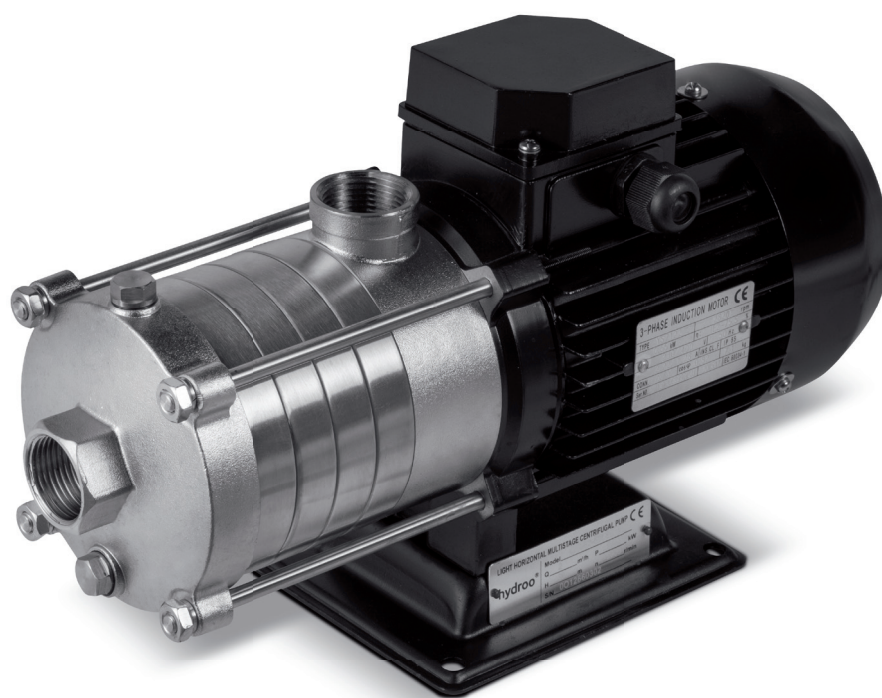


BE PUMPING  
PARTNERS

# HF, HX, HN

## HDROO Series

Horizontal multistage  
stainless steel  
centrifugal pump



hydroo®



HYDROO is present in all the European markets by means of a distribution network focused on the service and the valuation of the pumping business. HYDROO conceives, researches, develops, designs, industrializes, and manufactures a wide range of pumping solutions for the most demanding applications in industrial markets, irrigation, water supply and water treatment as well as in residential and commercial buildings. The values of operational excellence, experience, reliability, and passion for a well-done job guide the daily work of the Hydroo team together with our partners and distributors. The global challenges of water management require excellence in pumping technologies and a join effort between designers, manufacturers, and pumping engineers. To meet the needs of the market in the more demanding installations Hydroo is firmly committed to manufacturing the best pumping equipment on the market following and sharing our values worldwide.

The Hydroo values are presented in 5 great concepts that we summarize in our motto Hy5, which are our principles and commitments:

# BE PUMPING PARTNERS



Parc Natural del Montseny  
(Vallès Oriental county, Catalonia)

The Montseny, Biosphere Reserve is a mosaic of Mediterranean and Central European landscapes. Its extraordinary biodiversity and the cultural footprint that man has left over time, present a universal value that has inspired artists, intellectuals and scientists, and that awakens the emotion of the people who visit it.

**Coordinates:**  
Longitude: 2.44042  
Latitude: 41.74003



## hymotion

Value proposal based on the reliability of products enhancing the quality, the development of efficient supply chains, the productivity with the love of craftsmen at every step of the manufacturing and production lines. We move with the commitment to improve pumping systems, make them more efficient, more reliable, more digitized, more at the service of the human development.



## hylite

Contribution to preservation of the environment and to sustainability. We reduce the environmental impact and footprint of carbon. We contribute to the development of the circular economy. Our team stand out for the highest standards of energy efficiency.



## hyficient

The use of the most advanced analytical, development and simulation tools allows us to optimize our R&D teamwork results. We maximize the study of materials, efficient hydraulics, mechanical improvements and the optimization of our motors up to 200 kW. The results are robust, reliable, flexible, adjustable, multipurpose, and user-friendly pumping equipment.



## hynovative

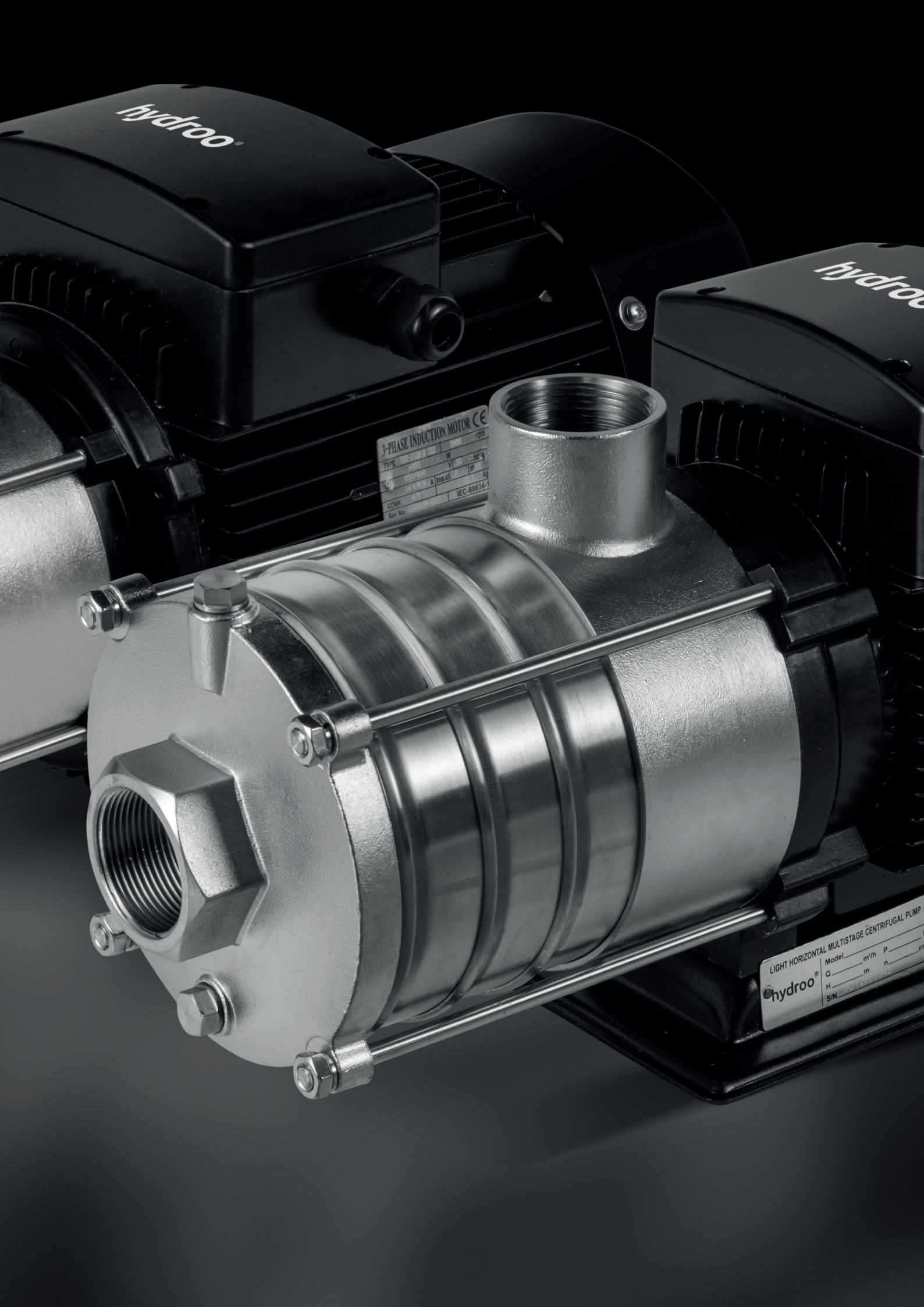
Commitment to implementation of the innovation process as strategic pillar of the company. Transfer new ideas to realities that evolve pumping industry and internalize the process in each job position to offer market improvements.



## hyliance

We are the factory of our customers. Without solution of continuity between the value chain starting in the components production plants and ending with amortization of the pumping equipment operating at full performance for years and giving satisfaction to distributors, project engineers and pumping systems managers. We make real our catchphrase **Be Pumping Partners**.





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# HF HX HN

Horizontal multistage  
stainless steel  
centrifugal pump

### Description

Light horizontal multistage centrifugal pumps made in Stainless Steel.

Standard totally enclosed, fan cooled, insulation class F, IP 55 motors.

Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -15 °C and 70 °C.

Versions for hot water up to 110 °C are available on request.

ACS certified.

### Performance range

Capacity: Q up to 28 m³/h  
Head: H up to 60 m  
Temperature: T up to 110 °C  
Speed: n 2900 rpm or 3500 rpm  
Power: P up to 4,4 kW

### Standard material

HX, HN: standard version made in AISI304 or AISI316 L Stainless Steel; pump inlet and outlet in stainless steel.

HF: standard version made in AISI304 or AISI316 L Stainless Steel; pump inlet and outlet in cast iron.

Applications

— Cooling water system

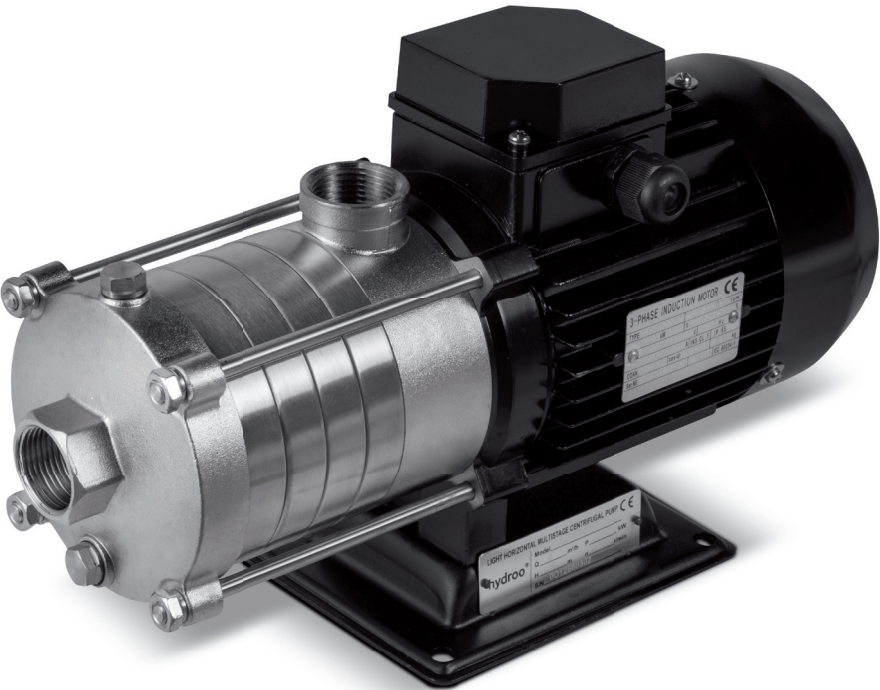
— Aquiculture

— Domestic water supply

— General industrial services

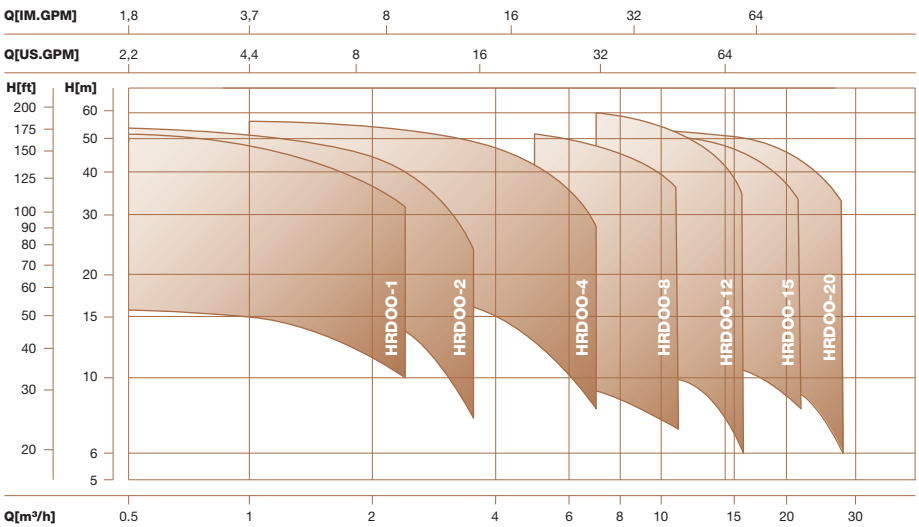
— Washing

— Environment protection



### Performance scope

50Hz



### Installation table

| Connection port | HX1 | HF, HX, HN2 | HF, HX, HN4 | HF, HX, HN8 | HF, HX, HN12 | HF, HX, HN15, 20 |
|-----------------|-----|-------------|-------------|-------------|--------------|------------------|
| Inlet           | G1  | G1          | G1¼         | G1½         | G1½          | G2               |
| Outlet          | G1  | G1          | G1¼         | G1½         | G1½          | G2               |

### Applicable medium

- Thin and clean non-flammable and non-explosive liquid without solid granules and bers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
- When the density or viscosity of to- be-conveyed liquid is larger than that of water, it is necessary to select driving motor of high power.
- Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content. PH value, temperature, solvent and oil content.

### Application

- HF, HX, HN type pump are mainly used in industrial field:
- Air-conditioning system
  - Cooling system
  - Industrial cleaning
  - Water treatment (Water purification)
  - Aquiculture
  - Fertilizing / meeting system
  - Environmental application
  - Other special applications

### Motor

- TEFC motor 2-pole
- Protection class: IP55
- Insulation class: F
- Standard voltage, 50Hz:  
1 x 220-240V  
3 x 220-240V / 380-415V
- Single phase motor (max): 2.4kW

### Curve conditions

- Following conditions are suitable for the performance curves shown above.
- All curves are based on the measured values of constant motor speed 3500r/min;
  - Curve tolerance in conformity with ISO9906 Annex A.
  - Measurement is done with 20 °C air-free water, kinematic viscosity of 1mm2/sec.
  - The operation of pump shall refer to the performance region described by the thickened curve to prevent overheating due to too small ow rate or overload of motor due to too large ow rate.

### Operation conditions

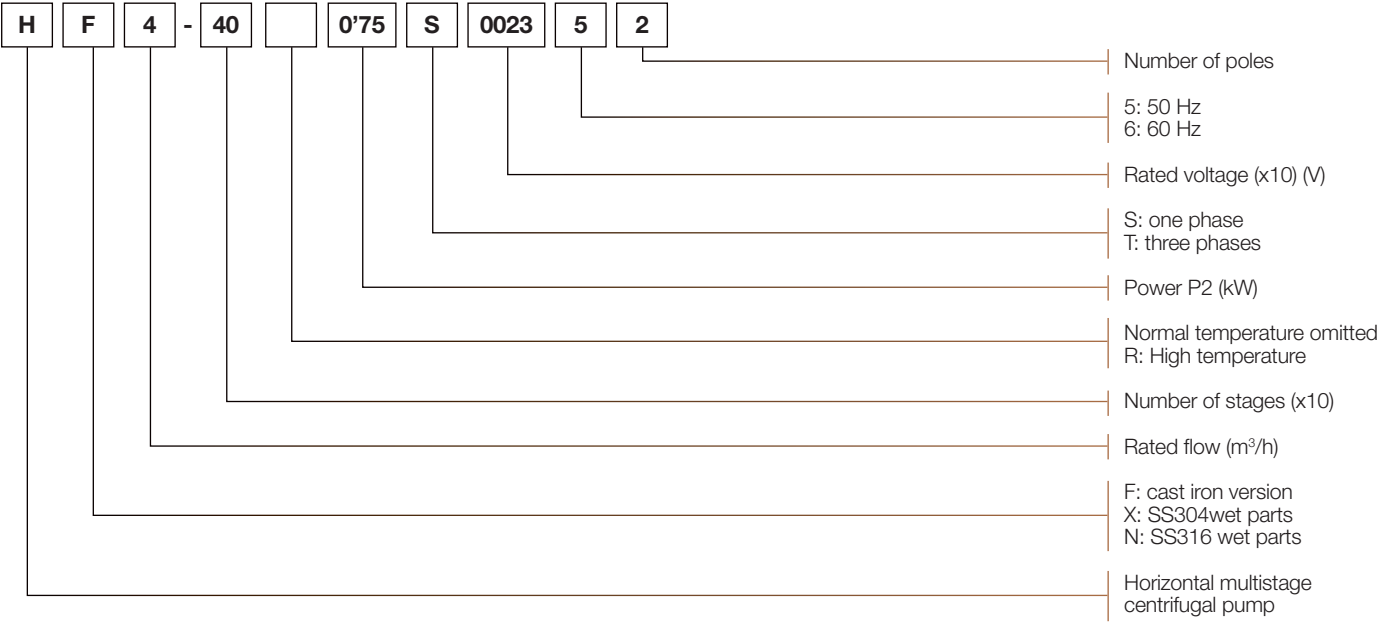
- Liquid temperature:  
Normal temperature type: -15 °C~+70 °C  
Hot water type: -15 °C~+110 °C
- Ambient temperature: up to +40 °C
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. Operation Pressure

### Pump

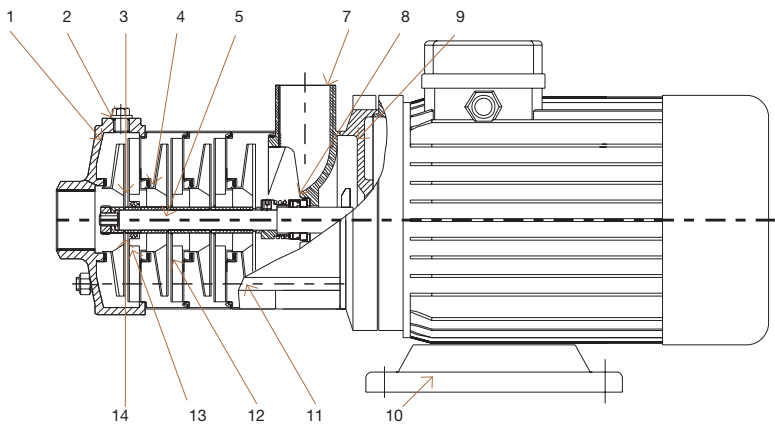
- Horizontal multistage non-self-priming centrifugal pump, attached with long shaft electric motor.
- Compact structure renders small size of pump; axial inlet and radial outlet.



Definition of model



Section drawing

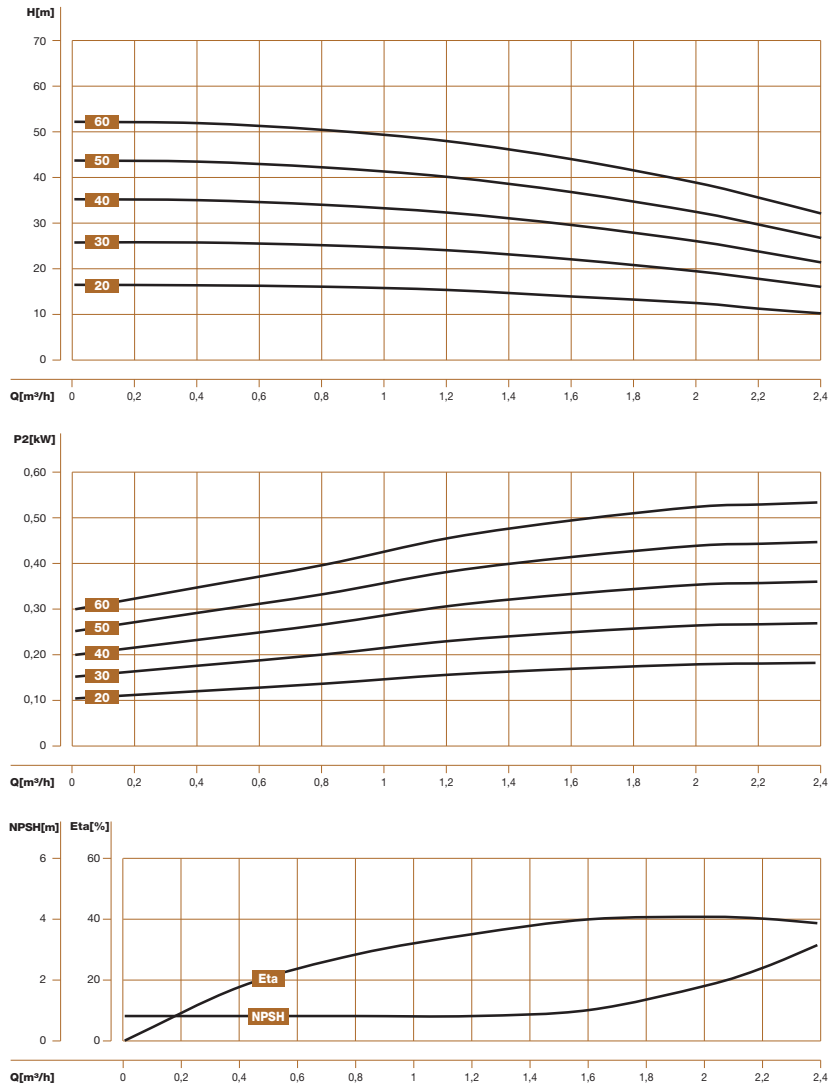


Material

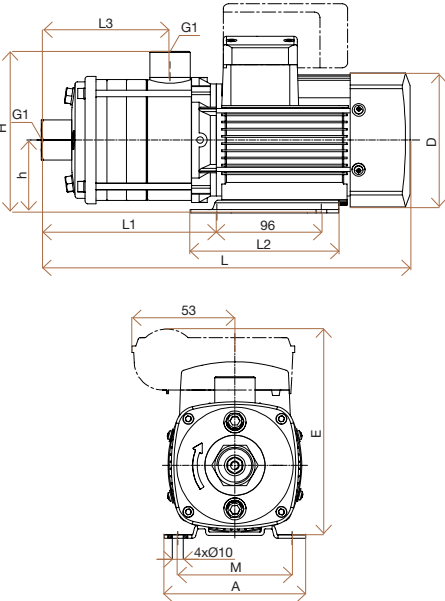
| N° | Name             | Material         | AISI /ASTM |
|----|------------------|------------------|------------|
| 2  | Plug             | Stainless steel  | AISI304    |
| 3  | Bearing          | Tungsten carbide |            |
| 4  | Impeller         | Stainless steel  | AISI304    |
| 5  | Shaft            | Stainless steel  | AISI304    |
| 8  | Mechanical seal  |                  |            |
| 9  | Motor end cover  | Aluminum Alloy   |            |
| 10 | Base plate       | Cast Iron        |            |
| 11 | Staybolt         | Stainless steel  | AISI304    |
| 12 | Diffuser         | Stainless steel  | AISI304    |
| 13 | Support diffuser | Stainless steel  | AISI304    |
| 14 | Impeller sleeve  | Stainless steel  | AISI304    |
| HX |                  |                  |            |
| 1  | Suction          | Stainless steel  | AISI304    |
| 7  | Discharge        | Stainless steel  | AISI304    |
| HF |                  |                  |            |
| 1  | Suction          | Cast Iron        | ASTM25B    |
| 7  | Discharge        | Cast Iron        | ASTM25B    |

# HX1

Performance curve ISO9906:2012 Grade 3B



Installation sketch



Performance table

| Model   | I (A)  |        | P2   |      | Q<br>m³/h | 0,4 | 0,8 | 1,2 | 1,6 | 2  | 2,2 | 2,4 |
|---------|--------|--------|------|------|-----------|-----|-----|-----|-----|----|-----|-----|
|         | 1~220V | 3~380V | kW   | HP   |           |     |     |     |     |    |     |     |
| HX 1-20 | 1,9    | 0,8    | 0,25 | 0,33 | mca       | 16  | 16  | 15  | 14  | 12 | 11  | 10  |
| HX 1-30 | 2,3    | 1      | 0,37 | 0,5  |           | 26  | 25  | 24  | 22  | 19 | 18  | 16  |
| HX 1-40 | 2,3    | 1      | 0,37 | 0,5  |           | 35  | 34  | 32  | 30  | 26 | 24  | 29  |
| HX 1-50 | 3,7    | 1,4    | 0,45 | 0,75 |           | 43  | 42  | 40  | 37  | 33 | 30  | 27  |
| HX 1-60 | 3,7    | 1,4    | 0,55 | 0,75 |           | 52  | 51  | 48  | 44  | 39 | 36  | 32  |

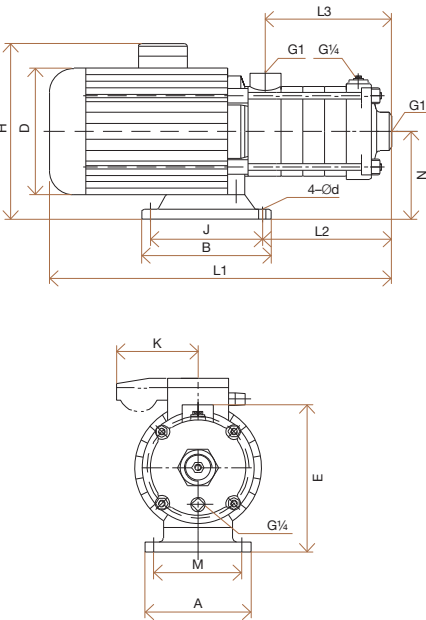
Size and weight

| Model   | A   | D   | E (3 ph/1 ph) | H   | L   | L1   | L2  | L3  | M   | h  | Weight |
|---------|-----|-----|---------------|-----|-----|------|-----|-----|-----|----|--------|
|         | mm  |     |               |     |     |      |     |     |     |    | kg     |
| HX 1-20 | 130 | 121 | 162/197       | 149 | 327 | 144  | 136 | 101 | 105 | 67 | 7      |
| HX 1-30 | 130 | 121 | 162/197       | 149 | 346 | 163  | 136 | 120 | 105 | 67 | 7      |
| HX 1-40 | 130 | 121 | 162/197       | 149 | 364 | 1181 | 136 | 138 | 105 | 67 | 8      |
| HX 1-50 | 130 | 121 | 162/197       | 149 | 383 | 200  | 136 | 157 | 105 | 67 | 9      |
| HX 1-60 | 157 | 141 | 162/197       | 157 | 405 | 211  | 150 | 175 | 125 | 75 | 10     |

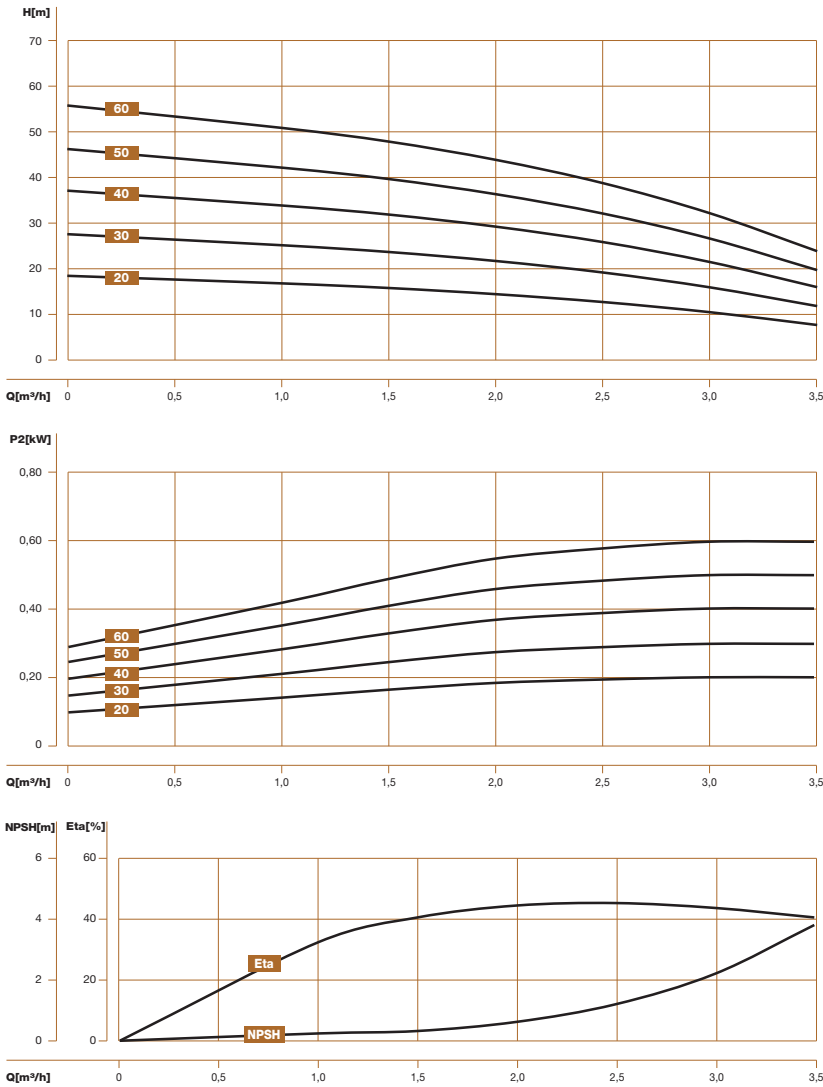


# HF, HX, HN 2

## Installation sketch



## Performance curve ISO9906:2012 Grade 3B



## Performance table

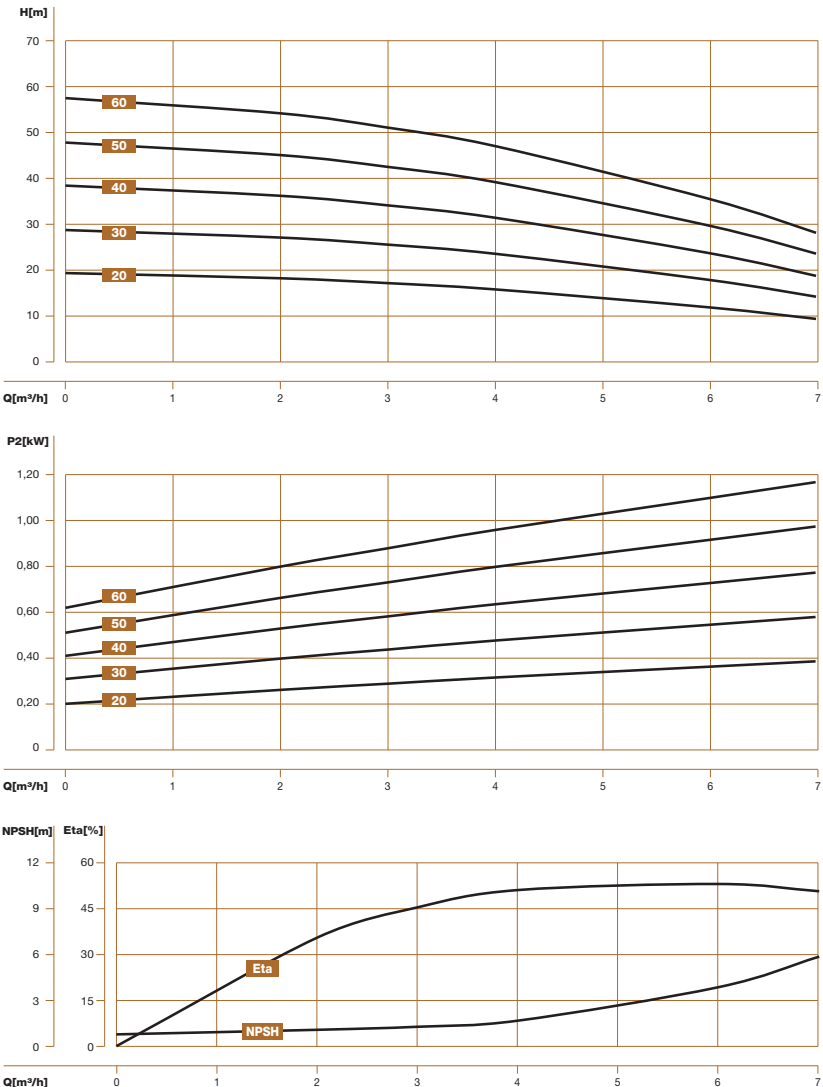
| Model           | I (A)  |        | P2   |      | Q    | 0,5 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 |
|-----------------|--------|--------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1~220V | 3~380V | kW   | HP   | m³/h |     |     |     |     |     |     |     |
| HF, HX, HN 2-20 | 1,7    | 1      | 0,37 | 0,5  | mca  | 19  | 18  | 17  | 15  | 13  | 10  | 8   |
| HF, HX, HN 2-30 | 1,7    | 1      | 0,37 | 0,5  |      | 28  | 27  | 25  | 22  | 19  | 16  | 12  |
| HF, HX, HN 2-40 | 2,4    | 1,4    | 0,55 | 0,75 |      | 36  | 35  | 33  | 29  | 25  | 21  | 16  |
| HF, HX, HN 2-50 | 2,4    | 1,4    | 0,55 | 0,75 |      | 46  | 43  | 40  | 36  | 32  | 27  | 21  |
| HF, HX, HN 2-60 | 2,9    | 1,7    | 0,75 | 1    |      | 54  | 51  | 48  | 44  | 39  | 32  | 24  |

## Size and weight

| Model           | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d | k (1 ph) | Packaging       | Weight |
|-----------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|---|----------|-----------------|--------|
|                 | mm  |     |     |     |               |     |     |     |     |     |     |   |          |                 | kg     |
| HF, HX, HN 2-20 | 130 | 160 | 145 | 182 | 215/230       | 138 | 305 | 87  | 84  | 108 | 110 | 9 | 96       | 400 x 230 x 280 | 15     |
| HF, HX, HN 2-30 | 130 | 160 | 145 | 182 | 215/230       | 138 | 323 | 105 | 102 | 108 | 110 | 9 | 96       | 420 x 230 x 280 | 15     |
| HF, HX, HN 2-40 | 130 | 160 | 145 | 182 | 215/230       | 138 | 341 | 123 | 120 | 108 | 110 | 9 | 96       | 420 x 230 x 280 | 15     |
| HF, HX, HN 2-50 | 130 | 160 | 145 | 182 | 215/230       | 138 | 359 | 141 | 138 | 108 | 110 | 9 | 96       | 450 x 230 x 280 | 15     |
| HF, HX, HN 2-60 | 130 | 160 | 170 | 182 | 225/245       | 138 | 422 | 159 | 156 | 108 | 110 | 9 | 100      | 490 x 240 x 230 | 17     |

# HF, HX, HN 4

## Performance curve ISO9906:2012 Grade 3B



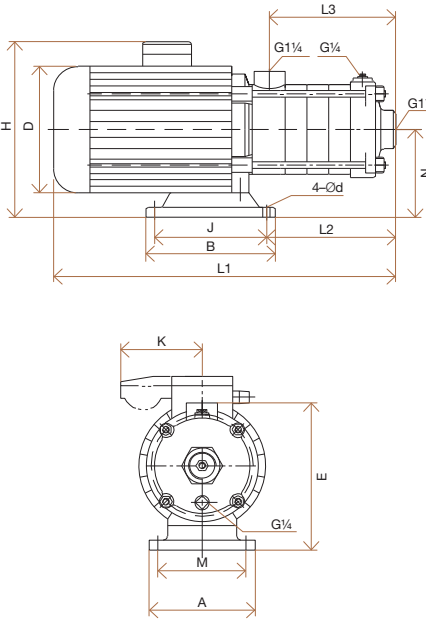
## Performance table

| Model           | I (A)  |        | P2   |      | Q    | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|-----------------|--------|--------|------|------|------|----|----|----|----|----|----|----|
|                 | 1~220V | 3~380V | kW   | HP   | m³/h |    |    |    |    |    |    |    |
| HF, HX, HN 4-20 | 1,7    | 1      | 0,37 | 0,5  | mca  | 19 | 18 | 17 | 15 | 13 | 10 | 8  |
| HF, HX, HN 4-30 | 2,4    | 1,4    | 0,55 | 0,75 |      | 28 | 27 | 26 | 24 | 21 | 17 | 13 |
| HF, HX, HN 4-40 | 2,9    | 1,7    | 0,75 | 1    |      | 38 | 36 | 34 | 31 | 27 | 23 | 19 |
| HF, HX, HN 4-50 | 4,3    | 2,4    | 1,1  | 1,5  |      | 47 | 45 | 43 | 39 | 34 | 29 | 23 |
| HF, HX, HN 4-60 | 4,3    | 2,4    | 1,1  | 1,5  |      | 56 | 54 | 51 | 47 | 42 | 36 | 28 |

## Size and weight

| Model           | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d | k (1 ph) | Packaging       | Weight |
|-----------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|---|----------|-----------------|--------|
|                 | mm  |     |     |     |               |     |     |     |     |     |     |   |          |                 | kg     |
| HF, HX, HN 4-20 | 130 | 160 | 145 | 182 | 215/230       | 138 | 329 | 105 | 102 | 108 | 110 | 9 | 96       | 420 x 230 x 280 | 15     |
| HF, HX, HN 4-30 | 130 | 160 | 145 | 182 | 215/230       | 138 | 356 | 132 | 129 | 108 | 110 | 9 | 96       | 450 x 230 x 280 | 15     |
| HF, HX, HN 4-40 | 130 | 160 | 170 | 182 | 225/245       | 138 | 416 | 162 | 156 | 108 | 110 | 9 | 100      | 490 x 240 x 320 | 17     |
| HF, HX, HN 4-50 | 130 | 160 | 170 | 182 | 225/245       | 138 | 455 | 188 | 183 | 108 | 110 | 9 | 100      | 520 x 240 x 320 | 17     |
| HF, HX, HN 4-60 | 130 | 160 | 170 | 182 | 225/245       | 138 | 482 | 213 | 210 | 108 | 110 | 9 | 100      | 550 x 240 x 320 | 17     |

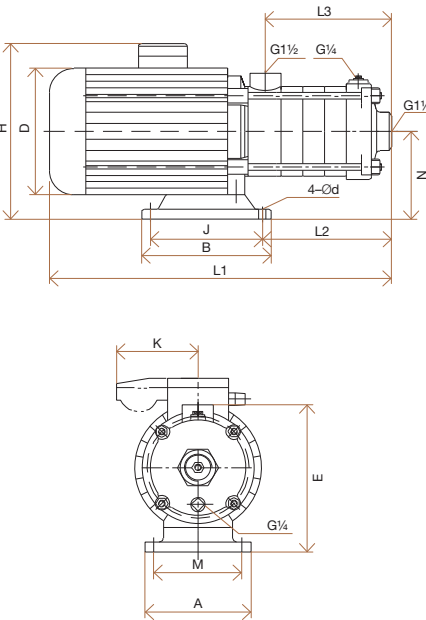
## Installation sketch



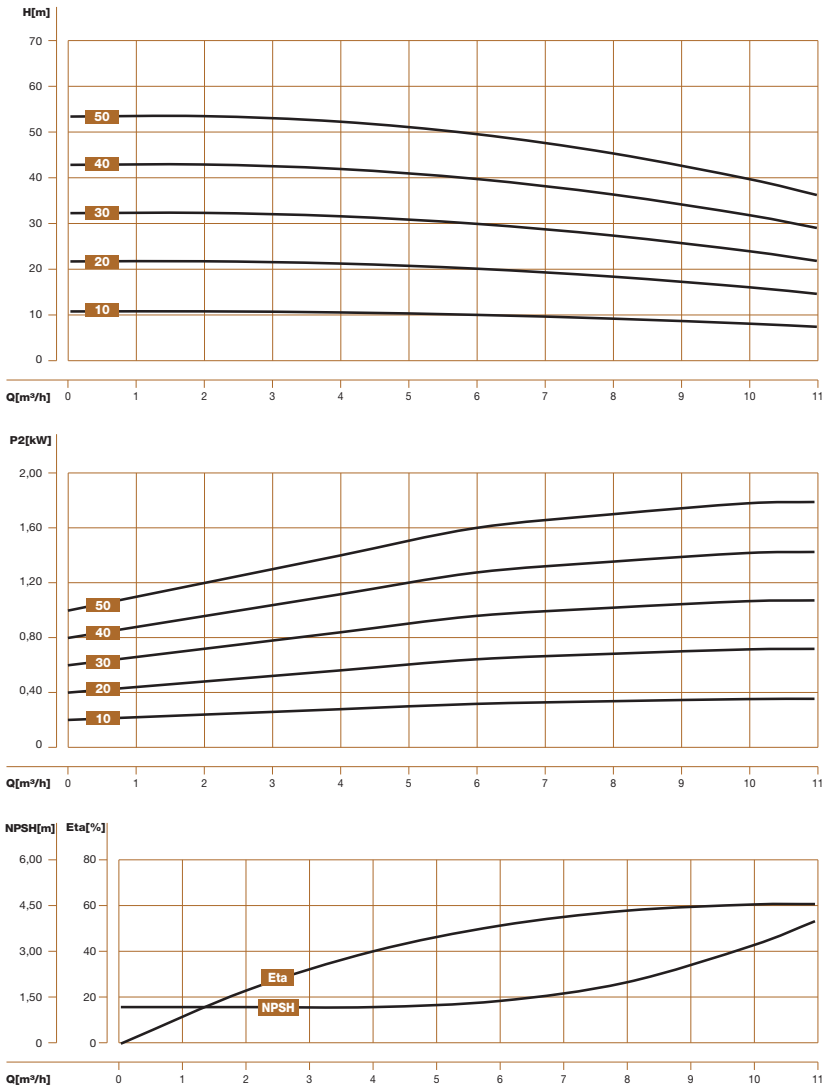


# HF, HX, HN 8

## Installation sketch



## Performance curve ISO9906:2012 Grade 3B



## Performance table

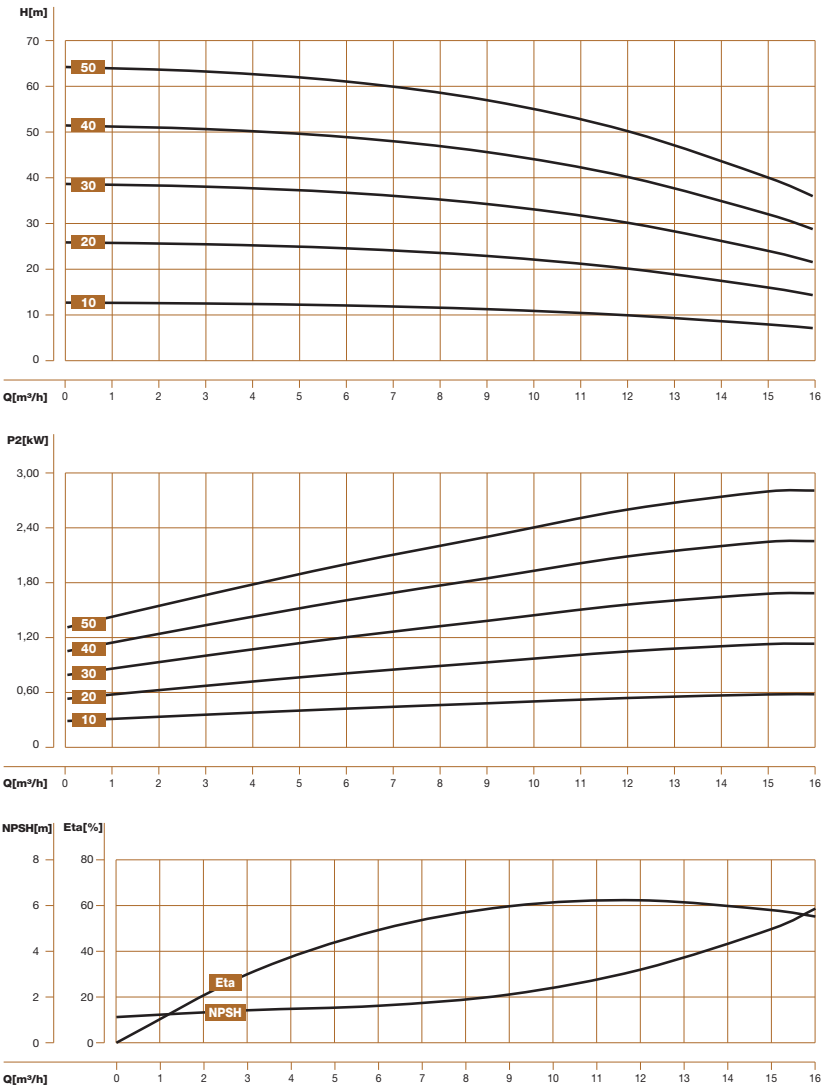
| Model           | I (A)  |        | P2   |     | Q    | 5  | 6  | 7  | 8  | 9  | 10 | 11 |
|-----------------|--------|--------|------|-----|------|----|----|----|----|----|----|----|
|                 | 1~220V | 3~380V | kW   | HP  | m³/h |    |    |    |    |    |    |    |
| HF, HX, HN 8-10 | 2,9    | 1,7    | 0,75 | 1   | mca  | 10 | 10 | 9  | 9  | 8  | 8  | 7  |
| HF, HX, HN 8-20 | 2,9    | 1,7    | 0,75 | 1   |      | 20 | 20 | 19 | 18 | 17 | 16 | 14 |
| HF, HX, HN 8-30 | 4,3    | 2,4    | 1,1  | 1,5 |      | 30 | 29 | 28 | 27 | 25 | 23 | 21 |
| HF, HX, HN 8-40 | 5,6    | 3,3    | 1,5  | 2   |      | 39 | 38 | 37 | 35 | 33 | 31 | 28 |
| HF, HX, HN 8-50 | 7,9    | 4,6    | 2,2  | 3   |      | 51 | 50 | 48 | 45 | 43 | 40 | 36 |

## Size and weight

| Model           | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d | k (1 ph) | Packaging       | Weight |
|-----------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|---|----------|-----------------|--------|
|                 | mm  |     |     |     |               |     |     |     |     |     |     |   |          |                 | kg     |
| HF, HX, HN 8-10 | 130 | 160 | 170 | 228 | 230/265       | 138 | 395 | 126 | 108 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 20     |
| HF, HX, HN 8-20 | 130 | 160 | 170 | 228 | 230/265       | 138 | 395 | 126 | 108 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 20     |
| HF, HX, HN 8-30 | 130 | 160 | 170 | 228 | 230/265       | 138 | 425 | 156 | 138 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 25     |
| HF, HX, HN 8-40 | 130 | 160 | 180 | 228 | 240/270       | 138 | 490 | 186 | 168 | 108 | 118 | 9 | 100      | 600 x 240 x 300 | 28     |
| HF, HX, HN 8-50 | 130 | 160 | 180 | 228 | 240/270       | 138 | 520 | 216 | 198 | 108 | 118 | 9 | 100      | 600 x 240 x 300 | 30     |

# HF, HX, HN 12

## Performance curve ISO9906:2012 Grade 3B



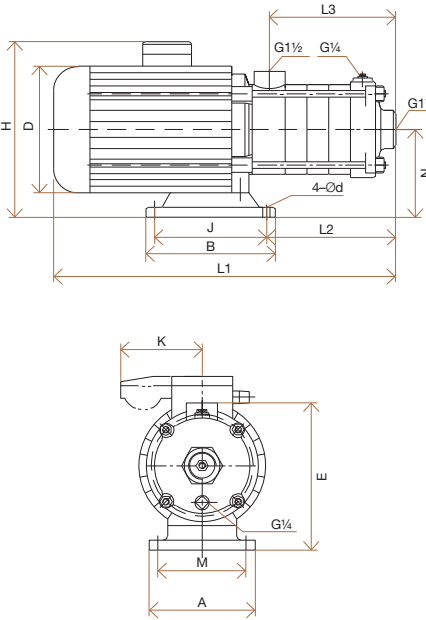
## Performance table

| Model            | I (A)  |        | P2   |     | Q    | 7  | 9  | 11 | 13 | 14 | 15 | 16 |
|------------------|--------|--------|------|-----|------|----|----|----|----|----|----|----|
|                  | 1~220V | 3~380V | kW   | HP  | m³/h |    |    |    |    |    |    |    |
| HF, HX, HN 12-10 | 2,9    | 1,7    | 0,75 | 1   | mca  | 12 | 11 | 10 | 9  | 8  | 7  | 6  |
| HF, HX, HN 12-20 | 4,3    | 2,4    | 1,2  | 1,6 |      | 23 | 22 | 21 | 19 | 17 | 16 | 13 |
| HF, HX, HN 12-30 | 6,6    | 3,8    | 1,8  | 2,4 |      | 35 | 34 | 31 | 28 | 26 | 24 | 20 |
| HF, HX, HN 12-40 | 7,9    | 4,6    | 2,4  | 3,3 |      | 47 | 45 | 42 | 38 | 35 | 32 | 28 |
| HF, HX, HN 12-50 | –      | 6      | 3    | 4   |      | 60 | 57 | 53 | 47 | 44 | 40 | 35 |

## Size and weight

| Model            | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d | k (1 ph) | Packaging       | Weight |
|------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|---|----------|-----------------|--------|
|                  | mm  |     |     |     |               |     |     |     |     |     |     |   |          |                 | kg     |
| HF, HX, HN 12-10 | 130 | 160 | 151 | 228 | 230/265       | 138 | 395 | 126 | 108 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 20     |
| HF, HX, HN 12-20 | 130 | 160 | 170 | 228 | 230/265       | 138 | 395 | 126 | 108 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 21     |
| HF, HX, HN 12-30 | 130 | 160 | 180 | 228 | 240/270       | 138 | 460 | 156 | 136 | 108 | 118 | 9 | 100      | 520 x 240 x 300 | 25     |
| HF, HX, HN 12-40 | 130 | 160 | 180 | 228 | 240/270       | 138 | 490 | 186 | 168 | 108 | 118 | 9 | 100      | 600 x 240 x 300 | 29     |
| HF, HX, HN 12-50 | 130 | 160 | 195 | 240 | 270/–         | 138 | 555 | 216 | 198 | 108 | 126 | 9 | –        | 650 x 240 x 300 | 34     |

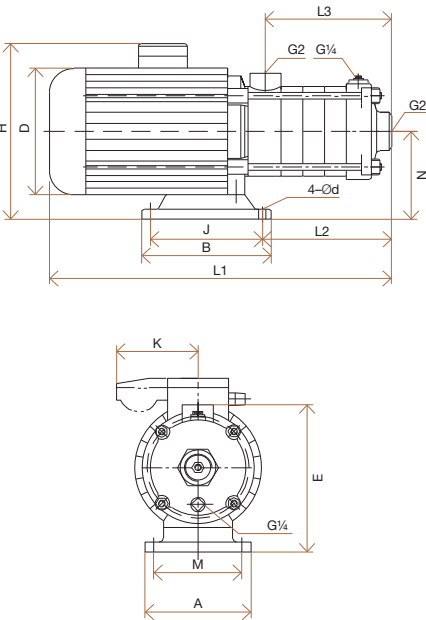
## Installation sketch



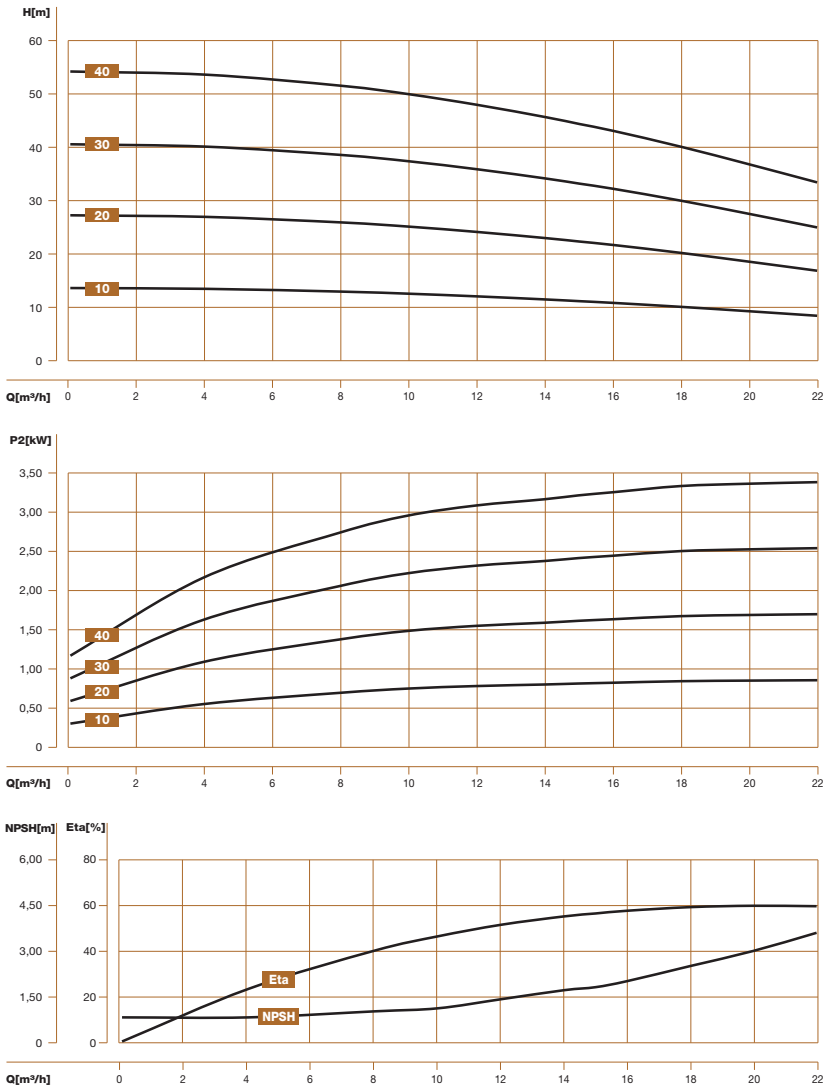


# HF, HX, HN 15

## Installation sketch



## Performance curve ISO9906:2012 Grade 3B



## Performance table

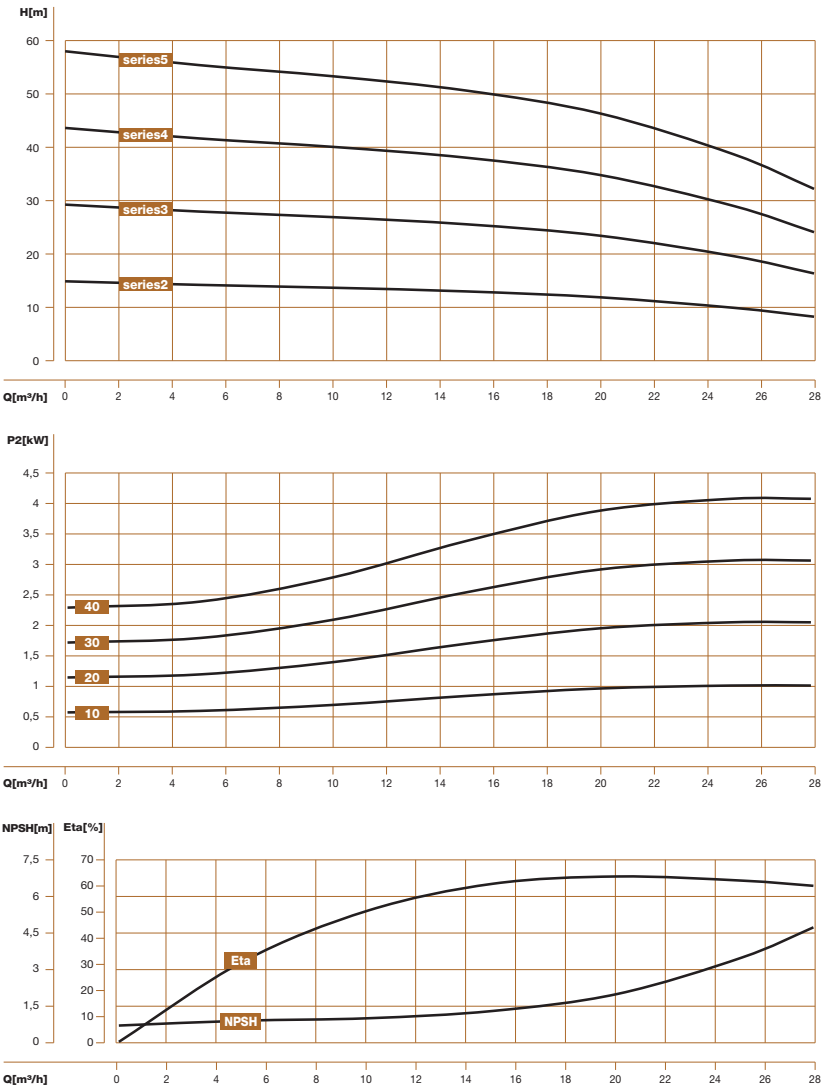
| Model            | I (A)  |        | P2  |     | Q<br>m³/h | 8  | 12 | 14 | 16 | 18 | 20 | 22 |
|------------------|--------|--------|-----|-----|-----------|----|----|----|----|----|----|----|
|                  | 1~220V | 3~380V | kW  | HP  |           |    |    |    |    |    |    |    |
| HF, HX, HN 15-10 | 4,3    | 2,4    | 1,1 | 1,5 | mca       | 12 | 10 | 9  | 9  | 8  | 7  | 6  |
| HF, HX, HN 15-20 | 7,9    | 4,6    | 2,2 | 3   |           | 25 | 23 | 22 | 21 | 19 | 18 | 16 |
| HF, HX, HN 15-30 | –      | 6      | 3   | 4   |           | 38 | 36 | 34 | 32 | 30 | 28 | 25 |
| HF, HX, HN 15-40 | –      | 8,1    | 4   | 5,5 |           | 52 | 48 | 46 | 43 | 40 | 37 | 33 |

## Size and weight

| Model            | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d  | k (1 ph) | Packaging       | Weight |
|------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|----|----------|-----------------|--------|
|                  | mm  |     |     |     |               |     |     |     |     |     |     |    |          |                 | kg     |
| HF, HX, HN 15-10 | 130 | 160 | 151 | 227 | 230/265       | 138 | 400 | 150 | 126 | 108 | 117 | 9  | 100      | 520 x 240 x 300 | 17,5   |
| HF, HX, HN 15-20 | 130 | 160 | 171 | 228 | 240/270       | 138 | 440 | 150 | 126 | 108 | 118 | 9  | 100      | 520 x 240 x 300 | 27     |
| HF, HX, HN 15-30 | 130 | 160 | 197 | 238 | 259/–         | 138 | 544 | 195 | 171 | 108 | 128 | 9  | –        | 650 x 240 x 300 | 33     |
| HF, HX, HN 15-40 | 221 | 170 | 213 | 230 | 270/–         | 140 | 595 | 336 | 216 | 190 | 120 | 12 | –        | 770 x 400 x 470 | 41     |

# HF, HX, HN 20

## Performance curve ISO9906:2012 Grade 3B



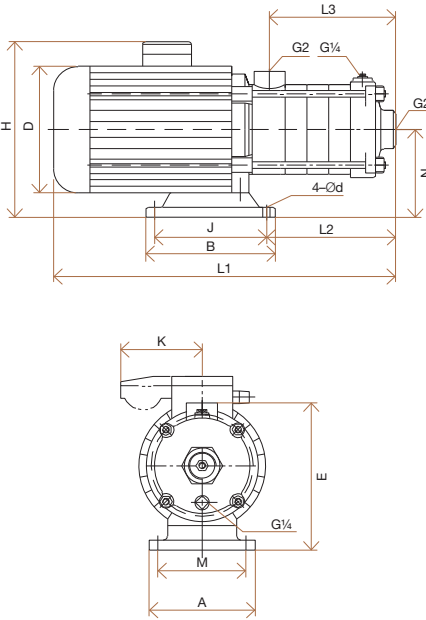
## Performance table

| Model            | I (A)  |        | P2  |     | Q<br>m³/h | 10 | 14 | 18 | 22 | 24 | 26 | 28 |
|------------------|--------|--------|-----|-----|-----------|----|----|----|----|----|----|----|
|                  | 1~220V | 3~380V | kW  | HP  |           |    |    |    |    |    |    |    |
| HF, HX, HN 20-10 | 4,3    | 2,4    | 1,1 | 1,5 | mca       | 14 | 13 | 11 | 9  | 8  | 7  | 6  |
| HF, HX, HN 20-20 | 7,9    | 4,6    | 2,2 | 3   |           | 27 | 26 | 24 | 21 | 19 | 17 | 15 |
| HF, HX, HN 20-30 | –      | 8,1    | 4   | 5,5 |           | 40 | 38 | 36 | 32 | 29 | 26 | 23 |
| HF, HX, HN 20-40 | –      | 9      | 4,4 | 6   |           | 53 | 51 | 49 | 43 | 40 | 36 | 33 |

## Size and weight

| Model            | A   | B   | D   | E   | H (3 ph/1 ph) | J   | L1  | L2  | L3  | M   | N   | d  | k (1 ph) | Packaging       | Weight |
|------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|----|----------|-----------------|--------|
|                  | mm  |     |     |     |               |     |     |     |     |     |     |    |          |                 | kg     |
| HF, HX, HN 20-10 | 130 | 160 | 170 | 228 | 230/265       | 138 | 423 | 151 | 126 | 108 | 118 | 9  | 100      | 520 x 240 x 300 | 17,5   |
| HF, HX, HN 20-20 | 130 | 160 | 180 | 228 | 240/270       | 138 | 455 | 151 | 126 | 108 | 118 | 9  | 100      | 520 x 240 x 300 | 27     |
| HF, HX, HN 20-30 | 230 | 170 | 220 | 230 | 270/–         | 140 | 576 | 294 | 171 | 108 | 120 | 12 | –        | 770 x 400 x 470 | 41     |
| HF, HX, HN 20-40 | 230 | 170 | 220 | 230 | 270/–         | 140 | 621 | 340 | 216 | 108 | 120 | 12 | –        | 760 x 400 x 530 | 44     |

## Installation sketch

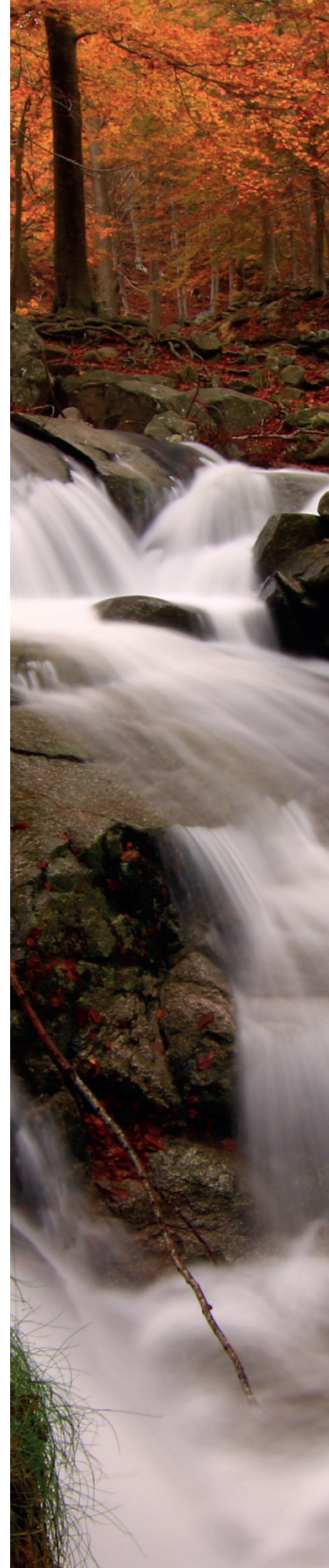




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