

Reversible heat-pumps **HFT series**, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available condensers:

B-ES = stainless steel brazed plate condenser

 **HEATING**

**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 016      | 018      | 022      | 025      | 030      | 038      | 045      | 055      |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| NOMINAL HEATING CAPACITY                                     | W 40°C/45°C<br>@ 7°C (1) | kW                | 16,4     | 18,5     | 25,3     | 28,2     | 31,9     | 40,7     | 48,0     | 59,6     |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 4,9      | 5,5      | 7,2      | 8,0      | 9,6      | 11,6     | 13,4     | 16,7     |
| COP  |                          | kW/kW             | 3,33     | 3,38     | 3,51     | 3,50     | 3,34     | 3,50     | 3,58     | 3,57     |
| SCOP (3)   |                          | -                 | 2,77     | 2,80     | 2,92     | 2,90     | 3,05     | 3,26     | 3,62     | 3,61     |
| NOMINAL WATER FLOW   |                          | m <sup>3</sup> /h | 2,8      | 3,2      | 4,4      | 4,8      | 5,5      | 7,0      | 8,2      | 10,2     |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 73       | 50       | 48       | 59       | 75       | 54       | 46       | 59       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        | nr.                      | 1/1/1             | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 1.8÷4.2  | 2.5÷5    | 3÷6      | 3÷6      | 3.5÷6    | 6÷12     | 6÷12     | 6÷12     |
| MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)                | P3 (2)                   | kW                | 0,98     | 0,98     | 1,28     | 1,28     | 1,28     | 2,20     | 2,20     | 2,20     |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)              |                          | A                 | 1,78     | 1,78     | 2,37     | 2,37     | 2,37     | 4,24     | 4,24     | 4,24     |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 1,47     | 1,47     | 1,47     | 1,47     | 1,47     | 2,94     | 2,94     | 2,94     |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 2,86     | 2,86     | 2,86     | 2,86     | 2,32     | 5,83     | 5,83     | 5,83     |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | 1"       | 1"       | 1"       | 1"       | 1 1/2"   | 1 1/2"   | 1 1/2"   | 1 1/2"   |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 110      | 110      | 200      | 200      | 200      | 200      | 200      | 200      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 8        | 8        | 12       | 12       | 12       | 12       | 12       | 12       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| FANS   |                          | nr.               | 1        | 1        | 2        | 2        | 2        | 2        | 2        | 2        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 0,68     | 0,68     | 1,44     | 1,44     | 1,44     | 1,62     | 1,44     | 1,62     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 3,00     | 3,00     | 2,82     | 2,82     | 2,82     | 3,08     | 2,82     | 3,08     |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 7298     | 6579     | 15298    | 15298    | 15298    | 16200    | 14267    | 15000    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 13,1     | 15,1     | 17,2     | 19,4     | 22,0     | 27,6     | 32,8     | 41,3     |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 67,0     | 78,0     | 97,8     | 113,8    | 120,8    | 143,1    | 176,8    | 243,9    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | NA       | NA       | NA       | NA       | NA       | NA       | NA       | NA       |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 49,4     | 49,2     | 52,8     | 53,1     | 53,1     | 52,8     | 54,0     | 56,5     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | NA       | NA       | NA       | NA       | 52,5     | 51,6     | 52,9     | 53,5     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |          |          |          |          |
| LENGTH   |                          | mm                | 1005     | 1005     | 1610     | 1610     | 1610     | 1610     | 1610     | 1610     |
| WIDTH  |                          | mm                | 855      | 855      | 860      | 860      | 860      | 860      | 860      | 860      |
| HEIGHT   |                          | mm                | 1540     | 1540     | 1550     | 1550     | 1550     | 1550     | 1550     | 1550     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 165      | 190      | 235      | 260      | 305      | 315      | 330      | 405      |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 185      | 210      | 255      | 280      | 325      | 335      | 350      | 425      |

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020  
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

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Type of available condensers:

B-ES = stainless steel brazed plate condenser

 **HEATING**

**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 061      | 070      | 075      | 090      | 100      | 130      | 160      | 185      |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| NOMINAL HEATING CAPACITY                                     | W 40°C/45°C<br>@ 7°C (1) | kW                | 63,7     | 73,4     | 81,4     | 96,0     | 106,2    | 127,5    | 162,8    | 191,9    |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 18,6     | 22,0     | 24,0     | 27,6     | 30,8     | 36,3     | 46,3     | 53,4     |
| COP  |                          | kW/kW             | 3,42     | 3,34     | 3,39     | 3,48     | 3,45     | 3,51     | 3,52     | 3,59     |
| SCOP (3)   |                          | -                 | 3,64     | 3,54     | 3,42     | 3,49     | 3,66     | 3,73     | 3,54     | 3,61     |
| NOMINAL WATER FLOW   |                          | m <sup>3</sup> /h | 10,9     | 12,6     | 14,0     | 16,5     | 18,2     | 21,9     | 28,0     | 33,0     |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 67       | 49       | 62       | 55       | 57       | 67       | 62       | 55       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        |                          | nr.               | 2/1/2    | 2/1/2    | 2/1/2    | 2/1/2    | 2/1/2    | 4/2/4    | 4/2/4    | 4/2/4    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 8÷17     | 8÷17     | 8÷17     | 8÷17     | 8÷21     | 14÷34    | 14÷34    | 14÷34    |
| MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)                | P3 (2)                   | kW                | 2,53     | 2,53     | 2,53     | 2,53     | 2,53     | 4,56     | 4,56     | 4,56     |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)              |                          | A                 | 4,56     | 4,56     | 4,56     | 4,56     | 4,56     | 7,75     | 7,75     | 7,75     |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 6,12     | 6,12     | 6,12     | 6,12     | 6,12     | 10,20    | 10,20    | 10,20    |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 10,40    | 10,40    | 10,40    | 10,40    | 10,40    | 17,40    | 17,40    | 17,40    |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | 2"       | 2"       | 2"       | 2"       | 2"       | DN65     | DN65     | DN65     |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 390      | 390      | 390      | 390      | 390      | 390      | 390      | 390      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 19       | 19       | 19       | 19       | 19       | 19       | 19       | 19       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| FANS   |                          | nr.               | 2        | 2        | 2        | 2        | 2        | 2        | 3        | 3        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 2,50     | 3,88     | 3,88     | 3,88     | 3,88     | 3,88     | 5,82     | 5,82     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 4,96     | 7,80     | 7,80     | 7,80     | 7,80     | 7,80     | 11,70    | 11,70    |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 24541    | 35317    | 36858    | 34534    | 32211    | 39956    | 56835    | 53738    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 43,4     | 51,5     | 56,8     | 67,8     | 76,0     | 84,7     | 109,7    | 131,7    |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 142,2    | 167,0    | 172,3    | 211,8    | 278,6    | 183,5    | 225,2    | 275,7    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | 118,6    | 139,0    | 144,3    | 177,0    | 230,4    | 159,9    | 197,2    | 240,9    |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 56,8     | 55,0     | 55,3     | 56,2     | 58,2     | 56,2     | 58,1     | 58,5     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | 56,3     | 53,9     | 54,1     | 54,9     | 55,8     | 54,9     | 56,7     | 56,9     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |          |          |          |          |
| LENGTH   |                          | mm                | 2210     | 2210     | 2210     | 2210     | 2210     | 3355     | 3355     | 3355     |
| WIDTH  |                          | mm                | 1100     | 1100     | 1100     | 1100     | 1100     | 1105*    | 1105*    | 1105*    |
| HEIGHT   |                          | mm                | 2120     | 2120     | 2120     | 2120     | 2120     | 2205     | 2205     | 2205     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 560      | 590      | 595      | 620      | 700      | 1060     | 1110     | 1160     |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 580      | 610      | 615      | 640      | 720      | 1100     | 1130     | 1180     |

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Data referred to:

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- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

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\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

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Type of available condensers:

B-ES = stainless steel brazed plate condenser

 **HEATING**

**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 200      | 230      | 280      | 340      |
|--|--------------------------|-------------------|----------|----------|----------|----------|
| NOMINAL HEATING CAPACITY                                     | W 40°C/45°C<br>@ 7°C (1) | kW                | 218,7    | 245,5    | 301,6    | 345,4    |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 61,5     | 69,3     | 86,0     | 98,6     |
| COP  |                          | kW/kW             | 3,55     | 3,54     | 3,51     | 3,50     |
| SCOP (3)   |                          | -                 | 3,77     | 3,77     | 3,73     | 3,52     |
| NOMINAL WATER FLOW   |                          | m <sup>3</sup> /h | 37,6     | 42,2     | 51,8     | 59,3     |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 60       | 53       | 54       | 56       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        |                          | nr.               | 4/2/4    | 4/2/4    | 4/2/4    | 4/2/4    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 22÷47    | 22÷47    | 25÷60    | 30÷70    |
| MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)                | P3 (2)                   | kW                | 8,30     | 8,30     | 8,30     | 8,30     |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)              |                          | A                 | 14,10    | 14,10    | 14,10    | 14,10    |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 16,22    | 16,22    | 16,22    | 16,22    |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 26,60    | 26,60    | 26,60    | 26,60    |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | DN80     | DN80     | DN100    | DN100    |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 390      | 500      | 500      | 500      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 19       | 19       | 19       | 19       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |
| FANS   |                          | nr.               | 4        | 5        | 5        | 5        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 7,76     | 9,70     | 9,70     | 9,70     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 15,60    | 19,50    | 19,50    | 19,50    |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 67520    | 90854    | 89564    | 85045    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 152,0    | 172,3    | 195,0    | 227,3    |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 354,6    | 374,9    | 438,6    | 478,0    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | 306,4    | 326,7    | 381,1    | 416,0    |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 61,2     | 62,8     | 62,8     | 64,2     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | 58,8     | 60,2     | 60,2     | 61,1     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |
| LENGTH   |                          | mm                | 4355     | 5350     | 5350     | 5350     |
| WIDTH  |                          | mm                | 1105**   | 1105     | 1105     | 1105     |
| HEIGHT   |                          | mm                | 2205     | 2205     | 2205     | 2205     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 1750     | 1975     | 2130     | 2210     |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 1770     | 1995     | 2150     | 2230     |

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Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 016      | 018      | 022      | 025      | 030      | 038      | 045      | 055      |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| NOMINAL COOLING CAPACITY                                     | W 12°C/7°C<br>@ 35°C (1) | kW                | 15,3     | 17,8     | 23,7     | 26,4     | 29,2     | 37,8     | 44,5     | 55,0     |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 4,8      | 5,7      | 7,2      | 8,2      | 9,7      | 11,7     | 13,5     | 17,8     |
| EER  |                          | kW/kW             | 3,20     | 3,10     | 3,29     | 3,23     | 3,02     | 3,22     | 3,30     | 3,10     |
| SEPR (HT) (3)  |                          | -                 | 5,84     | 5,51     | 5,80     | 5,74     | 5,69     | 5,70     | 5,90     | 5,72     |
| NOMINAL WATER FLOW (5)                                       |                          | m <sup>3</sup> /h | 2,6      | 3,1      | 4,1      | 4,5      | 5,0      | 6,5      | 7,6      | 9,4      |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 71       | 48       | 46       | 56       | 68       | 54       | 46       | 56       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        |                          | nr.               | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    | 1/1/1    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 1.8÷4.2  | 2.5÷5    | 3÷6      | 3÷6      | 3.5÷6    | 6÷12     | 6÷12     | 6÷12     |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)                | P3 (2)                   | kW                | 0,98     | 0,98     | 1,28     | 1,28     | 1,28     | 2,20     | 2,20     | 2,20     |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)              |                          | A                 | 1,78     | 1,78     | 2,37     | 2,37     | 2,37     | 4,24     | 4,24     | 4,24     |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 1,47     | 1,47     | 1,47     | 1,47     | 1,47     | 2,94     | 2,94     | 2,94     |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 2,86     | 2,86     | 2,86     | 2,86     | 2,32     | 5,83     | 5,83     | 5,83     |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | 1"       | 1"       | 1"       | 1"       | 1 1/2"   | 1 1/2"   | 1 1/2"   | 1 1/2"   |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 110      | 110      | 200      | 200      | 200      | 200      | 200      | 200      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 8        | 8        | 12       | 12       | 12       | 12       | 12       | 12       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| FANS   |                          | nr.               | 1        | 1        | 2        | 2        | 2        | 2        | 2        | 2        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 0,68     | 0,68     | 1,44     | 1,44     | 1,44     | 1,62     | 1,44     | 1,62     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 3,00     | 3,00     | 2,82     | 2,82     | 2,82     | 3,08     | 2,82     | 3,08     |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 7298     | 6579     | 15298    | 15298    | 15298    | 16200    | 14267    | 15000    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 13,1     | 15,1     | 17,2     | 19,4     | 22,0     | 27,6     | 32,8     | 41,3     |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 67,0     | 78,0     | 97,8     | 113,8    | 120,8    | 143,1    | 176,8    | 243,9    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | NA       | NA       | NA       | NA       | NA       | NA       | NA       | NA       |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 49,4     | 49,2     | 52,8     | 53,1     | 53,1     | 52,8     | 54,0     | 56,5     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | NA       | NA       | NA       | NA       | 52,5     | 51,6     | 52,9     | 53,5     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |          |          |          |          |
| LENGTH   |                          | mm                | 1005     | 1005     | 1610     | 1610     | 1610     | 1610     | 1610     | 1610     |
| WIDTH  |                          | mm                | 855      | 855      | 860      | 860      | 860      | 860      | 860      | 860      |
| HEIGHT   |                          | mm                | 1540     | 1540     | 1550     | 1550     | 1550     | 1550     | 1550     | 1550     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 165      | 190      | 235      | 260      | 305      | 315      | 330      | 405      |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 185      | 210      | 255      | 280      | 325      | 335      | 350      | 425      |

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Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps **HFT series**, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 061      | 070      | 075      | 090      | 100      | 130      | 160      | 185      |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| NOMINAL COOLING CAPACITY                                     | W 12°C/7°C<br>@ 35°C (1) | kW                | 59,1     | 68,8     | 75,7     | 89,0     | 100,6    | 116,8    | 151,3    | 178,0    |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 18,5     | 21,3     | 24,2     | 27,8     | 31,5     | 36,0     | 46,7     | 53,8     |
| EER  |                          | kW/kW             | 3,20     | 3,23     | 3,13     | 3,20     | 3,19     | 3,24     | 3,24     | 3,31     |
| SEPR (HT) (3)  |                          | -                 | 5,73     | 5,77     | 5,71     | 5,69     | 5,97     | 6,16     | 5,89     | 6,07     |
| NOMINAL WATER FLOW (5)                                       |                          | m <sup>3</sup> /h | 10,2     | 11,8     | 13,0     | 15,3     | 17,3     | 20,1     | 26,0     | 30,6     |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 65       | 60       | 60       | 53       | 52       | 63       | 60       | 53       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        |                          | nr.               | 2/1/2    | 2/1/2    | 2/1/2    | 2/1/2    | 2/1/2    | 4/2/4    | 4/2/4    | 4/2/4    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 8÷17     | 8÷17     | 8÷17     | 8÷17     | 8÷21     | 14÷34    | 14÷34    | 14÷34    |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)                | P3 (2)                   | kW                | 2,53     | 2,53     | 2,53     | 2,53     | 2,53     | 4,56     | 4,56     | 4,56     |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)              |                          | A                 | 4,56     | 4,56     | 4,56     | 4,56     | 4,56     | 7,75     | 7,75     | 7,75     |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 6,12     | 6,12     | 6,12     | 6,12     | 6,12     | 10,20    | 10,20    | 10,20    |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 10,40    | 10,40    | 10,40    | 10,40    | 10,40    | 17,40    | 17,40    | 17,40    |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | 2"       | 2"       | 2"       | 2"       | 2"       | DN65     | DN65     | DN65     |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 390      | 390      | 390      | 390      | 390      | 390      | 390      | 390      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 19       | 19       | 19       | 19       | 19       | 19       | 19       | 19       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| FANS   |                          | nr.               | 2        | 2        | 2        | 2        | 2        | 2        | 3        | 3        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 2,50     | 3,88     | 3,88     | 3,88     | 3,88     | 3,88     | 5,82     | 5,82     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 4,96     | 7,80     | 7,80     | 7,80     | 7,80     | 7,80     | 11,70    | 11,70    |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 24541    | 35317    | 36858    | 34534    | 32211    | 39956    | 56835    | 53738    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 43,4     | 51,5     | 56,8     | 67,8     | 76,0     | 84,7     | 109,7    | 131,7    |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 142,2    | 167,0    | 172,3    | 211,8    | 278,6    | 183,5    | 225,2    | 275,7    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | 118,6    | 139,0    | 144,3    | 177,0    | 230,4    | 159,9    | 197,2    | 240,9    |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 56,8     | 55,0     | 55,3     | 56,2     | 58,2     | 56,2     | 58,1     | 58,5     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | 56,3     | 53,9     | 54,1     | 54,9     | 55,8     | 54,9     | 56,7     | 56,9     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |          |          |          |          |
| LENGTH   |                          | mm                | 2210     | 2210     | 2210     | 2210     | 2210     | 3355     | 3355     | 3355     |
| WIDTH  |                          | mm                | 1100     | 1100     | 1100     | 1100     | 1100     | 1105*    | 1105*    | 1105*    |
| HEIGHT   |                          | mm                | 2120     | 2120     | 2120     | 2120     | 2120     | 2205     | 2205     | 2205     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 560      | 590      | 595      | 620      | 700      | 1060     | 1110     | 1160     |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 580      | 610      | 615      | 640      | 720      | 1100     | 1130     | 1180     |

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- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

\* For the configuration DPH (double pump P5) the chiller width will be 1305mm

\*\* For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps **HFT series**, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

 **COOLING**

**TECHNICAL DATA**

| <b>PERFORMANCES</b>  |                          | Model             | 200      | 230      | 280      | 340      |
|--|--------------------------|-------------------|----------|----------|----------|----------|
| NOMINAL COOLING CAPACITY                                     | W 12 C/7°C<br>@ 35°C (1) | kW                | 207,5    | 242,4    | 289,3    | 326,8    |
| TOTAL NOMINAL ABSORBED POWER                                 |                          | kW                | 60,5     | 67,9     | 85,8     | 101,3    |
| EER  |                          | kW/kW             | 3,43     | 3,57     | 3,37     | 3,23     |
| SEPR (HT) (3)  |                          | -                 | 6,21     | 6,47     | 6,17     | 5,90     |
| NOMINAL WATER FLOW (5)                                       |                          | m <sup>3</sup> /h | 35,6     | 41,6     | 49,7     | 56,1     |
| MECHANICAL MODE PRESSURE DROPS (4)                           |                          | kPa               | 55       | 52       | 56       | 57       |
| <b>FRIGORIFIC SECTION</b>                                    |                          |                   |          |          |          |          |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP        |                          | nr.               | 4/2/4    | 4/2/4    | 4/2/4    | 4/2/4    |
| <b>HYDRAULIC SECTION</b>                                     |                          |                   |          |          |          |          |
| WATER FLOW RANGE (6)   |                          | m <sup>3</sup> /h | 22÷47    | 22÷47    | 25÷60    | 30÷70    |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)                | P3 (2)                   | kW                | 8,30     | 8,30     | 8,30     | 8,30     |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)              |                          | A                 | 14,10    | 14,10    | 14,10    | 14,10    |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)               | P5 (2)                   | kW                | 16,22    | 16,22    | 16,22    | 16,22    |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)             |                          | A                 | 26,60    | 26,60    | 26,60    | 26,60    |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED)                   |                          | BSP / DN          | DN80     | DN80     | DN100    | DN100    |
| TANK VOLUME  |                          | dm <sup>3</sup>   | 390      | 500      | 500      | 500      |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)                 |                          | liters            | 19       | 19       | 19       | 19       |
| <b>FAN SECTION (AXIAL)</b>                                   |                          |                   |          |          |          |          |
| FANS   |                          | nr.               | 4        | 5        | 5        | 5        |
| MAXIMUM FANS ABSORBED POWER                                  | AC                       | kW                | 7,76     | 9,70     | 9,70     | 9,70     |
| MAXIMUM FANS ABSORBED CURRENT                                |                          | A                 | 15,60    | 19,50    | 19,50    | 19,50    |
| TOTAL AIR FLOW   |                          | m <sup>3</sup> /h | 67520    | 90854    | 89564    | 85045    |
| <b>TOTAL ELECTRIC DATA</b>                                   |                          |                   |          |          |          |          |
| ELECTRICAL FEED  |                          | V/ph/Hz           | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6)                         |                          | A                 | 152,0    | 172,3    | 195,0    | 227,3    |
| MAXIMUM PEAK CURRENT (L.R.A) (6)                             |                          | A                 | 354,6    | 374,9    | 438,6    | 478,0    |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) |                          | A                 | 306,4    | 326,7    | 381,1    | 416,0    |
| <b>NOISE DATA</b>  |                          |                   |          |          |          |          |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)            |                          | dB(A)             | 61,2     | 62,8     | 62,8     | 64,2     |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)            |                          | dB(A)             | 58,8     | 60,2     | 60,2     | 61,1     |
| <b>DIMENSIONS AND WEIGHT</b>                                 |                          |                   |          |          |          |          |
| LENGTH   |                          | mm                | 4355     | 5350     | 5350     | 5350     |
| WIDTH  |                          | mm                | 1105**   | 1105     | 1105     | 1105     |
| HEIGHT   |                          | mm                | 2205     | 2205     | 2205     | 2205     |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)                  |                          | kg                | 1750     | 1975     | 2130     | 2210     |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)              |                          | kg                | 1770     | 1995     | 2150     | 2230     |

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