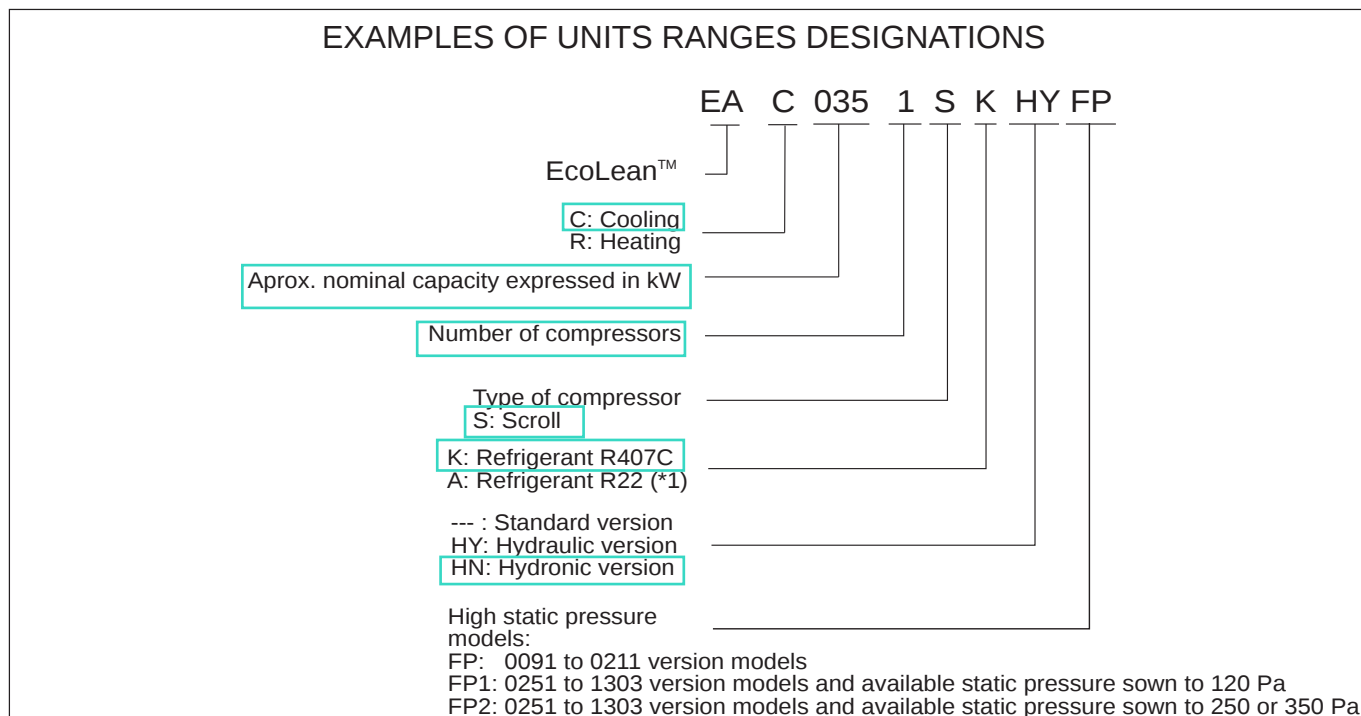


In order to ensure conformity of finished product with the customers' order and the perfect refrigeration and electrical operation of the unit, the EcoLean™ chillers are systematically tested in the test station before shipping.

With low dimensions and quiet operation, the EcoLean™ chillers make use of the finest in technology to satisfy the strictest reliability and safety requirements.

**EcoLean™ units are equipped with hermetic scroll type compressors .**



(\*1) R22 is only for units used outside the EEC.

## STANDARD ACCESSORIES FITTED SUPPLIED ON THE VARIOUS VERSIONS

### - STANDARD VERSION UNIT

- Piping and inlet/outlet connections.

### - HYDRAULIC VERSION UNIT

- Piping and inlet/outlet connections.
- Water pump.
- Expansion vessel.
- Collapsible water filter.
- Safety valve.
- Manometer.
- Flow switch.

### - HYDRONIC VERSION UNIT

- Piping and inlet/outlet connections.
- Water pump.
- Expansion vessel.
- Collapsible water filter.
- Safety valve.
- Manometer.
- Flow switch.
- Water tank.

## FAN STATIC PRESSURES

### - STANDARD VERSION UNIT (all models)

- Available static pressure sown to 50 Pa.

### - FP VERSION UNIT (0091 to 0211 models)

- Available static pressure sown to 200 Pa.

### - FP1 VERSION UNIT (0251 to 1303 models)

- Available static pressure sown to 120 Pa.

### - FP2 VERSION UNIT (0251 to 1303 models)

- Available static pressure sown to 250 or 350 Pa.

## AXIAL FAN UNITS

## COOLING MODE

| MODELS               | °C<br>Water outlet<br>temperature | Air inlet temperature |       |                |       |                |       |                |       |                |       |                |       |
|----------------------|-----------------------------------|-----------------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
|                      |                                   | 28°C                  |       | 30°C           |       | 32°C           |       | 35°C           |       | 40°C           |       | 45 °C          |       |
|                      |                                   | Q <sub>o</sub>        | P     | Q <sub>o</sub> | P     | Q <sub>o</sub> | P     | Q <sub>o</sub> | P     | Q <sub>o</sub> | P     | Q <sub>o</sub> | P     |
| EAC 0472<br>EAR 0472 | 6                                 | 44,58                 | 16,12 | 45,31          | 16,27 | 44,03          | 16,59 | 42,67          | 16,91 | 39,47          | 18,65 | 37,03          | 20,38 |
|                      | 7                                 | 45,54                 | 16,31 | 46,57          | 16,40 | 45,29          | 16,68 | 44,00          | 17,00 | 40,68          | 18,74 | 38,05          | 20,60 |
|                      | 9                                 | 49,16                 | 16,76 | 49,79          | 16,92 | 48,45          | 17,23 | 47,11          | 17,54 | 43,95          | 19,38 | 41,59          | 21,28 |
|                      | 11                                | 52,78                 | 17,19 | 53,02          | 17,43 | 51,62          | 17,76 | 50,22          | 18,09 | 47,23          | 19,99 | 45,13          | 21,91 |
| EAC 0552<br>EAR 0552 | 6                                 | 52,08                 | 18,68 | 52,94          | 18,85 | 51,43          | 19,22 | 49,85          | 19,59 | 46,11          | 21,61 | 43,26          | 23,62 |
|                      | 7                                 | 53,20                 | 18,90 | 54,40          | 19,00 | 52,90          | 19,33 | 51,40          | 19,70 | 47,52          | 21,72 | 44,45          | 23,87 |
|                      | 9                                 | 57,43                 | 19,42 | 58,17          | 19,61 | 56,60          | 19,97 | 55,03          | 20,33 | 51,35          | 22,46 | 48,58          | 24,66 |
|                      | 11                                | 61,66                 | 19,92 | 61,94          | 20,20 | 60,30          | 20,58 | 58,66          | 20,97 | 55,17          | 23,16 | 52,72          | 25,39 |
| EAC 0672<br>EAR 0672 | 6                                 | 63,33                 | 22,82 | 64,37          | 23,02 | 62,53          | 23,48 | 60,61          | 23,93 | 56,06          | 26,39 | 52,60          | 28,85 |
|                      | 7                                 | 64,69                 | 23,09 | 66,15          | 23,21 | 64,32          | 23,61 | 62,50          | 24,06 | 57,78          | 26,52 | 54,04          | 29,16 |
|                      | 9                                 | 69,83                 | 23,72 | 70,73          | 23,95 | 68,82          | 24,39 | 66,91          | 24,83 | 62,43          | 27,43 | 59,07          | 30,12 |
|                      | 11                                | 74,97                 | 24,33 | 75,31          | 24,67 | 73,32          | 25,14 | 71,33          | 25,61 | 67,08          | 28,29 | 64,10          | 31,01 |
| EAC 0812<br>EAR 0812 | 6                                 | 76,50                 | 28,35 | 77,76          | 28,61 | 75,54          | 29,18 | 73,22          | 29,74 | 67,72          | 32,79 | 63,54          | 35,85 |
|                      | 7                                 | 78,15                 | 28,69 | 79,91          | 28,84 | 77,71          | 29,34 | 75,50          | 29,90 | 69,80          | 32,96 | 65,29          | 36,24 |
|                      | 9                                 | 84,36                 | 29,48 | 85,44          | 29,77 | 83,14          | 30,31 | 80,84          | 30,86 | 75,42          | 34,09 | 71,36          | 37,43 |
|                      | 11                                | 90,57                 | 30,23 | 90,98          | 30,65 | 88,57          | 31,24 | 86,17          | 31,83 | 81,04          | 35,16 | 77,44          | 38,54 |
| EAC 1003<br>EAR 1003 | 6                                 | 89,37                 | 33,36 | 90,84          | 33,66 | 88,25          | 34,33 | 87,29          | 34,30 | 80,73          | 37,83 | 75,74          | 41,36 |
|                      | 7                                 | 91,29                 | 33,76 | 93,35          | 33,93 | 90,78          | 34,52 | 90,00          | 34,49 | 83,21          | 38,02 | 77,83          | 41,80 |
|                      | 9                                 | 98,55                 | 34,69 | 99,82          | 35,02 | 97,12          | 35,67 | 96,36          | 35,60 | 89,90          | 39,33 | 85,07          | 43,17 |
|                      | 11                                | 105,80                | 35,57 | 106,28         | 36,07 | 103,47         | 36,76 | 102,72         | 36,71 | 96,60          | 40,56 | 92,31          | 44,45 |
| EAC 1103<br>EAR 1103 | 6                                 | 102,34                | 36,87 | 104,02         | 37,21 | 101,06         | 37,94 | 97,95          | 38,29 | 90,60          | 42,23 | 85,00          | 46,17 |
|                      | 7                                 | 104,54                | 37,31 | 106,90         | 37,50 | 103,95         | 38,16 | 101,00         | 38,50 | 93,37          | 42,44 | 87,34          | 46,66 |
|                      | 9                                 | 112,85                | 38,34 | 114,30         | 38,71 | 111,22         | 39,42 | 108,14         | 39,73 | 100,89         | 43,90 | 95,47          | 48,19 |
|                      | 11                                | 121,15                | 39,32 | 121,70         | 39,86 | 118,49         | 40,63 | 115,28         | 40,98 | 108,41         | 45,27 | 103,60         | 49,62 |
| EAC 1203<br>EAR 1203 | 6                                 | 114,86                | 42,36 | 116,74         | 42,74 | 113,42         | 43,58 | 111,05         | 43,55 | 102,71         | 48,03 | 96,36          | 52,51 |
|                      | 7                                 | 117,33                | 42,86 | 119,98         | 43,08 | 116,67         | 43,83 | 114,50         | 43,79 | 105,86         | 48,28 | 99,01          | 53,07 |
|                      | 9                                 | 126,65                | 44,04 | 128,28         | 44,47 | 124,82         | 45,28 | 122,59         | 45,19 | 114,38         | 49,93 | 108,23         | 54,82 |
|                      | 11                                | 135,97                | 45,16 | 136,59         | 45,79 | 132,98         | 46,67 | 130,68         | 46,61 | 122,90         | 51,49 | 117,44         | 56,44 |
| EAC 1303<br>EAR 1303 | 6                                 | 126,11                | 46,89 | 128,18         | 47,32 | 124,53         | 48,25 | 123,17         | 48,22 | 113,92         | 53,17 | 106,88         | 58,13 |
|                      | 7                                 | 128,82                | 47,45 | 131,73         | 47,69 | 128,10         | 48,52 | 127,00         | 48,48 | 117,41         | 53,45 | 109,82         | 58,75 |
|                      | 9                                 | 139,06                | 48,76 | 140,85         | 49,23 | 137,05         | 50,13 | 135,97         | 50,03 | 126,86         | 55,28 | 120,04         | 60,69 |
|                      | 11                                | 149,29                | 50,00 | 149,97         | 50,70 | 146,01         | 51,66 | 144,95         | 51,60 | 136,32         | 57,01 | 130,27         | 62,49 |

**Q<sub>o</sub>** : Net cooling capacity in kW

**P** : Total power input in kW (compressor and fan motor)

Fouling factor : 0,44 m<sup>2</sup>C/kW

Water ΔT = 5 °C

Nominal conditions

Units are tested and rated in accordance with Eurovent standards

## STANDARD AXIAL FAN UNITS

| MODELS                          | 0091S                                   | 0111S | 0151S | 0191S | 0211S | 0251S | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S |
|---------------------------------|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fan type                        | Axial - Direct coupling 900 rpm 1N~230V |       |       |       |       |       |       |       |       |       |       |       |       |
| Fan number                      | 1                                       | 2     |       |       |       | 1     |       |       |       | 2     |       |       |       |
| Air flow rate m <sup>3</sup> /h | 3500                                    | 6500  | 6700  | 6500  | 6300  | 9500  | 11500 | 11000 | 10500 | 19000 | 23000 | 22000 | 21000 |
| Power Input kW                  | 0,15                                    | 0,30  | 0,32  | 0,30  | 0,28  | 0,75  | 0,90  | 0,85  | 0,83  | 1,50  | 1,80  | 1,70  | 1,66  |

| MODELS                          | 1003S                          | 1103S                      | 1203S                   | 1303S                   |
|---------------------------------|--------------------------------|----------------------------|-------------------------|-------------------------|
| Fan type                        | Axial - Direct coupling 3~400V |                            |                         |                         |
| Fan number                      | 1+1                            |                            |                         |                         |
| Air flow rate m <sup>3</sup> /h | High<br>Low                    | 32250<br>27250             | 36250<br>29250          | 36000<br>29000          |
| Power Input kW                  | High<br>Low                    | 1,05 + 1,05<br>0,77 + 0,77 | 2 + 1,05<br>1,25 + 0,77 | 2 + 1,05<br>1,25 + 0,77 |
| Fan speed rpm                   | High<br>Low                    | 700 + 700<br>550 + 550     | 900 + 700<br>700 + 550  | 900 + 700<br>700 + 550  |

## HIGH STATIC PRESSURE UNITS

### AVAILABLE STATIC PRESSURE UP TO 200 Pa - FP VERSION

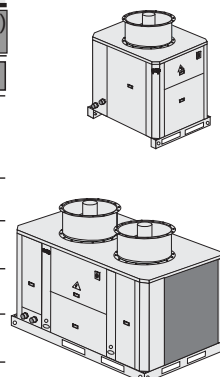
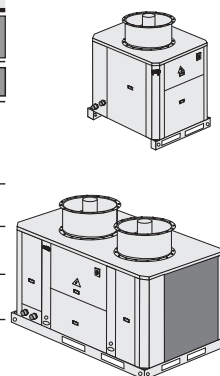
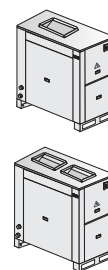
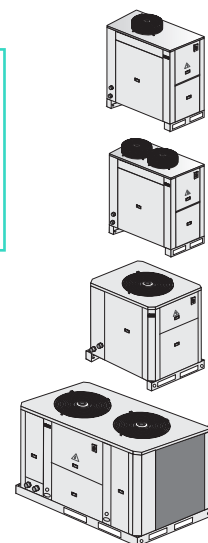
| MODELS                       | 0091S-FP                                          | 0111S-FP                                          | 0151S-FP                                          | 0191S-FP                                          | 0211S-FP                                          |
|------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Fan type                     | Centrifugal - Direct coupling 1450 rpm 1N~230V    |                                                   |                                                   |                                                   |                                                   |
| Fan number                   | 1                                                 | 2                                                 |                                                   |                                                   |                                                   |
| Available static pressure Pa | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW |
| 50                           | 3500<br>0,9                                       | 6500<br>1,9                                       | 6700<br>1,95                                      | 6500<br>1,9                                       | 6300<br>1,85                                      |
| 100                          | 2700<br>0,8                                       | 5700<br>1,75                                      | 5900<br>1,8                                       | 5700<br>1,75                                      | 5500<br>1,7                                       |
| 150                          | 2500<br>0,75                                      | 5200<br>1,6                                       | 5400<br>1,65                                      | 5200<br>1,6                                       | 5000<br>1,55                                      |
| 200                          | 2200<br>0,7                                       | 4700<br>1,45                                      | 4900<br>1,5                                       | 4700<br>1,45                                      | 4500<br>1,4                                       |

### AVAILABLE STATIC PRESSURE UP TO 120 Pa - FP1 VERSION

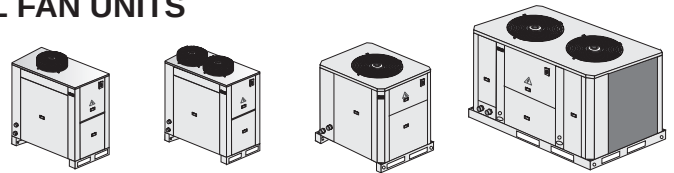
| MODELS                       | 0251S-FP1                                         | 0291S-FP1                                         | 0351S-FP1                                         | 0431S-FP1                                         | 0472S-FP1                                         | 0552S-FP1                                         | 0672S-FP1                                         | 0812S-FP1                                         | 1003S TO 1303S-FP1                                |
|------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Fan type                     | Axial - Direct coupling 1450 rpm 1N~230V          |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | 900 rpm (Low speed) 3~400V                        |
| Fan number                   | 1                                                 |                                                   |                                                   |                                                   | 2                                                 |                                                   |                                                   |                                                   |                                                   |
| Available static pressure Pa | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW |
| 50                           | 11500<br>1,7                                      | 11500<br>1,7                                      | 11000<br>1,65                                     | 10500<br>1,65                                     | 23000<br>3,4                                      | 23000<br>3,4                                      | 22000<br>3,3                                      | 21000<br>3,3                                      | 36000<br>5                                        |
| 75                           | 9600<br>1,65                                      | 9600<br>1,65                                      | 9200<br>1,6                                       | 8800<br>1,6                                       | 19200<br>3,3                                      | 19200<br>3,3                                      | 18400<br>3,2                                      | 17600<br>3,2                                      | 34000<br>5,1                                      |
| 100                          | 8500<br>1,6                                       | 8500<br>1,6                                       | 8100<br>1,55                                      | 7700<br>1,55                                      | 17000<br>3,2                                      | 17000<br>3,2                                      | 16200<br>3,1                                      | 15400<br>3,1                                      | 32000<br>5,2                                      |
| 125                          | 7200<br>1,55                                      | 7200<br>1,55                                      | 6900<br>1,5                                       | 6600<br>1,5                                       | 14400<br>3,1                                      | 14400<br>3,1                                      | 13800<br>3                                        | 13200<br>3                                        | 28000<br>5,3                                      |

### AVAILABLE STATIC PRESSURE UP TO 250 OR 350 Pa - FP2 VERSION

| MODELS                       | 0251S-FP2                                                   | 0291S-FP2                                         | 0351S-FP2                                         | 0431S-FP2                                         | 0472S-FP2                                         | 0552S-FP2                                         | 0672S-FP2                                         | 0812S-FP2                                         | 1003S TO 1303S-FP2                                |
|------------------------------|-------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Fan type                     | Axial "short case" - Direct coupling 1450 rpm 3~230V/3~400V |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   | 1450 rpm (High speed) 3~400V                      |
| Fan number                   | 1                                                           |                                                   |                                                   |                                                   | 2                                                 |                                                   |                                                   |                                                   |                                                   |
| Available static pressure Pa | Air flow rate m <sup>3</sup> /h<br>Power input kW           | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW | Air flow rate m <sup>3</sup> /h<br>Power input kW |
| 150                          | 12400<br>2,45                                               | 12400<br>2,45                                     | 11900<br>2,4                                      | 11500<br>2,35                                     | 24800<br>4,9                                      | 24800<br>4,9                                      | 23800<br>4,8                                      | 23000<br>4,7                                      | 44000<br>9,2                                      |
| 200                          | 10800<br>2,3                                                | 10800<br>2,3                                      | 10400<br>2,3                                      | 10000<br>2,25                                     | 21600<br>4,6                                      | 21600<br>4,6                                      | 20800<br>4,6                                      | 20000<br>4,5                                      | 40000<br>9,3                                      |
| 250                          | 9200<br>2,3                                                 | 9200<br>2,3                                       | 8800<br>2,3                                       | 8500<br>2,3                                       | 18400<br>4,6                                      | 18400<br>4,6                                      | 17600<br>4,6                                      | 17000<br>4,6                                      | 36000<br>9,4                                      |
| 300                          | 7800<br>2,4                                                 | 7800<br>2,4                                       | 7500<br>2,4                                       | 7250<br>2,45                                      | 15600<br>4,8                                      | 15600<br>4,8                                      | 15000<br>4,8                                      | 14500<br>4,9                                      | N/A<br>N/A                                        |
| 350                          | 6800<br>2,45                                                | 6800<br>2,45                                      | 6500<br>2,45                                      | 6250<br>2,5                                       | 13600<br>4,9                                      | 13600<br>4,9                                      | 13000<br>4,9                                      | 12500<br>5                                        | N/A<br>N/A                                        |



## STANDARD AXIAL FAN UNITS



| MODELS                   | 0091S   | 0111S | 0151S | 0191S | 0211S | 0251S | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S | 1003S | 1103S | 1203S | 1303S |
|--------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum power (kW)       | 4,2     | 5,0   | 6,1   | 7,9   | 8,9   | 11,9  | 13,8  | 16,4  | 20,6  | 23,6  | 27,3  | 32,6  | 39,8  | 47,7  | 54,1  | 59,3  | 66    |
| Maximum current (A)      | 1N~230V | 23,9  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
|                          | 3~230V  | 12,9  | 18,9  | 23,1  | 29,3  | 27,8  | 34,2  | 39,4  | 47,8  | 55,1  | 68,4  | 78,7  | 95,7  | 110,2 | ---   | ---   | ---   |
|                          | 3N~400V | 7,8   | 11,6  | 14,0  | 17,6  | 16,7  | 21,0  | 24,2  | 29,1  | 33,3  | 42,0  | 48,4  | 58,2  | 66,6  | 76    | 87,4  | 107,2 |
| LRC (A)                  | 1N~230V | 95,8  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
|                          | 3~230V  | 91,8  | 99,6  | 134,6 | 179,6 | 167,6 | 213,0 | 227,5 | 282,5 | 333,5 | 243,7 | 262,7 | 324,1 | 382,0 | ---   | ---   | ---   |
|                          | 3N~400V | 44,3  | 51,6  | 63,6  | 97,4  | 95,6  | 119,0 | 130,5 | 161,5 | 192,5 | 138,0 | 152,3 | 187,0 | 222,0 | 235,2 | 246,6 | 331,2 |
| Starting current (A) (*) | 1N~230V | 81,5  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
|                          | 3~230V  | 78,2  | 84,9  | 114,7 | 152,9 | 142,7 | 181,5 | 193,9 | 240,7 | 284,0 | 212,2 | 229,1 | 282,2 | 332,5 | ---   | ---   | ---   |
|                          | 3N~400V | 37,8  | 44,1  | 54,3  | 83,0  | 81,5  | 101,6 | 111,5 | 137,8 | 164,1 | 120,6 | 133,2 | 163,3 | 193,7 | 200,6 | 210,6 | 282,7 |

Not included water pump consumptions of the Hydronic or Hydraulic version (see page 29)

Maximum power calculated for compressor operation at +12,5/65°C

(\*) Starting current 2 cycles later from compressor starts (4 msec)

## HIGH STATIC PRESSURE UNITS

## FP VERSIONS

| MODELS                   | 0091S   | 0111S | 0151S | 0191S | 0211S |
|--------------------------|---------|-------|-------|-------|-------|
| Maximum power (kW)       | 5,0     | 6,6   | 7,7   | 9,5   | 10,5  |
| Maximum current (A)      | 1N~230V | 27,1  | ---   | ---   | ---   |
|                          | 3~230V  | 16,1  | 25,3  | 29,5  | 34,2  |
|                          | 3N~400V | 11,0  | 18,0  | 20,4  | 23,1  |
| LRC (A)                  | 1N~230V | 99,0  | ---   | ---   | ---   |
|                          | 3~230V  | 95,0  | 106,0 | 141,0 | 174,0 |
|                          | 3N~400V | 47,5  | 58,0  | 70,0  | 102,0 |
| Starting current (A) (*) | 1N~230V | 84,8  | ---   | ---   | ---   |
|                          | 3~230V  | 81,4  | 91,3  | 121,1 | 159,3 |
|                          | 3N~400V | 41,0  | 50,5  | 60,7  | 89,4  |

Not included water pump consumptions of the Hydronic or Hydraulic version (see page 29)

Maximum power calculated for compressor operation at +12,5/65°C

(\*) Starting current 2 cycles later from compressor starts (4 msec)

## FP1 VERSIONS

| MODELS                   | 0251S   | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S | 1003S | 1103S | 1203S | 1303S |
|--------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum power (kW)       | 12,9    | 14,6  | 17,2  | 21,4  | 25,5  | 28,9  | 34,2  | 41,4  | 50,6  | 56,0  | 61,2  | 67,0  |
| Maximum current (A)      | 3~230V  | 39,2  | 43,9  | 52,3  | 59,6  | 78,4  | 87,7  | 104,7 | 119,2 | ---   | ---   | ---   |
|                          | 3N~400V | 26,0  | 28,7  | 33,6  | 37,8  | 52,0  | 57,4  | 67,2  | 75,6  | 80,8  | 90,6  | 108,8 |
| LRC (A)                  | 3~230V  | 218,0 | 232,0 | 287,0 | 338,0 | 253,7 | 271,7 | 333,1 | 391,0 | ---   | ---   | ---   |
|                          | 3N~400V | 124,0 | 135,0 | 166,0 | 197,0 | 148,0 | 161,3 | 196,0 | 231,0 | 240,0 | 249,8 | 332,8 |
| Starting current (A) (*) | 3~230V  | 186,5 | 198,4 | 245,2 | 288,5 | 222,2 | 238,1 | 291,2 | 341,5 | ---   | ---   | ---   |
|                          | 3N~400V | 106,6 | 116,0 | 142,3 | 168,7 | 130,6 | 142,3 | 172,3 | 202,7 | 205,4 | 213,8 | 284,3 |

Not included water pump consumptions of the Hydronic or Hydraulic version (see page 29)

Maximum power calculated for compressor operation at +12,5/65°C

(\*) Starting current 2 cycles later from compressor starts (4 msec)

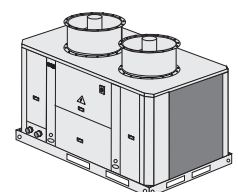
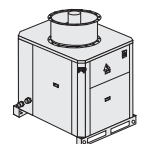
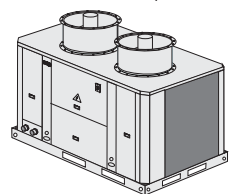
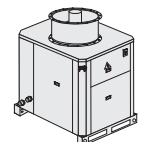
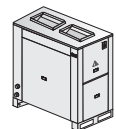
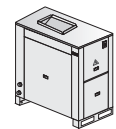
## FP2 VERSIONS

| MODELS                   | 0251S   | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S | 1003S | 1103S | 1203S | 1303S |
|--------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum power (kW)       | 13,6    | 15,4  | 18,0  | 22,1  | 27,0  | 30,4  | 35,7  | 42,8  | 54,8  | 60,2  | 65,4  | 71,2  |
| Maximum current (A)      | 3~230V  | 39,2  | 43,9  | 52,3  | 59,6  | 78,4  | 87,7  | 104,7 | 119,2 | ---   | ---   | ---   |
|                          | 3N~400V | 22,5  | 25,2  | 30,1  | 34,3  | 45,0  | 50,4  | 60,2  | 68,6  | 87,4  | 97,2  | 115,4 |
| LRC (A)                  | 3~230V  | 218,0 | 232,0 | 287,0 | 338,0 | 253,7 | 271,7 | 333,1 | 391,0 | ---   | ---   | ---   |
|                          | 3N~400V | 120,5 | 131,5 | 162,5 | 193,5 | 141,0 | 154,3 | 189,0 | 224,0 | 246,6 | 256,4 | 339,4 |
| Starting current (A) (*) | 3~230V  | 186,5 | 198,4 | 245,2 | 288,5 | 222,2 | 238,1 | 291,2 | 341,5 | ---   | ---   | ---   |
|                          | 3N~400V | 103,1 | 112,5 | 138,8 | 165,2 | 123,6 | 135,3 | 165,3 | 195,7 | 212,0 | 220,4 | 290,9 |

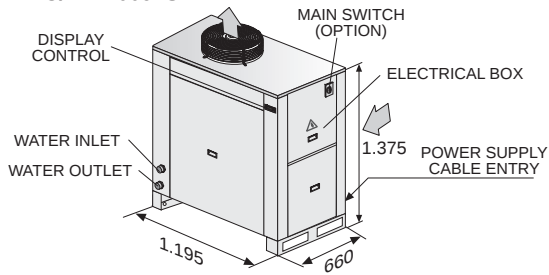
Not included water pump consumptions of the Hydronic or Hydraulic version (see page 29)

Maximum power calculated for compressor operation at +12,5/65°C

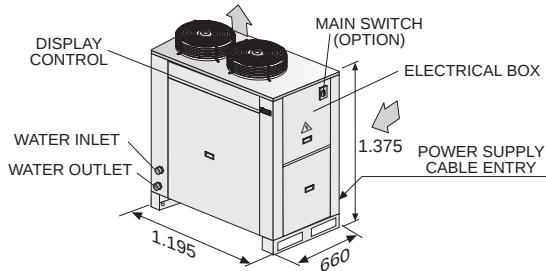
(\*) Starting current 2 cycles later from compressor starts (4 msec)



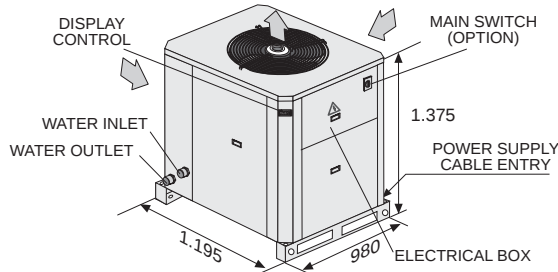
## 1 EAC/EAR 0091S



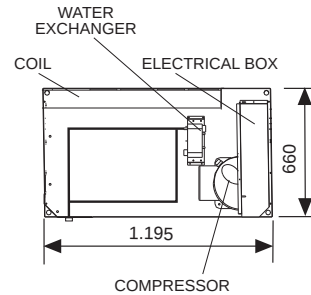
## 2 EAC/EAR 0111S-0151S-0191S-0211S



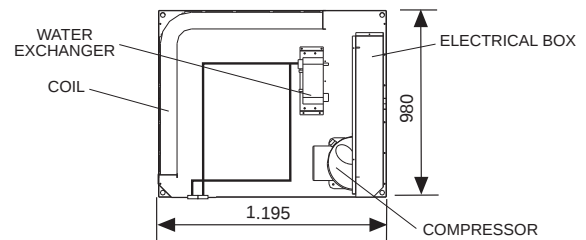
## 3 EAC/EAR 0251S-0291S-0351S-0431S



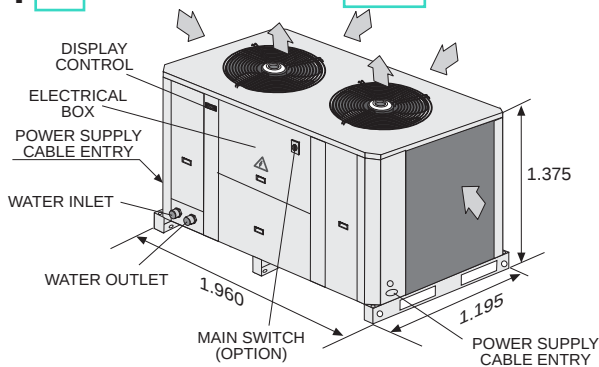
## 1/2 COMPONENT POSITION STANDARD VERSION UNIT



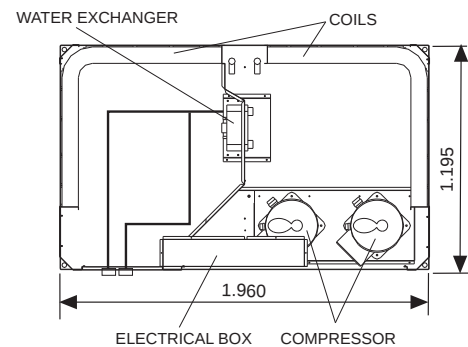
## 3 COMPONENT POSITION STANDARD VERSION UNIT



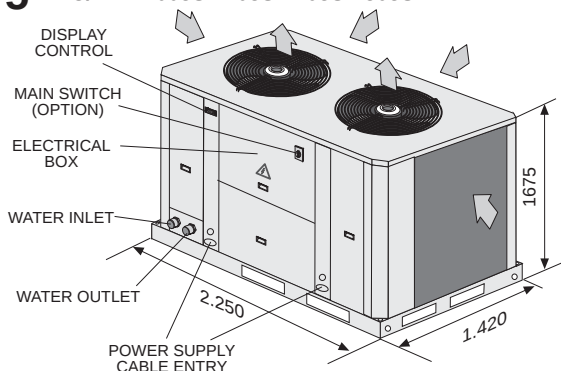
## 4 EAC/EAR 0472S-0552S-0672S-0812S



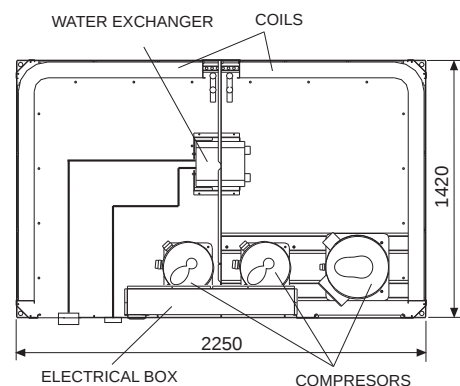
## 4 COMPONENT POSITION STANDARD VERSION UNIT

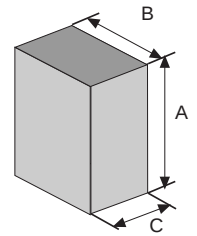


## 5 EAC/EAR 1003S-1103S-1203S-1303S



## 5 COMPONENT POSITION STANDARD VERSION UNIT





## STANDARD AXIAL FAN UNITS

| MODELS                  | EAC / EAR | 0091S | 0111S | 0151S | 0191S | 0211S | 0251S | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S | 1003S | 1103S | 1203S | 1303S |
|-------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A - Height              | mm        | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1375  | 1675  | 1675  | 1675  | 1675  |
| B - Width               | mm        | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1960  | 1960  | 1960  | 1960  | 2250  | 2250  | 2250  | 2250  |
| C - Depth               | mm        | 660   | 660   | 660   | 660   | 660   | 980   | 980   | 980   | 980   | 1195  | 1195  | 1195  | 1195  | 1420  | 1420  | 1420  | 1420  |
| Operating weight (*) kg | EAC       | 147   | 155   | 168   | 181   | 245   | 272   | 281   | 309   | 345   | 540   | 551   | 596   | 670   | 803   | 948   | 1059  | 1104  |
|                         | EAR       | 150   | 158   | 172   | 185   | 250   | 277   | 285   | 317   | 353   | 549   | 561   | 612   | 685   | 825   | 971   | 1084  | 1129  |

(\*) Not included Hydronic or Hydraulic version (see page 29).

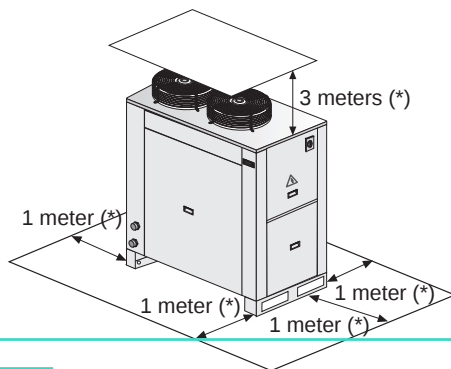
## HIGH STATIC PRESSURE UNITS

| MODELS                  | EAC / EAR | 0091S | 0111S | 0151S | 0191S | 0211S | 0251S | 0291S | 0351S | 0431S | 0472S | 0552S | 0672S | 0812S | 1003S | 1103S | 1203S | 1303S |
|-------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A - Height              | FP/FP1    | 1375  | 1375  | 1375  | 1375  | 1375  | 1615  | 1615  | 1615  | 1615  | 1615  | 1615  | 1615  | 1615  | 1955  | 1955  | 1955  | 1955  |
|                         | FP2       | -     | -     | -     | -     | -     | 1800  | 1800  | 1800  | 1800  | 1800  | 1800  | 1800  | 1800  | 1955  | 1955  | 1955  | 1955  |
| B - Width               | mm        | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1195  | 1960  | 1960  | 1960  | 1960  | 2250  | 2250  | 2250  | 2250  |
| C - Depth               | mm        | 660   | 660   | 660   | 660   | 660   | 980   | 980   | 980   | 980   | 1195  | 1195  | 1195  | 1195  | 1420  | 1420  | 1420  | 1420  |
| Operating weight (*) kg | EAC       | 156   | 173   | 186   | 199   | 263   | 297   | 296   | 324   | 360   | 590   | 581   | 626   | 700   | 843   | 988   | 1099  | 1144  |
|                         | FP2       | -     | -     | -     | -     | -     | 317   | 316   | 344   | 380   | 630   | 621   | 666   | 740   | 843   | 988   | 1099  | 1144  |
|                         | EAR       | 159   | 176   | 190   | 204   | 268   | 302   | 301   | 332   | 368   | 599   | 592   | 642   | 716   | 865   | 1011  | 1124  | 1169  |
|                         | FP2       | -     | -     | -     | -     | -     | 322   | 321   | 352   | 388   | 639   | 632   | 682   | 756   | 865   | 1011  | 1124  | 1169  |

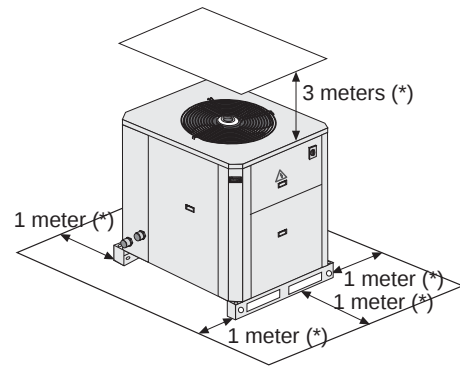
(\*) Not included Hydronic or Hydraulic version (see page 29).

## SERVICE AREAS

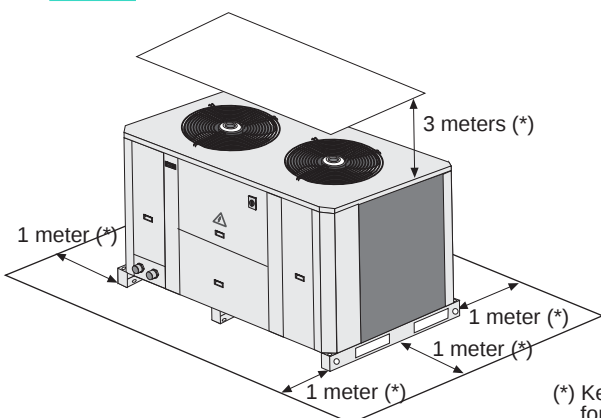
EAC/EAR 0091S-0111S-0151S-0191S-0211S



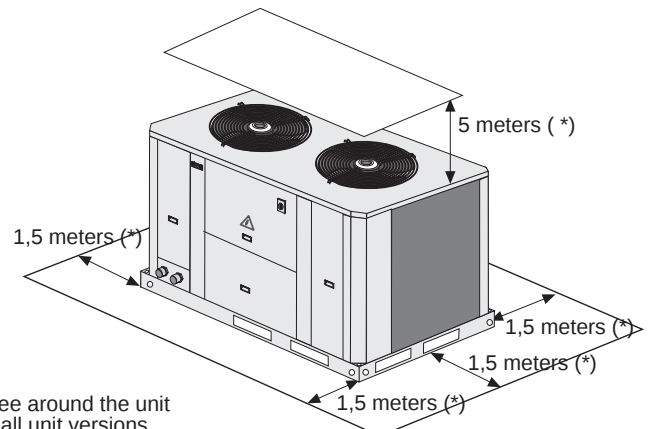
EAC/EAR 0251S-0291S-0351S-0431S



EAC/EAR 0472S-0552S-0672S-0812S



EAC/EAR 1003S-1103S-1203S-1303S



(\*) Keep this space free around the unit for installation, for all unit versions

## STANDARD AXIAL FAN UNITS

| EAC<br>EAR | Spectrum per octave band (dBA) |        |        |        |         |         |         |         | Global sound<br>power<br>Lw dB(A) | Sound<br>pressure<br>at 10m. (dBA) |
|------------|--------------------------------|--------|--------|--------|---------|---------|---------|---------|-----------------------------------|------------------------------------|
|            |                                | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |                                   |                                    |
| 0091S      | (1)                            | 64,6   | 67,6   | 67,8   | 67,6    | 67,2    | 63,5    | 59,0    | 73                                | 45                                 |
|            | (2)                            | 64,6   | 67,6   | 67,7   | 66,8    | 65,9    | 61,9    | 56,7    | 72                                | 44                                 |
| 0111S      | (1)                            | 67,6   | 70,6   | 70,8   | 70,4    | 68,5    | 64,2    | 57,5    | 75                                | 47                                 |
|            | (2)                            | 67,6   | 70,6   | 70,8   | 69,7    | 67,9    | 63,3    | 56,2    | 75                                | 47                                 |
| 0151S      | (1)                            | 67,6   | 70,7   | 71,4   | 71,1    | 68,7    | 66,4    | 60,5    | 76                                | 48                                 |
|            | (2)                            | 67,6   | 70,6   | 71,1   | 70,2    | 68,0    | 64,8    | 58,5    | 75                                | 47                                 |
| 0191S      | (1)                            | 67,6   | 70,6   | 71,4   | 71,8    | 69,2    | 67,2    | 59,9    | 76                                | 48                                 |
|            | (2)                            | 67,6   | 70,6   | 71,1   | 70,6    | 68,3    | 65,4    | 58,0    | 75                                | 47                                 |
| 0211S      | (1)                            | 67,6   | 71,1   | 74,9   | 73,2    | 72,5    | 69,6    | 57,0    | 79                                | 51                                 |
|            | (2)                            | 67,6   | 70,9   | 73,2   | 71,3    | 70,3    | 66,9    | 55,7    | 77                                | 49                                 |
| 0251S      | (1)                            | 73,8   | 70,0   | 74,8   | 72,7    | 73,5    | 70,4    | 57,5    | 79                                | 51                                 |
|            | (2)                            | 73,8   | 69,8   | 72,7   | 70,2    | 70,3    | 67,3    | 56,3    | 76                                | 48                                 |
| 0291S      | (1)                            | 80,3   | 72,4   | 76,7   | 75,9    | 75,4    | 70,2    | 62,3    | 81                                | 53                                 |
|            | (2)                            | 80,3   | 72,3   | 75,2   | 74,9    | 73,9    | 68,0    | 61,3    | 80                                | 52                                 |
| 0351S      | (1)                            | 80,3   | 72,6   | 76,1   | 75,8    | 77,6    | 74,2    | 67,3    | 83                                | 55                                 |
|            | (2)                            | 80,3   | 72,4   | 74,8   | 74,9    | 75,4    | 71,2    | 64,8    | 81                                | 53                                 |
| 0431S      | (1)                            | 80,3   | 73,5   | 77,1   | 76,3    | 77,2    | 71,4    | 65,0    | 82                                | 54                                 |
|            | (2)                            | 80,3   | 72,9   | 75,4   | 75,1    | 75,1    | 68,9    | 63,1    | 80                                | 52                                 |
| 0472S      | (1)                            | 76,8   | 73,0   | 77,8   | 75,7    | 76,5    | 73,4    | 60,5    | 82                                | 54                                 |
|            | (2)                            | 76,8   | 72,8   | 75,7   | 73,2    | 73,3    | 70,3    | 59,3    | 79                                | 51                                 |
| 0552S      | (1)                            | 83,3   | 75,4   | 79,7   | 78,9    | 78,4    | 73,2    | 65,3    | 84                                | 56                                 |
|            | (2)                            | 83,3   | 75,3   | 78,2   | 77,9    | 76,9    | 71,0    | 64,3    | 83                                | 55                                 |
| 0672S      | (1)                            | 83,3   | 75,6   | 79,1   | 78,8    | 80,6    | 77,2    | 70,3    | 86                                | 58                                 |
|            | (2)                            | 83,3   | 75,4   | 77,8   | 77,9    | 78,4    | 74,2    | 67,8    | 84                                | 56                                 |
| 0812S      | (1)                            | 83,3   | 76,5   | 80,1   | 79,3    | 80,2    | 74,4    | 68,0    | 85                                | 57                                 |
|            | (2)                            | 83,3   | 75,9   | 78,4   | 78,1    | 78,1    | 71,9    | 66,1    | 83                                | 55                                 |
| 1003S      | Low speed                      | (1)    | 70,6   | 71,4   | 79,6    | 78,0    | 78,7    | 74,1    | 84                                | 56                                 |
|            |                                | (2)    | 70,6   | 70,0   | 76,7    | 75,8    | 75,2    | 70,7    | 81                                | 53                                 |
|            | High speed                     | (1)    | 76,3   | 75,0   | 80,6    | 80,5    | 79,2    | 74,4    | 85                                | 57                                 |
|            |                                | (2)    | 76,3   | 74,4   | 78,5    | 79,4    | 76,3    | 71,3    | 83                                | 55                                 |
| 1103S      | Low speed                      | (1)    | 73,4   | 73,0   | 78,5    | 78,4    | 79,7    | 76,1    | 85                                | 57                                 |
|            |                                | (2)    | 73,3   | 72,0   | 76,2    | 76,9    | 76,4    | 72,7    | 82                                | 54                                 |
|            | High speed                     | (1)    | 81,9   | 78,9   | 80,8    | 82,8    | 81,4    | 76,8    | 87                                | 59                                 |
|            |                                | (2)    | 81,9   | 78,7   | 79,6    | 82,3    | 79,4    | 74,2    | 86                                | 58                                 |
| 1203S      | Low speed                      | (1)    | 73,4   | 71,9   | 76,6    | 79,3    | 79,6    | 75,8    | 85                                | 57                                 |
|            |                                | (2)    | 73,3   | 71,6   | 75,1    | 78,8    | 77,9    | 73,4    | 83                                | 55                                 |
|            | High speed                     | (1)    | 81,9   | 78,6   | 79,8    | 83,1    | 81,3    | 76,6    | 87                                | 59                                 |
|            |                                | (2)    | 81,9   | 78,6   | 79,1    | 82,9    | 80,2    | 74,7    | 86                                | 58                                 |
| 1303S      | Low speed                      | (1)    | 75,0   | 73,5   | 78,0    | 80,4    | 80,6    | 76,3    | 86                                | 58                                 |
|            |                                | (2)    | 75,0   | 73,3   | 76,9    | 80,0    | 79,4    | 74,3    | 84                                | 56                                 |
|            | High speed                     | (1)    | 84,2   | 80,8   | 81,4    | 84,8    | 82,9    | 77,5    | 89                                | 61                                 |
|            |                                | (2)    | 84,2   | 80,7   | 80,9    | 84,6    | 82,2    | 76,0    | 88                                | 60                                 |

(1) The above data shows noise levels **without** isolation for compressor

(2) The above data shows noise levels **with** isolation for compressor (option)

Global sound power level measured in compliance with ISO standard 3744 and under Eurovent certification program

Sound pressure in dB(A) calculated at 10 m, in a free field on a reflecting surface, is given as a guide only and with a directivity of +/- 3 dBA.

Only the sound power spectrum and the global sound power value are used in determining pressure characteristics on site. The data table above, are calculated:

A) For units: EAC/EAR 0091S to 0812S

Operating on cooling or heating mode (with ambient temperatures higher than +35°C), and at maximum fan speed. For ambient temperatures lower than +35 °C and unit working on cooling mode, the fan, speed regulating, and produce an attenuation of noise level as follow:

Sound pressure level attenuation calculated at 10 m (dBA) shows in the table below, (minimum speed when ambient temperatures lower than +20 °C).

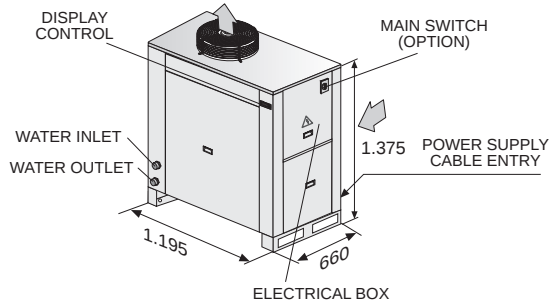
| MODELS EAC / EAR                                         | 0091S  | 0111S/0211S | 0251S/0431S | 0472S/0812S |
|----------------------------------------------------------|--------|-------------|-------------|-------------|
| Noise level attenuation, because of fan speed regulation | -1 dBA | -2 dBA      | -3 dBA      | -3 dBA      |

B) For units: EAC/EAR 1003S to 1303S.

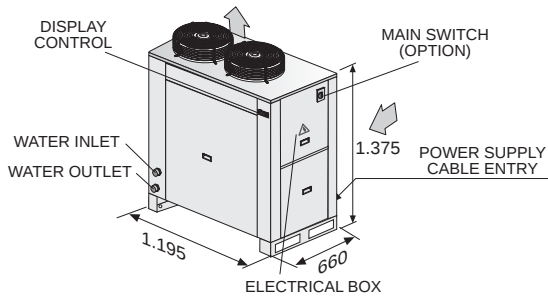
- For ambient temperatures lower than +35°C and unit working on cooling mode the fan is running in low speed, and with ambient temperatures higher than +35°C the fan is running in high speed.
- For ambient temperatures higher than +6°C and unit working on heating mode the fan is running in low speed and with ambient temperatures lower than +6°C the fan is running in high speed.

## (HYDRONIC VERSION)

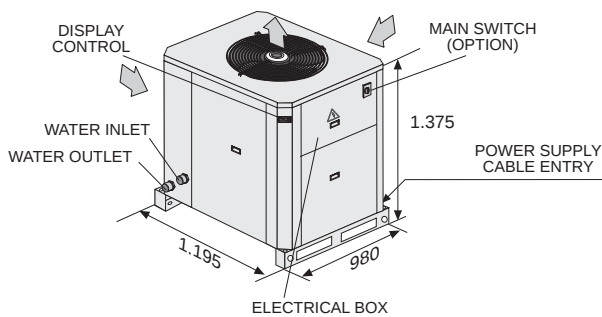
### 1 EAC/EAR 0091S



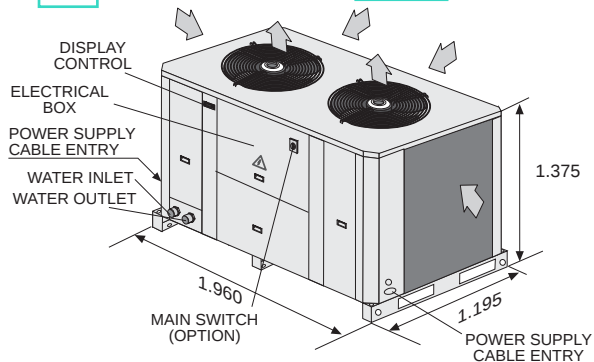
### 2 EAC/EAR 0111S-0151S-0191S-0211S



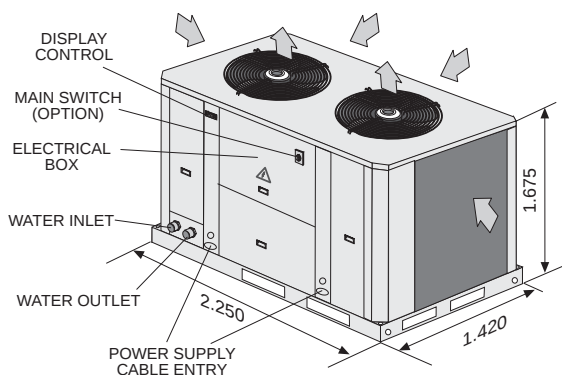
### 3 EAC/EAR 0251S-0291S-0351S-0431S



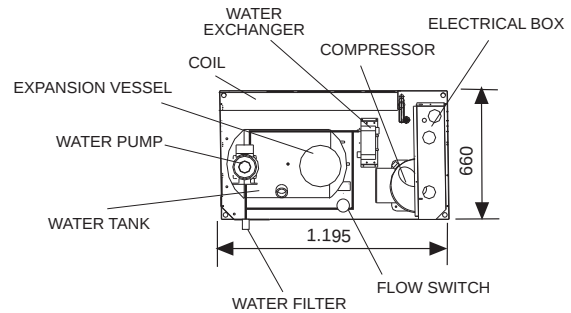
### 4 EAC/EAR 0472S-0552S-0672S-0812S



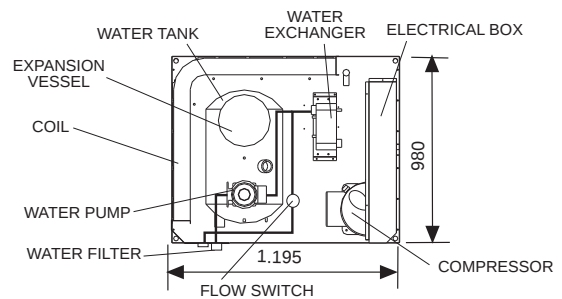
### 5 EAC/EAR 1003S-1103S-1203S-1303S



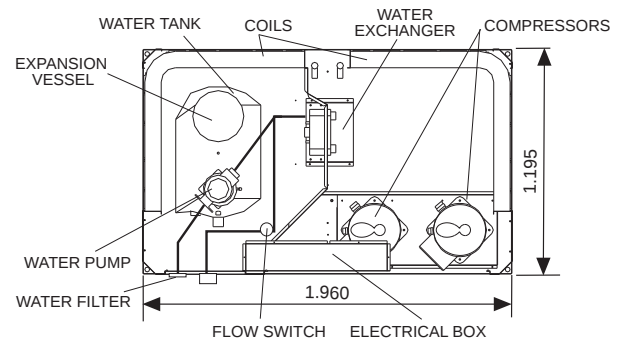
### 1/2 COMPONENT POSITION HYDRONIC VERSION UNIT



### 3 COMPONENT POSITION HYDRONIC VERSION UNIT



### 4 COMPONENT POSITION HYDRONIC VERSION UNIT



### 5 COMPONENT POSITION HYDRONIC VERSION UNIT

