

# KDN

## STANDARDISED CENTRIFUGAL PUMPS

### BARE SHAFT

### ON BEDPLATE WITH MOTOR AND COUPLING



## GENERAL DATA

### Applications

Enbloc, centrifugal motor-driven pumps with coupling designed for a wide range of applications such as:

- supplying water
- the circulation of hot water for central heating
- the circulation of cold water for air conditioning and refrigerating
- the transfer of liquids in agriculture, horticulture and in industries
- the implementation of pumping systems

These pumps can be coupled with elastic coupling (standard or spacer) to a 2 or 4 poles electric motor and mounted on a pressed sheet base complying with UNI EN 23661.

### Constructional features of the pump

Single-stage, cast iron spiral body made to DIN-EN 733 (formerly DIN 24255), seal holder cover and support in cast iron, flanges made to DIN 2533 and DIN 2532 for DN 200.

Impeller in cast iron, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable wear rings.

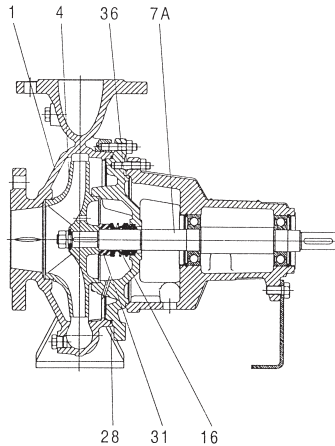
Stainless steel pump shaft supported by two large maintenance-free greased ball bearings, greased for life and housed inside a special chamber of the support.

Standard seal: standardised mechanical seal made to DIN 24960 in carbon/carborundum with O' rings in EPDM.

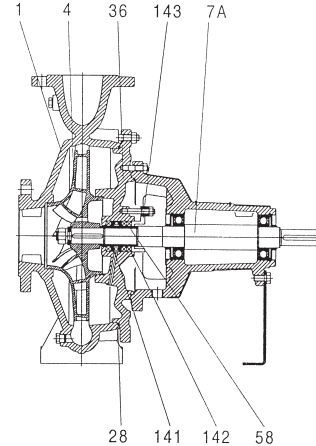
Packing with lubricating hydraulic ring and stuffing box in two easily removable parts, available on request.

## TECHNICAL DATA

**STANDARD VERSION WITH MECHANICAL SEAL**



**VERSION ON REQUEST WITH PACKING**



### STANDARD VERSION WITH MECHANICAL SEAL

| N. | PARTS            | MATERIALS                              |
|----|------------------|----------------------------------------|
| 1  | PUMP BODY        | CAST IRON 250 UNI ISO 185              |
| 4  | IMPELLER         | CAST IRON 250 UNI ISO 185              |
| 7A | PUMP SHAFT       | STAINLESS STEEL AISI 420 - UNI 6900/71 |
| 28 | GASKET OR        | VITON                                  |
| 36 | SEAL HOLDER DISK | CAST IRON 250 UNI ISO 185              |
| 16 | MECHANICAL SEAL  | CARBON/CARBORUNDUM                     |
| 31 | SPACER SEAL      | STAINLESS STEEL AISI 304 - UNI 6900/71 |

### VERSION ON REQUEST WITH PACKING

| N.  | PARTS          | MATERIALS                              |
|-----|----------------|----------------------------------------|
| 58  | BUSH FOR SEAL  | STAINLESS STEEL AISI 420 - UNI 6900/71 |
| 141 | HYDRAULIC RING | STAINLESS STEEL AISI 304 - UNI 6900/71 |
| 142 | PACKING        | PTFE IMPREGNATED RAMIE                 |

- Rotation speed: 1450 - 2900 1/min.
- Operating range: from 1 to 500 m<sup>3</sup>/h with a head of up to 100 m.
- Pumped liquid: without solid or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral, close to water characteristics.
- Liquid temperature range: from -10°C to +140°C.
- Maximum ambient temperature: +40°C.
- Maximum working pressure: 16 bar - 1600 kPa (for DN 200 max 10 bar).
- Flanging: PN 16 DIN 2533  
PN 10 DIN 2532 per DN 200
- Installation: normally horizontal.
- Special version on request: pumps for liquids other than water.  
Packing (that can also be fed externally).  
Other voltages and/or frequencies.

## Description of the product

In the description of the bare shaft pump no mention is made of the coupling or motor data.

In the description of the pumps mounted on a base without a motor, the motor's data are not mentioned.

The example given describes an NK 100-200 type pump with a cast iron 198 Ø impeller, with BAQE type mechanics, standard coupling and 4-poles 5.5 kW motor running on 380-415 V 50 Hz.

| Example                                 |  | KDN 100 - 200 / 198 A W / BAQE / 1 / 5,5 / 4 |  |  |  |
|-----------------------------------------|--|----------------------------------------------|--|--|--|
| Type                                    |  |                                              |  |  |  |
| Nominal diameter of discharge port (DN) |  |                                              |  |  |  |
| Nominal diameter of the impeller        |  |                                              |  |  |  |
| Actual diameter of the impeller         |  |                                              |  |  |  |
| Material codes:                         |  |                                              |  |  |  |
| A (01): Cast iron                       |  |                                              |  |  |  |
| B (03): Cast iron with bronze impeller  |  |                                              |  |  |  |
| Wear rings (only when existing)         |  |                                              |  |  |  |
| Seal code                               |  |                                              |  |  |  |
| Type of pump/motor coupling             |  |                                              |  |  |  |
| 0 = Without coupling (bare shaft pump)  |  |                                              |  |  |  |
| 1 = With elastic standard coupling      |  |                                              |  |  |  |
| 2 = With elastic spacer coupling        |  |                                              |  |  |  |
| Motor power in kW                       |  |                                              |  |  |  |
| Voltage and number of motor poles       |  |                                              |  |  |  |

## Pump material codes

| Component         | Version              |                                       |
|-------------------|----------------------|---------------------------------------|
|                   | A (01) cast iron     | B (03) cast iron with bronze impeller |
| Pump body         | GG25                 | GG25                                  |
| Seal holder disk  | GG25                 | GG25                                  |
| Stuffing box      | OT Cu 62 Si1         | OT Cu 62 Si1                          |
| Impeller          | GG25                 | GCuSn5Zn5Pb5<br>UNI 7013/8a-72        |
| Consumable rings* | GG20                 | GG20                                  |
| Pump shaft        | AISI 420 UNI 6900/71 |                                       |
| Shaft sleeve**    | AISI 420 UNI 6900/71 |                                       |

## Packing codes

| Item | Code | Description of the packing |
|------|------|----------------------------|
| 1    | S    | Stuffing box type          |
| Item | Code | Cooling                    |
| 2    | N    | Stuffing box not cooled    |
|      | K    | Stuffing box cooled        |
| Item | Code | Sealing liquid             |
| 3    | E    | With internal liquid       |
|      | F    | With external liquid       |
|      | O    | Without hydraulic ring     |

\* on request

\*\* only for packing or balanced mechanical seal

## Description of the mechanical seal

| Item  | Code | Description of the seal   |
|-------|------|---------------------------|
| 1     | A    | O ring with fixed guide   |
|       | B    | Rubber bellows seal       |
|       | C    | O ring with spring guide  |
|       | D    | Balanced O ring           |
|       | M    | Metal bellows seal        |
|       | X    | Other seal types          |
| Item  | Code | Materials                 |
| 2 & 3 | A    | Impregnated carbon/metal  |
|       | B    | Impregnated carbon/resin  |
|       | C    | Other carbon types        |
|       | S    | Chromium steel            |
|       | U    | Tungsten carbide          |
|       | Q    | Carborundum               |
|       | V    | Aluminium oxide (ceramic) |
|       | X    | Other ceramic types       |
| Item  | Code | Materials                 |
| 4     | P    | Nitrile rubber (NBR)      |
|       | S    | Silicone rubber           |
|       | T    | Teflon (PTFE)             |
|       | E    | EPDM                      |
|       | V    | Viton                     |
|       | M    | PTFE coated O ring        |
| Item  | Code | Materials                 |
| 5     | v    | Reinforced                |

## Description of the product code

| Impeller's nominal diameter | Code |
|-----------------------------|------|
| 125                         | 1    |
| 160                         | 2    |
| 200                         | 3    |
| 250                         | 4    |
| 315                         | 5    |
|                             |      |
| 125.1                       | K    |
| 160.1                       | L    |
| 200.1                       | M    |

| Pump type | Code |
|-----------|------|
| KDN 32    | 1    |
| KDN 40    | 2    |
| KDN 50    | 3    |
| KDN 65    | 4    |
| KDN 80    | 5    |
| KDN 100   | 6    |
| KDN 125   | 7    |
| KDN 150   | 8    |

| Identification   | Code |
|------------------|------|
| DAB PUMPS S.p.A. | D    |

|                  | Code |
|------------------|------|
|                  |      |
| DAB PUMPS S.p.A. | 1    |

| Code | Pump/impeller materials      |
|------|------------------------------|
| 1    | A (01) = cast iron/cast iron |
| 2    | B (03) = cast iron/bronze    |
| 3    |                              |
| 4    |                              |
| 5    | A (01) + Wr*                 |
| 6    | B (03) + Wr*                 |
| 7    |                              |
| 8    |                              |

\* With consumable rings

| Code | Seal available |
|------|----------------|
| 1    | BAQE           |
| 2    | BAQE-RMG12     |
| 5    | BQQV*          |
| 7    | BAQV*          |
| A    | SNE*           |
| B    | SNO*           |
| C    | SNF*           |
| G    | BQQE*          |

\* On request

| Code | P2 nominal kW |
|------|---------------|
| 0    | Bare shaft    |
| 1    | 0,37          |
| 2    | 0,55          |
| 3    | 0,75          |
| 4    | 1,1           |
| 5    | 1,5           |
| 6    | 2,2           |
| 7    | 3             |
| 8    | 4             |
| 9    | 5,5           |
| A    | 7,5           |
| B    | 11            |
| C    | 15            |
| D    | 18,5          |
| E    | 22            |
| F    | 30            |
| G    | 37            |
| H    | 45            |
| K    | 55            |
| L    | 75            |
| M    | 90            |
| N    | 110           |
| P    | 132           |

| Code | Coupling                       |
|------|--------------------------------|
| 0    | Without coupling*              |
| 1    | With elastic standard coupling |
| 2    | With elastic spacer coupling   |

\* Bare shaft pump

| Code | Voltage                                               | Poles |
|------|-------------------------------------------------------|-------|
| 0    | Without motor                                         |       |
| 1    | 3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz | 2     |
| 2    | 3x380-415 50 Hz 3x380-460V 60 Hz                      | 2     |
| 3    | 3x220-240 / 380-415V 50 Hz 3x220-265 / 380-460V 60 Hz | 4     |
| 4    | 3x380-415 50 Hz 3x380-460V 60 Hz                      | 4     |
| 5    | 3x380-415V 50 Hz (with inverter)                      | 2     |
| 6    | 3x380-415V 50 Hz (with inverter)                      | 4     |

Product code

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | D | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|---|---|---|---|---|---|---|---|---|

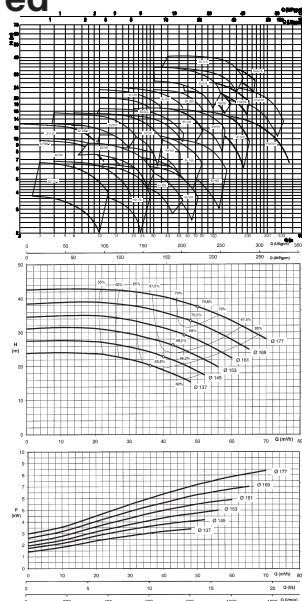
← Bare shaft pump → 0 0 0  
 ← Pump on base without motor → 0  
 ← Complete motor-driven pump with base →



## STANDARDIZED MOTOR-DRIVEN PUMPS ON BASEPLATE

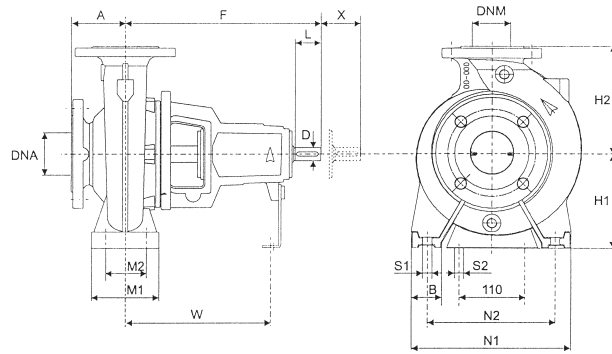
Special versions on request: other voltages and/or frequencies.

4. There are likely to be variations in the rate of flow of the liquid pumped causing an oscillation of the functioning point, in which case the power absorbed could be greater. When choosing the motor, allow the following safety margins:

[illegible]

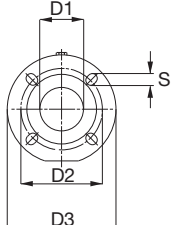
6. The pump and base required will be delivered already assembled and aligned, although an alignment check is always required after installation (see INSTRUCTION MANUAL).

## Dimensions of bare shaft pumps



| MODEL        | η max<br>1450 min <sup>-1</sup> |        | η max<br>2900 min <sup>-1</sup> |        | Flange<br>dimensions |     | Pump dimensions |     |     |     | Support dimensions |     |     |     |     |     | Holes for<br>bolts |     | Shaft end |    | X   | WEIGHT<br>Kg |     |     |     |     |
|--------------|---------------------------------|--------|---------------------------------|--------|----------------------|-----|-----------------|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----------|----|-----|--------------|-----|-----|-----|-----|
|              | Q<br>m³/h                       | H<br>m | Q<br>m³/h                       | H<br>m | DNA                  | DNM | A               | F   | H1  | H2  | B                  | M1  | M2  | N1  | N2  | W   | S1                 | S2  | D         | L  |     |              |     |     |     |     |
| KDN 32-125.1 | 10.5                            | 5.5    | 20,9                            | 22     | 50                   | 32  | 80              | 360 | 112 | 140 | 50                 | 100 | 70  | 190 | 140 | 260 | M12                | M12 | 24        | 50 | 100 | 37           |     |     |     |     |
| KDN 32-125   | 13.6                            | 5.8    | 28                              | 22.8   |                      |     |                 |     |     |     |                    |     |     |     |     |     |                    |     |           |    |     | 36           |     |     |     |     |
| KDN 32-160.1 | 8.7                             | 8.3    | 17.5                            | 33     |                      |     |                 |     |     | 132 |                    |     |     | 160 |     |     |                    |     |           |    |     | 240          | 190 |     |     | 38  |
| KDN 32-160   | 15.9                            | 8.6    | 31                              | 34     |                      |     |                 |     |     |     |                    |     |     |     |     |     |                    |     |           |    |     |              |     |     |     | 38  |
| KDN 32-200.1 | 8.5                             | 11.4   | 18                              | 45     |                      |     |                 |     |     | 160 |                    |     |     | 180 |     |     |                    |     |           |    |     |              |     |     |     | 46  |
| KDN 32-200   | 17.7                            | 13.2   | 35.5                            | 52.5   |                      |     |                 |     |     |     |                    |     |     |     |     |     |                    |     |           |    |     |              |     |     |     | 46  |
| KDN 40-125   | 21.8                            | 5.6    | 46                              | 21.5   | 65                   | 40  | 80              | 360 | 112 | 140 | 50                 | 100 | 70  | 210 | 160 | 260 | M12                | M12 | 24        | 50 | 100 | 39           |     |     |     |     |
| KDN 40-160   | 25.8                            | 9.2    | 50                              | 37.2   |                      |     |                 |     |     | 132 |                    |     |     | 160 |     |     |                    |     |           |    |     | 240          | 190 |     | 41  |     |
| KDN 40-200   | 29                              | 12.6   | 57                              | 51     |                      |     | 100             |     |     | 160 |                    |     | 180 |     | 265 |     |                    |     |           |    |     | 212          |     | 49  |     |     |
| KDN 40-250   | 31                              | 19.1   | 62                              | 77     |                      |     |                 |     | 180 | 225 |                    |     | 65  | 125 | 95  |     |                    |     |           |    |     | 320          | 250 |     | 57  |     |
| KDN 50-125   | 41                              | 5.4    | 83                              | 21.5   | 65                   | 50  | 100             | 360 | 132 | 160 | 50                 | 100 | 70  | 240 | 190 | 260 | M12                | M12 | 24        | 50 | 100 | 42           |     |     |     |     |
| KDN 50-160   | 43.3                            | 9.3    | 87.5                            | 37     |                      |     |                 |     |     | 160 |                    |     |     | 180 |     |     |                    |     |           |    |     | 265          | 212 |     | 44  |     |
| KDN 50-200   | 41                              | 14     | 81                              | 56     |                      |     |                 |     |     | 200 |                    |     |     |     |     |     |                    |     |           |    |     |              |     | 51  |     |     |
| KDN 50-250   | 49                              | 19.1   | 100                             | 76     |                      |     |                 |     |     | 180 |                    |     | 225 | 65  | 125 |     |                    |     |           |    |     | 95           | 320 | 250 |     | 59  |
| KDN 65-125   | 57                              | 5.2    | 114                             | 21     | 80                   | 65  | 100             | 360 | 160 | 180 | 65                 | 125 | 95  | 280 | 212 | 260 | M12                | M12 | 24        | 50 | 100 | 46           |     |     |     |     |
| KDN 65-160   | 61                              | 8.6    | 121                             | 34.5   |                      |     |                 |     |     | 200 |                    |     |     |     |     |     |                    |     |           |    |     |              | 47  |     |     |     |
| KDN 65-200   | 62                              | 14.8   | 123                             | 59     |                      |     |                 |     |     | 180 |                    |     |     | 225 | 320 |     |                    |     |           |    | 250 |              | 140 | 66  |     |     |
| KDN 65-250   | 65.4                            | 20     | 129                             | 81     |                      |     |                 |     | 470 | 200 | 250                | 80  | 160 | 120 | 360 | 280 | 340                | M16 |           | 32 | 80  |              | 93  |     |     |     |
| KDN 65-315   | 84                              | 31.5   | —                               | —      |                      |     |                 |     | 125 | 225 | 280                |     |     |     | 400 | 315 |                    |     |           |    |     |              |     | 112 |     |     |
| KDN 80-160   | 101                             | 8.1    | 195                             | 33.5   | 100                  | 80  | 125             | 360 | 180 | 225 | 65                 | 125 | 95  | 320 | 250 | 260 | M12                | M12 | 24        | 50 | 140 | 55           |     |     |     |     |
| KDN 80-200   | 101                             | 14.4   | 200                             | 57.5   |                      |     |                 |     | 470 |     |                    |     |     | 250 |     |     |                    |     |           |    |     | 345          | 280 | 340 |     | 32  |
| KDN 80-250   | 103                             | 23     | 215                             | 88     |                      |     |                 |     |     | 200 | 280                | 80  | 160 | 120 | 400 |     | 315                |     | M16       |    |     |              |     |     | 104 |     |
| KDN 80-315   | 136                             | 35     | —                               | —      |                      |     |                 |     |     | 250 | 315                |     |     |     |     |     |                    |     |           |    |     |              |     |     |     | 122 |
| KDN 100-200  | 163                             | 13.4   | 315                             | 53     | 125                  | 100 | 125             | 470 | 200 | 280 | 80                 | 160 | 120 | 360 | 280 | 340 | M16                | M12 | 32        | 80 | 140 | 96           |     |     |     |     |
| KDN 100-250  | 159                             | 21.8   | 313                             | 87     |                      |     | 140             |     | 225 |     |                    |     |     |     | 400 |     |                    |     |           |    |     | 315          |     | 111 |     |     |
| KDN 100-315  | 187                             | 34.1   | —                               | —      |                      |     |                 |     | 250 | 315 |                    |     |     |     |     |     |                    |     |           |    |     |              |     |     | 126 |     |
| KDN 125-250  | 289                             | 20.5   | —                               | —      | 150                  | 125 | 140             | 470 | 250 | 355 | 80                 | 160 | 120 | 400 | 315 | 340 | M16                | M12 | 32        | 80 | 140 | 135          |     |     |     |     |
| KDN 150-200  | 378                             | 10     | —                               | —      | 200                  | 150 | 160             | 470 | 280 | 400 | 100                | 200 | 150 | 550 | 450 | 340 | M20                | M12 | 32        | 80 | 140 | 178          |     |     |     |     |

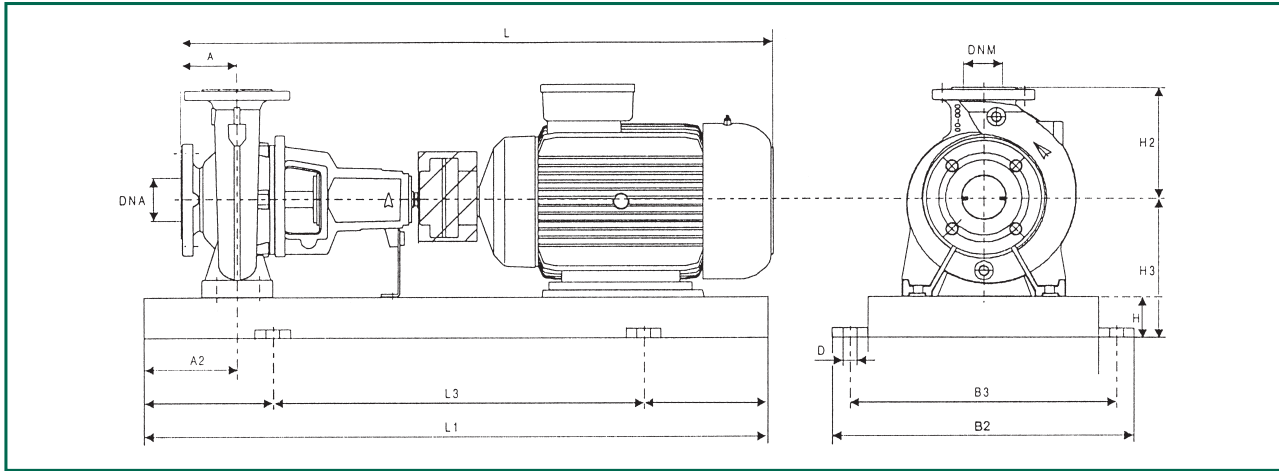
The sizes 32-125.1, 32-160.1, 32-200.1 e 150-200 are supplementary sizes and not included in DIN-EN 733 (ex DIN 24255) standard.

|  | Nominal diameter (DN) |     |     |     |     |     |     |     |                |
|-------------------------------------------------------------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|----------------|
|                                                                                     | DIN 2533 PN 16        |     |     |     |     |     |     |     | DIN 2532 PN 10 |
|                                                                                     | 32                    | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200            |
| <b>D<sub>1</sub></b>                                                                | 32                    | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200            |
| <b>D<sub>2</sub></b>                                                                | 100                   | 110 | 125 | 145 | 160 | 180 | 210 | 240 | 295            |
| <b>D<sub>3</sub></b>                                                                | 140                   | 150 | 165 | 185 | 200 | 220 | 250 | 285 | 340            |
| <b>S</b>                                                                            | 18                    | 18  | 18  | 18  | 18  | 18  | 18  | 22  | 22             |
| <b>n° holes</b>                                                                     | 4                     | 4   | 4   | 4   | 8   | 8   | 8   | 8   | 8              |



**HIARTEK**

## Dimensions and electrical data of a complete motor-driven pump



| MODEL        | Power (kW) |         | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |    |     |    |     |     |     |      |     |     |     |           | Standard coupling |           | Spacer coupling |     | Ref. |     |     |      |
|--------------|------------|---------|------------|----------------------|-----------|-------------------|-----|----------------------|----|-----|----|-----|-----|-----|------|-----|-----|-----|-----------|-------------------|-----------|-----------------|-----|------|-----|-----|------|
|              | 4 poles    | 2 poles |            |                      |           | DNA               | DNM | A                    | A2 | H2  | H  | H3  | L1  | L3  | B2   | B3  | D   | L   | Weight Kg | L                 | Weight Kg |                 |     |      |     |     |      |
| KDN 32-125.1 | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 140 | 65 | 177 | 800 | 540 | 360  | 320 | 19  | 694 | 81        | 794               | 86        | 2               |     |      |     |     |      |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |    |     |     |     |      |     |     | 737 | 83        | 837               | 88        | 2               |     |      |     |     |      |
|              | —          | 0.75    | MEC 80     | 230/400V             | 2,88-1,66 |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 85        |                   | 89        | 2               |     |      |     |     |      |
|              | —          | 1.1     | MEC80      | 230/400V             | 4-2,3     |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 86        |                   | 90        | 2               |     |      |     |     |      |
|              | —          | 1.5     | MEC 90S    | 230/400V             | 5,75-3,3  |                   |     |                      |    |     |    |     |     | 789 | 93   | 889 | 91  | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |    |     |     |     | 100  |     | 98  | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |    |     |     | 826 | 102  | 936 | 105 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |     | 846 | 102  | 946 | 107 | 3   |           |                   |           |                 |     |      |     |     |      |
| KDN 32-125   | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 140 | 65 | 177 | 800 | 540 | 360  | 320 | 19  | 694 | 81        | 794               | 86        | 2               |     |      |     |     |      |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |    |     |     |     |      |     |     | 737 | 83        | 837               | 88        | 2               |     |      |     |     |      |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 84        |                   | 89        | 2               |     |      |     |     |      |
|              | —          | 1.1     | MEC 80     | 230/400V             | 4-2,3     |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 85        |                   | 90        | 2               |     |      |     |     |      |
|              | —          | 1.5     | MEC 90S    | 230/400V             | 5,75-3,3  |                   |     |                      |    |     |    |     |     | 789 | 86   | 889 | 91  | 2   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |    |     |     |     | 93   |     | 98  | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |    |     |     | 826 | 96,3 | 926 | 105 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |     | 846 | 117  | 946 | 107 | 3   |           |                   |           |                 |     |      |     |     |      |
| KDN 32-160.1 | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 160 | 65 | 197 | 800 | 540 | 360  | 320 | 19  | 694 | 83        | 794               | 88        | 2               |     |      |     |     |      |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |    |     |     |     |      |     |     | 737 | 86        | 837               | 90        | 2               |     |      |     |     |      |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 86        |                   | 91        | 2               |     |      |     |     |      |
|              | —          | 1.1     | MEC 80     | 230/400V             | 4-2,3     |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 91        |                   | 96        | 2               |     |      |     |     |      |
|              | —          | 1.5     | MEC 90S    | 230/400V             | 5,75-3,3  |                   |     |                      |    |     |    |     |     | 789 | 94   | 889 | 99  | 2   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |    |     |     |     | 102  |     | 100 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |    |     |     | 826 | 102  | 926 | 107 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |     | 846 | 104  | 946 | 109 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     |    |     |     |     |      |     |     |     |           |                   |           |                 |     |      |     |     |      |
| KDN 32-160   | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 160 | 65 | 197 | 800 | 540 | 360  | 320 | 19  | 694 | 83        | 794               | 88        | 2               |     |      |     |     |      |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |    |     |     |     |      |     |     | 737 | 85        | 837               | 90        | 2               |     |      |     |     |      |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 86        |                   | 91        | 2               |     |      |     |     |      |
|              | 1.1        | —       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |    |     |     |     |      |     |     |     | 789       | 88                | 889       | 93              | 2   |      |     |     |      |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |    |     |     |     | 92   |     | 100 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |    |     |     | 826 | 102  | 926 | 107 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |     | 846 | 104  | 946 | 109 | 3   |           |                   |           |                 |     |      |     |     |      |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     |    |     |     |     |      |     |     |     |           |                   |           |                 |     |      |     |     |      |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |    |     |     |     |      |     |     | 80  | 212       | 1000              | 660       | 450             | 400 | 24   | 959 | 136 | 1059 |

## Dimensions and electrical data of a complete motor-driven pump

| MODEL        | Power (kW) |         | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |    |     |     |      |      |     |     |     |    | Standard coupling |           | Spacer coupling |           | REF. |
|--------------|------------|---------|------------|----------------------|-----------|-------------------|-----|----------------------|----|-----|-----|------|------|-----|-----|-----|----|-------------------|-----------|-----------------|-----------|------|
|              | 4 poles    | 2 poles |            |                      |           | DNA               | DNM | A                    | A2 | H2  | H   | H3   | L1   | L3  | B2  | B3  | D  | L                 | Weight Kg | L               | Weight Kg |      |
| KDN 32-200.1 | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 180 | 65  | 225  | 800  | 540 | 360 | 320 | 19 | 694               | 87        | 794             | 92        | 2    |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |     |      |      |     |     |     |    | 737               | 89        | 837             | 94        | 2    |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 101       |                 | 95        | 2    |
|              | 1.1        | —       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |     |      |      |     |     |     |    | 789               | 106       | 889             | 97        | 2    |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |     |      | 900  | 600 | 390 | 350 |    |                   | 108       |                 | 106       | 3    |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |     |      |      |     |     |     |    | 826               | 140       | 926             | 111       | 3    |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |     |      |      |     |     |     |    | 846               | 143       | 946             | 113       | 3    |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80  | 240  | 1000 | 660 | 450 | 400 | 24 | 959               | 143       | 1059            | 145       | 4    |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 166       |                 | 148       | 4    |
| KDN 32-200   | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 50                | 32  | 80                   | 60 | 180 | 65  | 225  | 800  | 540 | 360 | 320 | 19 | 846               | 87        | 794             | 92        | 2    |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |     |      |      |     |     |     |    | 737               | 89        | 837             | 94        | 2    |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 90        |                 | 95        | 2    |
|              | 1.1        | —       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |     |      |      |     |     |     |    | 789               | 101       | 889             | 97        | 2    |
|              | 1.5        | —       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |     |      | 900  | 600 | 390 | 350 |    |                   | 101       |                 | 105       | 3    |
|              | 2.2        | —       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |     |      |      |     |     |     |    | 826               | 102       | 926             | 109       | 3    |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 103       |                 | 126       | 3    |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |     |      |      |     |     |     |    | 846               | 104       | 946             | 134       | 3    |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80  | 240  | 1000 | 660 | 450 | 400 | 24 | 959               | 143       | 1059            | 145       | 4    |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 177       |                 | 148       | 4    |
|              | —          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |     |      | 1120 | 740 | 490 | 440 |    | 1069              | 237       | 1169            | 172       | 5    |
|              | —          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 248       |                 | 182       | 5    |
| KDN 40-125   | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 65                | 40  | 80                   | 60 | 140 | 65  | 177  | 800  | 540 | 360 | 320 | 19 | 694               | 81        | 794             | 86        | 2    |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |     |      |      |     |     |     |    | 737               | 83        | 837             | 88        | 2    |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 84        |                 | 89        | 2    |
|              | 1.1        | —       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |     |      |      |     |     |     |    | 789               | 86        | 889             | 81        | 2    |
|              | —          | 1.5     | MEC 90S    | 230/400V             | 5,75-3,3  |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 86        |                 | 97        | 2    |
|              | —          | 2.2     | MEC 90L    | 230/400V             | 7,9-4,55  |                   |     |                      |    |     |     |      | 900  | 600 | 390 | 350 |    |                   | 91        |                 | 100       | 3    |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |     |      |      |     |     |     |    | 826               | 91        | 926             | 105       | 3    |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |     |      |      |     |     |     |    | 846               | 102       | 946             | 107       | 3    |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80  | 212  | 1000 | 660 | 450 | 400 | 24 | 959               | 134       | 1059            | 139       | 4    |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 137       |                 | 142       | 4    |
| KDN 40-160   | 0.37       | —       | MEC 71     | 230/400V             | 1,7-0,975 | 65                | 40  | 80                   | 60 | 160 | 65  | 197  | 800  | 540 | 360 | 320 | 19 | 694               | 85        | 794             | 87        | 2    |
|              | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |     |      |      |     |     |     |    | 737               | 89        | 837             | 90        | 2    |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 89        |                 | 91        | 2    |
|              | 1.1        | —       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |     |      |      |     |     |     |    | 789               | 91        | 889             | 93        | 2    |
|              | 1.5        | —       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |     |      | 900  | 600 | 390 | 350 |    |                   | 101       |                 | 101       | 3    |
|              | —          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |     |      |      |     |     |     |    | 826               | 102       | 926             | 106       | 3    |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |     |      |      |     |     |     |    | 846               | 104       | 946             | 109       | 3    |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80  | 212  | 1000 | 660 | 450 | 400 | 24 | 959               | 160       | 1059            | 141       | 4    |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 165       |                 | 144       | 4    |
|              | —          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     | 240 | 1120 | 740  | 490 | 440 |     |    | 1069              | 173       | 1169            | 168       | 5    |
|              | —          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 173       |                 | 178       | 5    |
| KDN 40-200   | 0.55       | —       | MEC 80     | 230/400V             | 2,6-1,5   | 65                | 40  | 100                  | 60 | 180 | 65  | 225  | 900  | 600 | 390 | 350 | 19 | 757               | 98        | 857             | 103       | 3    |
|              | 0.75       | —       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 98        |                 | 106       | 3    |
|              | 1.1        | —       | MEC 90S    | 230/400              | 4,35-2,5  |                   |     |                      |    |     |     |      |      |     |     |     |    | 809               | 101       | 909             | 109       | 3    |
|              | 1.5        | —       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 105       |                 | 113       | 3    |
|              | 2.2        | —       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |     |      |      |     |     |     |    | 846               | 111       | 946             | 116       | 3    |
|              | 3          | —       | MEC 100L   | 400V Ø               | 6,7       |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 118       |                 | 120       | 3    |
|              | —          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |     |      |      |     |     |     |    | 869               | 135       | 969             | 140       | 3    |
|              | —          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80  | 240  | 1000 | 660 | 450 | 400 | 24 | 979               | 146       | 1079            | 151       | 4    |
|              | —          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 147       |                 | 152       | 4    |
|              | —          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |     |      | 1120 | 740 | 490 | 440 |    | 1089              | 221       | 1189            | 176       | 5    |
|              | —          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |     |      |      |     |     |     |    |                   | 231       |                 | 186       | 5    |
|              | —          | 18.5    | MEC 160L   | 400V Ø               | 33        |                   |     |                      |    |     |     |      |      |     |     |     |    | 1134              | 231       | 1234            | 208       | 5    |

**HIARTEK**

| MODEL      | Power (kW) |         | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |    |     |    |     |      |      |      |      |     |      | Standard coupling |      | Spacer coupling |      | REF. |      |      |     |
|------------|------------|---------|------------|----------------------|-----------|-------------------|-----|----------------------|----|-----|----|-----|------|------|------|------|-----|------|-------------------|------|-----------------|------|------|------|------|-----|
|            | 4 poles    | 2 poles |            |                      |           | DNA               | DNM | A                    | A2 | H2  | H  | H3  | L1   | L3   | B2   | B3   | D   | L    | Weight Kg         | L    | Weight Kg       |      |      |      |      |     |
| KDN 40-250 | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    | 65                | 40  | 100                  | 75 | 225 | 80 | 260 | 1000 | 660  | 450  | 400  | 24  | 809  | 125               | 909  | 130             | 4    |      |      |      |     |
|            | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |    |     |      |      |      |      |     | 846  | 129               | 946  | 134             | 4    |      |      |      |     |
|            | 3          | –       | MEC 100L   | 400V Ø               | 6,7       |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 149               |      | 137             | 4    |      |      |      |     |
|            | 4          | –       | MEC 112M   | 400V Ø               | 8,1       |                   |     |                      |    |     |    |     |      |      |      |      |     | 869  | 200               | 969  | 141             | 4    |      |      |      |     |
|            | –          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |    |     | 1250 | 840  | 540  | 490  |     | 1089 | 236               | 1189 | 231             | 6    |      |      |      |     |
|            | –          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 278               |      | 234             | 6    |      |      |      |     |
|            | –          | 18.5    | MEC 160L   | 400V Ø               | 33        |                   |     |                      |    |     |    |     |      |      |      |      |     | 1134 | 298               | 1234 | 236             | 6    |      |      |      |     |
|            | –          | 22      | MEC 180M   | 400V Ø               | 39        |                   |     |                      |    |     |    |     |      |      |      |      |     | 1160 | 320               | 1260 | 256             | 6    |      |      |      |     |
|            | –          | 30      | MEC 200L   | 400V Ø               | 53,5      |                   |     |                      |    |     |    | 100 | 300  | 1400 | 940  | 610  | 550 | 28   | 1240              | 320  | 1340            | 307  | 7    |      |      |     |
| KDN 50-125 | 0.37       | –       | MEC 71     | 230/400V             | 1,7-0,975 | 65                | 50  | 100                  | 60 | 160 | 65 | 197 | 800  | 540  | 360  | 320  | 19  | 714  | 87                | 814  | 92              | 2    |      |      |      |     |
|            | 0.55       | –       | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |    |     |    |     |      |      |      |      |     | 757  | 90                | 857  | 95              | 2    |      |      |      |     |
|            | 0.75       | –       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 91                |      | 96              | 2    |      |      |      |     |
|            | 1.1        | –       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |    |     |      |      |      |      |     | 809  | 93                | 909  | 98              | 2    |      |      |      |     |
|            | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |    |     | 900  | 600  | 390  | 350  |     | 101  |                   | 106  | 3               |      |      |      |      |     |
|            | –          | 3       | MEC 100L   | 400V Ø               | 5,9       |                   |     |                      |    |     |    |     |      |      |      |      |     | 846  | 105               | 946  | 135             | 3    |      |      |      |     |
|            | –          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |      |      |      |      |     | 869  | 109               | 969  | 143             | 3    |      |      |      |     |
|            | –          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80 | 212 | 1000 | 660  | 450  | 400  | 24  | 979  | 143               | 1079 | 146             | 4    |      |      |      |     |
|            | –          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 143               |      | 149             | 4    |      |      |      |     |
|            | –          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |    |     | 240  | 1120 | 740  | 490  |     | 1089 | 143               | 1189 | 173             | 5    |      |      |      |     |
| KDN 50-160 | 0.55       | –       | MEC 80     | 230/400V             | 2,6-1,5   | 65                | 50  | 100                  | 60 | 180 | 65 | 225 | 900  | 600  | 390  | 350  | 19  | 757  | 97                | 857  | 102             | 3    |      |      |      |     |
|            | 0.75       | –       | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 98                |      | 103             | 3    |      |      |      |     |
|            | 1.1        | –       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |    |     |      |      |      |      |     | 809  | 100               | 909  | 105             | 3    |      |      |      |     |
|            | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 103               |      | 108             | 3    |      |      |      |     |
|            | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |    |     |      |      |      |      |     | 846  | 107               | 946  | 112             | 3    |      |      |      |     |
|            | 3          | –       | MEC 100L   | 400V Ø               | 6,7       |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 110               |      | 115             | 3    |      |      |      |     |
|            | –          | 4       | MEC 112M   | 400V Ø               | 7,8       |                   |     |                      |    |     |    |     |      |      |      |      |     | 869  | 132               | 969  | 137             | 3    |      |      |      |     |
|            | –          | 5.5     | MEC 132S   | 400V Ø               | 10,2      |                   |     |                      |    |     | 80 | 240 | 1000 | 660  | 450  | 400  | 24  | 979  | 143               | 1079 | 150             | 4    |      |      |      |     |
|            | –          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 177               |      | 151             | 4    |      |      |      |     |
|            | –          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |    |     | 1120 | 740  | 490  | 440  |     | 1089 | 188               | 1189 | 175             | 5    |      |      |      |     |
|            | –          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 200               |      | 185             | 5    |      |      |      |     |
|            | –          | 18.5    | MEC 160L   | 400V Ø               | 33        |                   |     |                      |    |     |    |     |      |      |      |      |     | 1134 | 202               | 1234 | 207             | 5    |      |      |      |     |
| KDN 50-200 | 0.75       | –       | MEC 80     | 230/400V             | 3,3-1,9   | 65                | 50  | 100                  | 60 | 200 | 65 | 225 | 900  | 600  | 390  | 350  | 19  | 757  | 104               | 857  | 109             | 3    |      |      |      |     |
|            | 1.1        | –       | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |    |     |    |     |      |      |      |      |     | 809  | 107               | 909  | 112             | 3    |      |      |      |     |
|            | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 114               |      | 114             | 3    |      |      |      |     |
|            | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |    |     |      |      |      |      |     | 846  | 123               | 946  | 118             | 3    |      |      |      |     |
|            | 3          | –       | MEC 100L   | 400V Ø               | 6,7       |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 122               |      | 121             | 3    |      |      |      |     |
|            | 4          | –       | MEC 112M   | 400V Ø               | 8,1       |                   |     |                      |    |     |    |     |      |      |      |      |     | 869  | 122               | 969  | 125             | 3    |      |      |      |     |
|            | –          | 7.5     | MEC 132S   | 400V Ø               | 13,6      |                   |     |                      |    |     | 80 | 240 | 1000 | 660  | 450  | 400  | 24  | 979  | 176               | 1079 | 169             | 4    |      |      |      |     |
|            | –          | 11      | MEC 160M   | 400V Ø               | 19,6      |                   |     |                      |    |     |    |     |      |      |      |      |     | 1120 | 740               | 490  | 440             | 1089 | 186  | 1189 | 181  | 5   |
|            | –          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |    |     |      |      |      |      |     |      |                   |      |                 |      | 280  |      | 191  | 5   |
|            | –          | 18.5    | MEC 160L   | 400V Ø               | 33        |                   |     |                      |    |     |    |     | 1134 | 283  | 1234 | 213  |     |      |                   |      |                 | 5    |      |      |      |     |
|            | –          | 22      | MEC 180M   | 400V Ø               | 39        |                   |     |                      |    |     |    |     | 260  | 1250 | 840  | 540  |     | 490  | 1164              | 290  | 1264            | 233  | 5    |      |      |     |
|            | –          | 30      | MEC 200L   | 400V Ø               | 53,5      |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 1244              | 290  | 1344            | 288  | 6    |      |      |     |
| KDN 50-250 | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  | 65                | 50  | 100                  | 75 | 225 | 80 | 260 | 1000 | 660  | 450  | 400  | 24  | 846  | 135               | 946  | 139             | 4    |      |      |      |     |
|            | 3          | –       | MEC 100L   | 400V Ø               | 6,7       |                   |     |                      |    |     |    |     |      |      |      |      |     |      | 138               |      | 145             | 4    |      |      |      |     |
|            | 4          | –       | MEC 112M   | 400V Ø               | 8,1       |                   |     |                      |    |     |    |     |      |      |      |      |     | 869  | 165               | 969  | 170             | 4    |      |      |      |     |
|            | 5,5        | –       | MEC 132S   | 400V Ø               | 10,6      |                   |     |                      |    |     |    |     |      |      |      |      |     | 1120 | 740               | 490  | 440             | 979  | 173  | 1079 | 178  | 5   |
|            | –          | 15      | MEC 160M   | 400V Ø               | 26,5      |                   |     |                      |    |     |    |     | 1089 | 260  | 1189 | 265  |     |      |                   |      |                 | 6    |      |      |      |     |
|            | –          | 18.5    | MEC 160L   | 400V Ø               | 33        |                   |     |                      |    |     |    |     | 1250 | 840  | 540  | 490  |     | 1134 | 289               | 1234 | 275             | 6    |      |      |      |     |
|            | –          | 22      | MEC 180M   | 400V Ø               | 39        |                   |     |                      |    |     |    |     |      |      |      |      |     | 1164 | 319               | 1264 | 304             | 6    |      |      |      |     |
|            | –          | 30      | MEC 200L   | 400V Ø               | 53,5      |                   |     |                      |    |     |    |     |      |      |      |      |     | 100  | 300               | 1400 | 940             | 610  | 550  | 28   | 1244 | 407 |
|            | –          | 37      | MEC 200L   | 400V Ø               | 64,5      |                   |     |                      |    |     |    | 333 |      | 331  | 7    |      |     |      |                   |      |                 |      |      |      |      |     |
|            | –          | 45      | MEC 225M   | 400V Ø               | 78        |                   |     |                      |    |     |    | 325 |      | 1299 | 374  | 1399 | 379 |      |                   |      |                 |      |      |      | 7    |     |
|            |            |         |            |                      |           |                   |     |                      |    |     |    |     |      |      |      |      |     |      |                   |      |                 |      |      |      |      |     |

## Dimensions and electrical data of a complete motor-driven pump

| MODEL      | Power (kW) |          | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |      |      |     |      |      |      |      |      |      |      | Standard coupling |      | Spacer coupling |      | REF. |     |      |      |      |      |     |   |
|------------|------------|----------|------------|----------------------|-----------|-------------------|-----|----------------------|------|------|-----|------|------|------|------|------|------|------|-------------------|------|-----------------|------|------|-----|------|------|------|------|-----|---|
|            | 4 poles    | 2 poles  |            |                      |           | DNA               | DNM | A                    | A2   | H2   | H   | H3   | L1   | L3   | B2   | B3   | D    | L    | Weight Kg         | L    | Weight Kg       |      |      |     |      |      |      |      |     |   |
| KDN 65-125 | 0.37       | –        | MEC 71     | 230/400V             | 1,7-0,975 | 80                | 65  | 100                  | 60   | 180  | 65  | 225  | 900  | 600  | 390  | 350  | 19   | 714  | 94                | 814  | 99              | 3    |      |     |      |      |      |      |     |   |
|            | 0.55       | –        | MEC 80     | 230/400V             | 2,6-1,5   |                   |     |                      |      |      |     |      |      |      |      |      |      | 757  | 97                | 857  | 102             | 3    |      |     |      |      |      |      |     |   |
|            | 0.75       | –        | MEC 80     | 230/400V             | 3,3-1,9   |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 98                |      | 103             | 3    |      |     |      |      |      |      |     |   |
|            | 1.1        | –        | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |      |      |     |      |      |      |      |      |      | 809  | 100               | 909  | 105             | 3    |      |     |      |      |      |      |     |   |
|            | 1.5        | –        | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 103               |      | 108             | 3    |      |     |      |      |      |      |     |   |
|            | 2.2        | –        | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |      |      |     |      |      |      |      |      |      | 846  | 107               | 946  | 112             | 3    |      |     |      |      |      |      |     |   |
|            | –          | 4        | MEC 112M   | 400V Δ               | 7,8       |                   |     |                      |      |      |     |      |      |      |      |      |      | 869  | 132               | 969  | 137             | 3    |      |     |      |      |      |      |     |   |
|            | –          | 5.5      | MEC 132S   | 400V Δ               | 10,2      |                   |     |                      |      |      |     |      |      |      |      |      |      | 80   | 240               | 1000 | 660             | 450  | 400  | 24  | 979  | 143  | 1079 | 148  | 4   |   |
|            | –          | 7.5      | MEC 132S   | 400V Δ               | 13,6      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 146  |      | 151  | 4   |   |
|            | –          | 11       | MEC 160M   | 400V Δ               | 19,6      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     | 1089 | 175  | 1189 | 175  | 5   |   |
|            | –          | 15       | MEC 160M   | 400V Δ               | 26,5      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 180  |      | 185  | 5   |   |
| KDN 65-160 | 0.75       | –        | MEC 80     | 230/400V             | 3,3-1,9   | 80                | 65  | 100                  | 60   | 200  | 65  | 225  | 900  | 600  | 390  | 350  | 19   | 757  | 101               | 857  | 106             | 3    |      |     |      |      |      |      |     |   |
|            | 1.1        | –        | MEC 90S    | 230/400V             | 4,35-2,5  |                   |     |                      |      |      |     |      |      |      |      |      |      | 809  | 103               | 909  | 108             | 3    |      |     |      |      |      |      |     |   |
|            | 1.5        | –        | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 114               |      | 111             | 3    |      |     |      |      |      |      |     |   |
|            | 2.2        | –        | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |      |      |     |      |      |      |      |      |      | 846  | 114               | 946  | 115             | 3    |      |     |      |      |      |      |     |   |
|            | 3          | –        | MEC 100L   | 400V Δ               | 6,7       |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 148               |      | 118             | 3    |      |     |      |      |      |      |     |   |
|            | –          | 5.5      | MEC 132S   | 400V Δ               | 10,2      |                   |     |                      |      |      |     |      |      |      |      |      |      | 80   | 240               | 1000 | 660             | 450  | 400  | 24  | 979  | 149  | 1079 | 153  | 4   |   |
|            | –          | 7.5      | MEC 132S   | 400V Δ               | 13,6      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 173  |      | 154  | 4   |   |
|            | –          | 11       | MEC 160M   | 400V Δ               | 19,6      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     | 1089 | 183  | 1189 | 178  | 5   |   |
|            | –          | 15       | MEC 160M   | 400V Δ               | 26,5      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 220  |      | 188  | 5   |   |
|            | –          | 18.5     | MEC 160L   | 400V Δ               | 33        |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 1134 | 220  | 1234 | 210 | 5 |
|            | –          | 22       | MEC 180M   | 400V Δ               | 39        |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 1164 | 220  | 1264 | 230 | 5 |
| KDN 65-200 | 1.1        | –        | MEC 90S    | 230/400V             | 4,35-2,5  | 80                | 65  | 100                  | 75   | 225  | 80  | 260  | 1000 | 660  | 450  | 400  | 24   | 809  | 141               | 909  | 146             | 4    |      |     |      |      |      |      |     |   |
|            | 1.5        | –        | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 143               |      | 148             | 4    |      |     |      |      |      |      |     |   |
|            | 2.2        | –        | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 846               | 147  | 946             | 152  | 5    |     |      |      |      |      |     |   |
|            | 3          | –        | MEC 100L   | 400V Δ               | 6,7       |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 150               |      | 155             | 5    |      |     |      |      |      |      |     |   |
|            | 4          | –        | MEC 112M   | 400V Δ               | 8,1       |                   |     |                      |      |      |     |      |      | 869  | 150  | 969  | 159  | 5    |                   |      |                 |      |      |     |      |      |      |      |     |   |
|            | 5,5        | –        | MEC 132S   | 400V Δ               | 10,6      |                   |     |                      |      |      |     |      |      | 979  | 200  | 1079 | 176  | 5    |                   |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 11       | MEC 160M   | 400V Δ               | 19,6      |                   |     |                      |      |      |     |      |      |      | 1089 | 267  | 1189 | 241  | 6                 |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 15       | MEC 160M   | 400V Δ               | 26,5      |                   |     |                      |      |      |     |      |      |      |      | 279  |      | 252  | 6                 |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 18.5     | MEC 160L   | 400V Δ               | 33        |                   |     |                      |      |      |     |      |      | 1134 | 289  | 1234 | 262  | 6    |                   |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 22       | MEC 180M   | 400V Δ               | 39        |                   |     |                      |      |      |     |      |      | 1164 | 332  | 1264 | 266  | 6    |                   |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 30       | MEC 200L   | 400V Δ               | 53,5      |                   |     |                      |      |      |     |      |      | 100  | 300  | 1400 | 940  | 610  | 550               | 28   | 1244            | 406  | 1344 | 317 | 7    |      |      |      |     |   |
|            | –          | 37       | MEC 200L   | 400V Δ               | 64,5      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 | 406  |      | 337 | 7    |      |      |      |     |   |
| KDN 65-250 | 3          | –        | MEC 100L   | 400V Δ               | 6,7       | 80                | 65  | 100                  | 90   | 250  | 80  | 280  | 1120 | 740  | 490  | 440  | 24   | 956  | 178               | 1096 | 183             | 5    |      |     |      |      |      |      |     |   |
|            | 4          | –        | MEC 112M   | 400V Δ               | 8,1       |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 979               | 185  | 1119            | 186  | 5    |     |      |      |      |      |     |   |
|            | 5,5        | –        | MEC 132S   | 400V Δ               | 10,6      |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 1089              | 201  | 1229            | 203  | 5    |     |      |      |      |      |     |   |
|            | 7.5        | –        | MEC 132M   | 400V Δ               | 14,4      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   | 257  |                 | 211  | 5    |     |      |      |      |      |     |   |
|            | 11         | –        | MEC 160M   | 400V Δ               | 20,8      |                   |     |                      |      |      |     |      |      |      |      | 1199 | 257  | 1339 | 253               | 6    |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 22       | MEC 180M   | 400V Δ               | 39        |                   |     |                      |      |      |     |      |      |      |      | 1274 | 319  | 1414 | 337               | 6    |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 30       | MEC 200L   | 400V Δ               | 53,5      |                   |     |                      |      |      |     |      | 100  | 300  | 1400 | 940  | 610  | 550  | 28                | 1354 | 460             | 1494 | 422  | 7   |      |      |      |      |     |   |
|            | –          | 37       | MEC 200L   | 400V Δ               | 64,5      |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      | 477             |      | 442  | 7   |      |      |      |      |     |   |
|            | –          | 45       | MEC 225M   | 400V Δ               | 78        |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      | 325             |      | 1409 | 550 | 1549 | 517  | 7    |      |     |   |
| –          | 55         | MEC 250M | 400V Δ     | 94,5                 |           |                   |     | 350                  | 1600 | 1060 | 660 | 600  |      | 1519 | 672  | 1659 | 612  | 8    |                   |      |                 |      |      |     |      |      |      |      |     |   |
| KDN 65-315 | 5,5        | –        | MEC 132S   | 400V Δ               | 10,6      | 80                | 65  | 125                  | 90   | 280  | 80  | 305  | 1250 | 840  | 540  | 490  | 24   | 1114 | 259               | 1254 | 244             | 6    |      |     |      |      |      |      |     |   |
|            | 7.5        | –        | MEC 132M   | 400V Δ               | 14,4      |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 292               |      | 249             | 6    |      |     |      |      |      |      |     |   |
|            | 11         | –        | MEC 160M   | 400V Δ               | 20,8      |                   |     |                      |      |      |     |      |      |      |      |      |      |      | 1224              | 297  | 1364            | 268  | 6    |     |      |      |      |      |     |   |
|            | 15         | –        | MEC 160L   | 400V Δ               | 27        |                   |     |                      |      |      |     |      |      |      |      |      |      | 100  | 325               | 1400 | 940             | 610  | 550  | 28  | 1269 | 297  | 1409 | 306  | 7   |   |
|            | 18.5       | –        | MEC 180M   | 400V Δ               | 33        |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      | 1299 | 322  | 1439 | 327 | 7 |
|            | –          | 45       | MEC 225M   | 400V Δ               | 78        |                   |     |                      | 1600 | 1060 | 660 | 600  | 28   | 1434 | 695  | 1574 | 582  |      |                   |      |                 |      |      |     | 8    |      |      |      |     |   |
|            | –          | 55       | MEC 250M   | 400V Δ               | 94,5      |                   |     |                      |      |      |     |      |      |      | 1544 | 695  | 1684 | 677  | 8                 |      |                 |      |      |     |      |      |      |      |     |   |
|            | –          | 75       | MEC 280S   | 400V Δ               | 128       |                   |     |                      |      |      |     |      |      |      | 1800 | 1200 | 730  | 670  | 28                | 1569 | 849             | 1709 | 827  | 9   |      |      |      |      |     |   |
|            | –          | 90       | MEC 280M   | 400V Δ               | 160       |                   |     |                      |      |      |     |      |      |      |      | 1619 | 669  | 1759 | 887               | 9    |                 |      |      |     |      |      |      |      |     |   |
| –          | 110        | MEC 315S | 400V Δ     | 188                  |           |                   |     |                      |      |      |     | 2000 | 1340 | 910  | 830  | 28   | 1944 | 1119 | 2084              | 1007 | 9               |      |      |     |      |      |      |      |     |   |
|            |            |          |            |                      |           |                   |     |                      |      |      |     |      |      |      |      |      |      |      |                   |      |                 |      |      |     |      |      |      |      |     |   |

## Dimensions and electrical data of a complete motor-driven pump

| MODEL      | Power (kW) |         | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |    |     |     |     |      |      |     |     |    | Standard coupling |           | Spacer coupling |           | REF. |
|------------|------------|---------|------------|----------------------|-----------|-------------------|-----|----------------------|----|-----|-----|-----|------|------|-----|-----|----|-------------------|-----------|-----------------|-----------|------|
|            | 4 poles    | 2 poles |            |                      |           | DNA               | DNM | A                    | A2 | H2  | H   | H3  | L1   | L3   | B2  | B3  | D  | L                 | Weight Kg | L               | Weight Kg |      |
| KDN 80-160 | 1.1        | –       | MEC 90S    | 230/400V             | 4,35-2,5  | 100               | 80  | 125                  | 75 | 225 | 80  | 260 | 1000 | 660  | 450 | 400 | 24 | 834               | 125       | 974             | 130       | 4    |
|            | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 127       |                 | 132       | 4    |
|            | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |     |     |      |      |     |     |    | 871               | 139       | 1011            | 136       | 4    |
|            | 3          | –       | MEC 100L   | 400V Δ               | 6,7       |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 138       |                 | 139       | 4    |
|            | 4          | –       | MEC 112M   | 400V Δ               | 8,1       |                   |     |                      |    |     |     |     |      |      |     |     |    | 894               | 138       | 1134            | 143       | 4    |
|            | 5,5        | –       | MEC 132S   | 400V Δ               | 10,6      |                   |     |                      |    |     |     |     | 1120 | 740  | 490 | 440 |    | 1004              | 163       | 1144            | 168       | 5    |
|            | –          | 7.5     | MEC 132S   | 400V Δ               | 13,6      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 189       |                 | 194       | 5    |
|            | –          | 11      | MEC 160M   | 400V Δ               | 19,6      |                   |     |                      |    |     |     |     | 1250 | 840  | 540 | 490 |    | 1114              | 298       | 1254            | 236       | 6    |
|            | –          | 15      | MEC 160M   | 400V Δ               | 26,5      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 298       |                 | 237       | 6    |
|            | –          | 18.5    | MEC 160L   | 400V Δ               | 33        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1159              | 298       | 1299            | 238       | 6    |
|            | –          | 22      | MEC 180M   | 400V Δ               | 39        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1189              | 253       | 1329            | 258       | 6    |
|            | –          | 30      | MEC 200L   | 400V Δ               | 53,5      |                   |     |                      |    |     | 100 | 300 | 1400 | 940  | 610 | 550 | 28 | 1269              | 304       | 1409            | 309       | 7    |
|            | –          | 37      | MEC 200L   | 400V Δ               | 64,5      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 383       |                 | 388       | 7    |
| KDN 80-200 | 1.5        | –       | MEC 90L    | 230/400V             | 6-3,45    | 100               | 80  | 125                  | 75 | 250 | 80  | 260 | 1120 | 740  | 490 | 440 | 24 | 944               | 161       | 1084            | 166       | 5    |
|            | 2.2        | –       | MEC 100L   | 230/400V             | 7,95-4,6  |                   |     |                      |    |     |     |     |      |      |     |     |    | 981               | 166       | 1121            | 171       | 5    |
|            | 3          | –       | MEC 100L   | 400V Δ               | 6,7       |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 168       |                 | 173       | 5    |
|            | 4          | –       | MEC 112M   | 400V Δ               | 8,1       |                   |     |                      |    |     |     |     |      |      |     |     |    | 1004              | 188       | 1144            | 177       | 5    |
|            | 5,5        | –       | MEC 132S   | 400V Δ               | 10,6      |                   |     |                      |    |     |     |     |      |      |     |     |    | 1114              | 188       | 1254            | 194       | 5    |
|            | 7.5        | –       | MEC 132M   | 400V Δ               | 14,4      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 188       |                 | 202       | 5    |
|            | 11         | –       | MEC 160M   | 400V Δ               | 20,8      |                   |     |                      |    |     |     |     | 1250 | 840  | 540 | 490 |    | 1224              | 197       | 1364            | 244       | 6    |
|            | –          | 18.5    | MEC 160L   | 400V Δ               | 33        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1269              | 239       | 1409            | 299       | 6    |
|            | –          | 22      | MEC 180M   | 400V Δ               | 39        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1299              | 275       | 1439            | 328       | 6    |
|            | –          | 30      | MEC 200L   | 400V Δ               | 53,5      |                   |     |                      |    |     | 100 | 300 | 1400 | 940  | 610 | 550 | 28 | 1379              | 432       | 1519            | 335       | 7    |
|            | –          | 37      | MEC 200L   | 400V Δ               | 64,5      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 455       |                 | 355       | 7    |
|            | –          | 45      | MEC 225M   | 400V Δ               | 78        |                   |     |                      |    |     |     | 325 |      |      |     |     |    | 1434              | 548       | 1574            | 403       | 7    |
|            | –          | 55      | MEC 250M   | 400V Δ               | 94,5      |                   |     |                      |    |     |     | 350 | 1600 | 1060 | 660 | 600 |    | 1544              | 494       | 1684            | 499       | 8    |
|            | –          | 75      | MEC 280S   | 400V Δ               | 128       |                   |     |                      |    |     |     | 380 | 1800 | 1200 | 730 | 670 |    | 1569              | 609       | 1709            | 614       | 9    |
| KDN 80-250 | 4          | –       | MEC 112M   | 400V Δ               | 8,1       | 100               | 80  | 125                  | 90 | 280 | 80  | 280 | 1250 | 840  | 540 | 490 | 24 | 1004              | 219       | 1144            | 223       | 6    |
|            | 5.5        | –       | MEC 132S   | 400V Δ               | 10,6      |                   |     |                      |    |     |     |     |      |      |     |     |    | 1114              | 219       | 1254            | 239       | 6    |
|            | 7.5        | –       | MEC 132M   | 400V Δ               | 14,4      |                   |     |                      |    |     |     |     |      |      |     |     |    |                   | 219       |                 | 244       | 6    |
|            | 11         | –       | MEC 160M   | 400V Δ               | 20,8      |                   |     |                      |    |     |     |     |      |      |     |     |    | 1224              | 258       | 1364            | 263       | 6    |
|            | 15         | –       | MEC 160L   | 400V Δ               | 27        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1269              | 277       | 1409            | 282       | 6    |
|            | –          | 37      | MEC 200L   | 400V Δ               | 64,5      |                   |     |                      |    |     | 100 | 300 | 1400 | 940  | 610 | 550 | 28 | 1379              | 471       | 1519            | 478       | 7    |
|            | –          | 45      | MEC 225M   | 400V Δ               | 78        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1434              | 545       | 1574            | 553       | 7    |
|            | –          | 55      | MEC 250M   | 400V Δ               | 94,5      |                   |     |                      |    |     |     |     | 1600 | 1060 | 660 | 600 |    | 1544              | 650       | 1684            | 648       | 8    |
|            | –          | 75      | MEC 280S   | 400V Δ               | 128       |                   |     |                      |    |     |     |     | 1800 | 1200 | 730 | 670 |    | 1569              | 641       | 1709            | 798       | 9    |
|            | –          | 90      | MEC 280M   | 400V Δ               | 160       |                   |     |                      |    |     |     |     |      |      |     |     |    | 1619              | 909       | 1759            | 858       | 9    |
| KDN 80-315 | 7.5        | –       | MEC 132M   | 400V Δ               | 14,4      | 100               | 80  | 125                  | 90 | 315 | 80  | 330 | 1250 | 840  | 540 | 490 | 24 | 1114              | 390       | 1254            | 284       | 6    |
|            | 11         | –       | MEC 160M   | 400V Δ               | 20,8      |                   |     |                      |    |     |     |     |      |      |     |     |    | 1224              | 390       | 1364            | 315       | 6    |
|            | 15         | –       | MEC 160L   | 400V Δ               | 27        |                   |     |                      |    |     | 100 | 350 | 1400 | 940  | 610 | 550 | 28 | 1269              | 390       | 1409            | 318       | 7    |
|            | 18.5       | –       | MEC 180M   | 400V Δ               | 33        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1299              | 409       | 1439            | 344       | 7    |
|            | 22         | –       | MEC 180L   | 400V Δ               | 39        |                   |     |                      |    |     |     |     |      |      |     |     |    | 1339              | 348       | 1479            | 353       | 7    |
|            | 30         | –       | MEC 200L   | 400V Δ               | 52,5      |                   |     |                      |    |     |     |     |      |      |     |     |    | 1379              | 384       | 1519            | 389       | 7    |
|            | –          | 55      | MEC 250M   | 400V Δ               | 94,5      |                   |     |                      |    |     |     |     | 1600 | 1060 | 660 | 600 |    | 1544              | 707       | 1684            | 689       | 8    |
|            | –          | 75      | MEC 280S   | 400V Δ               | 128       |                   |     |                      |    |     |     |     | 1800 | 1200 | 730 | 670 |    | 1569              | 861       | 1709            | 839       | 9    |
|            | –          | 90      | MEC 280M   | 400V Δ               | 160       |                   |     |                      |    |     |     |     |      |      |     |     |    | 1619              | 681       | 1759            | 899       | 9    |
|            | –          | 110     | MEC 315S   | 400V Δ               | 188       |                   |     |                      |    |     | 120 | 370 | 2000 | 1340 | 910 | 830 |    | 1944              | 1131      | 2084            | 1019      | 9    |

## Dimensions and electrical data of a complete motor-driven pump

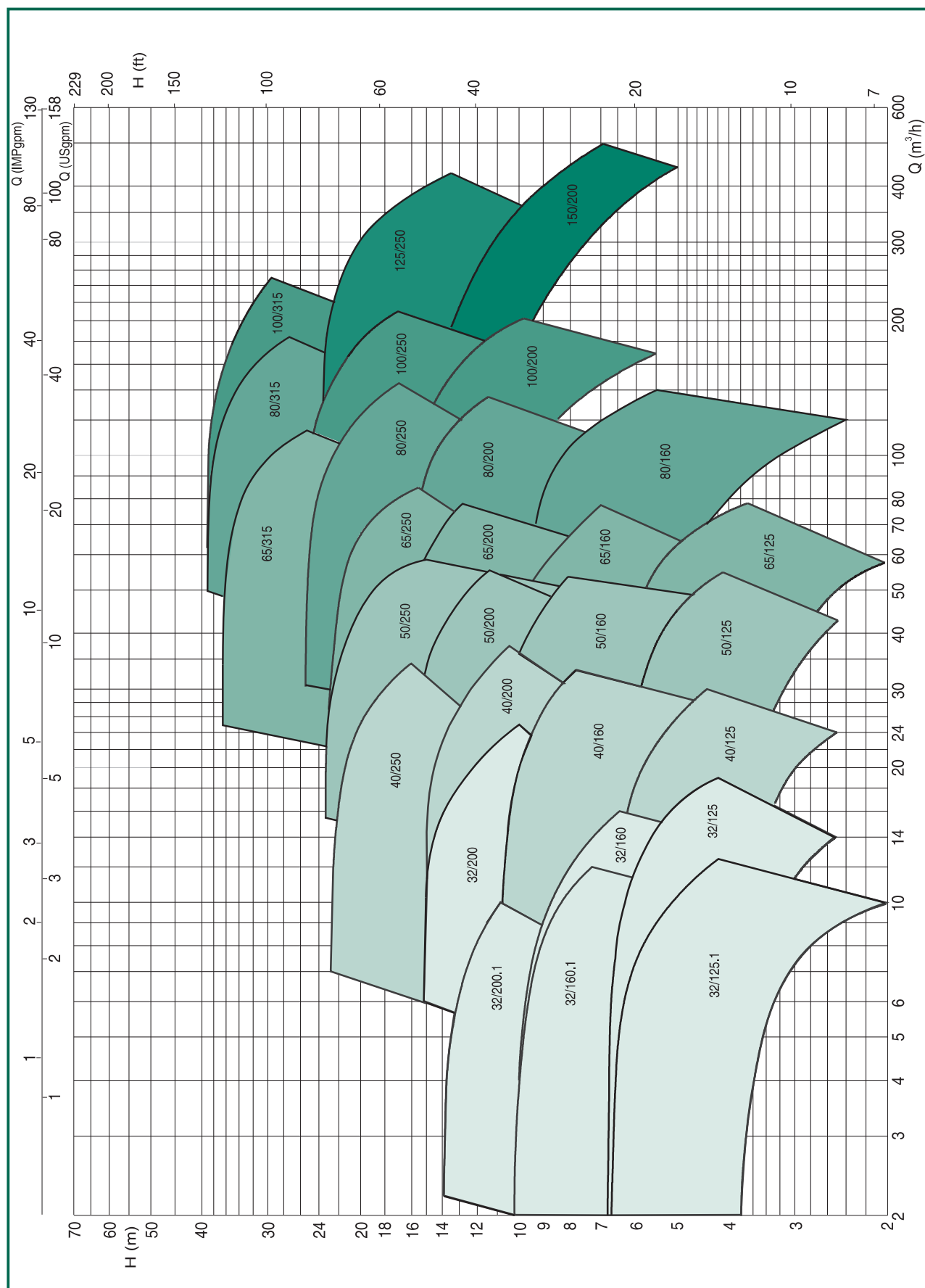
| MODEL       | Power (kW) |         | MOTOR SIZE | Supply voltage 50 Hz | I nom (A) | Flange dims. (mm) |     | Unit dimensions (mm) |     |     |     |     |      |      |     |     |    | Standard coupling |           | Spacer coupling |           | REF. |
|-------------|------------|---------|------------|----------------------|-----------|-------------------|-----|----------------------|-----|-----|-----|-----|------|------|-----|-----|----|-------------------|-----------|-----------------|-----------|------|
|             | 4 poles    | 2 poles |            |                      |           | DNA               | DNM | A                    | A2  | H2  | H   | H3  | L1   | L3   | B2  | B3  | D  | L                 | Weight Kg | L               | Weight Kg |      |
| KDN 100-200 | 3          | –       | MEC 100L   | 400V Ø               | 6,7       | 125               | 100 | 125                  | 90  | 280 | 80  | 280 | 1120 | 740  | 490 | 440 | 24 | 981               | 181       | 1121            | 186       | 5    |
|             | 4          | –       | MEC 112M   | 400V Ø               | 8,1       |                   |     |                      |     |     |     |     |      |      |     |     |    | 1004              | 188       | 1144            | 193       | 5    |
|             | 5,5        | –       | MEC 132S   | 400V Ø               | 10,6      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1114              | 214       | 1254            | 206       | 5    |
|             | 7,5        | –       | MEC 132M   | 400V Ø               | 14,4      |                   |     |                      |     |     |     |     |      |      |     |     |    |                   | 209       |                 | 214       | 5    |
|             | 11         | –       | MEC 160M   | 400V Ø               | 20,8      |                   |     |                      |     |     |     |     | 1250 | 840  | 540 | 490 |    | 1224              | 307       | 1364            | 256       | 6    |
|             | 15         | –       | MEC 160L   | 400V Ø               | 27        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1269              | 380       | 1409            | 275       | 6    |
|             | –          | 30      | MEC 200L   | 400V Ø               | 53,5      |                   |     |                      |     |     | 100 | 300 | 1400 | 940  | 610 | 550 | 28 | 1379              | 454       | 1519            | 425       | 7    |
|             | –          | 37      | MEC 200L   | 400V Ø               | 64,5      |                   |     |                      |     |     |     |     |      |      |     |     |    |                   | 402       |                 | 445       | 7    |
|             | –          | 45      | MEC 225M   | 400V Ø               | 78        |                   |     |                      |     |     |     | 325 |      |      |     |     |    | 1434              | 549       | 1574            | 520       | 7    |
|             | –          | 55      | MEC 250M   | 400V Ø               | 94,5      |                   |     |                      |     |     |     | 350 | 1600 | 1060 | 660 | 600 |    | 1544              | 623       | 1684            | 615       | 8    |
|             | –          | 75      | MEC 280S   | 400V Ø               | 128       |                   |     |                      |     |     |     | 380 | 1800 | 1200 | 730 | 670 |    | 1569              | 621       | 1709            | 765       | 9    |
|             | –          | 90      | MEC 280M   | 400V Ø               | 160       |                   |     |                      |     |     |     |     |      |      |     |     |    | 1619              | 621       | 1759            | 825       | 9    |
| KDN 100-250 | 5,5        | –       | MEC 132S   | 400V Ø               | 10,6      | 125               | 100 | 140                  | 90  | 280 | 80  | 305 | 1250 | 840  | 540 | 490 | 24 | 1129              | 241       | 1269            | 246       | 6    |
|             | 7,5        | –       | MEC 132M   | 400V Ø               | 14,4      |                   |     |                      |     |     |     |     |      |      |     |     |    |                   | 250       |                 | 255       | 6    |
|             | 11         | –       | MEC 160M   | 400V Ø               | 20,8      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1239              | 292       | 1379            | 270       | 6    |
|             | 15         | –       | MEC 160L   | 400V Ø               | 27        |                   |     |                      |     |     | 100 | 325 | 1400 | 940  | 610 | 550 | 28 | 1284              | 300       | 1424            | 308       | 7    |
|             | 18,5       | –       | MEC 180M   | 400V Ø               | 33        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1314              | 578       | 1454            | 329       | 7    |
|             | –          | 45      | MEC 225M   | 400V Ø               | 78        |                   |     |                      |     |     |     |     | 1600 | 1060 | 660 | 600 |    | 1449              | 696       | 1589            | 583       | 8    |
|             | –          | 55      | MEC 250M   | 400V Ø               | 94,5      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1559              | 696       | 1699            | 678       | 8    |
|             | –          | 75      | MEC 280S   | 400V Ø               | 128       |                   |     |                      |     |     |     | 380 | 1800 | 1200 | 730 | 670 |    | 1584              | 850       | 1724            | 828       | 9    |
|             | –          | 90      | MEC 280M   | 400V Ø               | 160       |                   |     |                      |     |     |     |     |      |      |     |     |    | 1634              | 670       | 1774            | 888       | 9    |
|             | –          | 110     | MEC 315S   | 400V Ø               | 188       |                   |     |                      |     |     | 120 | 435 | 2000 | 1340 | 910 | 830 |    | 1959              | 1120      | 2099            | 1008      | 9    |
| KDN 100-315 | 11         | –       | MEC 160M   | 400V Ø               | 20,8      | 125               | 100 | 140                  | 90  | 315 | 80  | 330 | 1250 | 840  | 540 | 490 | 24 | 1239              | 313       | 1379            | 319       | 6    |
|             | 15         | –       | MEC 160L   | 400V Ø               | 27        |                   |     |                      |     |     | 100 | 350 | 1400 | 940  | 610 | 550 | 28 | 1284              | 300       | 1424            | 335       | 7    |
|             | 18,5       | –       | MEC 180M   | 400V Ø               | 33        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1314              | 346       | 1454            | 363       | 7    |
|             | 22         | –       | MEC 180L   | 400V Ø               | 39        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1354              | 372       | 1494            | 373       | 7    |
|             | 30         | –       | MEC 200L   | 400V Ø               | 52,5      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1394              | 458       | 1534            | 463       | 7    |
|             | 37         | –       | MEC 225S   | 400V Ø               | 64        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1479              | 518       | 1619            | 523       | 7    |
| KDN 125-250 | 7,5        | –       | MEC 132M   | 400V Ø               | 14,4      | 150               | 125 | 140                  | 90  | 355 | 80  | 330 | 1250 | 840  | 540 | 490 | 24 | 1129              | 310       | 1269            | 294       | 6    |
|             | 11         | –       | MEC 160M   | 400V Ø               | 20,8      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1239              | 328       | 1379            | 325       | 6    |
|             | 15         | –       | MEC 160L   | 400V Ø               | 27        |                   |     |                      |     |     | 100 | 350 | 1400 | 940  | 610 | 550 | 28 | 1284              | 416       | 1424            | 328       | 7    |
|             | 18,5       | –       | MEC 180M   | 400V Ø               | 33        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1314              | 422       | 1454            | 349       | 7    |
|             | 22         | –       | MEC 180L   | 400V Ø               | 39        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1354              | 463       | 1494            | 358       | 7    |
|             | 30         | –       | MEC 200L   | 400V Ø               | 52,5      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1394              | 511       | 1534            | 394       | 7    |
| KDN 150-200 | 5,5        | –       | MEC 132S   | 400V Ø               | 10,6      | 200               | 150 | 160                  | 110 | 400 | 100 | 380 | 1800 | 1200 | 730 | 670 | 28 | 1099              | 454       | 1239            | 377       | 9    |
|             | 7,5        | –       | MEC 132M   | 400V Ø               | 14,4      |                   |     |                      |     |     |     |     |      |      |     |     |    |                   | 454       |                 | 386       | 9    |
|             | 11         | –       | MEC 160M   | 400V Ø               | 20,8      |                   |     |                      |     |     |     |     |      |      |     |     |    | 1209              | 454       | 1349            | 401       | 9    |
|             | 15         | –       | MEC 160L   | 400V Ø               | 27        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1254              | 454       | 1394            | 420       | 9    |
|             | 18,5       | –       | MEC 180M   | 400V Ø               | 33        |                   |     |                      |     |     |     |     |      |      |     |     |    | 1284              | 454       | 1424            | 441       | 9    |

# PERFORMANCE RANGE

The performance curves are based on the kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

## GRAPHICAL SELECTION TABLE

= 1450 1/min



# PERFORMANCE RANGE

## KDN 4 POLES

### NUMERICAL SELECTION TABLE

= 1450 1/min

| MODEL            | Q<br>m <sup>3</sup> /h<br>l/min | 0    | 3    | 6    | 12   | 18   | 24   | 30   | 36   | 42  | 48  | 54  |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|
|                  |                                 | 0    | 50   | 100  | 200  | 300  | 400  | 500  | 600  | 700 | 800 | 900 |
| KDN 32-125.1/105 | H<br>(m)                        | 3.5  | 3.4  | 3.1  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/110 |                                 | 3.9  | 3.8  | 3.5  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/115 |                                 | 4.25 | 4.2  | 3.9  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/120 |                                 | 4.7  | 4.6  | 4.3  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/125 |                                 | 5.1  | 5.1  | 4.8  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/130 |                                 | 5.6  | 5.6  | 5.3  |      |      |      |      |      |     |     |     |
| KDN 32-125.1/135 |                                 | 6.1  | 6    | 5.8  | 4.4  |      |      |      |      |     |     |     |
| KDN 32-125.1/140 |                                 | 6.6  | 6.6  | 6.4  | 5.1  |      |      |      |      |     |     |     |
| KDN 32-125/115   |                                 | 4.3  |      | 4.1  | 3.2  |      |      |      |      |     |     |     |
| KDN 32-125/120   |                                 | 4.75 |      | 4.6  | 3.75 |      |      |      |      |     |     |     |
| KDN 32-125/125   |                                 | 5.2  |      | 5.05 | 4.2  |      |      |      |      |     |     |     |
| KDN 32-125/130   |                                 | 5.7  |      | 5.5  | 4.8  |      |      |      |      |     |     |     |
| KDN 32-125/135   |                                 | 6.2  |      | 6    | 5.3  | 3.65 |      |      |      |     |     |     |
| KDN 32-125/142   |                                 | 6.9  |      | 6.75 | 6.15 | 4.5  |      |      |      |     |     |     |
| KDN 32-160.1/137 |                                 | 5.3  | 5.3  | 4.7  |      |      |      |      |      |     |     |     |
| KDN 32-160.1/145 |                                 | 6.2  | 6.1  | 5    |      |      |      |      |      |     |     |     |
| KDN 32-160.1/153 |                                 | 7    | 7    | 6.6  |      |      |      |      |      |     |     |     |
| KDN 32-160.1/161 |                                 | 8    | 7.9  | 7.6  |      |      |      |      |      |     |     |     |
| KDN 32-160.1/169 |                                 | 8.9  | 8.9  | 8.6  | 5.5  |      |      |      |      |     |     |     |
| KDN 32-160.1/177 |                                 | 9    | 9.8  | 9.5  | 6.6  |      |      |      |      |     |     |     |
| KDN 32-160/137   |                                 | 5.9  |      | 5.6  | 4.4  |      |      |      |      |     |     |     |
| KDN 32-160/145   |                                 | 6.7  |      | 6.5  | 5.3  |      |      |      |      |     |     |     |
| KDN 32-160/153   |                                 | 7.6  |      | 7.4  | 6.25 |      |      |      |      |     |     |     |
| KDN 32-160/161   |                                 | 8.5  |      | 8.25 | 7.25 | 8.7  |      |      |      |     |     |     |
| KDN 32-160/169   |                                 | 9.5  |      | 9.3  | 8.4  | 6.6  |      |      |      |     |     |     |
| KDN 32-160/177   |                                 | 10.5 |      | 10.4 | 9.6  | 7.8  |      |      |      |     |     |     |
| KDN 32-200.1/170 |                                 | 8.6  | 8.5  | 7.2  |      |      |      |      |      |     |     |     |
| KDN 32-200.1/180 |                                 | 9.8  | 9.8  | 9    |      |      |      |      |      |     |     |     |
| KDN 32-200.1/190 |                                 | 11.3 | 11.1 | 10.5 |      |      |      |      |      |     |     |     |
| KDN 32-200.1/200 |                                 | 12.8 | 12.7 | 11.7 | 8.3  |      |      |      |      |     |     |     |
| KDN 32-200.1/207 |                                 | 13.8 | 13.8 | 13   | 8.9  |      |      |      |      |     |     |     |
| KDN 32-200/170   |                                 | 8.6  |      | 8.2  | 6.7  |      |      |      |      |     |     |     |
| KDN 32-200/180   |                                 | 9.9  |      | 9.6  | 8.2  |      |      |      |      |     |     |     |
| KDN 32-200/190   |                                 | 11.2 |      | 10.9 | 9.7  | 7    |      |      |      |     |     |     |
| KDN 32-200/200   |                                 | 12.6 |      | 12.3 | 11.1 | 8.7  |      |      |      |     |     |     |
| KDN 32-200/210   |                                 | 14.3 |      | 14   | 13.1 | 10.7 |      |      |      |     |     |     |
| KDN 32-200/219   |                                 | 15.7 |      | 15.4 | 14.8 | 13   | 9.8  |      |      |     |     |     |
| KDN 40-125/115   |                                 | 4.2  |      | 4.1  | 3.8  | 3.2  | 2.4  |      |      |     |     |     |
| KDN 40-125/120   |                                 | 4.6  |      | 4.5  | 4.2  | 3.7  | 2.9  |      |      |     |     |     |
| KDN 40-125/125   |                                 | 5.1  |      | 4.9  | 4.7  | 4.1  | 3.3  |      |      |     |     |     |
| KDN 40-125/130   |                                 | 5.5  |      | 5.4  | 5.2  | 4.7  | 3.9  |      |      |     |     |     |
| KDN 40-125/135   |                                 | 6    |      | 5.9  | 5.8  | 5.3  | 4.6  |      |      |     |     |     |
| KDN 40-125/142   |                                 | 6.7  |      | 6.6  | 6.5  | 6    | 5.3  | 4.1  |      |     |     |     |
| KDN 40-160/137   |                                 | 5.9  |      | 5.8  | 5.8  | 5    | 3.7  |      |      |     |     |     |
| KDN 40-160/145   |                                 | 6.7  |      | 6.6  | 6.5  | 6    | 4.8  |      |      |     |     |     |
| KDN 40-160/153   |                                 | 7.6  |      | 7.6  | 7.5  | 7    | 6.8  |      |      |     |     |     |
| KDN 40-160/161   |                                 | 8.6  |      | 8.5  | 8.4  | 8    | 7.1  | 5.6  |      |     |     |     |
| KDN 40-160/169   |                                 | 9.6  |      | 9.5  | 9.5  | 9.1  | 8.3  | 7    |      |     |     |     |
| KDN 40-160/177   |                                 | 10.7 |      | 10.7 | 10.6 | 10.2 | 9.5  | 8.3  |      |     |     |     |
| KDN 40-200/170   |                                 | 8.4  |      | 8.4  | 8.2  | 7.4  | 5.7  |      |      |     |     |     |
| KDN 40-200/180   |                                 | 9.7  |      | 9.7  | 9.4  | 8.8  | 7.2  |      |      |     |     |     |
| KDN 40-200/190   |                                 | 10.9 |      | 10.8 | 10.7 | 10.2 | 8.8  | 6.8  |      |     |     |     |
| KDN 40-200/200   |                                 | 12.2 |      | 12.1 | 12   | 11.7 | 10.4 | 8.6  |      |     |     |     |
| KDN 40-200/210   |                                 | 13.6 |      | 13.5 | 13.5 | 13.2 | 12.1 | 10.6 |      |     |     |     |
| KDN 40-200/219   |                                 | 15   |      | 15   | 15   | 14.7 | 13.8 | 12.4 | 10.4 |     |     |     |
| KDN 40-250/220   |                                 | 15.8 |      |      | 15.6 | 14.8 | 13.6 | 12   |      |     |     |     |
| KDN 40-250/230   |                                 | 17.4 |      |      | 17.2 | 16.5 | 15.3 | 13.7 |      |     |     |     |
| KDN 40-250/240   |                                 | 19.1 |      |      | 19   | 18.2 | 17   | 15.5 |      |     |     |     |
| KDN 40-250/250   |                                 | 20.7 |      |      | 20.6 | 20   | 18.9 | 17.5 |      |     |     |     |
| KDN 40-250/260   |                                 | 22.7 |      |      | 22.6 | 22.1 | 21   | 19.5 |      |     |     |     |

# PERFORMANCE RANGE

## KDN 4 POLES

### NUMERICAL SELECTION TABLE

= 1450 1/min

| MODEL              | Q<br>m³/h<br>l/min | 0    | 3  | 6   | 12   | 18   | 24   | 30   | 36   | 42   | 48   | 54   |
|--------------------|--------------------|------|----|-----|------|------|------|------|------|------|------|------|
|                    |                    | 0    | 50 | 100 | 200  | 300  | 400  | 500  | 600  | 700  | 800  | 900  |
| KDN 50-125/115     | H<br>(m)           | 4.2  |    |     | 4.1  | 3.9  | 3.6  | 3.3  | 2.9  | 2.3  |      |      |
| KDN 50-125/120     |                    | 4.6  |    |     | 4.4  | 4.3  | 4    | 3.7  | 3.3  | 2.8  |      |      |
| KDN 50-125/125     |                    | 5    |    |     | 4.9  | 4.7  | 4.5  | 4.2  | 3.7  | 3.3  |      |      |
| KDN 50-125/130     |                    | 5.6  |    |     | 5.4  | 5.2  | 5    | 4.7  | 4.2  | 3.8  | 3.2  |      |
| KDN 50-125/135     |                    | 6    |    |     | 5.8  | 5.7  | 5.5  | 5.2  | 4.8  | 4.3  | 3.8  |      |
| KDN 50-125/139     |                    | 6.3  |    |     | 6.2  | 6.1  | 5.9  | 5.6  | 5.2  | 4.8  | 4.2  |      |
| KDN 50-125/144     |                    | 6.7  |    |     | 6.7  | 6.6  | 6.4  | 6.2  | 5.8  | 5.3  | 4.8  | 4.1  |
| KDN 50-160/137     |                    | 6    |    |     | 6    | 5.9  | 5.6  | 5.2  | 4.8  |      |      |      |
| KDN 50-160/145     |                    | 6.8  |    |     | 6.7  | 6.7  | 6.5  | 6.2  | 5.8  |      |      |      |
| KDN 50-160/153     |                    | 7.6  |    |     | 7.6  | 7.5  | 7.4  | 7.2  | 6.7  |      |      |      |
| KDN 50-160/161     |                    | 8.4  |    |     | 8.4  | 8.3  | 8.2  | 8.1  | 7.7  |      |      |      |
| KDN 50-160/169     |                    | 9.4  |    |     | 9.3  | 9.2  | 9.2  | 9.1  | 8.8  |      |      |      |
| KDN 50-160/177     |                    | 10.4 |    |     | 10.3 | 10.3 | 10.2 | 10.1 | 9.95 |      |      |      |
| KDN 50-200/170     |                    | 9.5  |    |     | 9.3  | 9.2  | 8.8  | 8    | 6.85 |      |      |      |
| KDN 50-200/180     |                    | 10.6 |    |     | 10.6 | 10.5 | 10.1 | 9.5  | 8.6  | 7.3  |      |      |
| KDN 50-200/190     |                    | 11.8 |    |     | 11.7 | 11.6 | 11.4 | 10.8 | 10.1 | 8.9  |      |      |
| KDN 50-200/200     |                    | 13.1 |    |     | 13   | 13   | 12.8 | 12.3 | 11.6 | 10.6 | 9.4  |      |
| KDN 50-200/210     |                    | 14.6 |    |     | 14.6 | 14.5 | 14.4 | 13.9 | 13.2 | 12.2 | 11   |      |
| KDN 50-200/219     |                    | 16   |    |     | 16   | 16   | 15.9 | 15.4 | 14.2 | 13.8 | 12.7 | 11.4 |
| KDN 50-250/220     |                    | 15.9 |    |     | 15.7 | 15.6 | 15.4 | 14.9 | 13.8 | 12.4 | 10.5 |      |
| KDN 50-250/230     |                    | 17.4 |    |     | 17.3 | 17.2 | 17   | 16.5 | 15.5 | 14.2 | 12.6 | 10.3 |
| KDN 50-250/240     |                    | 19   |    |     | 19   | 19   | 18.8 | 18.2 | 17.4 | 16.2 | 14.7 | 12.4 |
| KDN 50-250/250     |                    | 20.8 |    |     | 20.8 | 20.7 | 20.6 | 20.1 | 19.2 | 18.1 | 17   | 14.8 |
| KDN 50-250/263     |                    | 23   |    |     | 23   | 22.9 | 22.8 | 22.5 | 21.7 | 20.6 | 19.4 | 17.5 |
| KDN 65-125/120/110 |                    | 3.75 |    |     |      |      | 3.5  | 3.3  | 3.2  | 2.9  | 2.7  | 2.3  |
| KDN 65-125/120     |                    | 4.25 |    |     |      |      | 3.9  | 3.8  | 3.6  | 3.3  | 3.1  | 2.7  |
| KDN 65-125/125     |                    | 4.7  |    |     |      |      | 4.4  | 4.25 | 4.1  | 3.8  | 3.6  | 3.25 |
| KDN 65-125/130     |                    | 5.1  |    |     |      |      | 4.9  | 4.75 | 4.6  | 4.3  | 4.1  | 3.8  |
| KDN 65-125/135     |                    | 5.6  |    |     |      |      | 5.4  | 5.3  | 5.2  | 4.9  | 4.7  | 4.3  |
| KDN 65-125/140     |                    | 6    |    |     |      |      | 5.9  | 5.8  | 5.7  | 5.5  | 5.2  | 4.9  |
| KDN 65-125/144     |                    | 6.4  |    |     |      |      | 6.35 | 6.25 | 6.2  | 5.9  | 5.7  | 5.4  |
| KDN 65-160/137     |                    | 5.8  |    |     |      |      | 5.7  | 5.4  | 5.2  | 4.75 | 4.3  | 3.7  |
| KDN 65-160/145     |                    | 6.5  |    |     |      |      | 6.5  | 6.3  | 6    | 5.7  | 5.3  | 4.75 |
| KDN 65-160/153     |                    | 7.3  |    |     |      |      | 7.2  | 7.2  | 6.9  | 6.7  | 6.3  | 5.8  |
| KDN 65-160/161     |                    | 8.2  |    |     |      |      | 8.1  | 8.1  | 7.9  | 7.7  | 7.3  | 6.85 |
| KDN 65-160/169     |                    | 9.1  |    |     |      |      | 9.1  | 9    | 8.9  | 8.7  | 8.4  | 8    |
| KDN 65-160/177     |                    | 10   |    |     |      |      | 10   | 9.9  | 9.8  | 9.7  | 9.45 | 9.1  |
| KDN 65-200/170     |                    | 9.3  |    |     |      | 9.3  | 9.2  | 9.2  | 9    | 8.5  | 7.9  | 7.1  |
| KDN 65-200/180     |                    | 10.4 |    |     |      | 10.4 | 10.4 | 10.3 | 10.2 | 10   | 9.5  | 8.8  |
| KDN 65-200/190     |                    | 12.1 |    |     |      | 12   | 12   | 12   | 11.9 | 11.5 | 11.1 | 10.5 |
| KDN 65-200/200     |                    | 13.3 |    |     |      | 13.3 | 13.3 | 13.2 | 13.1 | 13   | 12.8 | 12.3 |
| KDN 65-200/210     |                    | 14.8 |    |     |      | 14.7 | 14.7 | 14.7 | 14.6 | 14.6 | 14.3 | 13.8 |
| KDN 65-200/219     |                    | 16.2 |    |     |      | 16.2 | 16.2 | 16.1 | 16   | 15.9 | 15.8 | 15.4 |
| KDN 65-250/220     |                    | 15.8 |    |     |      |      | 15.8 | 15.5 | 15.1 | 14.5 | 14   | 13.2 |
| KDN 65-250/230     |                    | 17.4 |    |     |      |      | 17.4 | 17.2 | 16.8 | 16.3 | 15.7 | 15   |
| KDN 65-250/240     |                    | 19   |    |     |      |      | 19   | 18.9 | 18.5 | 18.1 | 17.5 | 16.8 |
| KDN 65-250/250     |                    | 20.7 |    |     |      |      | 20.7 | 20.6 | 20.4 | 20   | 19.5 | 18.8 |
| KDN 65-250/263     |                    | 23.2 |    |     |      |      | 23   | 23   | 22.9 | 22.5 | 22.2 | 21.6 |
| KDN 65-315/260     |                    | 22.3 |    |     |      |      | 22.2 | 22.1 | 22   | 21.5 | 21   | 20.5 |
| KDN 65-315/275     |                    | 25.1 |    |     |      |      | 25.1 | 25   | 24.8 | 24.6 | 24.1 | 23.5 |
| KDN 65-315/290     |                    | 28.2 |    |     |      |      | 28.2 | 28.1 | 28   | 27.8 | 27.3 | 27   |
| KDN 65-315/305     |                    | 31.7 |    |     |      |      | 31.5 | 31.4 | 31.4 | 31.3 | 31.2 | 30.8 |
| KDN 65-315/320     |                    | 35.7 |    |     |      |      | 35.4 | 35.3 | 35.2 | 35.1 | 35   | 34.8 |



# HIARTEK

[illegible]



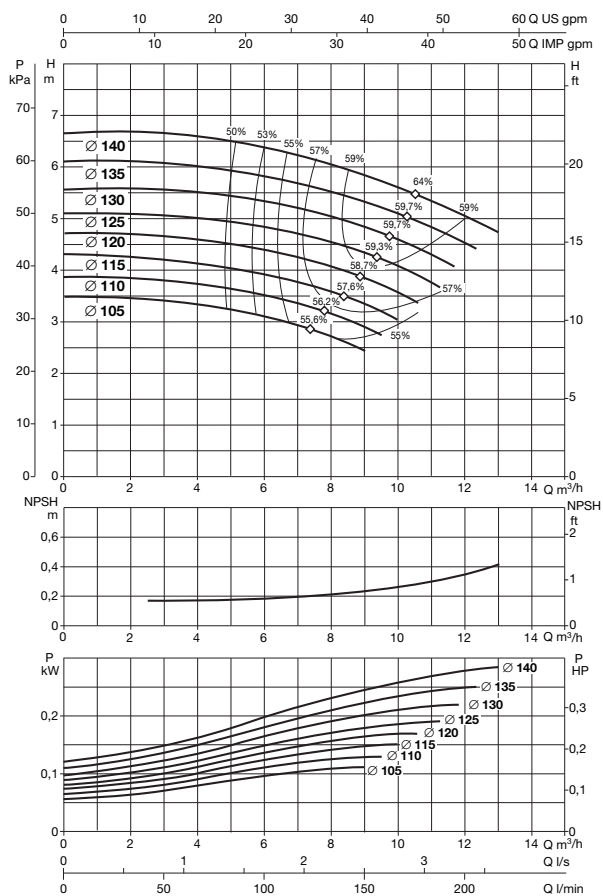
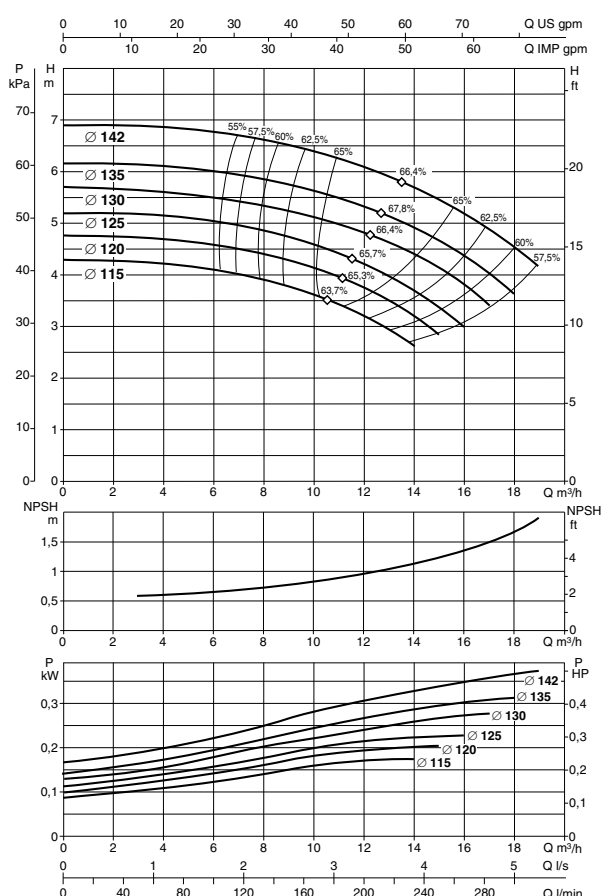
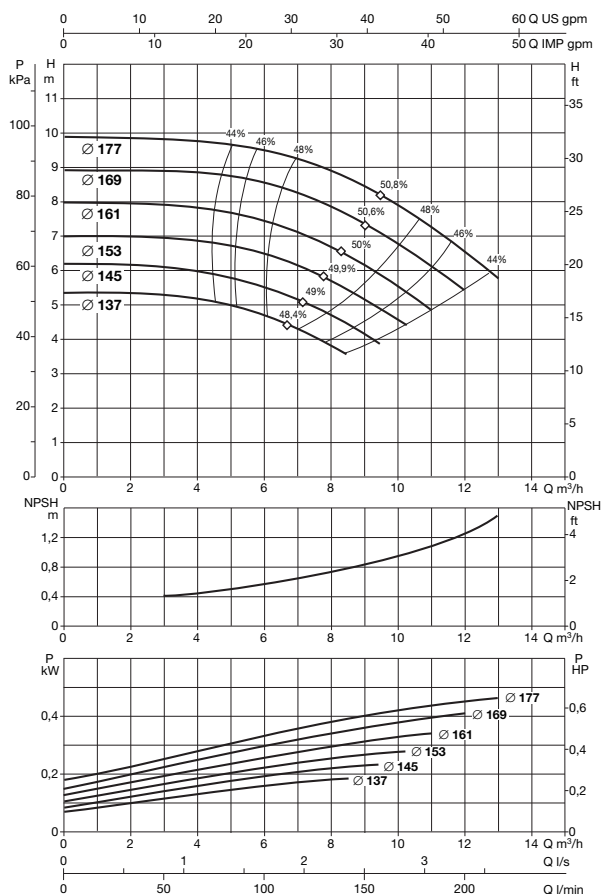
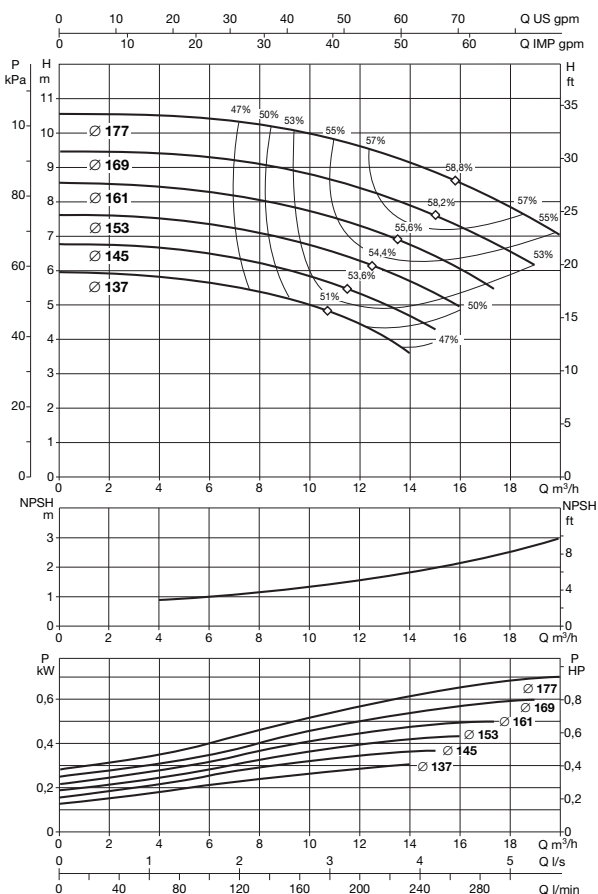
## PERFORMANCE RANGE

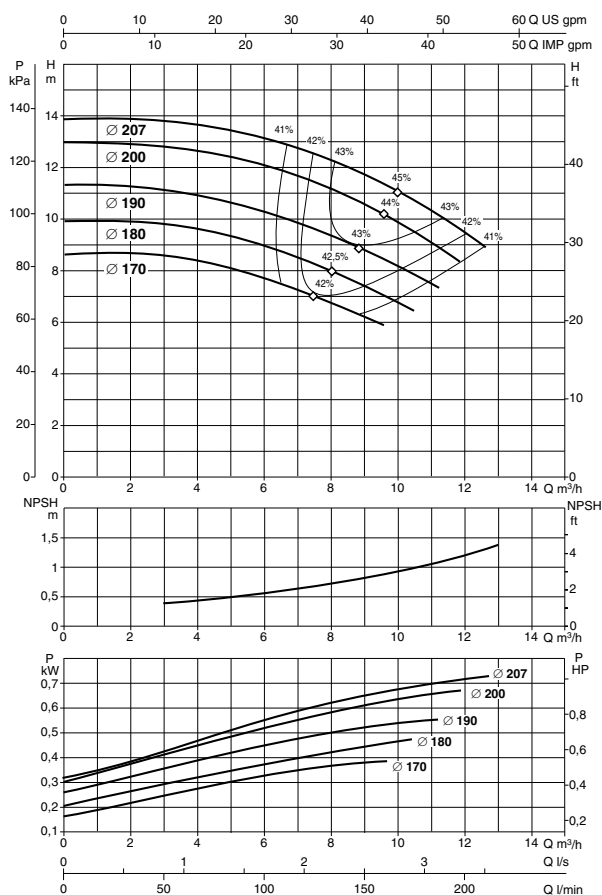
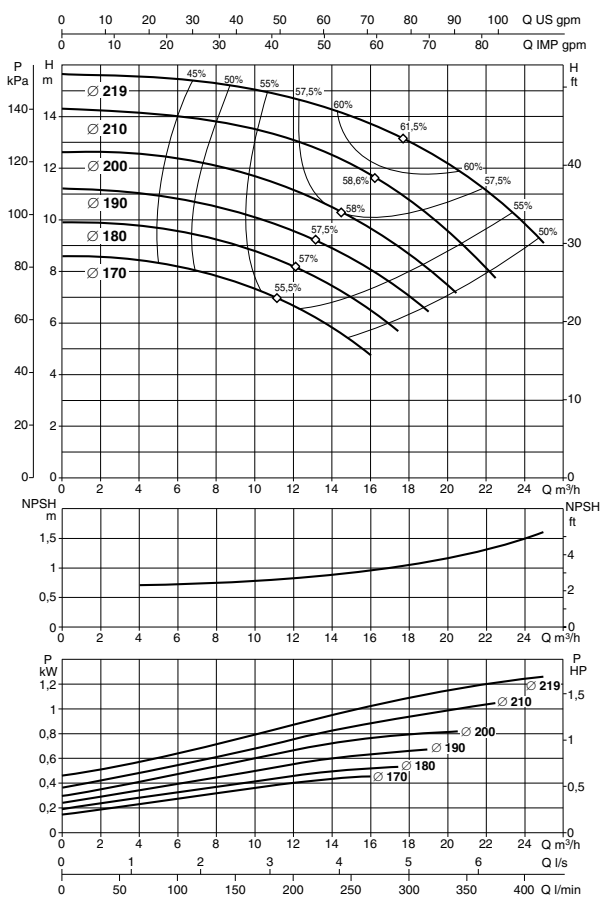
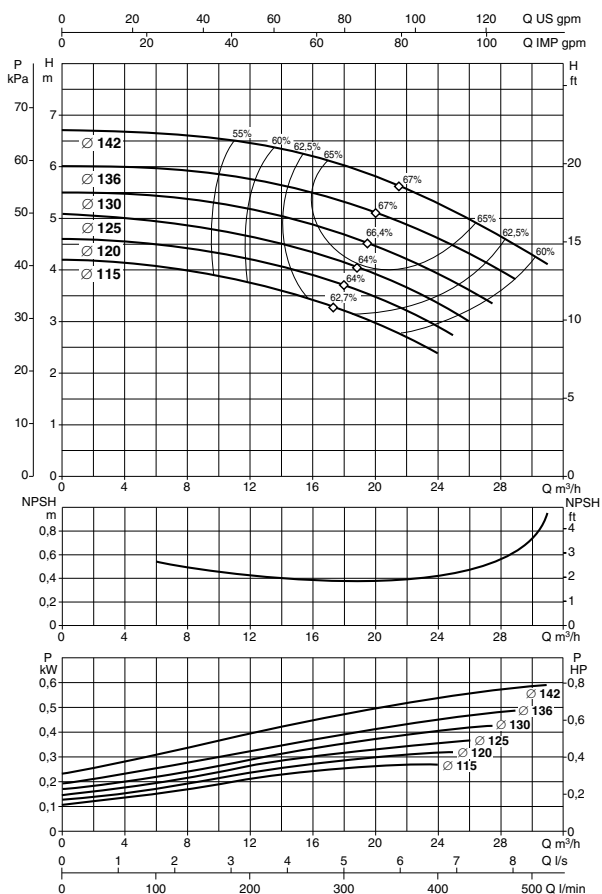
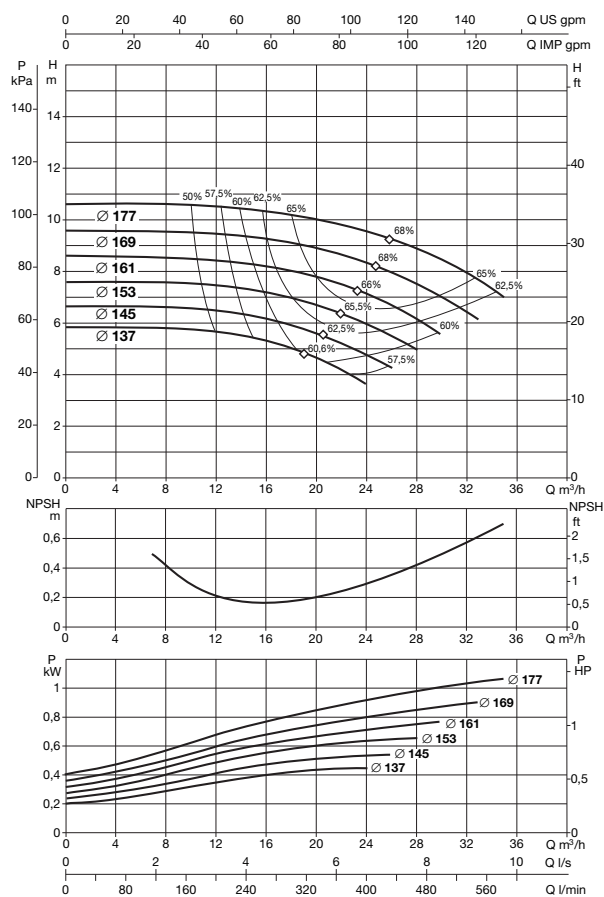
### KDN 4 POLES

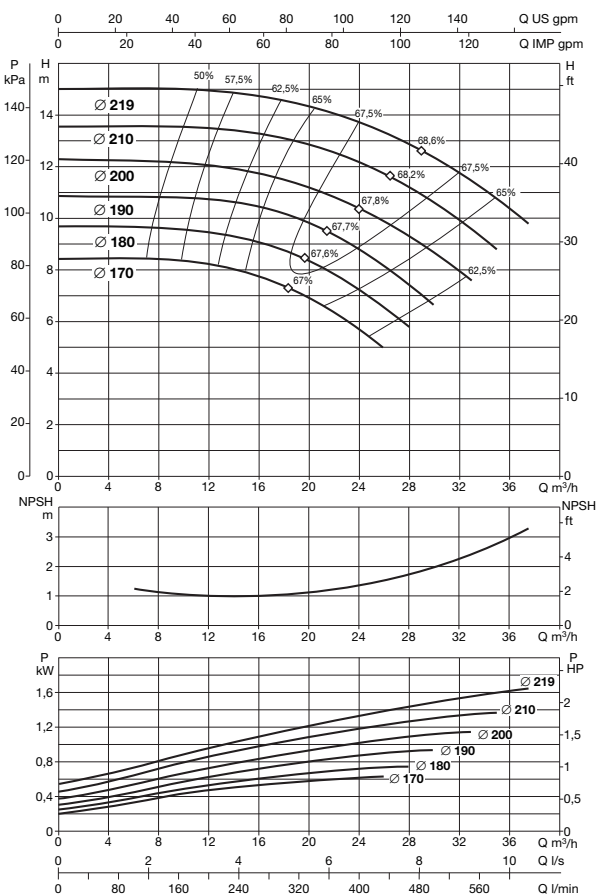
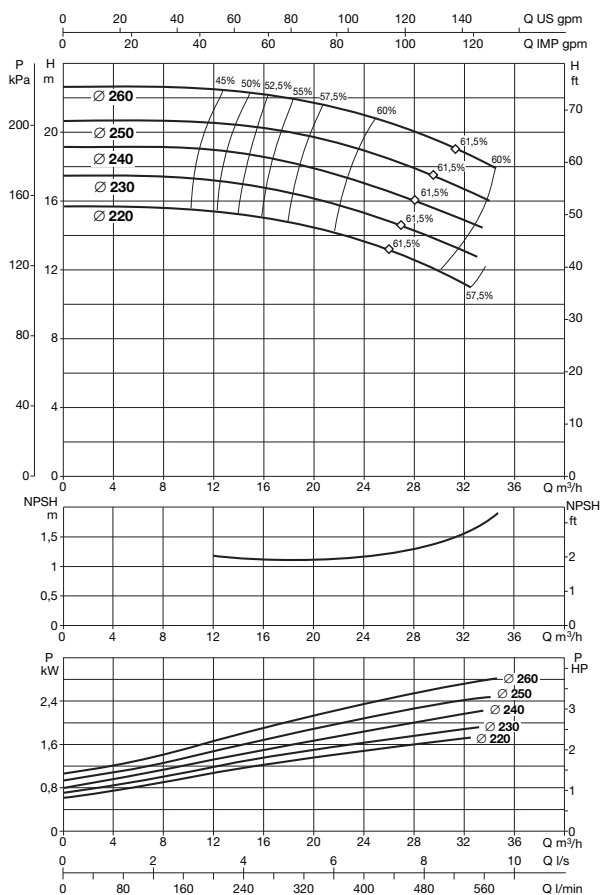
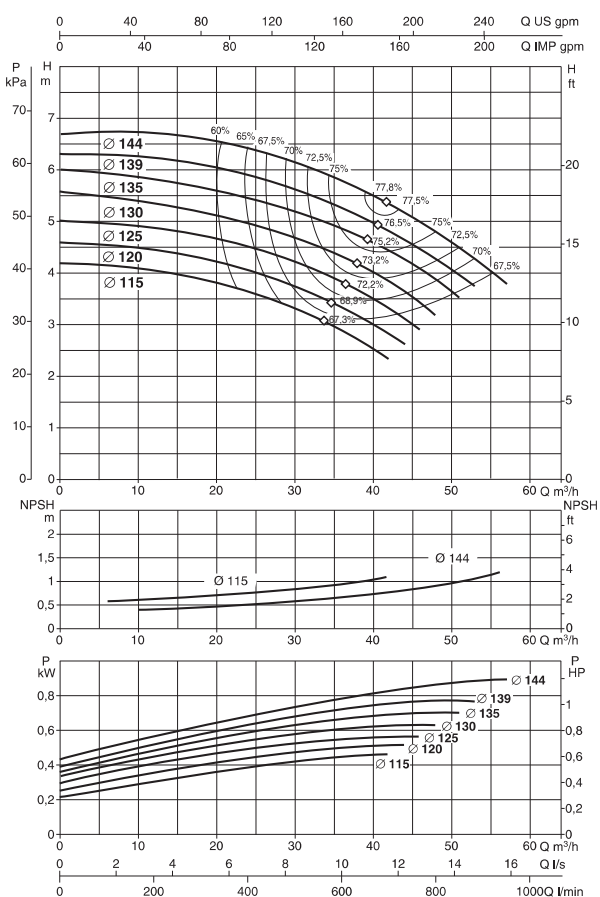
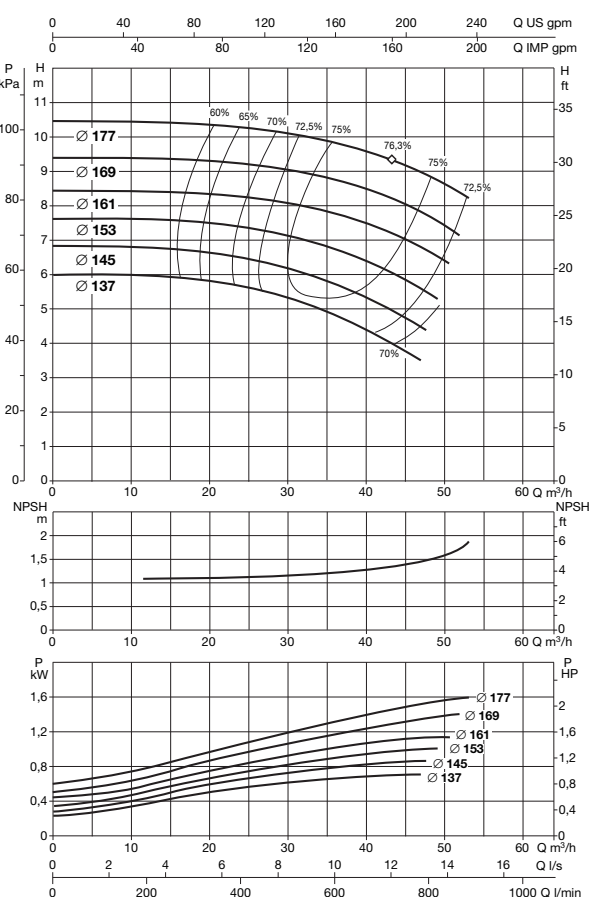
## NUMERICAL SELECTION TABLE

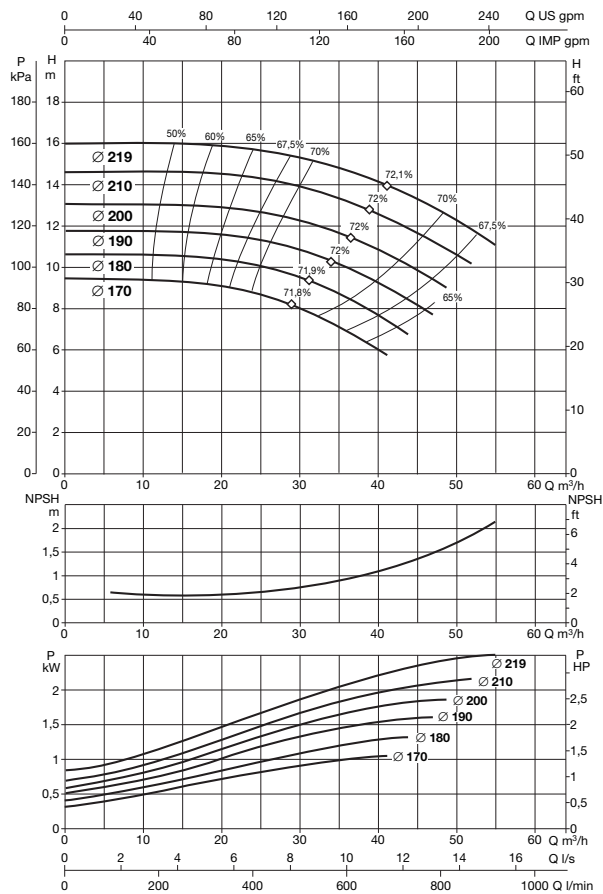
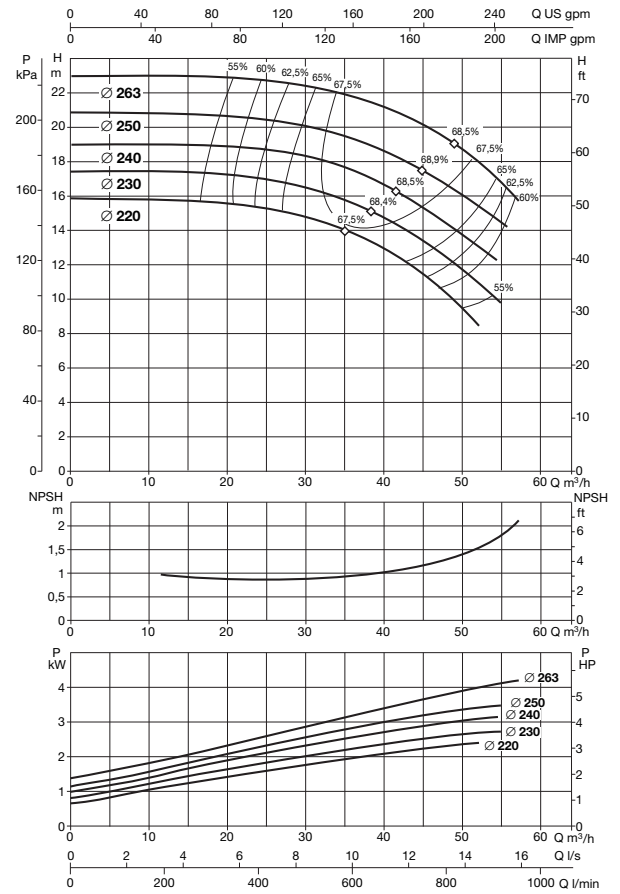
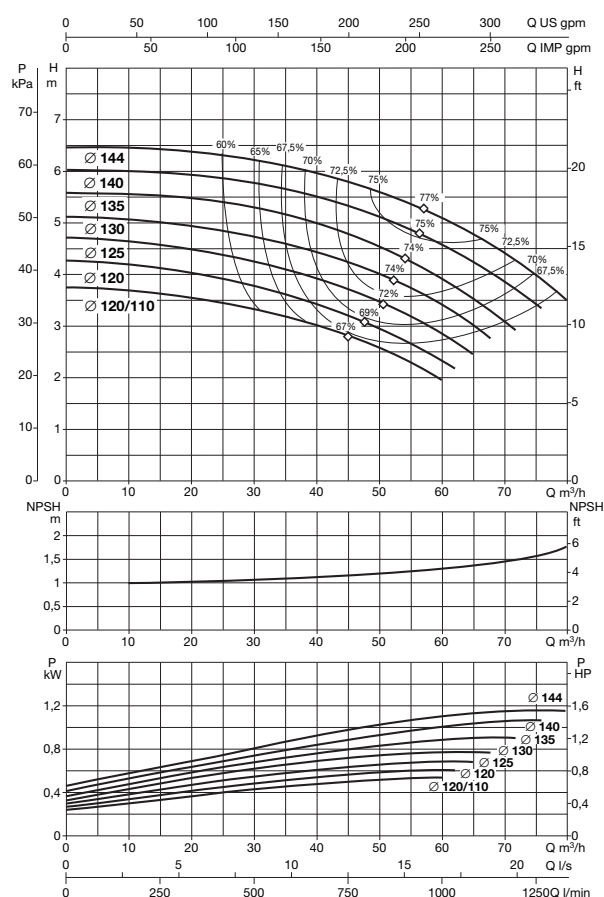
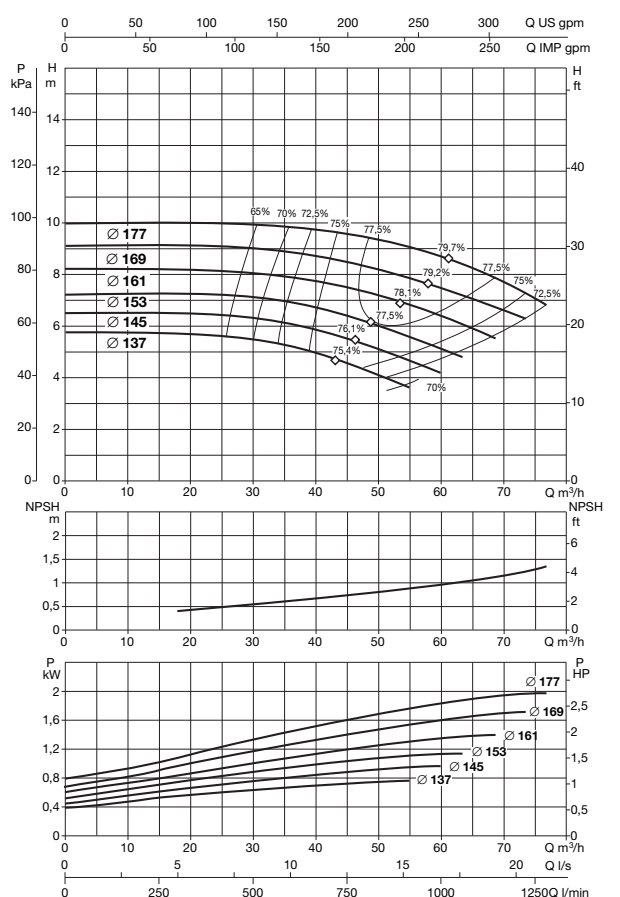
$$= 1450 \text{ 1/min}$$
[illegible]

| 60   | 66   | 72   | 78   | 84   | 90   | 102  | 114  | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  | 360  | 390  | 420  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1700 | 1900 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 |
| 4.8  | 4.6  | 4.35 | 4.15 | 3.85 | 3.6  | 3.1  | 2.5  | 2.2  |      |      |      |      |      |      |      |      |      |      |
| 5.7  | 5.4  | 5.15 | 4.8  | 4.65 | 4.4  | 3.85 | 3.3  | 3    |      |      |      |      |      |      |      |      |      |      |
| 6.5  | 6.3  | 6    | 5.75 | 5.4  | 5.2  | 4.55 | 3.9  | 3.6  |      |      |      |      |      |      |      |      |      |      |
| 7.5  | 7.3  | 7.05 | 6.8  | 6.5  | 6.25 | 5.6  | 4.9  | 4.6  |      |      |      |      |      |      |      |      |      |      |
| 8.6  | 8.35 | 8.1  | 7.85 | 7.6  | 7.3  | 6.75 | 6    | 5.7  |      |      |      |      |      |      |      |      |      |      |
| 9.7  | 9.5  | 9.3  | 9.1  | 8.85 | 8.7  | 8.1  | 7.25 | 6.9  |      |      |      |      |      |      |      |      |      |      |
| 8.5  | 8.2  | 7.8  | 7.5  | 7.1  | 6.7  | 5.6  |      |      |      |      |      |      |      |      |      |      |      |      |
| 9.9  | 9.6  | 9.2  | 9    | 8.6  | 8.2  | 7.2  |      |      |      |      |      |      |      |      |      |      |      |      |
| 11.1 | 11   | 10.7 | 10.5 | 10.1 | 9.8  | 8.7  | 6.8  |      |      |      |      |      |      |      |      |      |      |      |
| 12.5 | 12.4 | 12.3 | 12   | 11.6 | 11.4 | 10.5 | 9.4  | 8.8  |      |      |      |      |      |      |      |      |      |      |
| 13.9 | 13.8 | 13.7 | 13.6 | 13.3 | 13.1 | 12.1 | 11.2 | 10.6 |      |      |      |      |      |      |      |      |      |      |
| 15.6 | 15.6 | 15.5 | 15.4 | 15.3 | 15   | 14.3 | 13.4 | 12.8 |      |      |      |      |      |      |      |      |      |      |
| 15.6 | 15.5 | 15.2 | 14.9 | 14.5 | 13.9 | 12.8 |      |      |      |      |      |      |      |      |      |      |      |      |
| 17   | 16.9 | 16.8 | 16.5 | 16   | 15.5 | 14.3 | 12.4 |      |      |      |      |      |      |      |      |      |      |      |
| 18.8 | 18.7 | 18.6 | 18.4 | 18   | 17.6 | 16.6 | 15.3 | 14.6 |      |      |      |      |      |      |      |      |      |      |
| 20.6 | 20.5 | 20.4 | 20.3 | 19.9 | 19.6 | 18.6 | 17.4 | 16.8 |      |      |      |      |      |      |      |      |      |      |
| 22.3 | 22.2 | 22.1 | 22   | 21.8 | 21.4 | 20.6 | 19.6 | 19   | 15.1 |      |      |      |      |      |      |      |      |      |
| 24.3 | 24.2 | 24.1 | 24   | 23.7 | 23.3 | 22.4 | 21.4 | 20.7 | 16.3 |      |      |      |      |      |      |      |      |      |
| 24.7 | 24.6 | 24.5 | 24.4 | 24.3 | 24   | 23   | 21.4 | 20.5 |      |      |      |      |      |      |      |      |      |      |
| 27.7 | 27.7 | 27.6 | 27.6 | 27.5 | 27.4 | 26.5 | 25   | 24.6 | 19.1 |      |      |      |      |      |      |      |      |      |
| 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 30.9 | 30   | 29   | 28.5 | 24   |      |      |      |      |      |      |      |      |      |
| 34.6 | 34.5 | 34.4 | 34.3 | 34   | 33.9 | 33.8 | 33.2 | 32.8 | 28.8 |      |      |      |      |      |      |      |      |      |
| 38.2 | 38.2 | 38.2 | 38.1 | 38   | 37.9 | 37.6 | 37   | 36.9 | 33.1 | 28   |      |      |      |      |      |      |      |      |
| 10.1 | 10.1 | 10   | 9.9  | 9.7  | 9.5  | 9.1  | 8.5  | 8.3  | 7    | 5.4  |      |      |      |      |      |      |      |      |
| 11.5 | 11.4 | 11.3 | 11.2 | 11.1 | 11   | 10.5 | 10.1 | 10   | 8.6  | 7    |      |      |      |      |      |      |      |      |
| 12.8 | 12.8 | 12.8 | 12.7 | 12.6 | 12.5 | 12.2 | 11.8 | 11.6 | 10.4 | 8.8  |      |      |      |      |      |      |      |      |
| 14.2 | 14.2 | 14.2 | 14.2 | 14.1 | 14   | 13.8 | 13.5 | 13.3 | 12.3 | 10.7 | 9    |      |      |      |      |      |      |      |
| 15.7 | 15.7 | 15.6 | 15.6 | 15.5 | 15.5 | 15.3 | 15.1 | 15   | 14   | 12.5 | 10.8 |      |      |      |      |      |      |      |
| 14.9 | 14.9 | 14.9 | 14.8 | 14.7 | 14.6 | 14.3 | 13.7 | 13.4 | 11.4 |      |      |      |      |      |      |      |      |      |
| 16.7 | 16.7 | 16.6 | 16.5 | 16.4 | 16.3 | 16.1 | 15.7 | 15.3 | 13.6 | 11.1 |      |      |      |      |      |      |      |      |
| 18.3 | 18.3 | 18.3 | 18.2 | 18.1 | 18   | 17.9 | 17.6 | 17.4 | 15.7 | 13.3 |      |      |      |      |      |      |      |      |
| 20   | 20   | 19.9 | 19.8 | 19.7 | 19.6 | 19.5 | 19.4 | 19.2 | 17.6 | 15.4 |      |      |      |      |      |      |      |      |
| 22.1 | 22.1 | 22.1 | 22   | 21.9 | 21.8 | 21.7 | 21.5 | 21.4 | 19.8 | 17.7 | 15.1 |      |      |      |      |      |      |      |
| 24.3 | 24.3 | 24.3 | 24.3 | 24.3 | 24.2 | 24.1 | 23.7 | 23.5 | 22.1 | 20.1 | 17.3 |      |      |      |      |      |      |      |
| 25   | 25   | 25   | 24.9 | 24.8 | 24.7 | 24.6 | 24.4 | 24   | 22   | 19   |      |      |      |      |      |      |      |      |
| 27.9 | 27.9 | 27.9 | 27.9 | 27.8 | 27.7 | 27.6 | 27.5 | 27   | 25.5 | 23   |      |      |      |      |      |      |      |      |
| 31.1 | 31.1 | 31.1 | 31   | 30.9 | 30.8 | 30.7 | 30.6 | 30.5 | 29   | 27   | 24   |      |      |      |      |      |      |      |
| 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.3 | 34.2 | 34.1 | 34   | 33   | 31   | 28.1 |      |      |      |      |      |      |      |
| 38.2 | 38.1 | 38.1 | 38.1 | 38   | 38   | 37.7 | 37.5 | 37.3 | 36.5 | 34.8 | 32   | 28.8 |      |      |      |      |      |      |
|      |      |      |      |      |      | 14.9 | 14.9 | 14.8 | 14.5 | 14   | 13   | 11.8 | 10.5 | 9.2  |      |      |      |      |
|      |      |      |      |      |      | 16.6 | 16.6 | 16.5 | 16.3 | 15.6 | 14.8 | 13.8 | 12.5 | 12.3 | 9.5  |      |      |      |
|      |      |      |      |      |      | 18.1 | 18.1 | 18.1 | 18   | 17.7 | 16.8 | 15.8 | 14.5 | 13.3 | 11.6 | 10.1 |      |      |
|      |      |      |      |      |      | 19.8 | 19.8 | 19.7 | 19.6 | 19.4 | 18.7 | 17.8 | 16.6 | 15.5 | 14   | 12.3 |      |      |
|      |      |      |      |      |      | 21.7 | 21.6 | 21.5 | 21.4 | 21.3 | 20.6 | 19.9 | 18   | 17.7 | 16.3 | 14.6 | 13   |      |
|      |      |      |      |      |      | 23.9 | 23.9 | 23.8 | 23.6 | 23.2 | 22.7 | 22.1 | 22.2 | 20.2 | 19   | 17.5 | 15.6 | 14   |
|      |      |      |      |      |      | 8.9  | 8.9  | 8.8  | 8.7  | 8.6  | 8.3  | 7.9  | 7.4  | 6.8  | 6.2  | 5.4  | 4.5  |      |
|      |      |      |      |      |      | 10.4 | 10.4 | 10.3 | 10.2 | 9.9  | 9.5  | 9.1  | 8.6  | 8.1  | 7.4  | 6.6  | 5.8  |      |
|      |      |      |      |      |      | 11.4 | 11.4 | 11.4 | 11.2 | 10.9 | 10.6 | 10.1 | 9.7  | 9.2  | 8.5  | 7.8  | 6.9  | 5.9  |
|      |      |      |      |      |      | 12.7 | 12.7 | 12.6 | 12.4 | 12.1 | 11.7 | 11.2 | 10.7 | 10.2 | 9.6  | 8.8  | 8    | 7.1  |
|      |      |      |      |      |      | 13.6 | 13.6 | 13.5 | 13.3 | 13   | 12.6 | 12.2 | 11.7 | 11.2 | 10.6 | 9.9  | 9.2  | 8.2  |

**KDN 32-125.1**
**= 1450 1/min**

**KDN 32-125**
**= 1450 1/min**

**KDN 32-160.1**
**= 1450 1/min**

**KDN 32-160**
**= 1450 1/min**


**KDN 32-200.1**
**= 1450 1/min**

**KDN 32-200**
**= 1450 1/min**

**KDN 40-125**
**= 1450 1/min**

**KDN 40-160**
**= 1450 1/min**


**KDN 40-200**
**= 1450 1/min**

**KDN 40-250**
**= 1450 1/min**

**KDN 50-125**
**= 1450 1/min**

**KDN 50-160**
**= 1450 1/min**


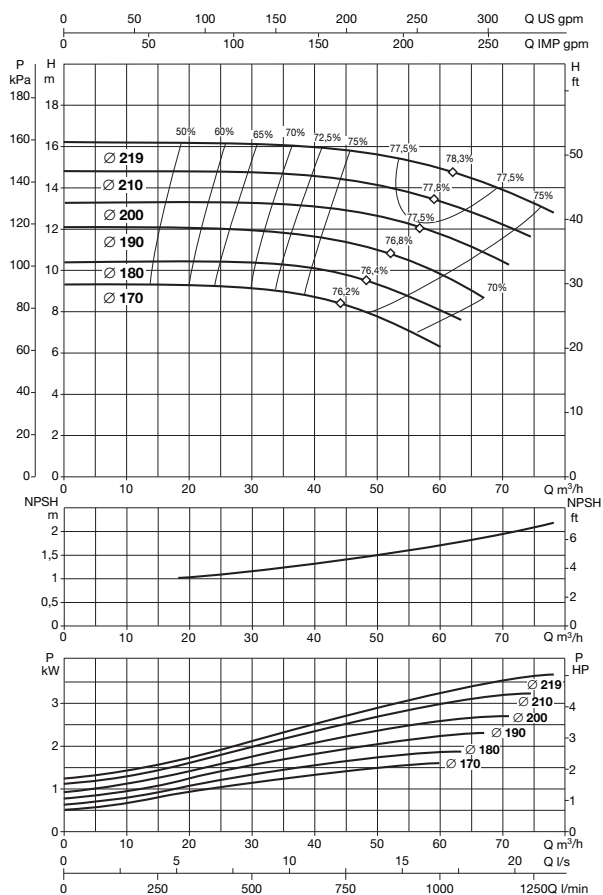
**KDN 50-200**
**= 1450 1/min**

**KDN 50-250**
**= 1450 1/min**

**KDN 65-125**
**= 1450 1/min**

**KDN 65-160**
**= 1450 1/min**




**HIARTEK**

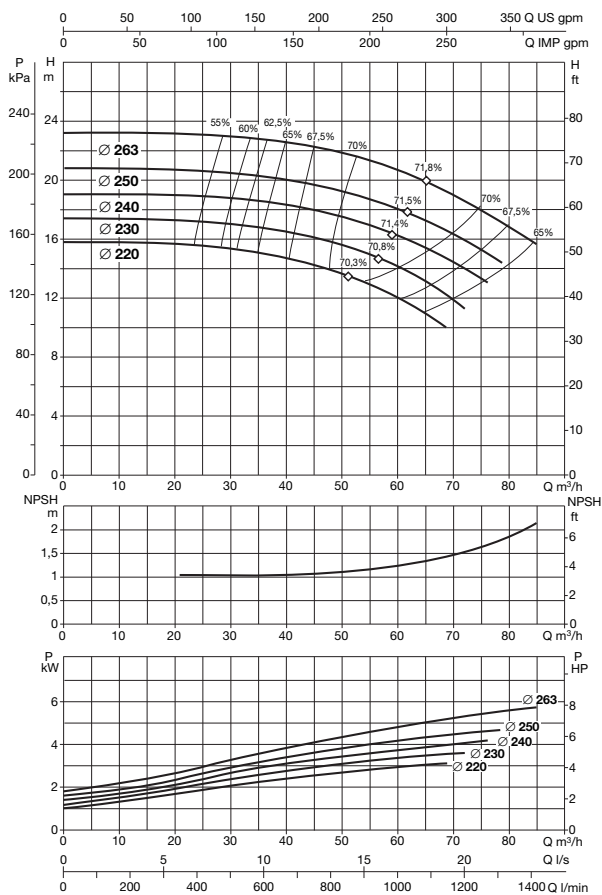
## KDN 65-200

= 1450 1/min



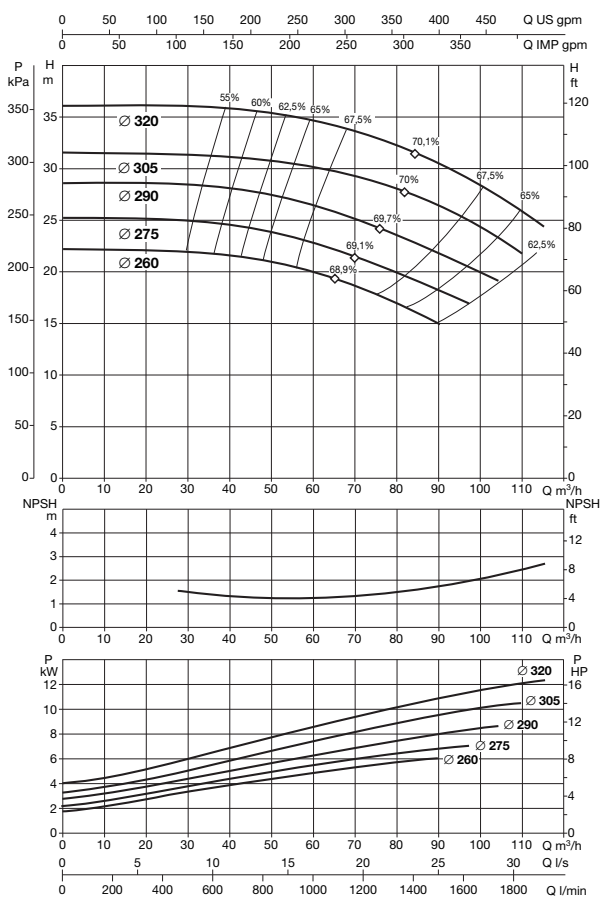
## KDN 65-250

= 1450 1/min



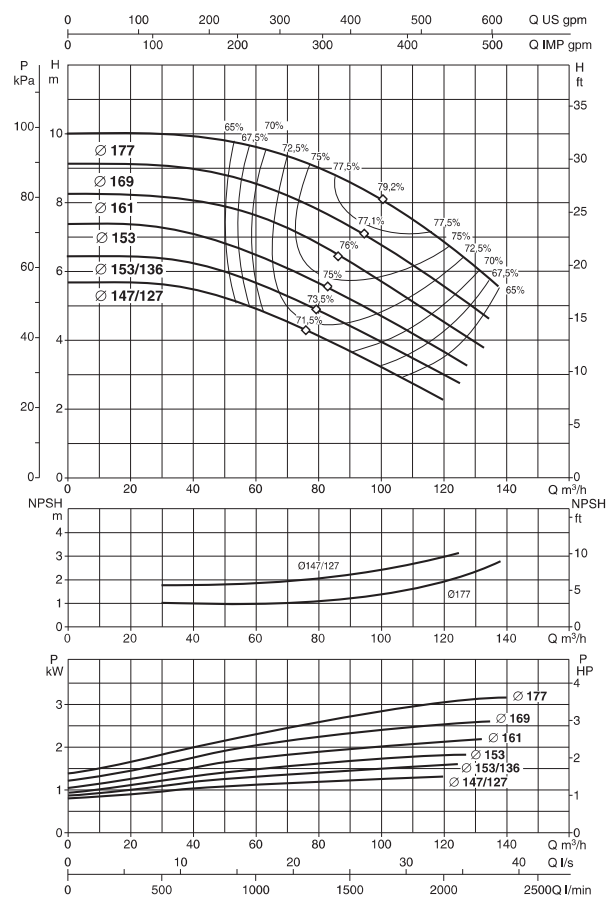
## KDN 65-315

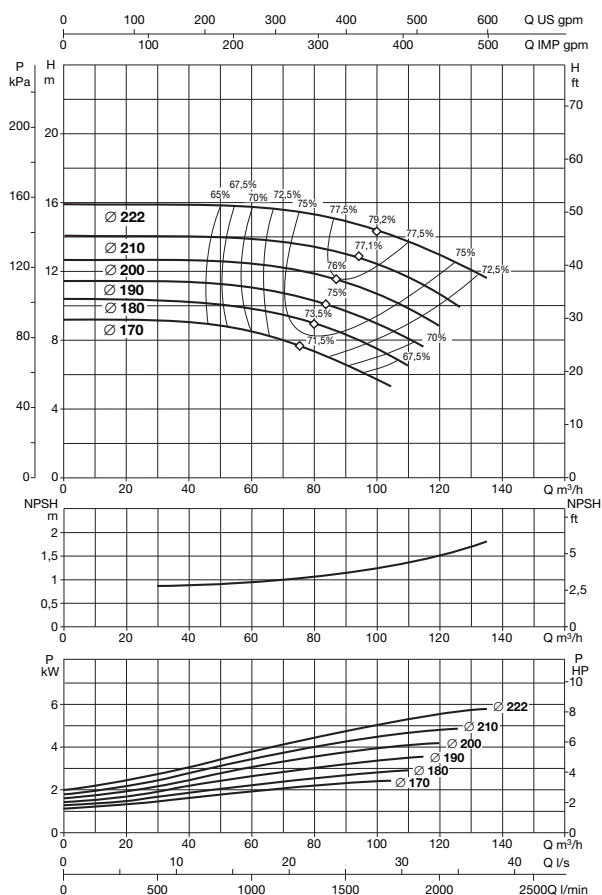
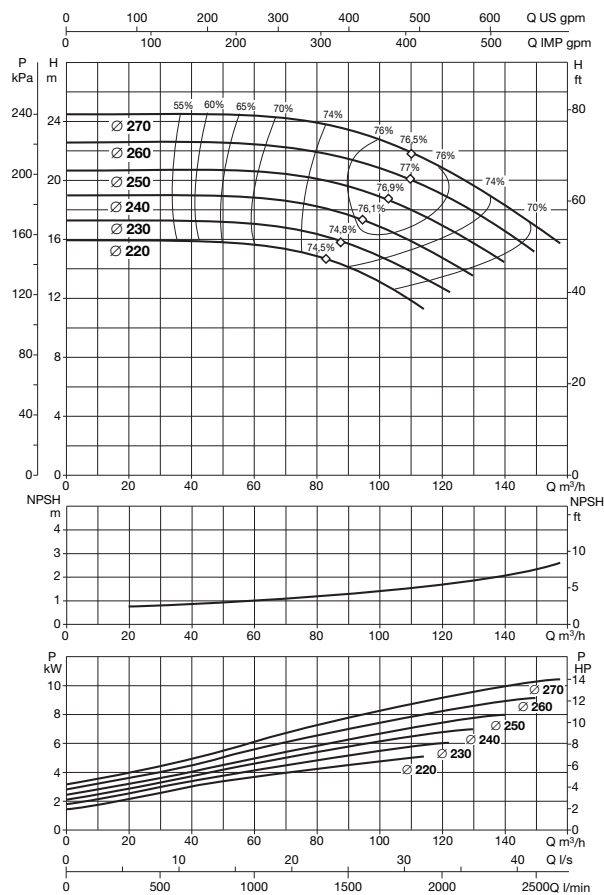
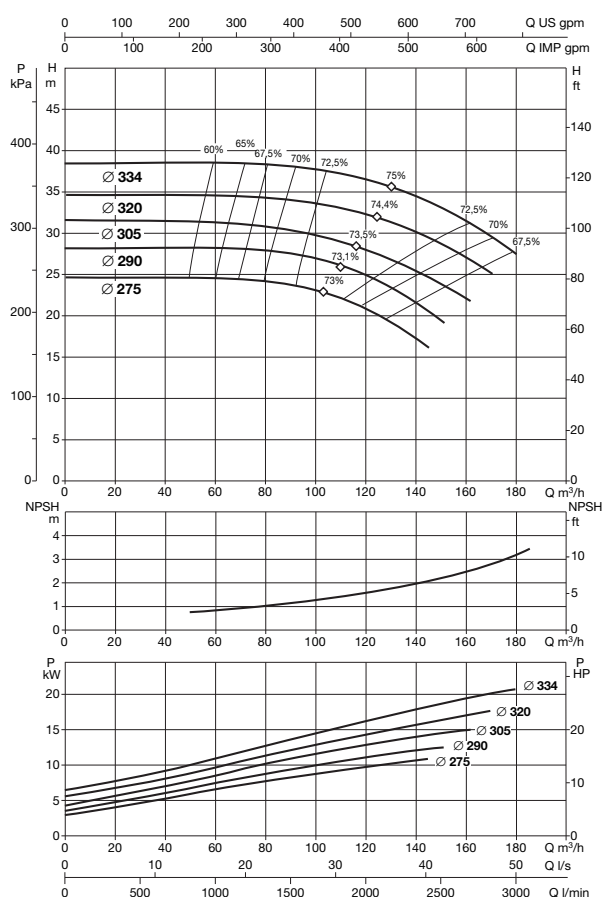
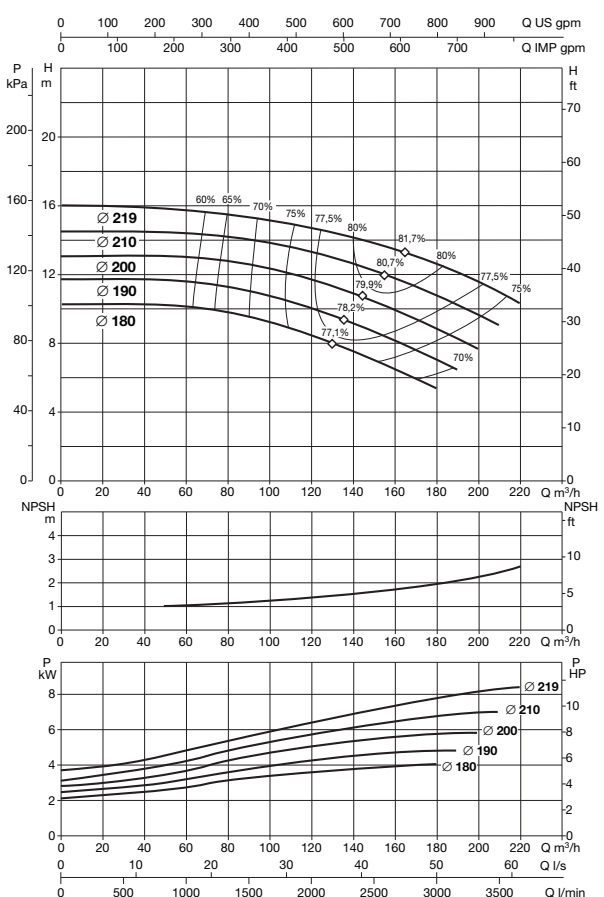
= 1450 1/min

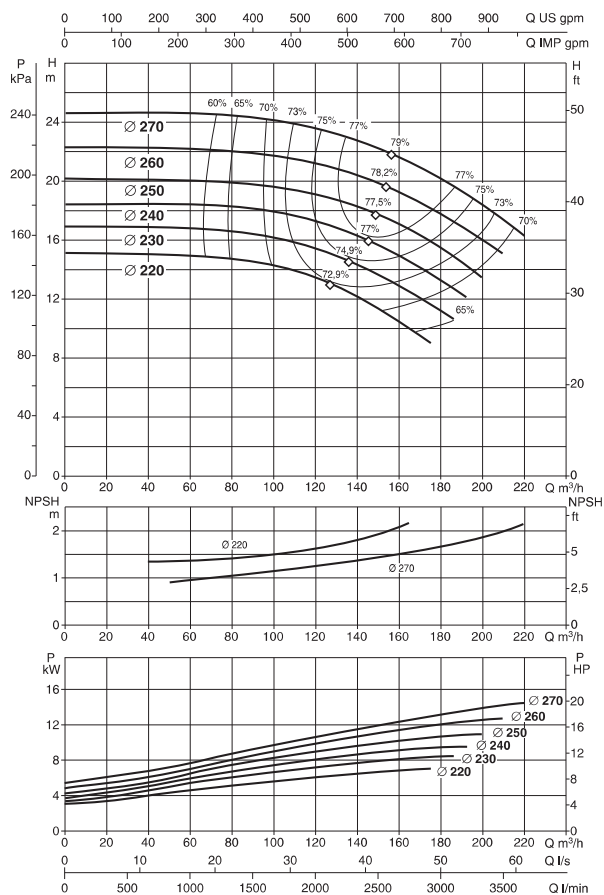
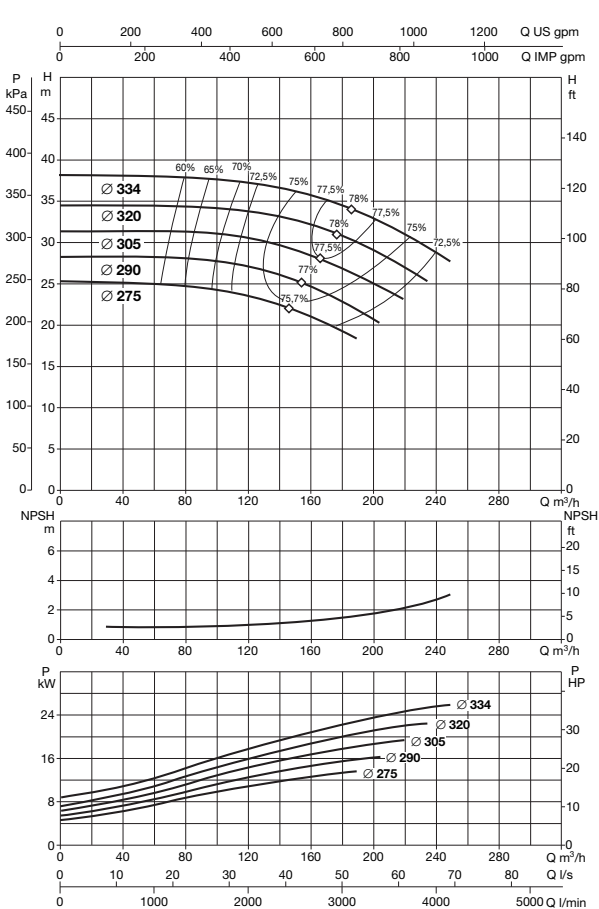
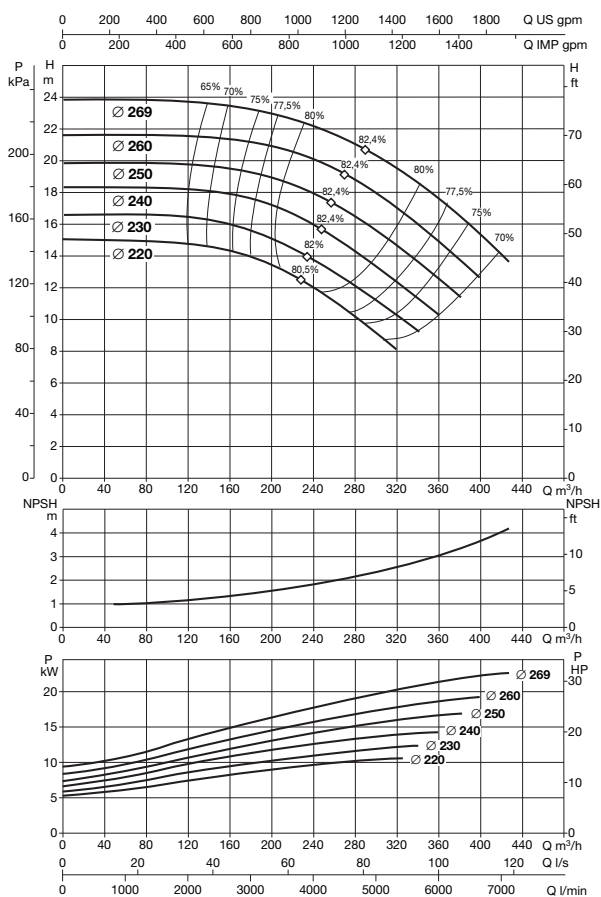
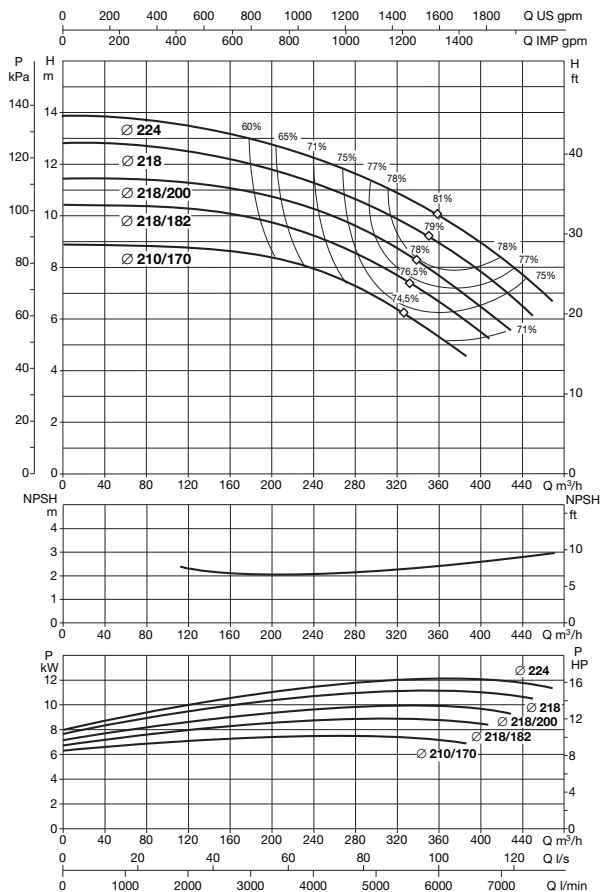


## KDN 80-160

= 1450 1/min



**KDN 80-200**
**= 1450 1/min**

**KDN 80-250**
**= 1450 1/min**

**KDN 80-315**
**= 1450 1/min**

**KDN 100-200**
**= 1450 1/min**


**KDN 100-250**
**= 1450 1/min**

**KDN 100-315**
**= 1450 1/min**

**KDN 125-250**
**= 1450 1/min**

**KDN 150-200**
**= 1450 1/min**


# STANDARD MOTORS ELECTRICAL DATA

## 4 POLES (1500 r.p.m.)

| MOTOR TYPE      | Power kW | Speed r.p.m. | Efficiency % | Power factor Cos. $\varphi$ | Supply voltage 50 Hz V~ | Nominal current | Starting current Ia/In | Starting torque Ma/Mn | Maximum torque M/k/Mn |
|-----------------|----------|--------------|--------------|-----------------------------|-------------------------|-----------------|------------------------|-----------------------|-----------------------|
| <b>MEC 71</b>   | 0,37     | 1340         | 67           | 0,78                        | 3x230-400               | 1,70-0,975      | 4,75                   | 2,84                  | 2,64                  |
| <b>MEC 80</b>   | 0,55     | 1410         | 71           | 0,72                        | 3x230-400               | 2,60-1,50       | 5,33                   | 2,78                  | 2,89                  |
| <b>MEC 80</b>   | 0,75     | 1400         | 73           | 0,75                        | 3x230-400               | 3,30-1,90       | 5,37                   | 2,9                   | 2,79                  |
| <b>MEC 90S</b>  | 1,1      | 1390         | 76           | 0,8                         | 3x230-400               | 4,35-2,50       | 5,92                   | 3,08                  | 2,73                  |
| <b>MEC 90L</b>  | 1,5      | 1400         | 78           | 0,79                        | 3x230-400               | 6,00-3,45       | 5,82                   | 3,04                  | 2,81                  |
| <b>MEC 100L</b> | 2,2      | 1430         | 81           | 0,84                        | 3x230-400               | 7,95-4,60       | 6,87                   | 2,35                  | 2,86                  |
| <b>MEC 100L</b> | 3        | 1440         | 83           | 0,78                        | 3x400 $\emptyset$       | 6,7             | 7,87                   | 3,25                  | 3,53                  |
| <b>MEC 112M</b> | 4        | 1440         | 84           | 0,84                        | 3x400 $\emptyset$       | 8,1             | 7,57                   | 2,85                  | 3,16                  |
| <b>MEC 132S</b> | 5,5      | 1450         | 86           | 0,85                        | 3x400 $\emptyset$       | 10,6            | 7,37                   | 2,38                  | 2,93                  |
| <b>MEC 132M</b> | 7,5      | 1450         | 87           | 0,85                        | 3x400 $\emptyset$       | 14,4            | 7,24                   | 2,47                  | 2,89                  |
| <b>MEC 160M</b> | 11       | 1540         | 88           | 0,86                        | 3x400 $\emptyset$       | 20,8            | 7,39                   | 2,67                  | 2,76                  |
| <b>MEC 160L</b> | 15       | 1450         | 89           | 0,89                        | 3x400 $\emptyset$       | 27              | 7,36                   | 2,52                  | 2,66                  |
| <b>MEC 180M</b> | 18,5     | 1470         | 90           | 0,89                        | 3x400 $\emptyset$       | 33              | 7,48                   | 2,44                  | 3,02                  |
| <b>MEC 180L</b> | 22       | 1470         | 90           | 0,89                        | 3x400 $\emptyset$       | 39              | 8,15                   | 2,67                  | 3,14                  |
| <b>MEC 200L</b> | 30       | 1470         | 91           | 0,89                        | 3x400 $\emptyset$       | 52,5            | 7,26                   | 2,93                  | 3,24                  |

## 2 POLES (3000 r.p.m.)

| MOTOR TYPE      | Power kW | Speed r.p.m. | Efficiency % | Power factor Cos. $\varphi$ | Supply voltage 50 Hz V~ | Nominal current | Starting current Ia/In | Starting torque Ma/Mn | Maximum torque M/k/Mn |
|-----------------|----------|--------------|--------------|-----------------------------|-------------------------|-----------------|------------------------|-----------------------|-----------------------|
| <b>MEC 80</b>   | 0,75     | 2820         | 75           | 0,83                        | 3x230-400               | 2,88-1,66       | 6,06                   | 2,58                  | 2,65                  |
| <b>MEC 80</b>   | 1,1      | 2820         | 76,2         | 0,84                        | 3x230-400               | 4,00-2,30       | 6,61                   | 2,4                   | 2,4                   |
| <b>MEC 90S</b>  | 1,5      | 2820         | 78,5         | 0,83                        | 3x230-400               | 5,75-3,30       | 7,5                    | 3                     | 2,94                  |
| <b>MEC 90L</b>  | 2,2      | 2830         | 81           | 0,85                        | 3x230-400               | 7,90-4,55       | 7,23                   | 3,1                   | 2,85                  |
| <b>MEC 100L</b> | 3        | 2860         | 82,6         | 0,87                        | 3x400 $\emptyset$       | 5,90            | 7,53                   | 2,67                  | 3                     |
| <b>MEC 112M</b> | 4        | 2890         | 84,2         | 0,87                        | 3x400 $\emptyset$       | 7,80            | 7,67                   | 2,64                  | 3,16                  |
| <b>MEC 132S</b> | 5,5      | 2910         | 85,7         | 0,88                        | 3x400 $\emptyset$       | 10,4            | 7,91                   | 2,55                  | 3,27                  |
| <b>MEC 132S</b> | 7,5      | 2900         | 87           | 0,89                        | 3x400 $\emptyset$       | 13,6            | 7,78                   | 2,3                   | 3,15                  |
| <b>MEC 160M</b> | 11       | 2930         | 88,4         | 0,9                         | 3x400 $\emptyset$       | 19,6            | 6,57                   | 2,37                  | 2,83                  |
| <b>MEC 160M</b> | 15       | 2940         | 89,4         | 0,9                         | 3x400 $\emptyset$       | 26,5            | 6,55                   | 2,6                   | 2,89                  |
| <b>MEC 160L</b> | 18,5     | 2940         | 90           | 0,9                         | 3x400 $\emptyset$       | 33,0            | 7,23                   | 2,82                  | 3,17                  |
| <b>MEC 180M</b> | 22       | 2940         | 90,5         | 0,9                         | 3x400 $\emptyset$       | 39,0            | 7,41                   | 2,48                  | 3,08                  |
| <b>MEC 200L</b> | 30       | 2950         | 91,4         | 0,88                        | 3x400 $\emptyset$       | 53,5            | 7,15                   | 2,32                  | 3,05                  |
| <b>MEC 200L</b> | 37       | 2970         | 92           | 0,89                        | 3x400 $\emptyset$       | 64,5            | 7,87                   | 2,61                  | 3,25                  |
| <b>MEC 225M</b> | 45       | 2960         | 92,5         | 0,89                        | 3x400 $\emptyset$       | 78,0            | 7,92                   | 2,54                  | 3,19                  |
| <b>MEC 250M</b> | 55       | 2980         | 93           | 0,9                         | 3x400 $\emptyset$       | 94,5            | 6,17                   | 1,86                  | 2,66                  |
| <b>MEC 280S</b> | 75       | 2980         | 93,6         | 0,88                        | 3x400 $\emptyset$       | 128             | 6,61                   | 2,27                  | 3,16                  |
| <b>MEC 280M</b> | 90       | 2980         | 93,9         | 0,89                        | 3x400 $\emptyset$       | 160             | 7,13                   | 2,58                  | 3,34                  |
| <b>MEC 315S</b> | 110      | 2980         | 94           | 0,89                        | 3x400 $\emptyset$       | 188             | 6,18                   | 2,03                  | 3,05                  |