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# NOWEX

by EBARA Pumps Europe



## 4WN



### 4" BOREHOLE PUMPS



# 4WN

## 4" BOREHOLE PUMP



### MAIN CHARACTERISTICS

- Floating type impellers made of technopolymer, assuring maximum wear and abrasion resistance
- Glass fiber reinforced polycarbonate diffusers
- Impeller bowls in AISI 304
- Upper and lower supports made of precision-machined stainless steel for higher strength and durability
- Stainless steel non-return valve to prevent back flow of water and minimize water hammer
- Hexagonal stainless steel pump shaft
- Mounting specification according to NEMA standards
- High efficiency: all pumps are according to European Directive EuP 547/2012
- Materials are FDA compliant

### APPLICATIONS

- Water supply
- Fountains and water-works
- Pressure boosting
- Irrigation

### TECHNICAL SPECIFICATION

- Pumped medium: clean, non corrosive and non-abrasive liquid
- Max. permissible sand content: 50 g/m<sup>3</sup>
- Max. pump overall diameter: 98 mm  
(cable guard included)

### DISCHARGE SIZES

- Models from 4WN1 to 4WN4: Rp 1"¼
- Models 4WN5: Rp 1"½
- Models from 4WN6 to 4WN15: Rp 2"

### MOTORS

#### 4WN pumps can be fitted with:

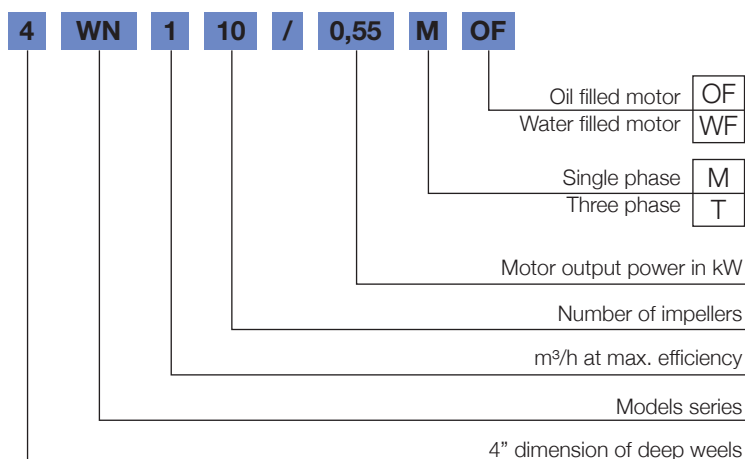
- 4" Oil Filled Rewindable Motors
- 4" Water Filled Motors

#### Both motor types are characterized by:

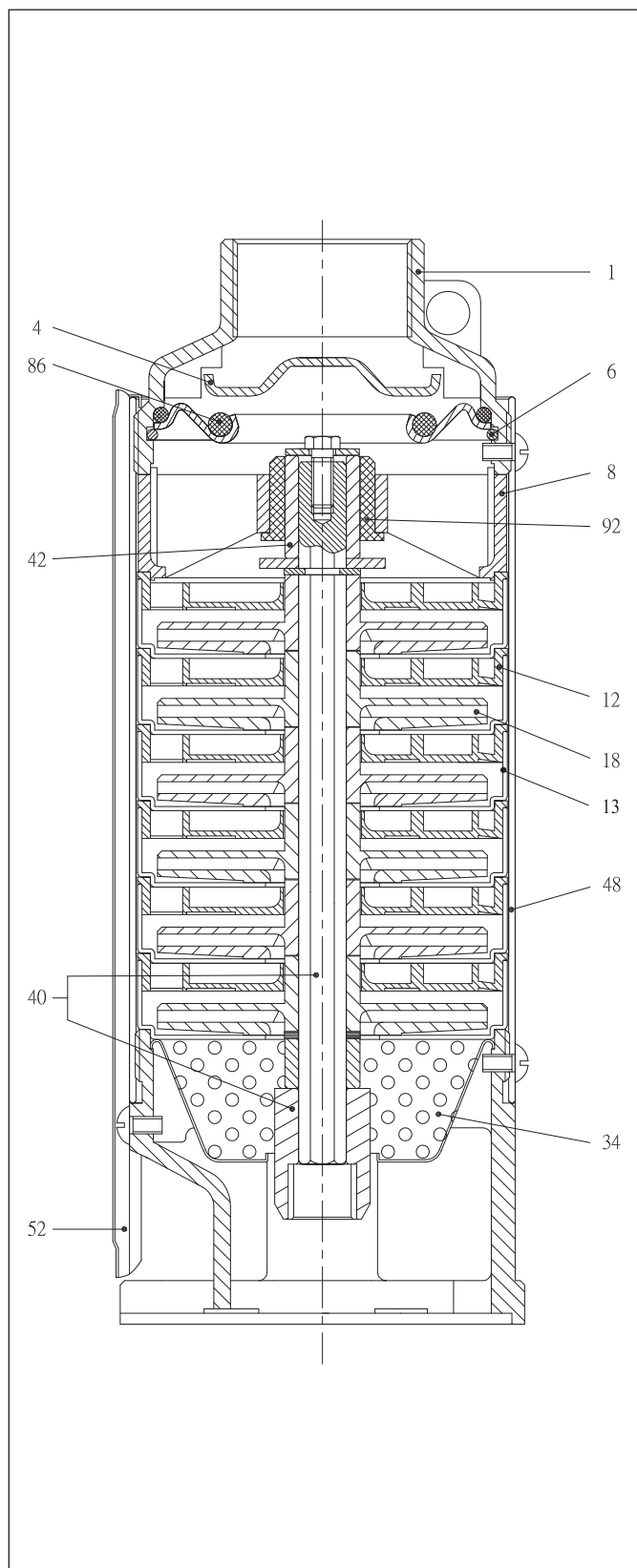
- Insulation class F
- Protection degree IP68
- Motor casing, shaft and bracket covers in AISI304/AISI303
- Removable cable connector
- Standard Voltages: 1~220-240V and 3~380-400V, 50 Hz, 2 poles
- Maximum ambient (liquid) temperature: 35 °C with at least 0,08 m/s of water flow speed
- Maximum immersion depth: 150 m
- Maximum motor starting per hour: 30



#### TYPE KEY (Electropump)

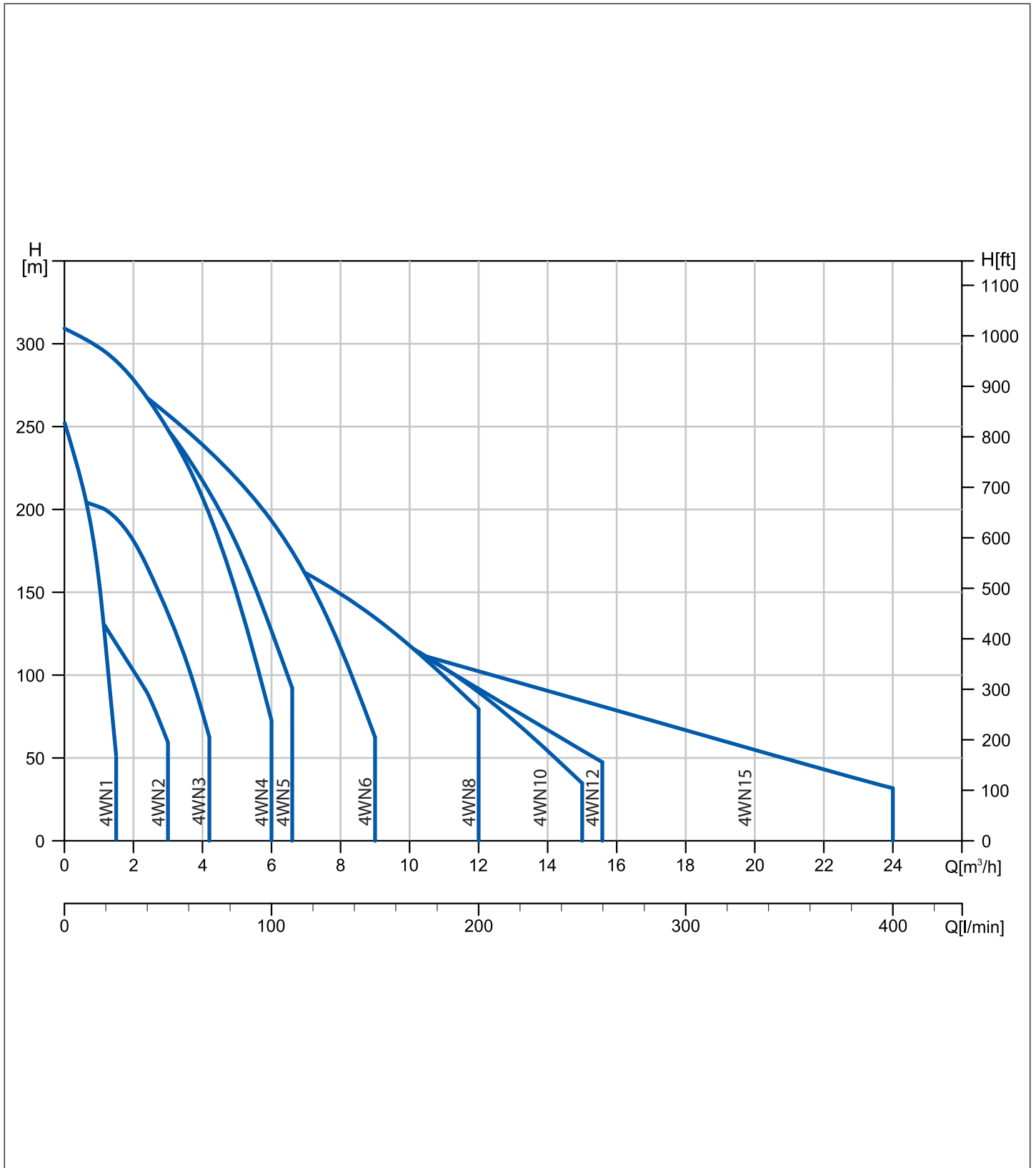


## MATERIAL SPECIFICATION



| Pos. | Part Name                  | Material                   |
|------|----------------------------|----------------------------|
| 1    | Discharge Head             | AISI 304 SS                |
| 4    | Check Valve Cone           | AISI 304 SS                |
| 6    | Check Valve retaining Ring | AISI 304 SS                |
| 8    | Bearing Spider             | Glass Filled Polycarbonate |
| 12   | Diffuser                   | Glass Filled Polycarbonate |
| 13   | Bowl                       | AISI 304 SS                |
| 18   | Impeller                   | Noryl34                    |
| 34   | Strainer                   | AISI 304 SS                |
| 40   | Pump Shaft/Coupling        | AISI 304 SS                |
| 42   | Shaft Sleeve               | AISI 304 SS or Noryl       |
| 48   | Pump casing                | AISI 304 SS                |
| 52   | Cable Guard                | AISI 304 SS                |
| 86   | O-Ring                     | NBR                        |
| 92   | Bearing                    | Polyacetal                 |

## PERFORMANCE RANGE

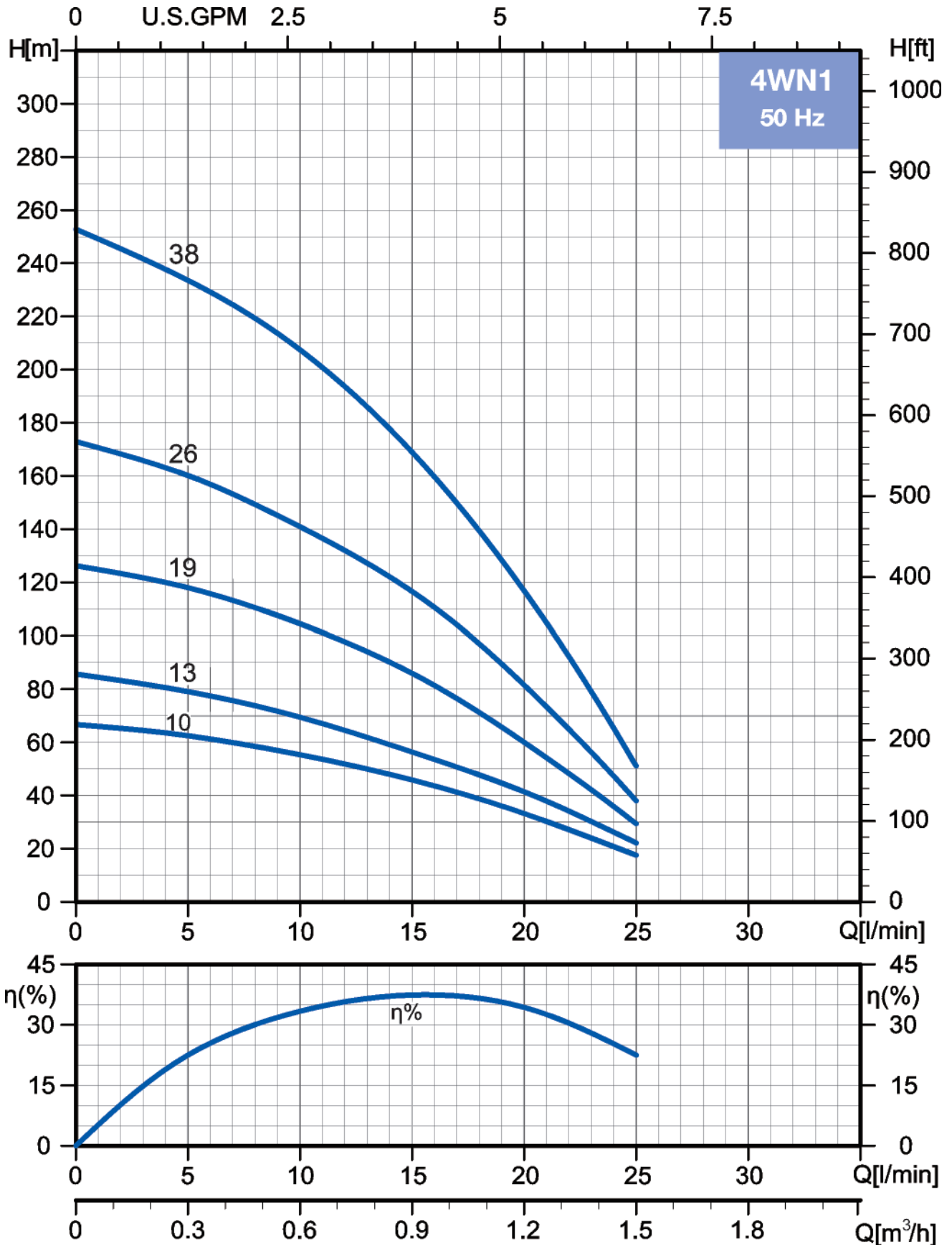


## SELECTION CHART

| Type    | Stages | Motor                    |      | l/min<br>m³/h | Q = Flow Rate |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|--------|--------------------------|------|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         |        |                          |      |               | 0             | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 60  | 70  | 80  | 90  | 100 |
|         |        | 0                        | 0,3  |               | 0,6           | 0,9 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 2,7 | 3,0 | 3,6 | 4,2 | 4,8 | 5,4 | 6,0 |     |     |
|         |        | H = Total head in meters |      |               |               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4WN1-10 | 10     | 0,37                     | 0,50 | 67            | 63            | 55  | 46  | 33  | 18  |     |     |     |     |     |     |     |     |     |     |     |
| 4WN1-13 | 13     | 0,37                     | 0,50 | 86            | 78            | 70  | 56  | 42  | 23  |     |     |     |     |     |     |     |     |     |     |     |
| 4WN1-19 | 19     | 0,55                     | 0,75 | 126           | 118           | 105 | 86  | 60  | 30  |     |     |     |     |     |     |     |     |     |     |     |
| 4WN1-26 | 26     | 0,75                     | 1,00 | 173           | 160           | 141 | 117 | 81  | 39  |     |     |     |     |     |     |     |     |     |     |     |
| 4WN1-38 | 38     | 1,10                     | 1,50 | 253           | 234           | 208 | 169 | 117 | 52  |     |     |     |     |     |     |     |     |     |     |     |
| 4WN2-5  | 5      | 0,37                     | 0,50 | 34            |               |     | 32  | 31  | 29  | 27  | 25  | 23  | 19  | 16  |     |     |     |     |     |     |
| 4WN2-7  | 7      | 0,37                     | 0,50 | 46            |               |     | 43  | 42  | 39  | 36  | 33  | 29  | 26  | 22  |     |     |     |     |     |     |
| 4WN2-10 | 10     | 0,55                     | 0,75 | 67            |               |     | 64  | 61  | 58  | 54  | 49  | 43  | 36  | 28  |     |     |     |     |     |     |
| 4WN2-14 | 14     | 0,75                     | 1,00 | 92            |               |     | 86  | 83  | 79  | 74  | 67  | 60  | 52  | 42  |     |     |     |     |     |     |
| 4WN2-20 | 20     | 1,10                     | 1,50 | 139           |               |     | 131 | 127 | 120 | 111 | 101 | 90  | 75  | 60  |     |     |     |     |     |     |
| 4WN3-5  | 5      | 0,37                     | 0,50 | 34            |               |     |     | 32  | 31  | 30  | 29  | 27  | 25  | 23  | 18  | 11  |     |     |     |     |
| 4WN3-8  | 8      | 0,55                     | 0,75 | 54            |               |     |     | 51  | 50  | 49  | 46  | 43  | 41  | 38  | 30  | 19  |     |     |     |     |
| 4WN3-11 | 11     | 0,75                     | 1,00 | 72            |               |     |     | 68  | 66  | 64  | 61  | 58  | 54  | 49  | 38  | 26  |     |     |     |     |
| 4WN3-16 | 16     | 1,10                     | 1,50 | 106           |               |     |     | 101 | 98  | 95  | 89  | 83  | 77  | 70  | 54  | 33  |     |     |     |     |
| 4WN3-21 | 21     | 1,50                     | 2,00 | 142           |               |     |     | 135 | 132 | 127 | 122 | 115 | 108 | 100 | 79  | 49  |     |     |     |     |
| 4WN3-32 | 32     | 2,20                     | 3,00 | 208           |               |     |     | 200 | 194 | 187 | 177 | 165 | 152 | 138 | 104 | 62  |     |     |     |     |
| 4WN4-5  | 5      | 0,37                     | 0,50 | 33            |               |     |     |     | 29  | 28  | 27  | 26  | 25  | 24  | 21  | 18  | 13  | 8   | 3   |     |
| 4WN4-7  | 7      | 0,55                     | 0,75 | 46            |               |     |     |     | 43  | 42  | 41  | 39  | 38  | 36  | 33  | 28  | 22  | 15  | 7   |     |
| 4WN4-9  | 9      | 0,75                     | 1,00 | 59            |               |     |     |     | 55  | 54  | 52  | 51  | 49  | 47  | 43  | 37  | 28  | 20  | 10  |     |
| 4WN4-14 | 14     | 1,10                     | 1,50 | 93            |               |     |     |     | 87  | 86  | 83  | 81  | 79  | 76  | 68  | 58  | 47  | 33  | 20  |     |
| 4WN4-18 | 18     | 1,50                     | 2,00 | 120           |               |     |     |     | 113 | 111 | 108 | 105 | 102 | 98  | 88  | 75  | 60  | 42  | 25  |     |
| 4WN4-27 | 27     | 2,20                     | 3,00 | 175           |               |     |     |     | 164 | 161 | 157 | 152 | 147 | 141 | 127 | 109 | 87  | 61  | 35  |     |
| 4WN4-35 | 35     | 3,00                     | 4,00 | 228           |               |     |     |     | 212 | 208 | 203 | 197 | 191 | 184 | 166 | 145 | 119 | 85  | 46  |     |
| 4WN4-44 | 44     | 3,70                     | 5,00 | 282           |               |     |     |     | 261 | 255 | 249 | 241 | 233 | 223 | 201 | 173 | 140 | 99  | 52  |     |
| 4WN4-48 | 48     | 4,00                     | 5,50 | 309           |               |     |     |     | 289 | 283 | 276 | 267 | 258 | 248 | 225 | 197 | 162 | 120 | 73  |     |
| 4WN5-4  | 4      | 0,37                     | 0,50 | 26            |               |     |     |     |     |     |     | 23  | 22  | 22  | 21  | 19  | 17  | 14  | 11  | 7   |
| 4WN5-6  | 6      | 0,55                     | 0,75 | 38            |               |     |     |     |     |     |     | 36  | 35  | 33  | 32  | 30  | 26  | 22  | 18  | 12  |
| 4WN5-8  | 8      | 0,75                     | 1,00 | 51            |               |     |     |     |     |     |     | 47  | 46  | 44  | 43  | 39  | 35  | 30  | 24  | 18  |
| 4WN5-12 | 12     | 1,10                     | 1,50 | 77            |               |     |     |     |     |     |     | 72  | 71  | 69  | 68  | 63  | 57  | 49  | 41  | 31  |
| 4WN5-16 | 16     | 1,50                     | 2,00 | 102           |               |     |     |     |     |     |     | 98  | 96  | 94  | 92  | 86  | 77  | 68  | 57  | 46  |
| 4WN5-24 | 24     | 2,20                     | 3,00 | 151           |               |     |     |     |     |     |     | 142 | 139 | 136 | 132 | 122 | 111 | 97  | 80  | 62  |
| 4WN5-32 | 32     | 3,00                     | 4,00 | 203           |               |     |     |     |     |     |     | 188 | 185 | 180 | 175 | 162 | 146 | 127 | 105 | 80  |
| 4WN5-40 | 40     | 3,70                     | 5,00 | 253           |               |     |     |     |     |     |     | 232 | 227 | 222 | 216 | 202 | 182 | 159 | 131 | 102 |
| 4WN5-44 | 44     | 4,00                     | 5,50 | 278           |               |     |     |     |     |     |     | 265 | 260 | 254 | 247 | 230 | 210 | 187 | 159 | 127 |

## SELECTION CHART

| Type     | Stages | Motor                    |       | l/min | Q = Flow Rate |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
|----------|--------|--------------------------|-------|-------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|----|----|--|--|--|--|--|--|
|          |        |                          |       |       |               |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
|          |        | kW                       |       |       | HP            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
|          |        |                          |       |       |               |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
|          |        | m³/h                     | 0     | 45    | 50            | 60  | 70  | 80  | 90  | 100 | 120 | 140 | 160 | 180  | 200  | 220  | 240  | 260  | 280  | 300  | 320  | 340  | 360  | 380  | 400  |    |    |  |  |  |  |  |  |
|          |        |                          | 0     | 2,7   | 3,0           | 3,6 | 4,2 | 4,8 | 5,4 | 6,0 | 7,2 | 8,4 | 9,6 | 10,8 | 12,0 | 13,2 | 14,4 | 15,6 | 16,8 | 18,0 | 19,2 | 20,4 | 21,6 | 22,8 | 24,0 |    |    |  |  |  |  |  |  |
|          |        | H = Total head in meters |       |       |               |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-7   | 7      | 0,75                     | 1,00  | 42    |               | 36  | 34  | 32  | 30  | 28  | 25  | 19  | 11  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-10  | 10     | 1,10                     | 1,50  | 62    |               | 53  | 51  | 48  | 45  | 41  | 38  | 29  | 18  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-14  | 14     | 1,50                     | 2,00  | 90    |               | 77  | 74  | 71  | 68  | 63  | 59  | 46  | 28  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-20  | 20     | 2,20                     | 3,00  | 125   |               | 107 | 102 | 97  | 92  | 86  | 80  | 62  | 40  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-27  | 27     | 3,00                     | 4,00  | 169   |               | 145 | 139 | 131 | 123 | 115 | 107 | 84  | 55  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-34  | 34     | 3,70                     | 5,00  | 208   |               | 178 | 170 | 162 | 153 | 143 | 132 | 103 | 66  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-36  | 36     | 4,00                     | 5,50  | 221   |               | 190 | 181 | 173 | 164 | 154 | 143 | 112 | 72  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN6-49  | 49     | 5,50                     | 7,50  | 302   |               | 257 | 246 | 234 | 222 | 209 | 193 | 151 | 96  |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-4   | 4      | 0,75                     | 1,00  | 26    |               |     |     |     | 23  | 22  | 21  | 20  | 18  | 16   | 12   | 9    |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-6   | 6      | 1,10                     | 1,50  | 38    |               |     |     |     | 35  | 34  | 33  | 31  | 28  | 24   | 19   | 14   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-8   | 8      | 1,50                     | 2,00  | 52    |               |     |     |     | 47  | 45  | 44  | 41  | 37  | 31   | 25   | 18   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-13  | 13     | 2,20                     | 3,00  | 82    |               |     |     |     | 75  | 73  | 71  | 66  | 59  | 50   | 40   | 30   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-17  | 17     | 3,00                     | 4,00  | 108   |               |     |     |     | 98  | 96  | 94  | 87  | 79  | 70   | 58   | 46   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-21  | 21     | 3,70                     | 5,00  | 132   |               |     |     |     | 117 | 114 | 111 | 103 | 93  | 82   | 68   | 52   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-23  | 23     | 4,00                     | 5,50  | 148   |               |     |     |     | 134 | 131 | 127 | 118 | 108 | 95   | 79   | 60   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN8-32  | 32     | 5,50                     | 7,50  | 202   |               |     |     |     | 182 | 178 | 172 | 160 | 143 | 125  | 105  | 80   |      |      |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-7  | 7      | 1,10                     | 1,50  | 41    |               |     |     |     | 35  | 34  | 33  | 32  | 29  | 26   | 23   | 18   | 14   | 8    |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-10 | 10     | 1,50                     | 2,00  | 58    |               |     |     |     | 49  | 48  | 47  | 44  | 41  | 37   | 32   | 27   | 20   | 13   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-14 | 14     | 2,20                     | 3,00  | 83    |               |     |     |     | 71  | 69  | 67  | 63  | 58  | 54   | 48   | 40   | 31   | 20   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-18 | 18     | 3,00                     | 4,00  | 107   |               |     |     |     | 92  | 90  | 87  | 83  | 77  | 70   | 62   | 52   | 39   | 26   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-22 | 22     | 3,70                     | 5,00  | 131   |               |     |     |     | 110 | 107 | 104 | 98  | 91  | 82   | 71   | 58   | 45   | 30   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-24 | 24     | 4,00                     | 5,50  | 141   |               |     |     |     | 118 | 116 | 113 | 106 | 97  | 88   | 77   | 63   | 49   | 33   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN10-32 | 32     | 5,50                     | 7,50  | 189   |               |     |     |     | 162 | 157 | 153 | 144 | 134 | 122  | 107  | 90   | 70   | 47   |      |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-7  | 7      | 1,50                     | 2,00  | 45    |               |     |     |     |     |     | 37  | 36  | 33  | 31   | 28   | 25   | 22   | 18   | 14   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-10 | 10     | 2,20                     | 3,00  | 64    |               |     |     |     |     |     | 54  | 52  | 48  | 44   | 41   | 36   | 32   | 26   | 20   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-14 | 14     | 3,00                     | 4,00  | 89    |               |     |     |     |     |     | 76  | 72  | 67  | 62   | 56   | 49   | 43   | 35   | 28   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-17 | 17     | 3,70                     | 5,00  | 107   |               |     |     |     |     |     | 90  | 86  | 80  | 74   | 67   | 59   | 51   | 42   | 32   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-19 | 19     | 4,00                     | 5,50  | 120   |               |     |     |     |     |     | 102 | 97  | 91  | 89   | 76   | 68   | 58   | 48   | 37   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-26 | 26     | 5,50                     | 7,50  | 163   |               |     |     |     |     |     | 136 | 129 | 120 | 111  | 100  | 87   | 75   | 61   | 48   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN12-38 | 38     | 7,50                     | 10,00 | 239   |               |     |     |     |     |     | 202 | 192 | 182 | 168  | 150  | 133  | 115  | 95   | 70   |      |      |      |      |      |      |    |    |  |  |  |  |  |  |
| 4WN15-8  | 8      | 2,20                     | 3,00  | 49    |               |     |     |     |     |     |     |     |     | 39   | 38   | 36   | 34   | 32   | 30   | 28   | 25   | 23   | 20   | 18   | 15   | 12 | 9  |  |  |  |  |  |  |
| 4WN15-11 | 11     | 3,00                     | 4,00  | 67    |               |     |     |     |     |     |     |     |     | 55   | 53   | 50   | 48   | 45   | 42   | 39   | 36   | 33   | 30   | 27   | 23   | 20 | 16 |  |  |  |  |  |  |
| 4WN15-13 | 13     | 3,70                     | 5,00  | 79    |               |     |     |     |     |     |     |     |     | 65   | 62   | 59   | 56   | 53   | 50   | 47   | 43   | 40   | 36   | 32   | 28   | 24 | 20 |  |  |  |  |  |  |
| 4WN15-15 | 15     | 4,00                     | 5,50  | 93    |               |     |     |     |     |     |     |     |     | 76   | 73   | 70   | 66   | 62   | 59   | 55   | 51   | 47   | 43   | 39   | 34   | 29 | 25 |  |  |  |  |  |  |
| 4WN15-20 | 20     | 5,50                     | 7,50  | 122   |               |     |     |     |     |     |     |     |     | 99   | 95   | 90   | 86   | 81   | 76   | 72   | 67   | 61   | 56   | 50   | 44   | 38 | 32 |  |  |  |  |  |  |
| 4WN15-26 | 26     | 7,50                     | 10,00 | 158   |               |     |     |     |     |     |     |     |     | 128  | 122  | 115  | 111  | 105  | 100  | 95   | 90   | 85   | 80   | 72   | 67   | 56 | 49 |  |  |  |  |  |  |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A] |                       | Q = Flow Rate |     |     |     |     |     |     |
|---------|---------------|---------------|---------------------|-----------------------|------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled motor | Water filled<br>motor | m³/h          | 0   | 0,3 | 0,6 | 0,9 | 1,2 | 1,5 |
|         |               |               |                     |                       |                  |                       | l/min         | 0   | 5   | 10  | 15  | 20  | 25  |
| 4WN1-10 | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6              | 1,2                   | H = Head [m]  | 67  | 63  | 55  | 46  | 33  | 18  |
| 4WN1-13 | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6              | 1,2                   |               | 86  | 78  | 70  | 56  | 42  | 23  |
| 4WN1-19 | 0,55          | 0,75          | 4,5                 | 4,4                   | 2,0              | 1,7                   |               | 126 | 118 | 105 | 86  | 60  | 30  |
| 4WN1-26 | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6              | 2,2                   |               | 173 | 160 | 141 | 117 | 81  | 39  |
| 4WN1-38 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4              | 3                     |               | 253 | 234 | 208 | 169 | 117 | 52  |

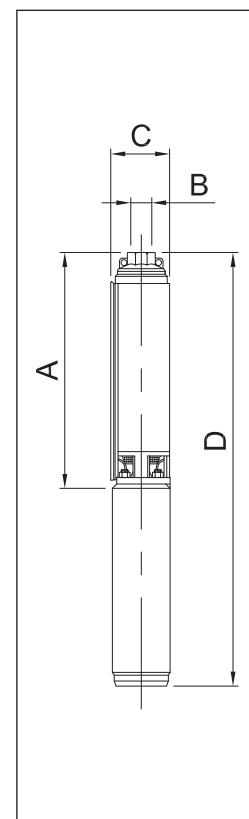
### DIMENSION TABLE

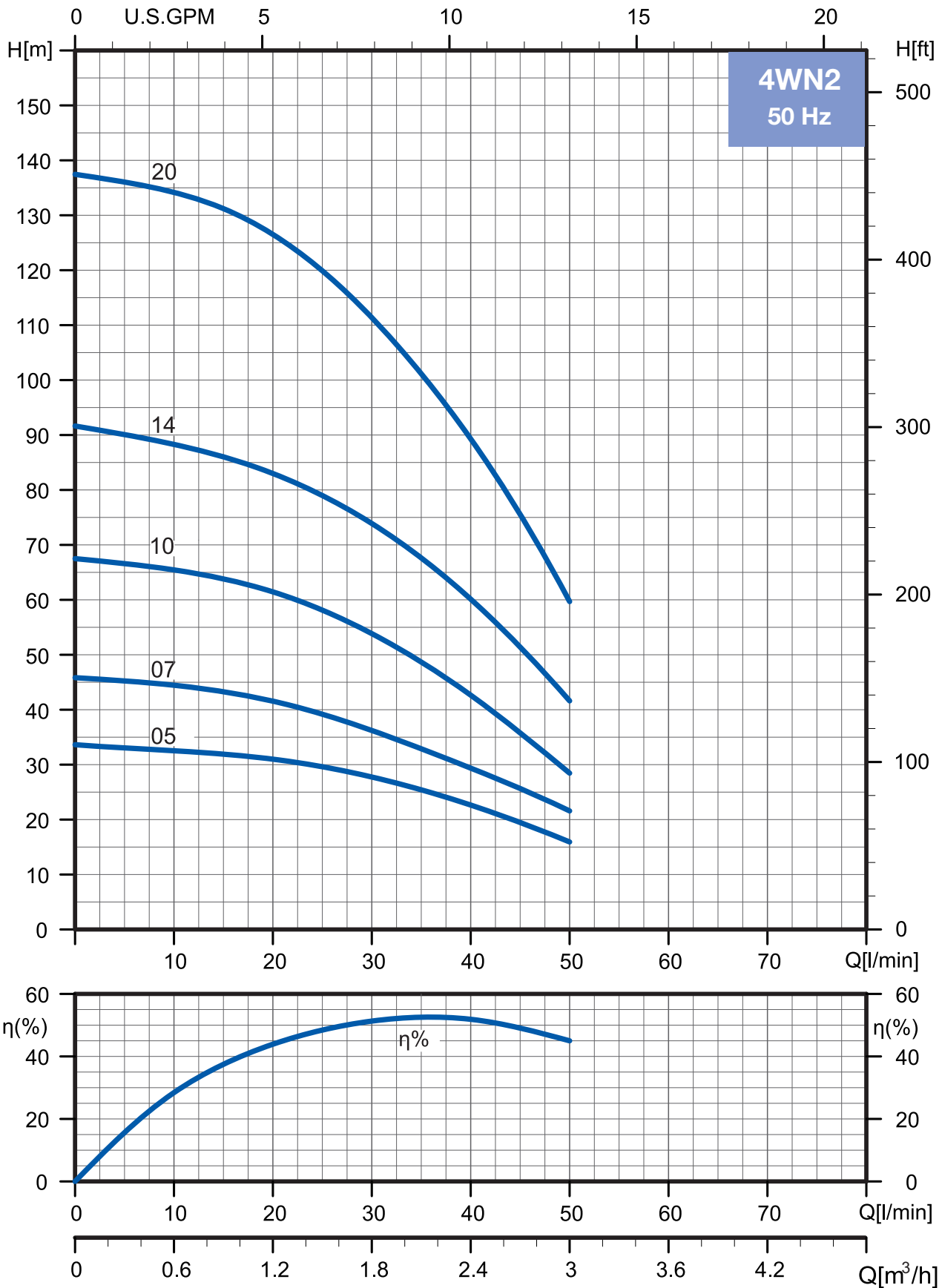
with OIL FILLED MOTOR

| Type    | Dimensions [mm] |        |    |              |             | Weight [kg] |              |             |
|---------|-----------------|--------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B      | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |        |    | single phase | three phase |             | single phase | three phase |
| 4WN1-10 | 324             | Rp 1"¼ | 98 | 649          | 649         | 3,3         | 10,3         | 9,8         |
| 4WN1-13 | 377             |        | 98 | 702          | 702         | 3,7         | 10,7         | 10,2        |
| 4WN1-19 | 481             |        | 98 | 806          | 806         | 4,7         | 12,3         | 11,7        |
| 4WN1-26 | 642             |        | 98 | 992          | 967         | 5,8         | 14,5         | 13,4        |
| 4WN1-38 | 864             |        | 98 | 1249         | 1214        | 8,2         | 18,5         | 16,9        |

with WATER FILLED MOTOR

| Type    | Dimensions [mm] |        |    |              |             | Weight [kg] |              |             |
|---------|-----------------|--------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B      | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |        |    | single phase | three phase |             | single phase | three phase |
| 4WN1-10 | 324             | Rp 1"¼ | 98 | 574          | 559         | 3,3         | 10,1         | 9,1         |
| 4WN1-13 | 377             |        | 98 | 627          | 612         | 3,7         | 10,5         | 9,5         |
| 4WN1-19 | 481             |        | 98 | 746          | 731         | 4,7         | 12,8         | 11,7        |
| 4WN1-26 | 642             |        | 98 | 937          | 907         | 5,8         | 16,4         | 14,1        |
| 4WN1-38 | 864             |        | 98 | 1204         | 1159        | 8,2         | 19,4         | 19,1        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |     |    |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 0,9 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 2,7 | 3  |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50 |
| 4WN2-5  | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6                 | 1,2                   | H = Head [m]  | 34  | 32  | 31  | 29  | 27  | 25  | 23  | 19  | 16 |
| 4WN2-7  | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6                 | 1,2                   |               | 46  | 43  | 42  | 39  | 36  | 33  | 29  | 26  | 22 |
| 4WN2-10 | 0,55          | 0,75          | 4,5                 | 4,4                   | 2,0                 | 1,7                   |               | 67  | 64  | 61  | 58  | 54  | 49  | 43  | 36  | 28 |
| 4WN2-14 | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   |               | 92  | 86  | 83  | 79  | 74  | 67  | 60  | 52  | 42 |
| 4WN2-20 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 139 | 131 | 127 | 120 | 111 | 101 | 90  | 75  | 60 |

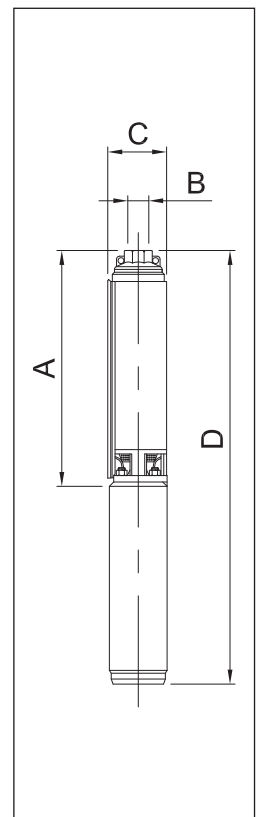
### DIMENSION TABLE

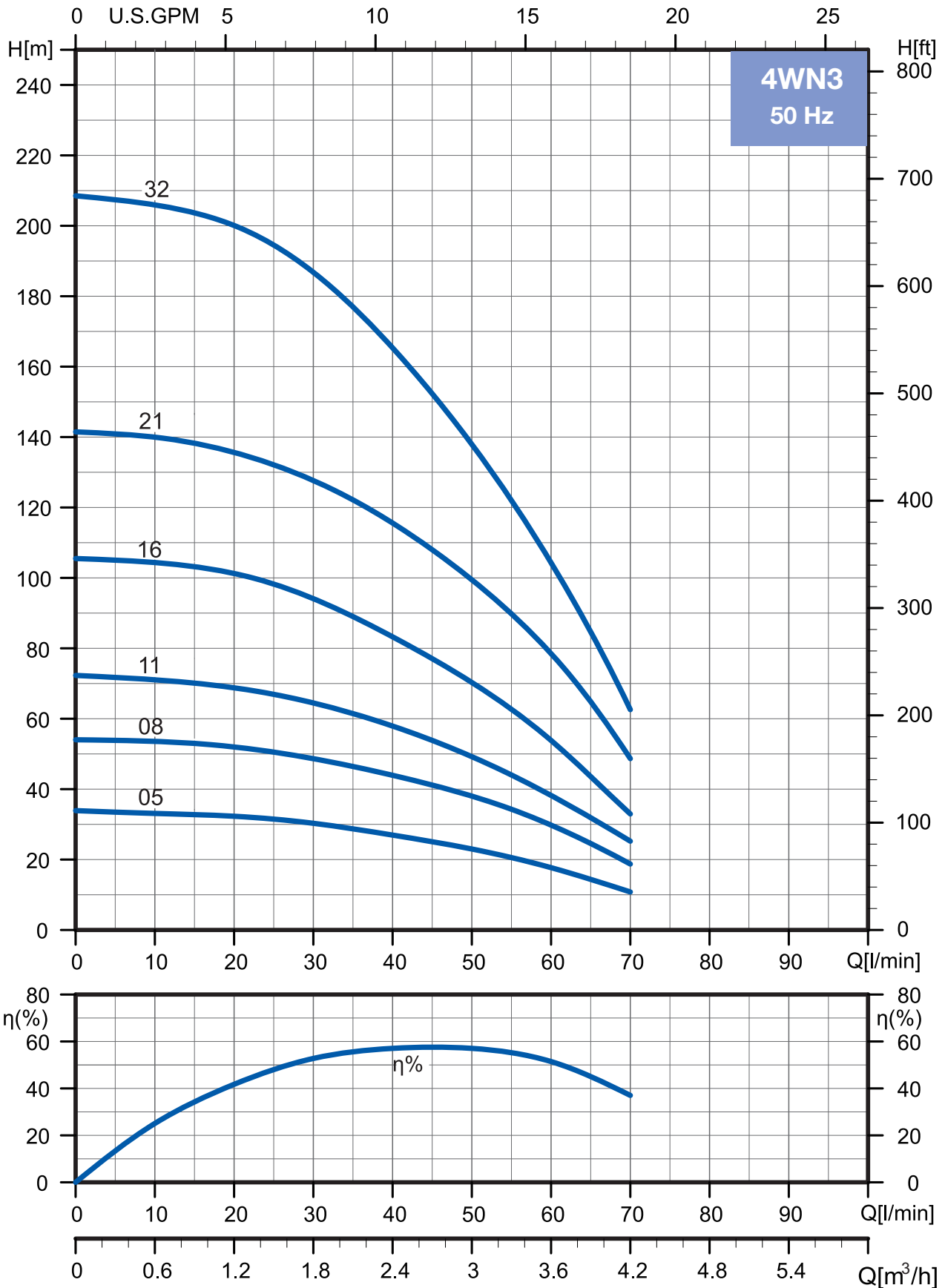
#### with OIL FILLED MOTOR

| Type    | Dimensions [mm] |        |    |     |                            | Weight [kg] |              |             |
|---------|-----------------|--------|----|-----|----------------------------|-------------|--------------|-------------|
|         | A               | B      | C  | D   |                            | Pump        | Pump + Motor |             |
|         |                 |        |    |     | single phase   three phase |             | single phase | three phase |
| 4WN2-5  | 236             | Rp 1"¼ | 98 | 561 | 561                        | 2,5         | 9,5          | 9           |
| 4WN2-7  | 271             |        | 98 | 596 | 596                        | 2,8         | 9,8          | 9,3         |
| 4WN2-10 | 324             |        | 98 | 649 | 649                        | 3,3         | 10,9         | 10,3        |
| 4WN2-14 | 394             |        | 98 | 744 | 719                        | 3,9         | 12,6         | 11,5        |
| 4WN2-20 | 499             |        | 98 | 884 | 849                        | 4,9         | 15,2         | 13,6        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |        |    |     |                            | Weight [kg] |              |             |
|---------|-----------------|--------|----|-----|----------------------------|-------------|--------------|-------------|
|         | A               | B      | C  | D   |                            | Pump        | Pump + Motor |             |
|         |                 |        |    |     | single phase   three phase |             | single phase | three phase |
| 4WN2-5  | 236             | Rp 1"¼ | 98 | 486 | 471                        | 2,5         | 9,3          | 8,3         |
| 4WN2-7  | 271             |        | 98 | 521 | 506                        | 2,8         | 9,6          | 8,6         |
| 4WN2-10 | 324             |        | 98 | 589 | 574                        | 3,3         | 11,4         | 10,3        |
| 4WN2-14 | 394             |        | 98 | 689 | 659                        | 3,9         | 14,5         | 12,2        |
| 4WN2-20 | 499             |        | 98 | 839 | 794                        | 4,9         | 16,1         | 15,8        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |     |     |     |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 2,7 | 3   | 3,6 | 4,2 |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 60  | 70  |
| 4WN3-5  | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6                 | 1,2                   | H = Head [m]  | 34  | 32  | 31  | 30  | 29  | 27  | 25  | 23  | 18  | 11  |
| 4WN3-8  | 0,55          | 0,75          | 4,5                 | 4,4                   | 2,0                 | 1,7                   |               | 54  | 51  | 50  | 49  | 46  | 43  | 41  | 38  | 30  | 19  |
| 4WN3-11 | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   |               | 72  | 68  | 66  | 64  | 61  | 58  | 54  | 49  | 38  | 26  |
| 4WN3-16 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 106 | 101 | 98  | 95  | 89  | 83  | 77  | 70  | 54  | 33  |
| 4WN3-21 | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 142 | 135 | 132 | 127 | 122 | 115 | 108 | 100 | 79  | 49  |
| 4WN3-32 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 208 | 200 | 194 | 187 | 177 | 165 | 152 | 138 | 104 | 62  |

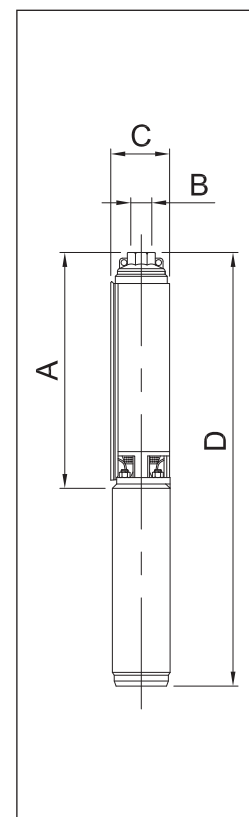
### DIMENSION TABLE

#### with OIL FILLED MOTOR

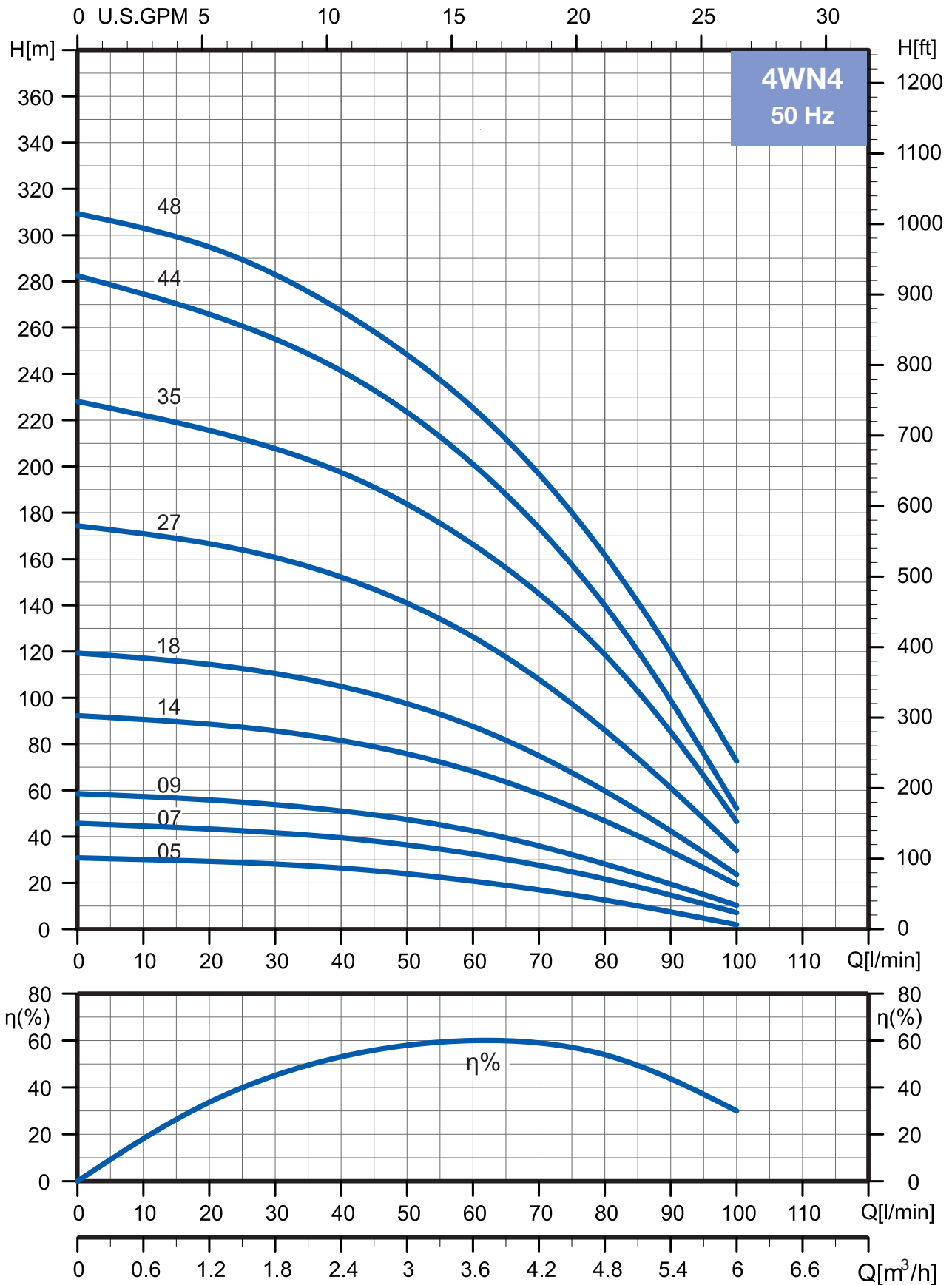
| Type    | Dimensions [mm] |           |    |      |                            | Weight [kg] |              |             |
|---------|-----------------|-----------|----|------|----------------------------|-------------|--------------|-------------|
|         | A               | B         | C  | D    |                            | Pump        | Pump + Motor |             |
|         |                 |           |    |      | single phase   three phase |             | single phase | three phase |
| 4WN3-5  | 236             | Rp<br>1"¼ | 98 | 561  | 561                        | 2,5         | 9,5          | 9           |
| 4WN3-8  | 289             |           | 98 | 614  | 614                        | 2,9         | 10,5         | 9,9         |
| 4WN3-11 | 342             |           | 98 | 692  | 667                        | 3,4         | 12,1         | 11          |
| 4WN3-16 | 430             |           | 98 | 815  | 780                        | 4,2         | 14,5         | 12,9        |
| 4WN3-21 | 519             |           | 98 | 939  | 904                        | 5,0         | 17           | 15,4        |
| 4WN3-32 | 749             |           | 98 | 1219 | 1169                       | 7,1         | 21,3         | 19,1        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |           |    |      |                            | Weight [kg] |              |             |
|---------|-----------------|-----------|----|------|----------------------------|-------------|--------------|-------------|
|         | A               | B         | C  | D    |                            | Pump        | Pump + Motor |             |
|         |                 |           |    |      | single phase   three phase |             | single phase | three phase |
| 4WN3-5  | 236             | Rp<br>1"¼ | 98 | 486  | 471                        | 2,5         | 9,3          | 8,3         |
| 4WN3-8  | 289             |           | 98 | 554  | 539                        | 2,9         | 11           | 9,9         |
| 4WN3-11 | 342             |           | 98 | 637  | 607                        | 3,4         | 14           | 11,7        |
| 4WN3-16 | 430             |           | 98 | 770  | 725                        | 4,2         | 15,4         | 15,1        |
| 4WN3-21 | 519             |           | 98 | 894  | 859                        | 5,0         | 19           | 16,4        |
| 4WN3-32 | 749             |           | 98 | 1179 | 1124                       | 7,1         | 23,5         | 21,3        |







# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 1,5 | 1,8 | 2,1 | 2,4 | 2,7 | 3   | 3,6 | 4,2 | 4,8 | 5,4 | 6   |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 25  | 30  | 35  | 40  | 45  | 50  | 60  | 70  | 80  | 90  | 100 |
|         |               |               |                     |                       |                     |                       | H = Head [m]  | 33  | 29  | 28  | 27  | 26  | 25  | 24  | 21  | 18  | 13  | 8   | 3   |
| 4WN4-5  | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6                 | 1,2                   |               | 46  | 43  | 42  | 41  | 39  | 38  | 36  | 33  | 28  | 22  | 15  | 7   |
| 4WN4-7  | 0,55          | 0,75          | 4,5                 | 4,4                   | 2,0                 | 1,7                   |               | 59  | 55  | 54  | 52  | 51  | 49  | 47  | 43  | 37  | 28  | 20  | 10  |
| 4WN4-9  | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   |               | 93  | 87  | 86  | 83  | 81  | 79  | 76  | 68  | 58  | 47  | 33  | 20  |
| 4WN4-14 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 120 | 113 | 111 | 108 | 105 | 102 | 98  | 88  | 75  | 60  | 42  | 25  |
| 4WN4-18 | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 175 | 164 | 161 | 157 | 152 | 147 | 141 | 127 | 109 | 87  | 61  | 35  |
| 4WN4-27 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 228 | 212 | 208 | 203 | 197 | 191 | 184 | 166 | 145 | 119 | 85  | 46  |
| 4WN4-35 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 282 | 261 | 255 | 249 | 241 | 233 | 223 | 201 | 173 | 140 | 99  | 52  |
| 4WN4-44 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 309 | 289 | 283 | 276 | 267 | 258 | 248 | 225 | 197 | 162 | 120 | 73  |
| 4WN4-48 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               |     |     |     |     |     |     |     |     |     |     |     |     |

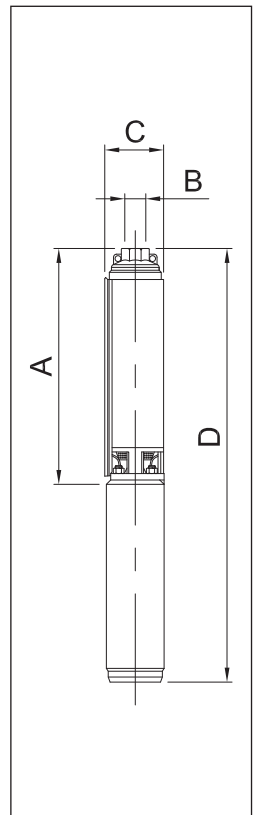
### DIMENSION TABLE

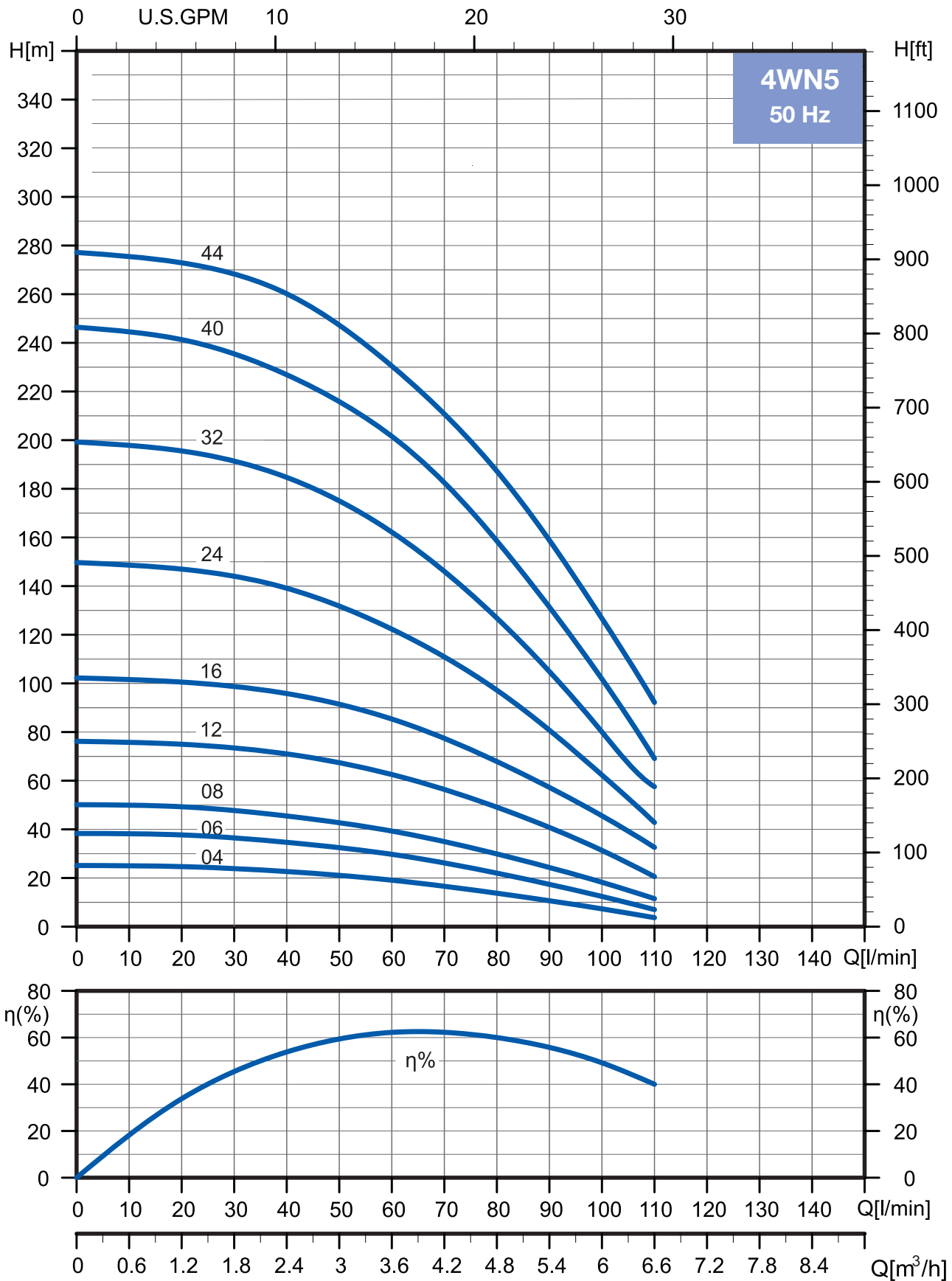
#### with OIL FILLED MOTOR

| Type    | Dimensions [mm] |        |    |      |              | Weight [kg] |              |             |
|---------|-----------------|--------|----|------|--------------|-------------|--------------|-------------|
|         | A               | B      | C  | D    |              | Pump        | Pump + Motor |             |
|         |                 |        |    |      | single phase | three phase | single phase | three phase |
| 4WN4-5  | 257             | Rp 1"¼ | 98 | 582  | 582          | 2,7         | 9,7          | 9,2         |
| 4WN4-7  | 301             |        | 98 | 626  | 626          | 3,0         | 10,6         | 10          |
| 4WN4-9  | 344             |        | 98 | 694  | 669          | 3,3         | 12           | 10,9        |
| 4WN4-14 | 452             |        | 98 | 837  | 802          | 4,1         | 14,4         | 12,8        |
| 4WN4-18 | 538             |        | 98 | 958  | 923          | 4,7         | 16,7         | 15,1        |
| 4WN4-27 | 767             |        | 98 | 1237 | 1187         | 6,2         | 20,4         | 18,2        |
| 4WN4-35 | 934             |        | 98 | -    | 1352         | 7,9         | -            | 21          |
| 4WN4-44 | 1128            |        | 98 | -    | 1596         | 9,3         | -            | 24,9        |
| 4WN4-48 | 1253            |        | 98 | -    | 1721         | 9,9         | -            | 25,5        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |        |    |      |              | Weight [kg] |              |             |
|---------|-----------------|--------|----|------|--------------|-------------|--------------|-------------|
|         | A               | B      | C  | D    |              | Pump        | Pump + Motor |             |
|         |                 |        |    |      | single phase | three phase | single phase | three phase |
| 4WN4-5  | 257             | Rp 1"¼ | 98 | 507  | 492          | 2,7         | 9,5          | 8,5         |
| 4WN4-7  | 301             |        | 98 | 566  | 551          | 3,0         | 11,1         | 10          |
| 4WN4-9  | 344             |        | 98 | 639  | 609          | 3,3         | 13,9         | 11,6        |
| 4WN4-14 | 452             |        | 98 | 792  | 747          | 4,1         | 15,3         | 15          |
| 4WN4-18 | 538             |        | 98 | 913  | 878          | 4,7         | 18,7         | 16,1        |
| 4WN4-27 | 767             |        | 98 | 1197 | 1142         | 6,2         | 22,6         | 20,4        |
| 4WN4-35 | 934             |        | 98 | -    | 1414         | 7,9         | -            | 26,2        |
| 4WN4-44 | 1128            |        | 98 | -    | 1683         | 9,3         | -            | 32,7        |
| 4WN4-48 | 1253            |        | 98 | -    | 1808         | 9,9         | -            | 33,3        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |     |     |     |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 2,1 | 2,4 | 2,7 | 3   | 3,6 | 4,2 | 4,8 | 5,4 | 6   |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 35  | 40  | 45  | 50  | 60  | 70  | 80  | 90  | 100 |
| 4WN5-4  | 0,37          | 0,50          | 3,6                 | 3,4                   | 1,6                 | 1,2                   | H = Head [m]  | 26  | 23  | 22  | 22  | 21  | 19  | 17  | 14  | 11  | 7   |
| 4WN5-6  | 0,55          | 0,75          | 4,5                 | 4,4                   | 2,0                 | 1,7                   |               | 38  | 36  | 35  | 33  | 32  | 30  | 26  | 22  | 18  | 12  |
| 4WN5-8  | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   |               | 51  | 47  | 46  | 44  | 43  | 39  | 35  | 30  | 24  | 18  |
| 4WN5-12 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 77  | 72  | 71  | 69  | 68  | 63  | 57  | 49  | 41  | 31  |
| 4WN5-16 | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 102 | 98  | 96  | 94  | 92  | 86  | 77  | 68  | 57  | 46  |
| 4WN5-24 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 151 | 142 | 139 | 136 | 132 | 122 | 111 | 97  | 80  | 62  |
| 4WN5-32 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 203 | 188 | 185 | 180 | 175 | 162 | 146 | 127 | 105 | 80  |
| 4WN5-40 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 253 | 232 | 227 | 222 | 216 | 202 | 182 | 159 | 131 | 102 |
| 4WN5-44 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 278 | 265 | 260 | 254 | 247 | 230 | 210 | 187 | 159 | 127 |

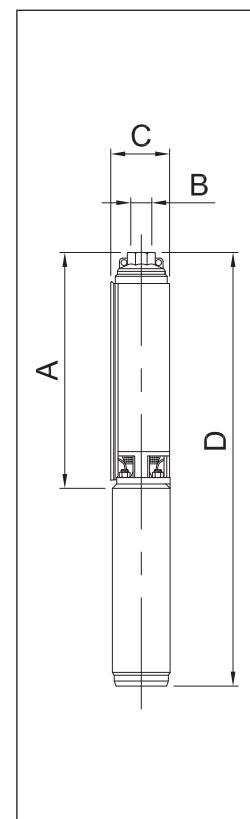
### DIMENSION TABLE

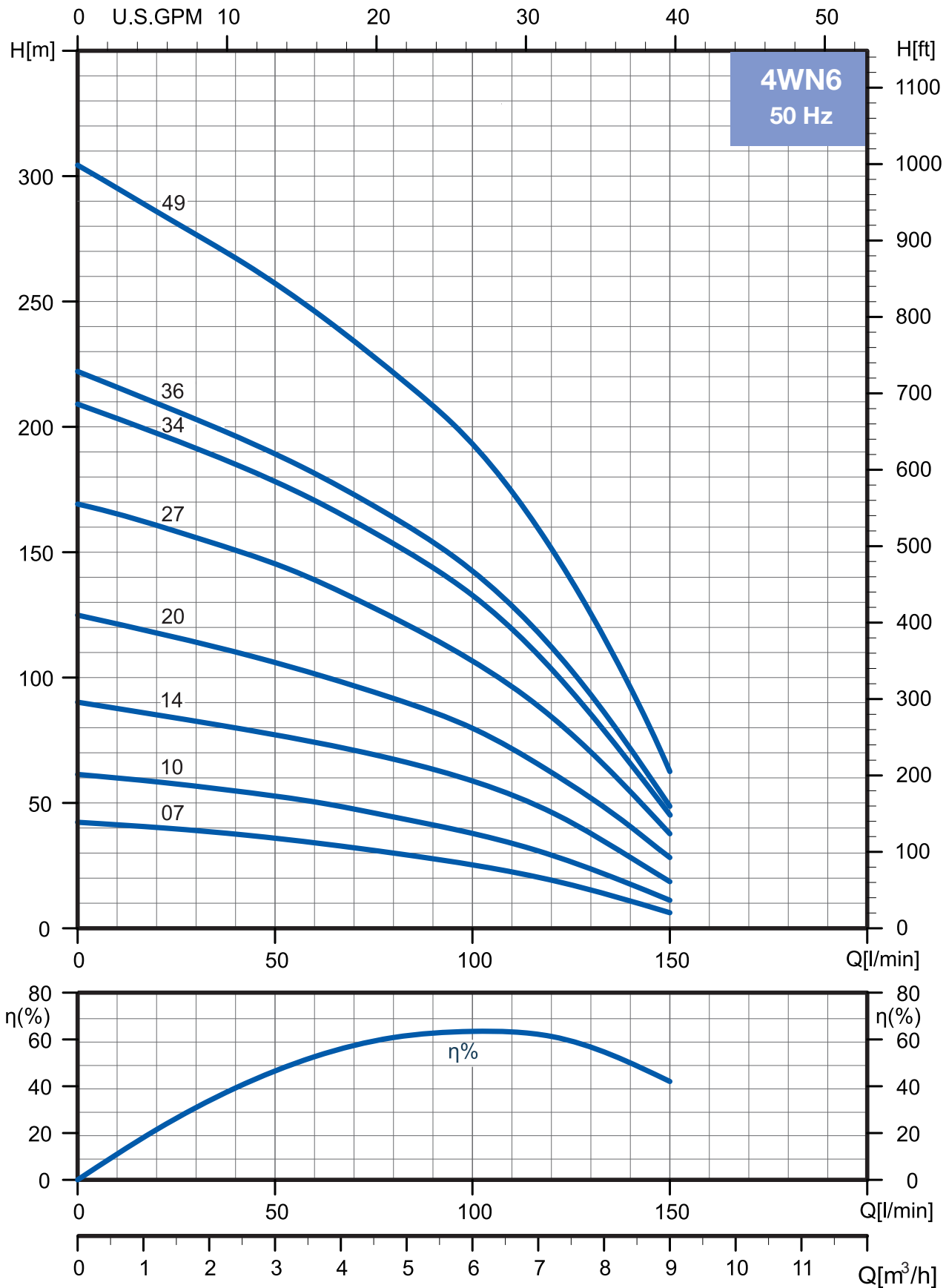
#### with OIL FILLED MOTOR

| Type    | Dimensions [mm] |          |    |              |             | Weight [kg] |              |             |
|---------|-----------------|----------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B        | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |          |    | single phase | three phase |             | single phase | three phase |
| 4WN5-4  | 247             | Rp 1"1/2 | 98 | 572          | 572         | 2,4         | 9,4          | 8,9         |
| 4WN5-6  | 296             |          | 98 | 621          | 621         | 2,9         | 10,5         | 9,9         |
| 4WN5-8  | 345             |          | 98 | 695          | 670         | 3,3         | 12           | 10,9        |
| 4WN5-12 | 433             |          | 98 | 818          | 783         | 4,1         | 14,4         | 12,8        |
| 4WN5-16 | 542             |          | 98 | 962          | 927         | 5,0         | 17           | 15,4        |
| 4WN5-24 | 777             |          | 98 | 1247         | 1197        | 6,6         | 20,8         | 18,6        |
| 4WN5-32 | 965             |          | 98 | -            | 1383        | 8,7         | -            | 21,8        |
| 4WN5-40 | 1160            |          | 98 | -            | 1628        | 10,4        | -            | 26          |
| 4WN5-44 | 1296            |          | 98 | -            | 1764        | 11,2        | -            | 26,8        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |          |    |              |             | Weight [kg] |              |             |
|---------|-----------------|----------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B        | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |          |    | single phase | three phase |             | single phase | three phase |
| 4WN5-4  | 247             | Rp 1"1/2 | 98 | 497          | 482         | 2,4         | 9,2          | 8,2         |
| 4WN5-6  | 296             |          | 98 | 561          | 546         | 2,9         | 11           | 9,9         |
| 4WN5-8  | 345             |          | 98 | 640          | 610         | 3,3         | 13,9         | 11,6        |
| 4WN5-12 | 433             |          | 98 | 773          | 728         | 4,1         | 15,3         | 15          |
| 4WN5-16 | 542             |          | 98 | 917          | 882         | 5,0         | 19           | 16,4        |
| 4WN5-24 | 777             |          | 98 | 1207         | 1152        | 6,6         | 23           | 20,8        |
| 4WN5-32 | 965             |          | 98 | -            | 1445        | 8,7         | -            | 27          |
| 4WN5-40 | 1160            |          | 98 | -            | 1715        | 10,4        | -            | 33,8        |
| 4WN5-44 | 1296            |          | 98 | -            | 1851        | 11,2        | -            | 34,6        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |     |     |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 3   | 3,6 | 4,2 | 4,8 | 5,4 | 6   | 7,2 | 8,4 |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 50  | 60  | 70  | 80  | 90  | 100 | 120 | 140 |
| 4WN6-7  | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   | H = Head [m]  | 42  | 36  | 34  | 32  | 30  | 28  | 25  | 19  | 11  |
| 4WN6-10 | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 62  | 53  | 51  | 48  | 45  | 41  | 38  | 29  | 18  |
| 4WN6-14 | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 90  | 77  | 74  | 71  | 68  | 63  | 59  | 46  | 28  |
| 4WN6-20 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 125 | 107 | 102 | 97  | 92  | 86  | 80  | 62  | 40  |
| 4WN6-27 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 169 | 145 | 139 | 131 | 123 | 115 | 107 | 84  | 55  |
| 4WN6-34 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 208 | 178 | 170 | 162 | 153 | 143 | 132 | 103 | 66  |
| 4WN6-36 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 221 | 190 | 181 | 173 | 164 | 154 | 143 | 112 | 72  |
| 4WN6-49 | 5,50          | 7,50          | -                   | -                     | 13,8                | 13,6                  |               | 302 | 257 | 246 | 234 | 222 | 209 | 193 | 151 | 96  |

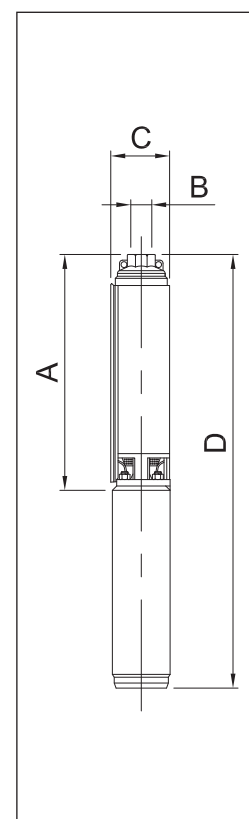
### DIMENSION TABLE

#### with OIL FILLED MOTOR

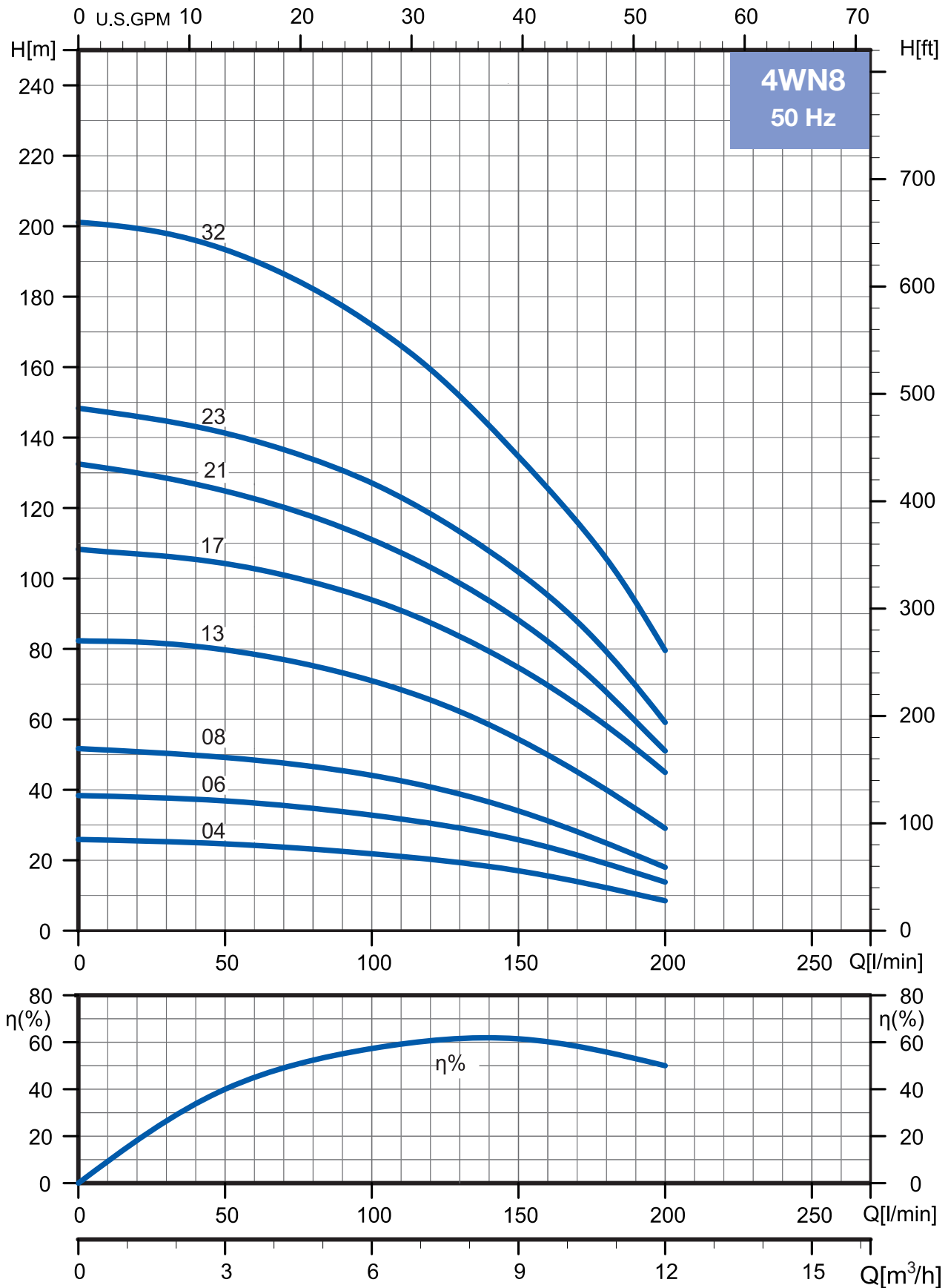
| Type    | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|---------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN6-7  | 390             | Rp 2" | 98 | 740          | 715         | 3,7         | 12,4         | 11,3        |
| 4WN6-10 | 483             |       | 98 | 868          | 833         | 4,6         | 14,9         | 13,3        |
| 4WN6-14 | 607             |       | 98 | 1027         | 992         | 5,7         | 17,7         | 16,1        |
| 4WN6-20 | 831             |       | 98 | 1301         | 1251        | 7,5         | 21,7         | 19,5        |
| 4WN6-27 | 1048            |       | 98 | -            | 1466        | 9,6         | -            | 22,7        |
| 4WN6-34 | 1257            |       | 98 | -            | 1725        | 11,6        | -            | 27,2        |
| 4WN6-36 | 1318            |       | 98 | -            | 1786        | 12,2        | -            | 27,8        |
| 4WN6-49 | 1802            |       | 98 | -            | 2340        | 15,9        | -            | 34,8        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|---------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN6-7  | 390             | Rp 2" | 98 | 685          | 655         | 3,7         | 14,3         | 12          |
| 4WN6-10 | 483             |       | 98 | 823          | 778         | 4,6         | 15,8         | 15,5        |
| 4WN6-14 | 607             |       | 98 | 982          | 947         | 5,7         | 19,7         | 17,1        |
| 4WN6-20 | 831             |       | 98 | 1261         | 1206        | 7,5         | 23,9         | 21,7        |
| 4WN6-27 | 1048            |       | 98 | -            | 1528        | 9,6         | -            | 27,9        |
| 4WN6-34 | 1257            |       | 98 | -            | 1812        | 11,6        | -            | 35          |
| 4WN6-36 | 1318            |       | 98 | -            | 1873        | 12,2        | -            | 35,6        |
| 4WN6-49 | 1802            |       | 98 | -            | 2477        | 15,9        | -            | 45,3        |







# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type    | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |      |     |
|---------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|------|-----|
|         |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 4,8 | 5,4 | 6   | 7,2 | 8,4 | 9,6 | 10,8 | 12  |
|         |               |               |                     |                       |                     |                       | l/min         | 0   | 80  | 90  | 100 | 120 | 140 | 160 | 180  | 200 |
| 4WN8-4  | 0,75          | 1,00          | 6,0                 | 5,9                   | 2,6                 | 2,2                   | H = Head [m]  | 26  | 23  | 22  | 21  | 20  | 18  | 16  | 12   | 9   |
| 4WN8-6  | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   |               | 38  | 35  | 34  | 33  | 31  | 28  | 24  | 19   | 14  |
| 4WN8-8  | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 52  | 47  | 45  | 44  | 41  | 37  | 31  | 25   | 18  |
| 4WN8-13 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 82  | 75  | 73  | 71  | 66  | 59  | 50  | 40   | 30  |
| 4WN8-17 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 108 | 98  | 96  | 94  | 87  | 79  | 70  | 58   | 46  |
| 4WN8-21 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 132 | 117 | 114 | 111 | 103 | 93  | 82  | 68   | 52  |
| 4WN8-23 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 148 | 134 | 131 | 127 | 118 | 108 | 95  | 79   | 60  |
| 4WN8-32 | 5,50          | 7,50          | -                   | -                     | 13,8                | 13,6                  |               | 202 | 182 | 178 | 172 | 160 | 143 | 125 | 105  | 80  |

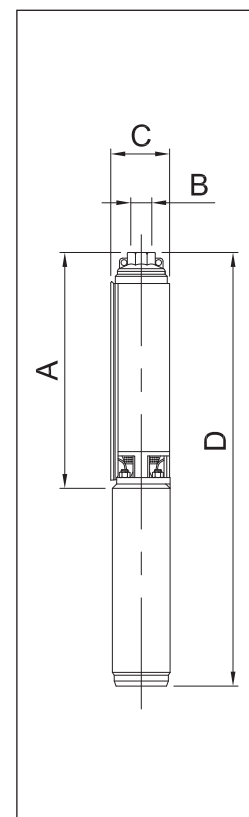
### DIMENSION TABLE

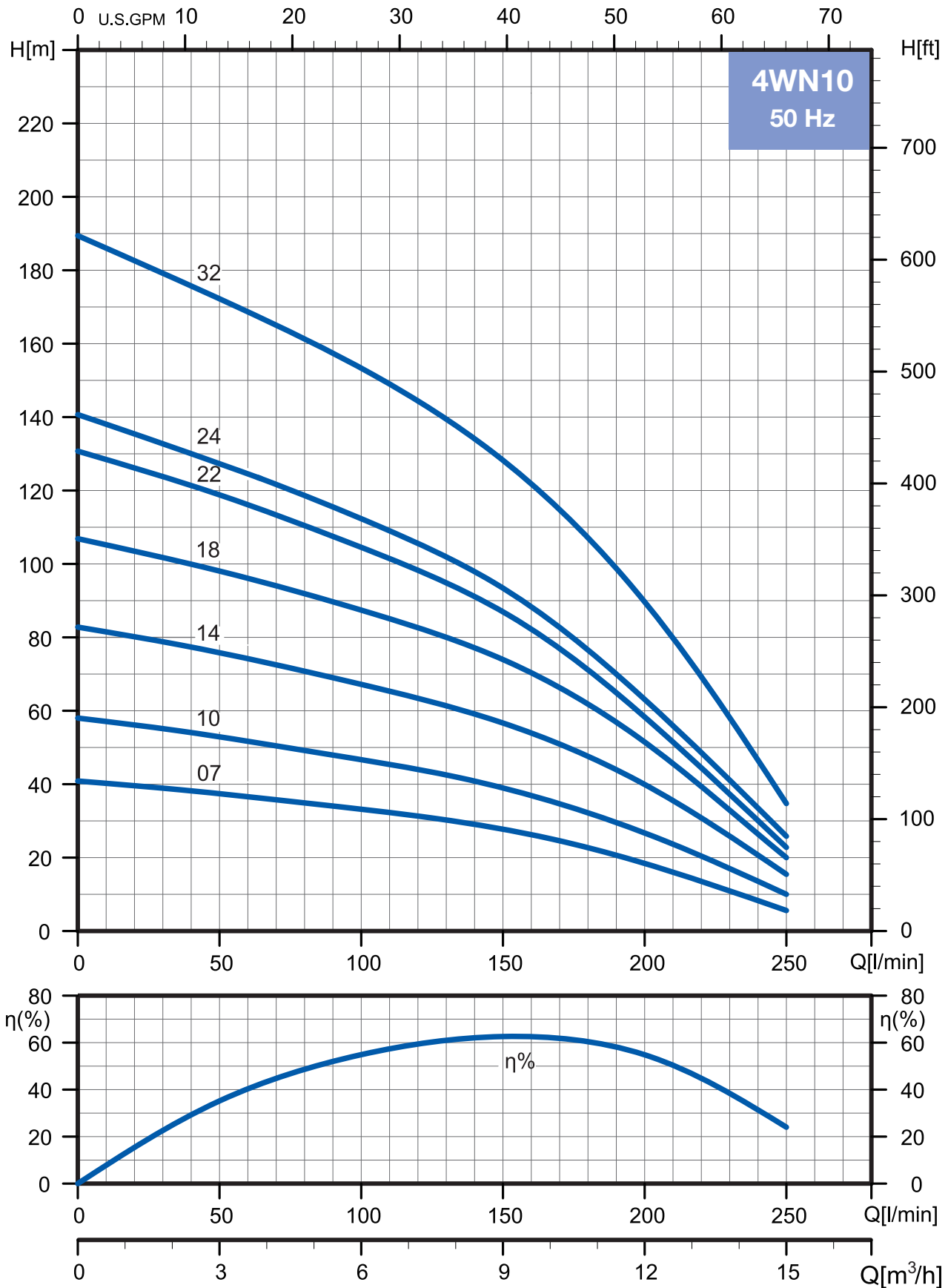
#### with OIL FILLED MOTOR

| Type    | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|---------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN8-4  | 294             | Rp 2" | 98 | 644          | 619         | 2,8         | 11,5         | 10,4        |
| 4WN8-6  | 356             |       | 98 | 741          | 706         | 3,4         | 13,7         | 12,1        |
| 4WN8-8  | 418             |       | 98 | 838          | 803         | 4,0         | 16           | 14,4        |
| 4WN8-13 | 573             |       | 98 | 1043         | 993         | 5,5         | 19,7         | 17,5        |
| 4WN8-17 | 697             |       | 98 | -            | 1115        | 6,6         | -            | 19,7        |
| 4WN8-21 | 859             |       | 98 | -            | 1327        | 7,8         | -            | 23,4        |
| 4WN8-23 | 921             |       | 98 | -            | 1389        | 8,4         | -            | 24          |
| 4WN8-32 | 1238            |       | 98 | -            | 1776        | 11          | -            | 29,9        |

#### with WATER FILLED MOTOR

| Type    | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|---------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|         | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|         |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN8-4  | 294             | Rp 2" | 98 | 589          | 559         | 2,8         | 13,4         | 11,1        |
| 4WN8-6  | 356             |       | 98 | 696          | 651         | 3,4         | 14,6         | 14,3        |
| 4WN8-8  | 418             |       | 98 | 793          | 758         | 4,0         | 18           | 15,4        |
| 4WN8-13 | 573             |       | 98 | 1003         | 948         | 5,5         | 21,9         | 19,7        |
| 4WN8-17 | 697             |       | 98 | -            | 1177        | 6,6         | -            | 24,9        |
| 4WN8-21 | 859             |       | 98 | -            | 1414        | 7,8         | -            | 31,2        |
| 4WN8-23 | 921             |       | 98 | -            | 1476        | 8,4         | -            | 31,8        |
| 4WN8-32 | 1238            |       | 98 | -            | 1913        | 11          | -            | 40,4        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type     | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |     |     |      |     |      |      |
|----------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|
|          |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 4,8 | 5,4 | 6   | 7,2 | 8,4 | 9,6 | 10,8 | 12  | 13,2 | 14,4 |
|          |               |               |                     |                       |                     |                       | l/min         | 0   | 80  | 90  | 100 | 120 | 140 | 160 | 180  | 200 | 220  | 240  |
| 4WN10-7  | 1,10          | 1,50          | 8,2                 | 7,8                   | 3,4                 | 3,0                   | H = Head [m]  | 41  | 35  | 34  | 33  | 32  | 29  | 26  | 23   | 18  | 14   | 8    |
| 4WN10-10 | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   |               | 58  | 49  | 48  | 47  | 44  | 41  | 37  | 32   | 27  | 20   | 13   |
| 4WN10-14 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 83  | 71  | 69  | 67  | 63  | 58  | 54  | 48   | 40  | 31   | 20   |
| 4WN10-18 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 107 | 92  | 90  | 87  | 83  | 77  | 70  | 62   | 52  | 39   | 26   |
| 4WN10-22 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 131 | 110 | 107 | 104 | 98  | 91  | 82  | 71   | 58  | 45   | 30   |
| 4WN10-24 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 141 | 118 | 116 | 113 | 106 | 97  | 88  | 77   | 63  | 49   | 33   |
| 4WN10-32 | 5,50          | 7,50          | -                   | -                     | 13,8                | 13,6                  |               | 189 | 162 | 157 | 153 | 144 | 134 | 122 | 107  | 90  | 70   | 47   |

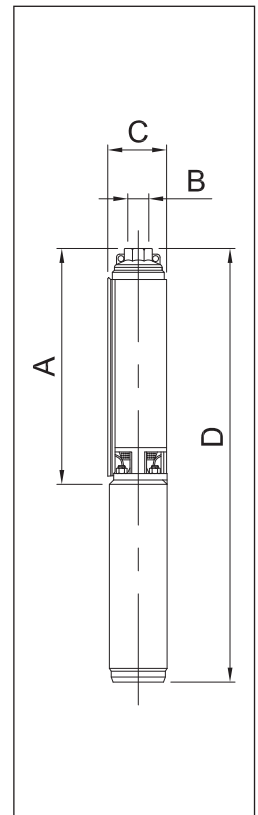
### DIMENSION TABLE

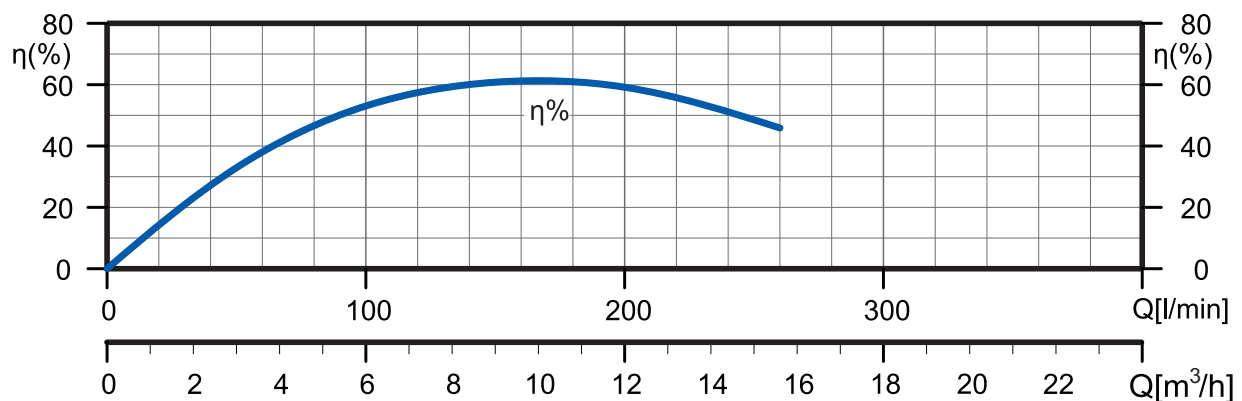
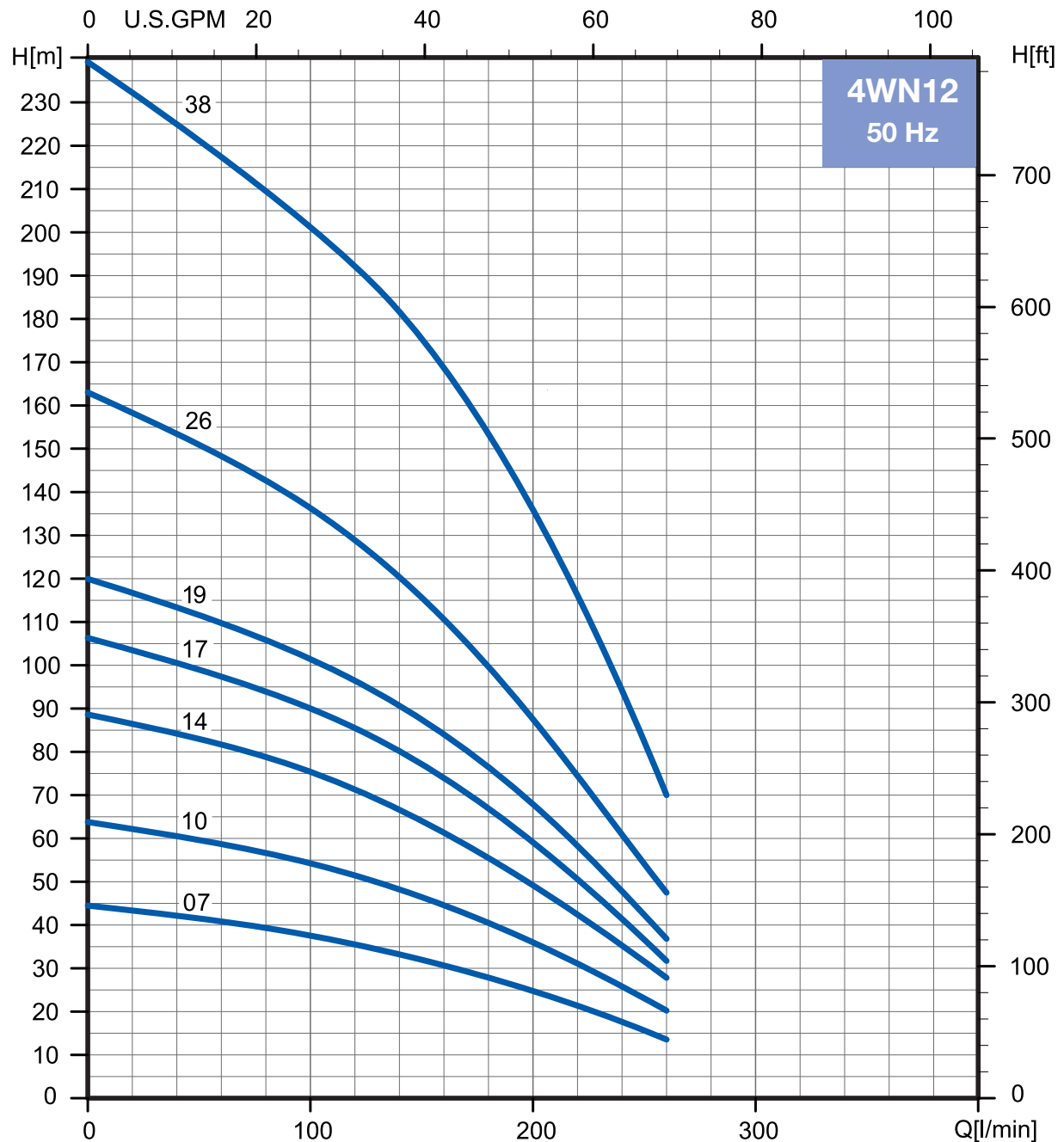
#### with OIL FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN10-7  | 537             | Rp 2" | 98 | 922          | 887         | 5,3         | 15,6         | 14          |
| 4WN10-10 | 693             |       | 98 | 1113         | 1078        | 6,7         | 18,7         | 17,1        |
| 4WN10-14 | 901             |       | 98 | 1371         | 1321        | 8,5         | 22,7         | 20,5        |
| 4WN10-18 | 1147            |       | 98 | -            | 1565        | 10,4        | -            | 23,5        |
| 4WN10-22 | 1345            |       | 98 | -            | 1813        | 12,3        | -            | 27,9        |
| 4WN10-24 | 1449            |       | 98 | -            | 1917        | 13,2        | -            | 28,8        |
| 4WN10-32 | 1866            |       | 98 | -            | 2404        | 17          | -            | 35,9        |

#### with WATER FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN10-7  | 537             | Rp 2" | 98 | 877          | 832         | 5,3         | 16,5         | 16,2        |
| 4WN10-10 | 693             |       | 98 | 1068         | 1033        | 6,7         | 20,7         | 18,1        |
| 4WN10-14 | 901             |       | 98 | 1331         | 1276        | 8,5         | 24,9         | 22,7        |
| 4WN10-18 | 1147            |       | 98 | -            | 1627        | 10,4        | -            | 28,7        |
| 4WN10-22 | 1345            |       | 98 | -            | 1900        | 12,3        | -            | 35,7        |
| 4WN10-24 | 1449            |       | 98 | -            | 2004        | 13,2        | -            | 36,6        |
| 4WN10-32 | 1866            |       | 98 | -            | 2541        | 17          | -            | 46,4        |





# 4WN

## 4" BOREHOLE PUMP



### SELECTION TABLE

| Type     | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |     |     |      |     |      |      |      |
|----------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|-----|-----|------|-----|------|------|------|
|          |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 6   | 7,2 | 8,4 | 9,6 | 10,8 | 12  | 13,2 | 14,4 | 15,6 |
|          |               |               |                     |                       |                     |                       | l/min         | 0   | 100 | 120 | 140 | 160 | 180  | 200 | 220  | 240  | 260  |
| 4WN12-7  | 1,50          | 2,00          | 11,0                | 10,2                  | 4,6                 | 4,0                   | H = Head [m]  | 45  | 37  | 36  | 33  | 31  | 28   | 25  | 22   | 18   | 14   |
| 4WN12-10 | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   |               | 64  | 54  | 52  | 48  | 44  | 41   | 36  | 32   | 26   | 20   |
| 4WN12-14 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 89  | 76  | 72  | 67  | 62  | 56   | 49  | 43   | 35   | 28   |
| 4WN12-17 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 107 | 90  | 86  | 80  | 74  | 67   | 59  | 51   | 42   | 32   |
| 4WN12-19 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 120 | 102 | 97  | 91  | 89  | 76   | 68  | 58   | 48   | 37   |
| 4WN12-26 | 5,50          | 7,50          | -                   | -                     | 13,80               | 13,60                 |               | 163 | 136 | 129 | 120 | 111 | 100  | 87  | 75   | 61   | 48   |
| 4WN12-38 | 7,50          | 10,00         | -                   | -                     | 19,50               | 18,30                 |               | 239 | 202 | 192 | 182 | 168 | 150  | 133 | 115  | 95   | 70   |

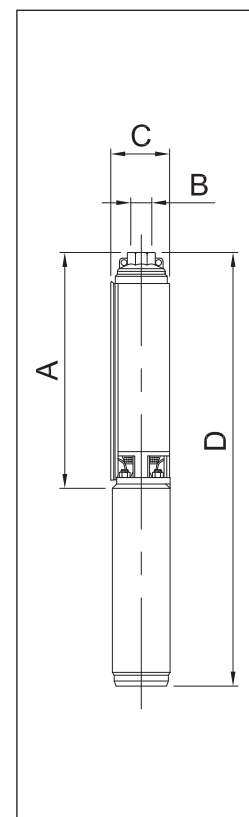
### DIMENSION TABLE

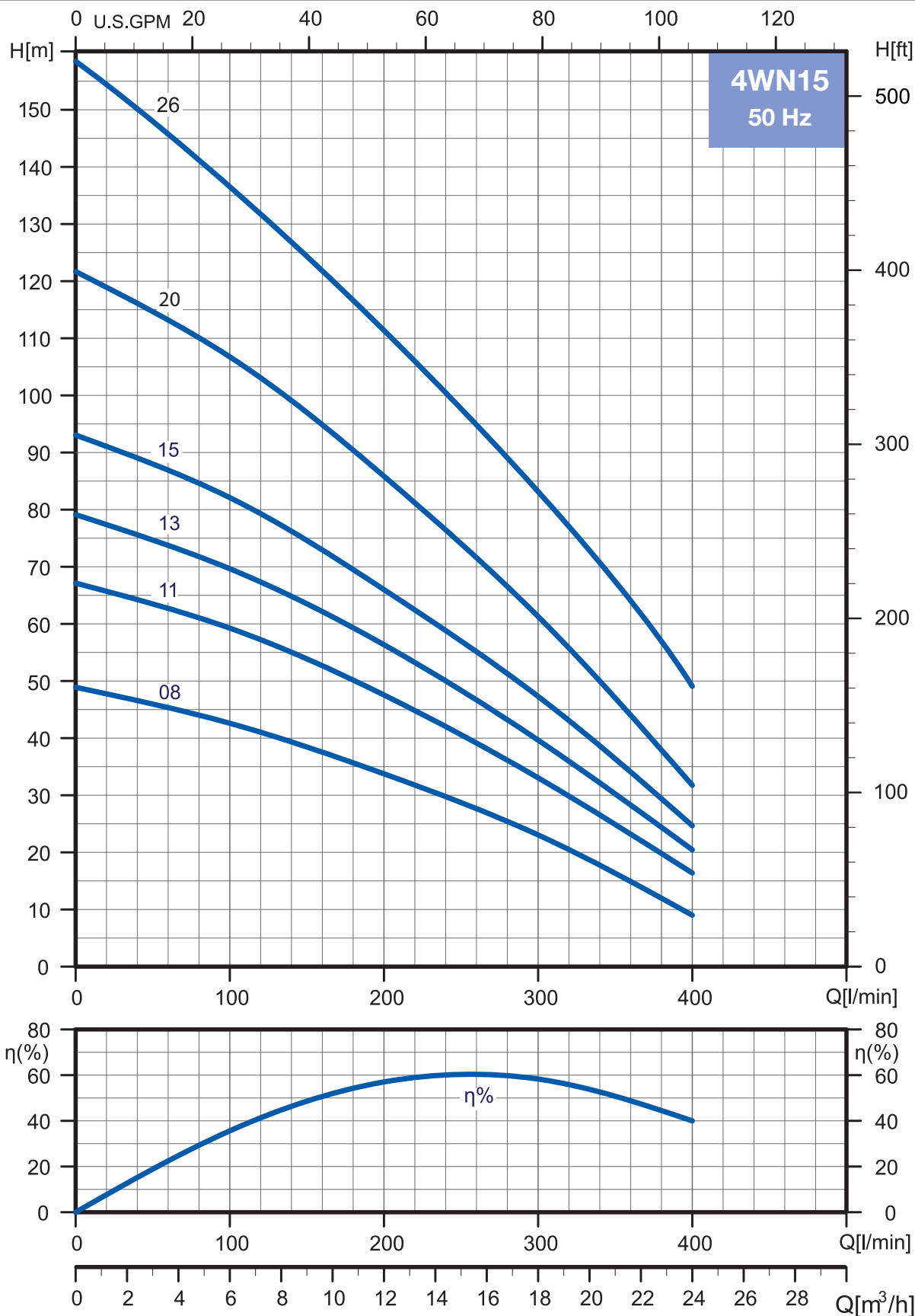
with OIL FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN12-7  | 534             | Rp 2" | 98 | 954          | 919         | 5,3         | 17,3         | 15,7        |
| 4WN12-10 | 690             |       | 98 | 1160         | 1110        | 6,7         | 20,9         | 18,7        |
| 4WN12-14 | 989             |       | 98 | -            | 1407        | 8,6         | -            | 21,7        |
| 4WN12-17 | 1092            |       | 98 | -            | 1560        | 10,1        | -            | 25,7        |
| 4WN12-19 | 1195            |       | 98 | -            | 1663        | 11,0        | -            | 26,6        |
| 4WN12-26 | 1559            |       | 98 | -            | 2097        | 14,3        | -            | 33,2        |
| 4WN12-38 | 2380            |       | 98 | -            | 3190        | 18,8        | -            | 45,8        |

with WATER FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN12-7  | 534             | Rp 2" | 98 | 909          | 874         | 5,3         | 19,3         | 16,7        |
| 4WN12-10 | 690             |       | 98 | 1120         | 1065        | 6,7         | 23,1         | 20,9        |
| 4WN12-14 | 989             |       | 98 | -            | 1469        | 8,6         | -            | 26,9        |
| 4WN12-17 | 1092            |       | 98 | -            | 1647        | 10,1        | -            | 33,5        |
| 4WN12-19 | 1195            |       | 98 | -            | 1750        | 11,0        | -            | 34,4        |
| 4WN12-26 | 1559            |       | 98 | -            | 2234        | 14,3        | -            | 43,7        |
| 4WN12-38 | 2380            |       | 98 | -            | 3145        | 18,8        | -            | 52,6        |







# 4WN

## 4" BOREHOLE PUMP



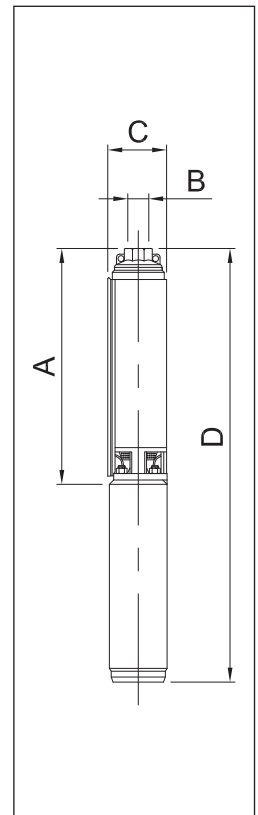
### SELECTION TABLE

| Type     | Power<br>[kW] | Power<br>[HP] | In 1~230V<br>[A]    |                       | In 3~400V<br>[A]    |                       | Q = Flow Rate |     |     |     |      |     |      |      |      |      |     |      |      |      |      |     |  |
|----------|---------------|---------------|---------------------|-----------------------|---------------------|-----------------------|---------------|-----|-----|-----|------|-----|------|------|------|------|-----|------|------|------|------|-----|--|
|          |               |               | Oil filled<br>motor | Water filled<br>motor | Oil filled<br>motor | Water filled<br>motor | m³/h          | 0   | 8,4 | 9,6 | 10,8 | 12  | 13,2 | 14,4 | 15,6 | 16,8 | 18  | 19,2 | 20,4 | 21,6 | 22,8 | 24  |  |
|          |               |               |                     |                       |                     |                       | l/min         | 0   | 140 | 160 | 180  | 200 | 220  | 240  | 260  | 280  | 300 | 320  | 340  | 360  | 380  | 400 |  |
| 4WN15-8  | 2,20          | 3,00          | 14,8                | 15,0                  | 6,2                 | 5,6                   | H = Head [m]  | 49  | 39  | 38  | 36   | 34  | 32   | 30   | 28   | 25   | 23  | 20   | 18   | 15   | 12   | 9   |  |
| 4WN15-11 | 3,00          | 4,00          | -                   | -                     | 7,8                 | 7,5                   |               | 67  | 55  | 53  | 50   | 48  | 45   | 42   | 39   | 36   | 33  | 30   | 27   | 23   | 20   | 16  |  |
| 4WN15-13 | 3,70          | 5,00          | -                   | -                     | 9,8                 | 10,1                  |               | 79  | 65  | 62  | 59   | 56  | 53   | 50   | 47   | 43   | 40  | 36   | 32   | 28   | 24   | 20  |  |
| 4WN15-15 | 4,00          | 5,50          | -                   | -                     | 9,8                 | 10,1                  |               | 93  | 76  | 73  | 70   | 66  | 62   | 59   | 55   | 51   | 47  | 43   | 39   | 34   | 29   | 25  |  |
| 4WN15-20 | 5,50          | 7,50          | -                   | -                     | 13,80               | 13,60                 |               | 122 | 99  | 95  | 90   | 86  | 81   | 76   | 72   | 67   | 61  | 56   | 50   | 44   | 38   | 32  |  |
| 4WN15-26 | 7,50          | 10,00         | -                   | -                     | 19,50               | 18,30                 |               | 158 | 128 | 122 | 115  | 111 | 105  | 100  | 95   | 90   | 85  | 80   | 72   | 67   | 56   | 49  |  |

### DIMENSION TABLE

with OIL FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN15-8  | 676             | Rp 2" | 98 | 1146         | 1096        | 6,3         | 20,5         | 18,3        |
| 4WN15-11 | 880             |       | 98 | -            | 1298        | 8,1         | -            | 21,2        |
| 4WN15-13 | 1013            |       | 98 | -            | 1481        | 9,3         | -            | 24,9        |
| 4WN15-15 | 1149            |       | 98 | -            | 1617        | 10,5        | -            | 26,1        |
| 4WN15-20 | 1489            |       | 98 | -            | 2027        | 13,5        | -            | 32,4        |
| 4WN15-26 | 2020            |       | 98 | -            | 2830        | 17,1        | -            | 44,1        |



with WATER FILLED MOTOR

| Type     | Dimensions [mm] |       |    |              |             | Weight [kg] |              |             |
|----------|-----------------|-------|----|--------------|-------------|-------------|--------------|-------------|
|          | A               | B     | C  | D            |             | Pump        | Pump + Motor |             |
|          |                 |       |    | single phase | three phase |             | single phase | three phase |
| 4WN15-8  | 676             | Rp 2" | 98 | 1106         | 1051        | 6,3         | 22,7         | 20,5        |
| 4WN15-11 | 880             |       | 98 | -            | 1360        | 8,1         | -            | 26,4        |
| 4WN15-13 | 1013            |       | 98 | -            | 1568        | 9,3         | -            | 32,7        |
| 4WN15-15 | 1149            |       | 98 | -            | 1704        | 10,5        | -            | 33,9        |
| 4WN15-20 | 1489            |       | 98 | -            | 2164        | 13,5        | -            | 42,9        |
| 4WN15-26 | 2020            |       | 98 | -            | 2785        | 17,1        | -            | 50,8        |