       | Kg   |       |               |
|-----------------|-------|-----|-----------------|-----|-----|-----|-----|-------|------|-------|---------------|
|                 | kW    | Dim | L1              | L2  | M   | D1  | D2  | L1+L2 | Pump | Motor | Electric Pump |
| U 18HX-100/1T   | 0,75  | 80  | 396             | 243 | 130 | 157 | 170 | 639   | 19   | 17    | 36            |
| U 18HX-200/2T   | 1,5   | 90  | 396             | 280 | 145 | 177 | 170 | 676   | 20   | 23    | 43            |
| U 18HX-300/3T   | 2,2   | 90  | 444             | 308 | 145 | 177 | 170 | 752   | 21,5 | 26    | 47,5          |
| U 18HX-400/4T   | 3     | 100 | 492             | 333 | 157 | 205 | 170 | 825   | 22,5 | 35    | 57,5          |
| U 18HX-550/5T   | 4     | 112 | 540             | 350 | 177 | 220 | 170 | 890   | 24   | 43    | 67            |
| U 18HX-750/6T   | 5,5   | 132 | 800             | 400 | 197 | 256 | 300 | 1200  | 45,5 | 66    | 111,5         |
| U 18HX-750/7T   | 5,5   | 132 | 848             | 400 | 197 | 256 | 300 | 1248  | 46,5 | 66    | 112,5         |
| U 18HX-1000/8T  | 7,5   | 132 | 896             | 400 | 197 | 256 | 300 | 1296  | 48   | 73    | 121           |
| U 18HX-1000/9T  | 7,5   | 132 | 944             | 400 | 197 | 256 | 300 | 1344  | 49,5 | 73    | 122,5         |
| U 18HX-1500/10T | 11    | 160 | 1012            | 503 | 255 | 315 | 350 | 1515  | 54   | 120   | 174           |
| U 18HX-1500/11T | 11    | 160 | 1060            | 503 | 255 | 315 | 350 | 1563  | 55,5 | 120   | 175,5         |
| U 18HX-1500/12T | 11    | 160 | 1108            | 503 | 255 | 315 | 350 | 1611  | 57   | 120   | 177           |
| U 18HX-1500/13T | 11    | 160 | 1156            | 503 | 255 | 315 | 350 | 1659  | 58,5 | 120   | 178,5         |
| U 18HX-1500/14T | 11    | 160 | 1204            | 503 | 255 | 315 | 350 | 1707  | 60   | 120   | 180           |
| U 18HX-2000/15T | 15    | 160 | 1252            | 503 | 255 | 315 | 350 | 1755  | 61   | 132   | 193           |
| U 18HX-2000/16T | 15    | 160 | 1300            | 503 | 255 | 315 | 350 | 1803  | 62,5 | 132   | 194,5         |
| U 18HX-2000/17T | 15    | 160 | 1348            | 503 | 255 | 315 | 350 | 1851  | 64   | 132   | 196           |

## 22 HX



Round flanges on body type PN25/40: the pump is supplied without counterflanges (optional accessories, including bolts and joints)

| TYPE            | MOTOR |     | DIMENSIONS (mm) |     |     |     |     |       | Kg   |       |               |
|-----------------|-------|-----|-----------------|-----|-----|-----|-----|-------|------|-------|---------------|
|                 | kW    | Dim | L1              | L2  | M   | D1  | D2  | L1+L2 | Pump | Motor | Electric Pump |
| U 22HX-200/1T   | 1,1   | 80  | 396             | 243 | 130 | 157 | 170 | 639   | 19   | 18    | 37            |
| U 22HX-300/2T   | 2,2   | 90  | 396             | 308 | 145 | 177 | 170 | 704   | 20   | 26    | 46            |
| U 22HX-400/3T   | 3     | 100 | 444             | 333 | 157 | 205 | 170 | 777   | 21,5 | 35    | 56,5          |
| U 22HX-550/4T   | 4     | 112 | 492             | 350 | 177 | 220 | 170 | 842   | 22,5 | 43    | 65,5          |
| U 22HX-750/5T   | 5,5   | 132 | 752             | 400 | 197 | 256 | 300 | 1152  | 44   | 66    | 110           |
| U 22HX-1000/6T  | 7,5   | 132 | 800             | 400 | 197 | 256 | 300 | 1200  | 45,5 | 73    | 118,5         |
| U 22HX-1000/7T  | 7,5   | 132 | 848             | 400 | 197 | 256 | 300 | 1248  | 46,5 | 73    | 119,5         |
| U 22HX-1500/8T  | 11    | 160 | 916             | 503 | 255 | 315 | 350 | 1419  | 51,5 | 120   | 171,5         |
| U 22HX-1500/9T  | 11    | 160 | 964             | 503 | 255 | 315 | 350 | 1467  | 53   | 120   | 173           |
| U 22HX-1500/10T | 11    | 160 | 1012            | 503 | 255 | 315 | 350 | 1515  | 54,5 | 120   | 174,5         |
| U 22HX-2000/11T | 15    | 160 | 1060            | 503 | 255 | 315 | 350 | 1563  | 55,5 | 132   | 187,5         |
| U 22HX-2000/12T | 15    | 160 | 1108            | 503 | 255 | 315 | 350 | 1611  | 57   | 132   | 189           |
| U 22HX-2000/13T | 15    | 160 | 1156            | 503 | 255 | 315 | 350 | 1659  | 58,5 | 132   | 190,5         |
| U 22HX-2000/14T | 15    | 160 | 1204            | 503 | 255 | 315 | 350 | 1707  | 60   | 132   | 192           |
| U 22HX-2500/15T | 18,5  | 160 | 1252            | 598 | 252 | 315 | 350 | 1850  | 61,5 | 150   | 211,5         |
| U 22HX-2500/16T | 18,5  | 160 | 1300            | 598 | 252 | 315 | 350 | 1898  | 62,5 | 150   | 212,5         |
| U 22HX-2500/17T | 18,5  | 160 | 1348            | 598 | 252 | 315 | 350 | 1946  | 64   | 150   | 214           |

# ULTRA HS-HX Serie-Mechanical seal and bearings

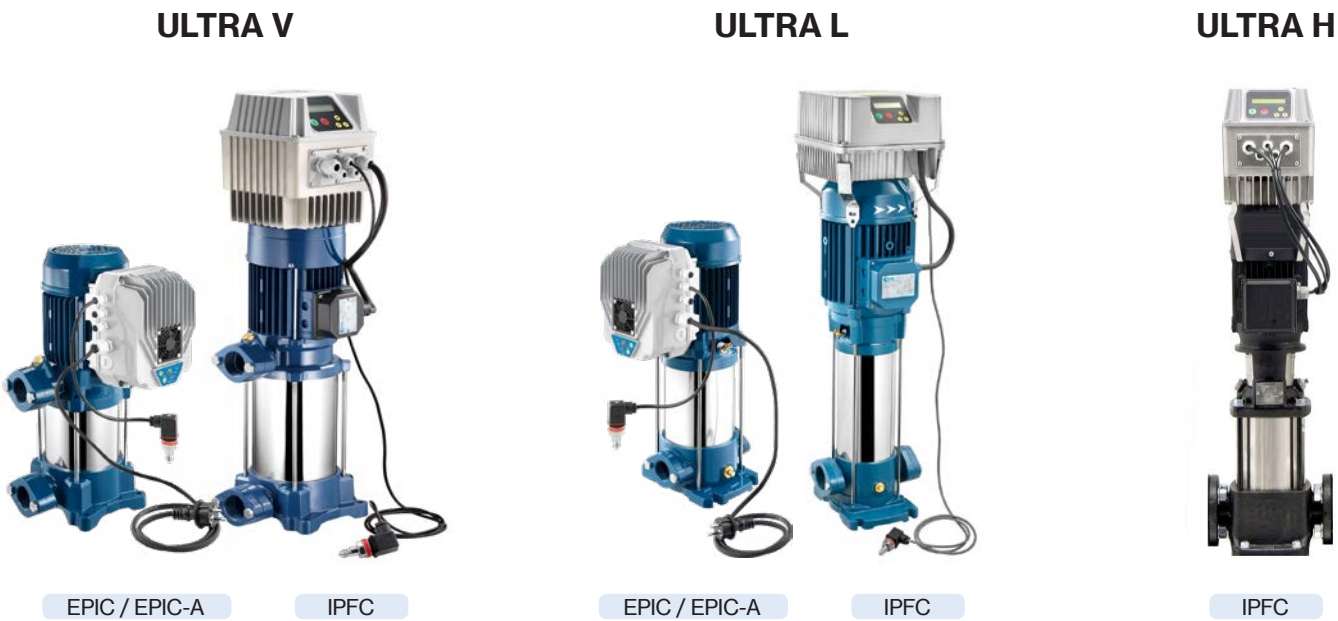
| CARTRIDGE MECHANICAL SEAL                                                         | PUMP MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SHAFT Ø                 |                                                                    | STANDARD MATERIAL       | OPTIONAL               |                    |                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|-------------------------|------------------------|--------------------|-------------------|
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                                                                    |                         | V                      | 2                  | 2V                |
|  | U18-100/1T, U18-200/2T, U18-300/3T, U18-400/4T, U18-550/5T, U18-750/6T, U18-750/7T, U18-1000/8T, U18-1000/9T, U18-1500/10T, U18-1500/11T, U18-1500/12T, U18-1500/13T, U18-1500/14T, U18-2000/15T, U18-2000/16T, U18-2000/17T, U22-150/1T, U22-300/2T, U22-400/3T, U22-550/4T, U22-750/5T, U22-1000/6T, U22-1000/7T, U22-1500/8T, U22-1500/9T, U22-1500/10T, U22-2000/11T, U22-2000/12T, U22-2000/13T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16mm                    | <b>Rotating face</b><br><b>Stationary face</b><br><b>Elastomer</b> | SiC<br>Graphite<br>EPDM | SiC<br>Graphite<br>FKM | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | U35-300/1T, U35-550/2-2RT, U35-550/2-1RT, U35-750/2T, U35-750/3-2RT, U35-1000/3-1RT, U35-1000/3T, U35-1000/4-2RT, U35-1500/4-1RT, U35-1500/4T, U35-1500/5-2RT, U35-1500/5-1RT, U35-2000/5T, U35-2000/6-2RT, U35-2000/6-1RT, U35-2000/6T, U35-2000/7-2RT, U35-2000/7-1RT, U35-2500/7T, U35-2500/8-2RT, U35-2500/8-1RT, U35-2500/8T, U35-3000/9-2RT, U35-3000/9-1RT, U35-3000/9T, U35-3000/10-2RT, U35-3000/10-1RT, U35-4000/10T, U35-4000/11-2RT, U35-4000/11-1RT, U35-4000/11T, U35-4000/12-2RT, U35-4000/12-1RT, U35-4000/12T, U35-4000/13-2RT, U35-4000/13-1RT, U35-4000/13T, U50-400/1-1RT, U50-550/1T, U50-750/2-2RT, U50-1000/2T, U50-1500/3-2RT, U50-1500/3T, U50-2000/4-2RT, U50-2000/4T, U50-2500/5-2RT, U50-2500/5T, U50-3000/6-2RT, U50-3000/6T, U50-4000/7-2RT, U50-4000/7T, U50-4000/8-2RT, U50-4000/8T, U50-5000/9-2RT, U50-5000/9T, U50-5000/10-2RT, U50-5000/10T, U50-6000/11-2RT, U50-6000/11T, U50-6000/12-2RT, U50-6000/12T, U75-550/1-1RT, U75-750/1T, U75-1000/2-2RT, U75-1500/2-1RT, U75-1500/2T, U75-2000/3-2RT, U75-2000/3-1RT, U75-2500/3T, U75-2500/4-2RT, U75-3000/4-1RT, U75-3000/4T, U75-4000/5-2RT, U75-4000/5-1RT, U75-4000/5T, U75-4000/6-2RT, U75-5000/6-1RT, U75-5000/6T, U75-5000/7-2RT, U75-5000/7-1RT, U75-6000/7T, U75-6000/8-2RT, U75-6000/8-1RT, U75-6000/8T, U90-750/1-1RT, U90-1000/1T, U90-1500/2-2RT, U90-2000/2T, U90-2500/3-2RT, U90-3000/3T, U90-4000/4-2RT, U90-4000/4T, U90-5000/5-2RT, U90-5000/5T, U90-6000/6-2RT, U90-6000/6T | 22mm /<br>Balanced seal | <b>Rotating face</b><br><b>Stationary face</b><br><b>Elastomer</b> | SiC<br>Graphite<br>EPDM | SiC<br>Graphite<br>FKM | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |

| BEARINGS                                                                            | PUMP MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PUMP THRUST BEARING |          | MOTOR BEARING |            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|---------------|------------|
|  | U18-100/1T, U22-150/1T                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                   | -        | 6204-ZZ C3    | 6204-ZZ C3 |
|                                                                                     | U18-200/2T, U18-300/3T, U22-300/2T, U35-300/1T                                                                                                                                                                                                                                                                                                                                                                                                                         | -                   | -        | 6205-ZZ C3    | 6205-ZZ C3 |
|                                                                                     | U18-400/4T, U18-550/5T, U22-400/3T, U22-550/4T, U35-550/2-2RT, U35-550/2-1RT, U50-400/1-1RT, U50-550/1T, U75-550/1-1RT                                                                                                                                                                                                                                                                                                                                                 | -                   | -        | 6206-ZZ C3    | 6206-ZZ C3 |
|                                                                                     | U18-750/6T, U18-750/7T, U18-1000/8T, U18-1000/9T, U22-750/5T, U22-1000/6T, U22-1000/7T, U35-750/2T, U35-750/3-2RT, U35-1000/3-1RT, U35-1000/3T, U35-1000/4-2RT, U50-750/2-2RT, U50-1000/2T, U75-750/1T, U75-1000/2-2RT, U90-750/1-1RT, U90-1000/1T                                                                                                                                                                                                                     | 6212 ZZ             | -        | 6208-ZZ C3    | 6208-ZZ C3 |
|                                                                                     | U18-1500/10T, U18-1500/11T, U18-1500/12T, U18-1500/13T, U18-1500/14T, U18-2000/15T, U18-2000/16T, U18-2000/17T, U22-1500/8T, U22-1500/9T, U22-1500/10T, U22-2000/11T, U22-2000/12T, U22-2000/13T, U22-2000/14T, U22-2500/15T, U22-2500/16T, U22-2500/17T, U35-1500/4-1RT, U35-1500/4T, U35-1500/5-2RT, U35-1500/5-1RT, U50-1500/3-2RT, U50-1500/3T, U75-1500/2-1RT, U75-1500/2T, U90-1500/2-2RT                                                                        |                     |          | 6309-ZZ C3    | 6309-ZZ C3 |
|                                                                                     | U35-2000/5T, U35-2000/6-2RT, U35-2000/6-1RT, U35-2000/6T, U35-2000/7-2RT, U35-2000/7-1RT, U35-2500/7T, U35-2500/8-2RT, U35-2500/8-1RT, U35-2500/8T, U50-2000/4-2RT, U50-2000/4T, U50-2500/5-2RT, U50-2500/5T, U75-2000/3-2RT, U75-2000/3-1RT, U75-2500/3T, U75-2500/4-2RT, U90-2000/2T, U90-2500/3-2RT                                                                                                                                                                 | 6212 ZZ             | 7212 BEP | 6311-ZZ C3    | 6311-ZZ C3 |
|                                                                                     | U35-3000/9-2RT, U35-3000/9-1RT, U35-3000/9T, U35-3000/10-2RT, U35-3000/10-1RT, U50-3000/6-2RT, U50-3000/6T, U75-3000/4-1RT, U75-3000/4T, U90-3000/3T                                                                                                                                                                                                                                                                                                                   | 6214 ZZ             | 7214 BEP | 6312-ZZ C3    | 6312-ZZ C3 |
|                                                                                     | U35-4000/10T, U35-4000/11-2RT, U35-4000/11-1RT, U35-4000/11T, U35-4000/12-2RT, U35-4000/12-1RT, U35-4000/12T, U35-4000/13-2RT, U35-4000/13-1RT, U35-4000/13T, U50-4000/7-2RT, U50-4000/7T, U50-4000/8-2RT, U50-4000/8T, U50-5000/9-2RT, U50-5000/9T, U50-5000/10-2RT, U50-5000/10T, U75-4000/5-2RT, U75-4000/5-1RT, U75-4000/5T, U75-4000/6-2RT, U75-5000/6-1RT, U75-5000/6T, U75-5000/7-2RT, U75-5000/7-1RT, U90-4000/4-2RT, U90-4000/4T, U90-5000/5-2RT, U90-5000/5T |                     |          | 6313-ZZ C3    | 6313-ZZ C3 |
|                                                                                     | U50-6000/11-2RT, U50-6000/11T, U50-6000/12-2RT, U50-6000/12T, U75-6000/7T, U75-6000/8-2RT, U75-6000/8-1RT, U75-6000/8T, U90-6000/6-2RT, U90-6000/6T                                                                                                                                                                                                                                                                                                                    |                     |          |               |            |



# ULTRA V/L/H + VSD

Vertical booster pump with variable speed drive



## DESCRIPTION

Vertical pump of ULTRA series provided with variable speed drive EPIC, EPIC-A or IPFC. This booster pump assures a desired pressure regardless of changes on flow demand making it suitable for low or missing pressure in residential systems and industrial applications. It is required the installation of a membrane tank downstream the system.

## FEATURES

- EPIC, EPIC-A or IPFC variable speed drive
- Three-phase vertical pump of ULTRA series
- Pressure sensor wired to the vsd
- Cable with plug for EPIC vsd only

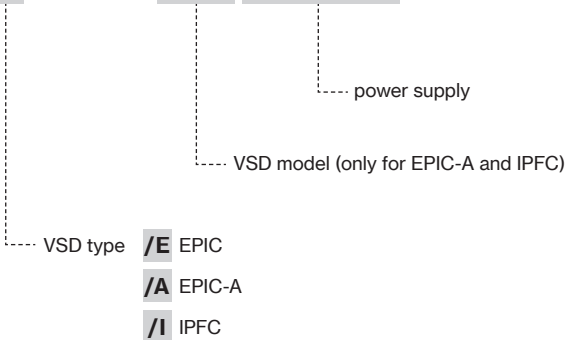
## FUNCTIONING

If the pressure in the network drops the pump will starts and gradually speeds up to provide with the set pressure. When the water demand decreases, the pressure will rise causing the pump speed to slow down and eventually to stop the pump if demand ceases. The pump will remain on standby waiting to start at the next water demand.

## SELECTION

The next table shows the vertical ULTRA pump models available for the assembly with EPIC, EPIC-A or IPFC. For pumps longer than 1.4m, IPFC is not assembled onto the motor fan cover but is supplied with a wall-mounting kit. Consult the catalog at the ULTRA series for pump specifics and characteristic curves.

**U3SL /A 100/5 T -304 3×400-50**





| 3- PUMP |          |         |    |   |        |    |          | VSD TYPE     |          |            |          |
|---------|----------|---------|----|---|--------|----|----------|--------------|----------|------------|----------|
| TYPE    |          | VERSION |    |   |        |    |          | Power supply |          |            |          |
|         |          | V       | SV | L | SL/SLX | LG | SLG/SLGX | 1-230V       |          | 3-400V     |          |
| U 3     | 100/5T   | ■       | ■  | ■ | ■      | -  | -        | EPIC         | IPFC 109 | EPIC-A 304 | IPFC 306 |
|         | 120/6T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 150/7T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 180/8T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 200/9T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 250/10T  | ■       | ■  | ■ | ■      | -  | -        | -            | IPFC 114 | EPIC-A 306 | IPFC 309 |
|         | 280/11T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 300/12T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 350/14T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 380/16T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 400/18T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 450/20T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
| U 5     | 120/4T   | ■       | ■  | ■ | ■      | -  | -        | EPIC         | IPFC 109 | EPIC-A 304 | IPFC 306 |
|         | 150/5T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 180/6T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 200/7T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 250/8T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 280/9T   | ■       | ■  | ■ | ■      | -  | -        | -            | IPFC 114 | EPIC-A 306 | IPFC 309 |
|         | 300/10T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 350/11T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 380/12T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 400/14T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 450/16T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 550/18T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 600/20T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
| U 7     | 180/4T   | ■       | ■  | ■ | ■      | -  | -        | EPIC         | IPFC 109 | EPIC-A 304 | IPFC 306 |
|         | 250/5T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 300/6T   | ■       | ■  | ■ | ■      | -  | -        | -            | IPFC 114 | EPIC-A 306 | IPFC 309 |
|         | 350/7T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 400/8T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 450/9T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 550/10T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 750/12T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 800/14T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 900/16T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 950/18T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 1000/20T | -       | -  | - | -      | -  | ■        |              |          |            |          |
| U 9     | 200/4T   | ■       | ■  | ■ | ■      | -  | -        | EPIC         | IPFC 109 | EPIC-A 304 | IPFC 306 |
|         | 250/5T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 300/6T   | ■       | ■  | ■ | ■      | -  | -        | -            | IPFC 114 | EPIC-A 306 | IPFC 309 |
|         | 400/7T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 450/8T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 500/9T   | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 550/10T  | ■       | ■  | ■ | ■      | -  | -        |              |          |            |          |
|         | 750/12T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 800/14T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 900/16T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 950/18T  | -       | -  | - | -      | -  | ■        |              |          |            |          |
|         | 1000/20T | -       | -  | - | -      | -  | ■        |              |          |            |          |

# ULTRA+VSD

| 3- PUMP |          |         |    |   |        |    |    |    | VSD TYPE     |            |          |          |
|---------|----------|---------|----|---|--------|----|----|----|--------------|------------|----------|----------|
| TYPE    |          | VERSION |    |   |        |    |    |    | Power supply |            |          |          |
|         |          | V       | SV | L | SL/SLX | LG | HS | HX | 1-230V       | 3-400V     |          |          |
| U 18    | 100/1T   | -       | -  | - | -      | -  | -  | ■  | IPFC 109     | EPIC-A 304 | IPFC 306 |          |
|         | 200/2T   | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 300/3T   | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 250/3T   | ■       | ■  | ■ | ■      | -  | -  | -  | IPFC 114     | EPIC-A 306 |          |          |
|         | 400/4T   | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 450/5T   | ■       | ■  | ■ | ■      | -  | -  | -  |              |            |          |          |
|         | 550/5T   | -       | -  | - | -      | -  | -  | ■  | -            | -          | IPFC 309 |          |
|         | 550/6T   | ■       | ■  | ■ | ■      | -  | -  | -  |              |            |          |          |
|         | 750/6T   | -       | -  | - | -      | -  | -  | ■  |              |            |          | IPFC 311 |
|         | 750/7T   | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 750/8T   | ■       | ■  | ■ | ■      | -  | -  | -  |              |            | IPFC 314 |          |
|         | 1000/8T  | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 1000/9T  | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 318 |          |
|         | 900/9T   | ■       | ■  | ■ | ■      | -  | -  | -  |              |            |          |          |
|         | 920/10T  | -       | -  | - | -      | ■  | -  | -  |              |            |          |          |
|         | 1000/11T | -       | -  | - | -      | ■  | -  | -  |              |            |          |          |
|         | 1500/10T | -       | -  | - | -      | -  | -  | ■  |              |            |          | IPFC 325 |
|         | 1500/11T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 1500/12T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 1500/13T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 1500/14T | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 330 |          |
|         | 2000/15T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 2000/16T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 2000/17T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
| U 22    | 200/1T   | -       | -  | - | -      | -  | -  | ■  | IPFC 109     | -          | IPFC 306 |          |
|         | 300/2T   | -       | -  | - | -      | -  | -  | ■  | IPFC 114     |            |          |          |
|         | 400/3T   | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 550/4T   | -       | -  | - | -      | -  | -  | ■  | -            |            | IPFC 309 |          |
|         | 750/5T   | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 311 |          |
|         | 1000/6T  | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 314 |          |
|         | 1000/7T  | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 318 |          |
|         | 1500/8T  | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 1500/9T  | -       | -  | - | -      | -  | -  | ■  |              |            | IPFC 325 |          |
|         | 1500/10T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 2000/11T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 2000/12T | -       | -  | - | -      | -  | -  | ■  |              |            |          | IPFC 330 |
|         | 2000/13T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |
|         | 2000/14T | -       | -  | - | -      | -  | -  | ■  |              |            |          |          |



| 3- PUMP |            |         |    |   |        |    |    |    | VSD TYPE     |          |
|---------|------------|---------|----|---|--------|----|----|----|--------------|----------|
| TYPE    |            | VERSION |    |   |        |    |    |    | Power supply |          |
|         |            | V       | SV | L | SL/SLX | LG | HS | HX | 1-230V       | 3-400V   |
| U 35    | 300/1T     | -       | -  | - | -      | -  | ■  | ■  | IPFC 114     | IPFC 306 |
|         | 550/2-2RT  | -       | -  | - | -      | -  | ■  | ■  | -            | IPFC 309 |
|         | 550/2-1RT  | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 311 |
|         | 750/2T     | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 314 |
|         | 750/3-2RT  | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 318 |
|         | 1000/3-1RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 325 |
|         | 1000/3T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 1000/4-2RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 330 |
|         | 1500/4-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 1500/4T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 1500/5-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 1500/5-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/5T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/6-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/6-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/6T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/7-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2000/7-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
| U 50    | 400/1-1RT  | -       | -  | - | -      | -  | ■  | ■  | IPFC 114     | IPFC 306 |
|         | 550/1T     | -       | -  | - | -      | -  | ■  | ■  | -            | IPFC 309 |
|         | 750/2-2RT  | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 311 |
|         | 1000/2T    | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 318 |
|         | 1500/3-2RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 325 |
|         | 1500/3T    | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 330 |
|         | 2000/4-2RT | -       | -  | - | -      | -  | ■  | ■  |              | -        |
|         | 2000/4T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2500/5-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2500/5T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 3000/6-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 3000/6T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 4000/7-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
| U 75    | 550/1-1RT  | -       | -  | - | -      | -  | ■  | ■  | -            | IPFC 309 |
|         | 750/1T     | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 311 |
|         | 1000/2-2RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 318 |
|         | 1500/2-1RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 325 |
|         | 1500/2T    | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 330 |
|         | 2000/3-2RT | -       | -  | - | -      | -  | ■  | ■  |              | -        |
|         | 2000/3-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2500/3T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 2500/4-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 3000/4-1RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 3000/4T    | -       | -  | - | -      | -  | ■  | ■  |              |          |
|         | 4000/5-2RT | -       | -  | - | -      | -  | ■  | ■  |              |          |
| U 90    | 750/1-1RT  | -       | -  | - | -      | -  | ■  | ■  | -            | IPFC 311 |
|         | 1000/1T    | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 318 |
|         | 1500/2-2RT | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 325 |
|         | 2000/2T    | -       | -  | - | -      | -  | ■  | ■  |              | IPFC 330 |