

# Air coolers FC38

## Standard

### Cu/Al-R404A/Coolants

GEA Heat Exchangers

Goedhart FC38S



Goedhart FC38D



Goedhart FC38L



# Correction factors

## Correction factors DT1 (=Air-on)

The nominal capacities of the Goedhart FC38i(dx) and FC38p(dx) air coolers are based on R-404A direct expansion, DT1 and a RH of 85%. DT1 is the difference between air-on temperature and the evaporation temperature of the cooler. The evaporation temperature is the saturated temperature corresponding to the pressure at the suction outlet of the cooler.

The nominal capacities:

- (SC1)  $t_o = 0\text{ °C}$  and DT1= 10 K
- (SC2)  $t_o = -8\text{ °C}$  and DT1= 8 K
- (SC3)  $t_o = -25\text{ °C}$  and DT1= 7 K

Correction factors for various evaporation temperatures and temperature differences (DT1) are as indicated in the tables below. The requested capacity must be multiplied by a correction factor from the table, so that a cooler with the resulting nominal capacity can be chosen from the selection tables.

**Q nominal = factor x Q requested**

| R404A |                              |      |      |      |      |      |      |      |      |      |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|
| DT1   | Evaporation temperature (°C) |      |      |      |      |      |      |      |      |      |
| K     | +7                           | +6   | +5   | +4   | +3   | +2   | +1   | 0    | -1   | -2   |
| 6     | 1,81                         | 1,81 | 1,82 | 1,82 | 1,83 | 1,83 | 1,84 | 1,84 | 1,84 | 1,85 |
| 7     | 1,49                         | 1,50 | 1,50 | 1,50 | 1,51 | 1,51 | 1,52 | 1,52 | 1,52 | 1,53 |
| 8     | 1,27                         | 1,28 | 1,28 | 1,29 | 1,29 | 1,29 | 1,30 | 1,30 | 1,30 | 1,31 |
| 9     | 1,10                         | 1,10 | 1,11 | 1,11 | 1,12 | 1,12 | 1,13 | 1,13 | 1,13 | 1,14 |
| 10    | 0,97                         | 0,98 | 0,98 | 0,99 | 0,99 | 0,99 | 1,00 | 1,00 | 1,00 | 1,01 |
| 11    | 0,88                         | 0,88 | 0,88 | 0,89 | 0,89 | 0,90 | 0,90 | 0,90 | 0,90 | 0,91 |
| 12    | 0,79                         | 0,79 | 0,79 | 0,80 | 0,80 | 0,81 | 0,81 | 0,81 | 0,81 | 0,82 |

**SC1** DT1 = 10K  
Air on = 10°C (0/+10°C)

| R404A |                              |      |      |      |      |      |      |      |      |      |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|
| DT1   | Evaporation temperature (°C) |      |      |      |      |      |      |      |      |      |
| K     | -3                           | -4   | -5   | -6   | -7   | -8   | -9   | -10  | -11  | -12  |
| 6     | 1,30                         | 1,34 | 1,38 | 1,42 | 1,42 | 1,43 | 1,43 | 1,43 | 1,44 | 1,44 |
| 7     | 1,04                         | 1,07 | 1,10 | 1,14 | 1,17 | 1,18 | 1,18 | 1,18 | 1,19 | 1,19 |
| 8     | 0,86                         | 0,88 | 0,91 | 0,94 | 0,97 | 1,00 | 1,00 | 1,01 | 1,01 | 1,01 |
| 9     | 0,75                         | 0,75 | 0,77 | 0,79 | 0,82 | 0,84 | 0,87 | 0,87 | 0,87 | 0,88 |
| 10    | 0,66                         | 0,66 | 0,66 | 0,68 | 0,70 | 0,72 | 0,74 | 0,77 | 0,77 | 0,77 |
| 11    | 0,59                         | 0,59 | 0,59 | 0,59 | 0,61 | 0,63 | 0,65 | 0,67 | 0,69 | 0,69 |
| 12    | 0,54                         | 0,54 | 0,54 | 0,54 | 0,54 | 0,55 | 0,57 | 0,58 | 0,60 | 0,62 |

**SC2** DT1 = 8K  
Air on = 0°C (-8/0°C)

| R404A |                              |      |      |      |      |      |      |      |      |      |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|
| DT1   | Evaporation temperature (°C) |      |      |      |      |      |      |      |      |      |
| K     | -21                          | -22  | -23  | -24  | -25  | -26  | -27  | -28  | -29  | -30  |
| 6     | 1,20                         | 1,20 | 1,21 | 1,21 | 1,21 | 1,22 | 1,22 | 1,23 | 1,23 | 1,23 |
| 7     | 0,99                         | 0,99 | 0,99 | 1,00 | 1,00 | 1,00 | 1,00 | 1,01 | 1,01 | 1,02 |
| 8     | 0,84                         | 0,84 | 0,84 | 0,85 | 0,85 | 0,85 | 0,85 | 0,86 | 0,86 | 0,86 |
| 9     | 0,73                         | 0,73 | 0,73 | 0,73 | 0,73 | 0,74 | 0,74 | 0,74 | 0,74 | 0,75 |
| 10    | 0,64                         | 0,64 | 0,64 | 0,64 | 0,65 | 0,65 | 0,65 | 0,65 | 0,66 | 0,66 |
| 11    | 0,57                         | 0,57 | 0,57 | 0,58 | 0,58 | 0,58 | 0,58 | 0,58 | 0,59 | 0,59 |
| 12    | 0,52                         | 0,52 | 0,52 | 0,52 | 0,52 | 0,52 | 0,53 | 0,53 | 0,53 | 0,53 |

**SC3** DT1 = 7K  
Air on = -18°C (-25/-18°C)

## Capacity optimization

To achieve the best possible combination of application, refrigerant and capacity, Goedhart can optimise the coil circuiting, depending on the specific conditions under which the products will be used. FC38 is a standard product to ensure shorter delivery times. The circuiting of these evaporators has been optimized according to the most commonly used coolants/refrigerants and conditions. Specific applications can vary from this, our sales department is there to assist you in selecting the best circuiting for your application.

## Correction factors for coolants

The nominal capacities of the Goedhart FC38p(G) air coolers are based on an air-on temperature of 12°C, a RH of 85% and:

- Water : in / out temperatuur = +1/+5°C
- E-Glycol : in / out temperatuur = - 2/+3°C
- P-Glycol : in / out temperatuur = - 2/+3°C
- Pekasol : in / out temperatuur = - 2/+3°C
- Freezium : in / out temperatuur = - 2/+3°C

Correction factors for various air-on temperatures and refrigerants or secondary coolants are as indicated in the tables below. The requested capacity must be multiplied by a correction factor from the table, so that a cooler with the resulting nominal capacity can be chosen from the selection tables.

**Q nominal = faktor x Q requested**

| Water  |                         |      |      |      |      |      |      |      |      |  |
|--------|-------------------------|------|------|------|------|------|------|------|------|--|
| in/out | Air-on temperature (°C) |      |      |      |      |      |      |      |      |  |
| °C     | +8                      | +9   | +10  | +11  | +12  | +13  | +14  | +15  | +16  |  |
| 1 / 5  | 1,99                    | 1,59 | 1,32 | 1,14 | 1,00 | 0,88 | 0,78 | 0,72 | 0,66 |  |
| 2 / 6  |                         | 1,95 | 1,57 | 1,30 | 1,12 | 0,98 | 0,87 | 0,78 | 0,71 |  |
| 3 / 7  |                         |      | 1,92 | 1,54 | 1,28 | 1,11 | 0,97 | 0,86 | 0,77 |  |
| 4 / 8  |                         |      |      | 1,94 | 1,56 | 1,31 | 1,13 | 0,98 | 0,87 |  |
| 5 / 9  |                         |      |      |      | 1,86 | 1,49 | 1,25 | 1,07 | 0,94 |  |

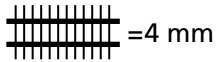
| E-Glycol 28% |                         |      |      |      |      |      |      |      |      |  |
|--------------|-------------------------|------|------|------|------|------|------|------|------|--|
| in/out       | Air-on temperature (°C) |      |      |      |      |      |      |      |      |  |
| °C           | +8                      | +9   | +10  | +11  | +12  | +13  | +14  | +15  | +16  |  |
| -2 / 3       | 1,81                    | 1,46 | 1,34 | 1,16 | 1,00 | 0,88 | 0,82 | 0,81 | 0,69 |  |
| -1 / 4       | 2,35                    | 1,72 | 1,41 | 1,28 | 1,10 | 0,96 | 0,85 | 0,79 | 0,75 |  |
| 0 / 5        | 2,43                    | 2,30 | 1,64 | 1,40 | 1,24 | 1,06 | 0,93 | 0,84 | 0,76 |  |
| 1 / 6        |                         | 2,38 | 2,28 | 1,59 | 1,37 | 1,21 | 1,05 | 0,92 | 0,82 |  |
| 2 / 7        |                         |      | 2,28 | 2,09 | 1,55 | 1,35 | 1,17 | 1,03 | 0,91 |  |

| P-Glycol 28% |                         |      |      |      |      |      |      |      |      |  |
|--------------|-------------------------|------|------|------|------|------|------|------|------|--|
| in/out       | Air-on temperature (°C) |      |      |      |      |      |      |      |      |  |
| °C           | +8                      | +9   | +10  | +11  | +12  | +13  | +14  | +15  | +16  |  |
| -2 / 3       | 1,66                    | 1,45 | 1,26 | 1,11 | 1,00 | 0,91 | 0,83 | 0,76 | 0,70 |  |
| -1 / 4       | 2,00                    | 1,65 | 1,42 | 1,24 | 1,11 | 1,01 | 0,90 | 0,81 | 0,77 |  |
| 0 / 5        | 2,48                    | 1,94 | 1,65 | 1,41 | 1,23 | 1,14 | 1,00 | 0,91 | 0,85 |  |
| 1 / 6        |                         | 2,46 | 1,97 | 1,64 | 1,42 | 1,29 | 1,12 | 1,00 | 0,92 |  |
| 2 / 7        |                         |      | 2,45 | 1,96 | 1,63 | 1,64 | 1,28 | 1,11 | 1,00 |  |

| Pekasol 50% |                         |      |      |      |      |      |      |      |      |  |
|-------------|-------------------------|------|------|------|------|------|------|------|------|--|
| in/out      | Air-on temperature (°C) |      |      |      |      |      |      |      |      |  |
| °C          | +8                      | +9   | +10  | +11  | +12  | +13  | +14  | +15  | +16  |  |
| -2 / 3      | 1,68                    | 1,42 | 1,26 | 1,11 | 1,00 | 0,90 | 0,82 | 0,77 | 0,70 |  |
| -1 / 4      | 2,02                    | 1,65 | 1,42 | 1,24 | 1,10 | 0,98 | 0,89 | 0,81 | 0,76 |  |
| 0 / 5       | 2,39                    | 1,96 | 1,62 | 1,39 | 1,22 | 1,07 | 0,96 | 0,87 | 0,80 |  |
| 1 / 6       |                         | 2,36 | 1,93 | 1,60 | 1,37 | 1,20 | 1,06 | 0,94 | 0,86 |  |
| 2 / 7       |                         |      | 2,32 | 1,89 | 1,57 | 1,35 | 1,18 | 1,05 | 0,94 |  |

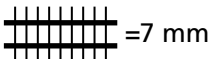
| Freezium 24% |                         |      |      |      |      |      |      |      |      |  |
|--------------|-------------------------|------|------|------|------|------|------|------|------|--|
| in/out       | Air-on temperature (°C) |      |      |      |      |      |      |      |      |  |
| °C           | +8                      | +9   | +10  | +11  | +12  | +13  | +14  | +15  | +16  |  |
| -2 / 3       | 1,66                    | 1,44 | 1,25 | 1,11 | 1,00 | 0,91 | 0,83 | 0,77 | 0,71 |  |
| -1 / 4       | 1,94                    | 1,62 | 1,42 | 1,23 | 1,09 | 0,98 | 0,89 | 0,82 | 0,76 |  |
| 0 / 5        | 2,38                    | 1,91 | 1,59 | 1,39 | 1,21 | 1,07 | 0,97 | 0,88 | 0,81 |  |
| 1 / 6        |                         | 2,34 | 1,88 | 1,57 | 1,37 | 1,20 | 1,06 | 0,95 | 0,86 |  |
| 2 / 7        |                         |      | 2,30 | 1,86 | 1,55 | 1,35 | 1,18 | 1,05 | 0,94 |  |

# F38Dp(dx) - R404A



| Type     | Fan diameter | 1x230V-50Hz-4 pole |      |                   |       |      | 1x230V-50Hz-6 pole |                   |       |                |    | Surface | Connections |                 | Weight | Internal volume |
|----------|--------------|--------------------|------|-------------------|-------|------|--------------------|-------------------|-------|----------------|----|---------|-------------|-----------------|--------|-----------------|
|          |              | SC1                | SC2  |                   |       |      | SC1                | SC2               |       |                |    |         | I           | K               |        |                 |
| FC38D    | mm           | kW                 | kW   | m <sup>3</sup> /h | dB(A) | kW   | kW                 | m <sup>3</sup> /h | dB(A) | m <sup>2</sup> | mm | mm      | kg          | dm <sup>3</sup> |        |                 |
| 6.1.30.4 | 1x300        | 3,7                | 2,4  | 1048              | 52    |      |                    |                   |       | 16             | 12 | 12      | 54          | 4               |        |                 |
| 6.1.35.4 | 1x350        | 5,8                | 3,9  | 1644              | 57    |      |                    |                   |       | 20             | 12 | 22      | 66          | 6               |        |                 |
| 6.2.30.4 | 2x300        | 7,7                | 5,2  | 2045              | 55    |      |                    |                   |       | 30             | 12 | 22      | 82          | 8               |        |                 |
| 6.2.35.4 | 2x350        | 10,4               | 7,0  | 3060              | 60    |      |                    |                   |       | 34             | 12 | 22      | 92          | 8               |        |                 |
| 6.2.40.4 | 2x400        | 17,4               | 11,8 | 4890              | 63    | 13,6 | 9,2                | 3434              | 53    | 61             | 16 | 28      | 123         | 14              |        |                 |
| 6.2.45.4 | 2x450        | 29,1               | 19,5 | 8674              | 68    | 22,2 | 15,2               | 5669              | 58    | 95             | 16 | 35      | 161         | 20              |        |                 |
| 6.3.30.4 | 3x300        | 11,9               | 8,1  | 3155              | 57    |      |                    |                   |       | 48             | 12 | 22      | 114         | 10              |        |                 |
| 6.3.35.4 | 3x350        | 14,5               | 9,7  | 4343              | 62    |      |                    |                   |       | 48             | 12 | 22      | 116         | 10              |        |                 |
| 6.3.40.4 | 3x400        | 26,3               | 17,6 | 7339              | 64    | 20,6 | 14,0               | 5156              | 54    | 91             | 16 | 35      | 169         | 20              |        |                 |
| 6.3.45.4 | 3x450        | 45,2               | 30,0 | 13139             | 69    | 34,1 | 23,1               | 8600              | 60    | 146            | 16 | 35      | 228         | 32              |        |                 |
| 6.4.30.4 | 4x300        | 15,5               | 10,4 | 4095              | 58    |      |                    |                   |       | 61             | 16 | 28      | 138         | 14              |        |                 |
| 6.4.35.4 | 4x350        | 19,2               | 12,8 | 5609              | 63    |      |                    |                   |       | 61             | 16 | 28      | 139         | 14              |        |                 |
| 6.4.40.4 | 4x400        | 32,4               | 21,6 | 9240              | 65    | 25,5 | 17,3               | 6439              | 55    | 110            | 16 | 35      | 200         | 24              |        |                 |

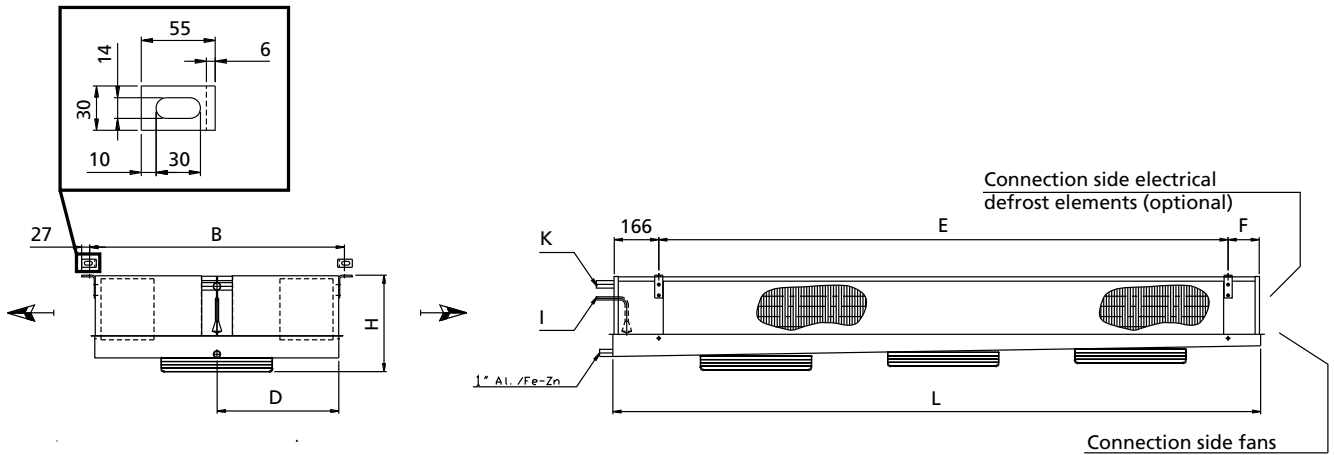
\* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487



| Type     | Fan diameter | 1x230V-50Hz-4 pole |      |                   |       |      | 1x230V-50Hz-6 pole |                   |       |                |    | Surface | Connections |                 | Weight | Internal volume |
|----------|--------------|--------------------|------|-------------------|-------|------|--------------------|-------------------|-------|----------------|----|---------|-------------|-----------------|--------|-----------------|
|          |              | SC1                | SC2  |                   |       |      | SC1                | SC2               |       |                |    |         | I           | K               |        |                 |
| FC38D    | mm           | kW                 | kW   | m <sup>3</sup> /h | dB(A) | kW   | kW                 | m <sup>3</sup> /h | dB(A) | m <sup>2</sup> | mm | mm      | kg          | dm <sup>3</sup> |        |                 |
| 6.1.30.7 | 1x300        | 3,2                | 2,2  | 1262              | 52    |      |                    |                   |       | 10             | 12 | 12      | 51          | 4               |        |                 |
| 6.1.35.7 | 1x350        | 4,8                | 3,2  | 2004              | 57    |      |                    |                   |       | 12             | 12 | 22      | 62          | 6               |        |                 |
| 6.2.30.7 | 2x300        | 6,4                | 4,3  | 2480              | 55    |      |                    |                   |       | 18             | 12 | 22      | 77          | 8               |        |                 |
| 6.2.35.7 | 2x350        | 8,7                | 5,8  | 3706              | 60    |      |                    |                   |       | 21             | 12 | 22      | 87          | 8               |        |                 |
| 6.2.40.7 | 2x400        | 14,2               | 9,4  | 5793              | 63    | 11,7 | 8,0                | 4197              | 53    | 36             | 12 | 22      | 114         | 14              |        |                 |
| 6.2.45.7 | 2x450        | 23,9               | 16,0 | 10019             | 68    | 18,9 | 12,8               | 6703              | 58    | 57             | 16 | 28      | 145         | 20              |        |                 |
| 6.3.30.7 | 3x300        | 10,2               | 6,9  | 3795              | 57    |      |                    |                   |       | 29             | 12 | 22      | 107         | 10              |        |                 |
| 6.3.35.7 | 3x350        | 12,4               | 8,2  | 5320              | 62    |      |                    |                   |       | 29             | 12 | 22      | 109         | 10              |        |                 |
| 6.3.40.7 | 3x400        | 21,7               | 14,5 | 8695              | 64    | 17,8 | 12,0               | 6299              | 54    | 55             | 16 | 28      | 154         | 20              |        |                 |
| 6.3.45.7 | 3x450        | 36,7               | 24,3 | 15125             | 69    | 28,8 | 19,4               | 10128             | 60    | 88             | 16 | 35      | 203         | 32              |        |                 |
| 6.4.30.7 | 4x300        | 13,0               | 8,7  | 4964              | 58    |      |                    |                   |       | 36             | 12 | 22      | 128         | 14              |        |                 |
| 6.4.35.7 | 4x350        | 15,9               | 10,5 | 6912              | 63    |      |                    |                   |       | 36             | 16 | 22      | 129         | 14              |        |                 |
| 6.4.40.7 | 4x400        | 27,2               | 18,1 | 11135             | 65    | 22,4 | 15,1               | 7999              | 55    | 66             | 16 | 28      | 181         | 24              |        |                 |

\* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

# F38Dp(dx) - R404A

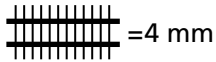


## Declarations

|                           |                                      |
|---------------------------|--------------------------------------|
| Connection $\leq$ 35 mm   | : Declaration of incorporation (SEP) |
| Connection 42mm and 54 mm | : module A                           |
| Group of fluid            | : 2                                  |
| PS                        | : 28 bar                             |
| TS                        | : +55 / -40 °C                       |

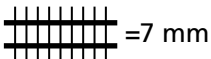
| Type     | Dimensions |      |     |     |      |     | Electrical defrost at 3x400V-50Hz |        |           |        | Standard | Light | Dimensions & Electrical defrost |    |      |
|----------|------------|------|-----|-----|------|-----|-----------------------------------|--------|-----------|--------|----------|-------|---------------------------------|----|------|
|          | L          | B    | H   | D   | E    | F   | Coil block                        |        | Drip tray |        |          |       |                                 | kW | kW** |
|          |            |      |     |     |      |     | number                            | O [mm] | number    | O [mm] |          |       |                                 |    |      |
| FC38D    | mm         | mm   | mm  | mm  | mm   | mm  |                                   |        |           |        |          |       |                                 |    |      |
| 6.1.30.* | 925        | 850  | 280 | 405 | 575  | 166 | 2x L=1600                         | 132    | 2x L=1600 | 150    | 2,5      |       |                                 |    |      |
| 6.1.35.* | 1080       | 850  | 280 | 405 | 730  | 166 | 2x L=1900                         | 132    | 2x L=1900 | 150    | 3,0      |       |                                 |    |      |
| 6.2.30.* | 1425       | 850  | 280 | 405 | 1075 | 166 | 2x L=2500                         | 132    | 2x L=2500 | 150    | 4,1      |       |                                 |    |      |
| 6.2.35.* | 1570       | 850  | 280 | 405 | 1220 | 166 | 2x L=2800                         | 132    | 2x L=2800 | 150    | 4,6      |       |                                 |    |      |
| 6.2.40.* | 1775       | 950  | 390 | 455 | 1425 | 166 | 4x L=3100                         | 132    | 2x L=3400 | 150    | 8        | 6,1   |                                 |    |      |
| 6.2.45.* | 2025       | 1000 | 465 | 480 | 1675 | 166 | 4x L=3700                         | 132    | 2x L=3700 | 150    | 9,3      | 7,0   |                                 |    |      |
| 6.3.30.* | 2025       | 850  | 280 | 405 | 1675 | 166 | 2x L=3700                         | 132    | 2x L=3700 | 150    | 6,2      |       |                                 |    |      |
| 6.3.35.* | 2025       | 850  | 280 | 405 | 1675 | 166 | 2x L=3700                         | 132    | 2x L=3700 | 150    | 6,2      |       |                                 |    |      |
| 6.3.40.* | 2475       | 950  | 390 | 455 | 2125 | 166 | 4x L=4600                         | 132    | 2x L=4600 | 150    | 11,6     | 8,8   |                                 |    |      |
| 6.3.45.* | 2850       | 1000 | 465 | 480 | 2550 | 116 | 4x L=5500                         | 132    | 2x L=5500 | 150    | 14,0     | 10,6  |                                 |    |      |
| 6.4.30.* | 2475       | 850  | 280 | 405 | 2125 | 166 | 2x L=4600                         | 132    | 2x L=4600 | 150    | 7,8      |       |                                 |    |      |
| 6.4.35.* | 2475       | 850  | 280 | 455 | 2125 | 166 | 2x L=4600                         | 132    | 2x L=4600 | 150    | 7,8      |       |                                 |    |      |
| 6.4.40.* | 2850       | 950  | 390 | 480 | 2550 | 116 | 4x L=5500                         | 132    | 2x L=5500 | 150    | 14,0     | 10,6  |                                 |    |      |

# F38Lp(dx) - R404A



| Type     | Fan diameter | 1x230V-50Hz-4 pole (1500 min <sup>-1</sup> nom.) |  |   |                   |                             | Surface        | Connections |    | Weight | Internal volume | Air cooler details |
|----------|--------------|--|--|---|-------------------|-----------------------------|----------------|-------------|----|--------|-----------------|--------------------|
|          |              | SC1<br>DT1 = 10K<br>Air on =10°C<br>0 / +10      | SC2<br>DT1 = 8K<br>Air on =0°C<br>-8 / 0 | SC3<br>DT1 = 7K<br>Air on =-18°C<br>-25 / -18 | Air volume        | LpA @ 3 m<br>(+/- 2 dB(A))* |                | I           | K  |        |                 |                    |
| FC38L    | mm           | kW   | kW                                       | kW  | m <sup>3</sup> /h | dB(A)                       | m <sup>2</sup> | mm          | mm | kg     | dm <sup>3</sup> |                    |
| 6.1.25.4 | 1x250        | 1,9  | 1,3                                      |   | 488               | 47                          | 9              | 12          | 12 | 15     | 2               |                    |
| 6.1.30.4 | 1x300        | 3,3  | 2,3                                      |   | 930               | 52                          | 13             | 12          | 12 | 20     | 3               |                    |
| 6.1.40.4 | 1x400        | 8,5  | 5,7                                      |   | 2386              | 60                          | 29             | 12          | 22 | 40     | 7               |                    |
| 6.2.25.4 | 2x250        | 3,8  | 2,6                                      |   | 977               | 50                          | 18             | 12          | 22 | 25     | 4               |                    |
| 6.2.30.4 | 2x300        | 6,8  | 4,6                                      |   | 1861              | 55                          | 26             | 12          | 22 | 35     | 6               |                    |
| 6.2.40.4 | 2x400        | 17,1   | 11,5                                     |   | 4770              | 63                          | 58             | 12          | 28 | 60     | 13              |                    |
| 6.3.30.4 | 3x300        | 10,4   | 7,0                                      |   | 2792              | 57                          | 39             | 12          | 22 | 45     | 9               |                    |
| 6.3.40.4 | 3x400        | 25,3   | 16,8                                     |   | 7156              | 64                          | 87             | 16          | 28 | 90     | 19              |                    |
| 6.4.30.4 | 4x300        | 13,8   | 9,3                                      |   | 3723              | 58                          | 52             | 16          | 22 | 60     | 11              |                    |

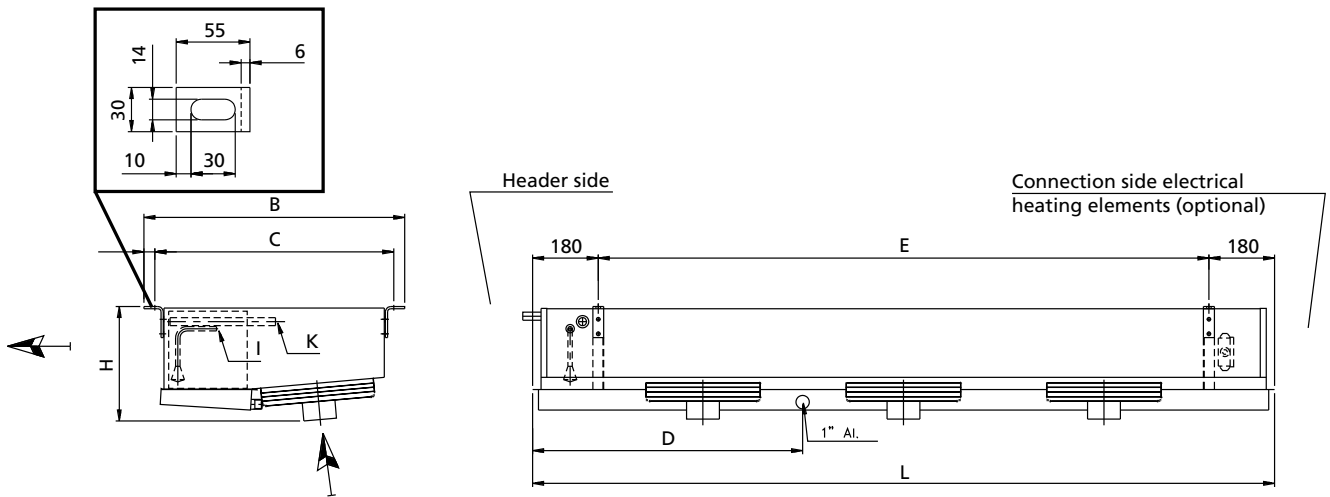
\* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487



| Type     | Fan diameter | 1x230V-50Hz-4 pole (1500 min <sup>-1</sup> nom.) |  |   |                   |                             | Surface        | Connections |    | Weight | Internal volume | Air cooler details |
|----------|--------------|--|--|---|-------------------|-----------------------------|----------------|-------------|----|--------|-----------------|--------------------|
|          |              | SC1<br>DT1 = 10K<br>Air on =10°C<br>0 / +10      | SC2<br>DT1 = 8K<br>Air on =0°C<br>-8 / 0 | SC3<br>DT1 = 7K<br>Air on =-18°C<br>-25 / -18 | Air volume        | LpA @ 3 m<br>(+/- 2 dB(A))* |                | I           | K  |        |                 |                    |
| FC38L    | mm           | kW   | kW                                       | kW  | m <sup>3</sup> /h | dB(A)                       | m <sup>2</sup> | mm          | mm | kg     | dm <sup>3</sup> |                    |
| 6.1.25.7 | 1x250        | 1,6  | 1,1                                      | 0,8   | 593               | 47                          | 5              | 12          | 12 | 15     | 2               |                    |
| 6.1.30.7 | 1x300        | 3,0  | 2,0                                      | 1,4   | 1157              | 52                          | 8              | 12          | 12 | 20     | 3               |                    |
| 6.1.40.7 | 1x400        | 7,0  | 4,6                                      | 3,4   | 2847              | 60                          | 17             | 12          | 22 | 30     | 7               |                    |
| 6.2.25.7 | 2x250        | 3,2  | 2,2                                      | 1,6   | 1186              | 50                          | 11             | 12          | 12 | 20     | 4               |                    |
| 6.2.30.7 | 2x300        | 6,0  | 4,0                                      | 2,9   | 2313              | 55                          | 16             | 12          | 22 | 30     | 6               |                    |
| 6.2.40.7 | 2x400        | 14,3   | 9,5                                      | 6,9   | 5695              | 63                          | 35             | 12          | 22 | 55     | 13              |                    |
| 6.3.30.7 | 3x300        | 9,1  | 6,1                                      | 4,3   | 3470              | 57                          | 23             | 12          | 22 | 40     | 9               |                    |
| 6.3.40.7 | 3x400        | 21,1   | 14,0                                     | 9,9   | 8543              | 64                          | 52             | 16          | 28 | 80     | 19              |                    |
| 6.4.30.7 | 4x300        | 12,2   | 8,1                                      | 5,8   | 4626              | 58                          | 31             | 12          | 22 | 55     | 11              |                    |

\* = Sound pressure indication (LpA) at 3 m distance each air cooler (+/- 2 dB(A)) , free field conditions, according EN13487

# F38Lp(dx) - R404A



## Declarations

|                           |                                      |
|---------------------------|--------------------------------------|
| Connection $\leq 35$ mm   | : Declaration of incorporation (SEP) |
| Connection 42mm and 54 mm | : module A                           |
| Group of fluid            | : 2                                  |
| PS                        | : 28 bar                             |
| TS                        | : +55 / -40 °C                       |

| Type     | Dimensions |     |     |      |      | Electrical defrost at 3x400V-50Hz |        |           |        | Standard | Dimensions & Electrical defrost |
|----------|------------|-----|-----|------|------|-----------------------------------|--------|-----------|--------|----------|---------------------------------|
|          | L          | B   | H   | E    | D1   | Coil block                        |        | Drip tray |        |          |                                 |
|          |            |     |     |      |      | number                            | O [mm] | number    | O [mm] |          |                                 |
| FC38L    | mm         | mm  | mm  | mm   | mm   | number                            | O [mm] | number    | O [mm] | kW       |                                 |
| 6.1.25.* | 890        | 705 | 280 | 530  | 245  | 2x L=1300                         | 132    | 1x L=1300 | 175    | 1,5      |                                 |
| 6.1.30.* | 990        | 705 | 315 | 630  | 295  | 2x L=1600                         | 132    | 1x L=1600 | 175    | 1,9      |                                 |
| 6.1.40.* | 1190       | 865 | 465 | 830  | 295  | 2x L=1900                         | 132    | 1x L=2200 | 175    | 3,2      |                                 |
| 6.2.25.* | 1390       | 705 | 280 | 1030 | 695  | 2x L=2500                         | 132    | 1x L=2500 | 175    | 3,1      |                                 |
| 6.2.30.* | 1590       | 705 | 315 | 1230 | 795  | 2x L=2800                         | 132    | 1x L=2800 | 175    | 3,5      |                                 |
| 6.2.40.* | 1990       | 865 | 465 | 1630 | 995  | 2x L=3700                         | 132    | 1x L=3700 | 175    | 4,7      |                                 |
| 6.3.30.* | 2190       | 705 | 315 | 1830 | 795  | 2x L=4000                         | 132    | 1x L=4000 | 175    | 5,0      |                                 |
| 6.3.40.* | 2790       | 865 | 465 | 2430 | 995  | 2x L=5200                         | 132    | 1x L=5200 | 175    | 6,6      |                                 |
| 6.4.30.* | 2790       | 705 | 315 | 2430 | 1395 | 2x L=5200                         | 132    | 1x L=5200 | 175    | 6,6      |                                 |