

**FRIGA-BOHN**

# NTA

Dual-discharge unit cooler  
Commercial range



**CO<sub>2</sub>**  
60 bar

**CO<sub>2</sub>**  
80 bar

**A2L**

**HFC**

**W**  
GLYCOL



|||| 0.9 - 22 kW



- # **Easy to install and use** as a result of its compactness, making it perfect for small spaces.
- # Easy access to all components for **easy cleaning** and **maintenance**.
- # **Comfort:** the directional airflow, the low air speed and the low noise level of the NTA help to create a comfortable environment.
- # **Energy efficiency:** with optimized performance, new refrigerants and the EC option, the NTA leads to real energy savings..

### COILS

- # Aluminium fins with 3.5 or 6 mm spacing.
- # Combined with grooved copper tubes, the coils are very efficient and compact.
- # Multi-refrigerant CO2, A2L and HFCs compatible coils.
- # Versions available:
  - Multi-refrigerant HFCs/A2L,
  - CO2 (60 or 80 bar).
  - WCO (glycol water, coolant).

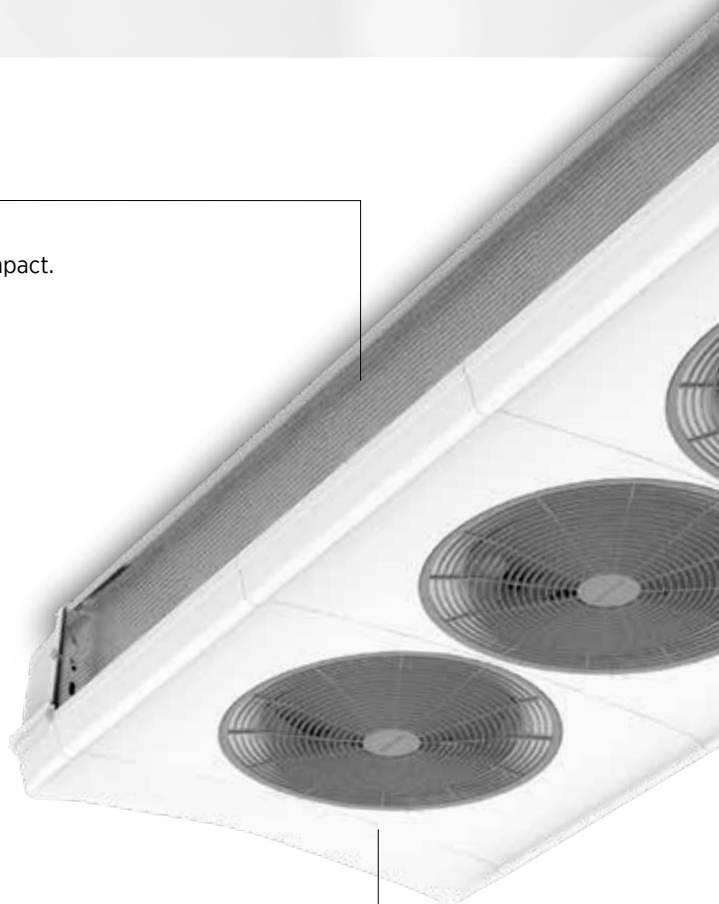
Select your coil treatment to extend  
your unit cooler's lifespan!  
Contact us.

### VENTILATION

- # Bell mounted electric fans Ø 350 mm.
- # The AC motor fans are of the closed, single-phase capacitor type, 230V/1/50-60Hz, IP 55, class F, with internal thermal protection.  
Available in version (depending on acceptable noise level):
  - HS (high speed) = 1,250 rpm. - 105 W max. / 0.5 A max.
  - LS (low speed) = 850 rpm. - 74 W max. / 0.45 A max.

#### OPTIONS

- |            |                                                                  |
|------------|------------------------------------------------------------------|
| <b>EC4</b> | EC motor fan - 4 speeds - 230V/1/50-60Hz.                        |
| <b>EC3</b> | EC motor fan - 2 "boost" speeds (max air flow) - 230V/1/50-60Hz. |
| <b>RCS</b> | Blower heater. <b>KIT TO INSTALL</b>                             |



## CASING

- # Removable grille and retractable casing made from recyclable ABS.
- # High resistance to thermal shock.
- # Horizontal condensate drain plug 1"G with screw thread.
- # Perfect hygiene as a result of the rounded corners that eliminate retention areas and through the use of protected steel and stainless steel fastening screws.
- # Internal drain pans avoiding condensation on the casing.
- # Increased safety due to the absence of sharp edges.

### OPTIONS

#### AFD

Deflectors to direct the air flow



## DEFROST

### OPTIONS

#### E1U

Light electric defrost.

#### E1K

Light electric defrost. **KIT TO INSTALL**

#### 2TH

**TH 5709L:** single-pole reversing thermostat for defrost end at +12 °C (±3 °C) and delayed ventilation restart at +2 °C (±3 °C) (kit to install).

**THS 5708L:** single-pole safety thermostat for heaters at +24 °C (±3 °C), recommended with electric defrost (kit to install).



### OPTIONS

#### PRK

Condensate lift pump. **KIT TO INSTALL**

#### EXT

Electronic expansion valve fitted. **CONTACT US**

#### DMP

Expansion valve fitted.

#### EEC

Complete factory-assembled unit cooler:

- Expansion valve.
- Solenoid valve.
- Pipework equipped with a fitted ball valve (role of the siphon performed by the manifold).

#### KVP

Pressostatic valve kit. **KIT TO INSTALL**

Save time during installation by choosing these additional options.

NTA M<sub>(A)</sub> OR<sub>(B)</sub> 1<sub>(C)</sub>-AC<sub>(D)</sub>

(A) **M** = multi-refrigerant - **C** = CO<sub>2</sub> - **W** = glycol water  
 (B) Fin spacing: **R** = 3.5 mm - **L** = 6 mm  
 (C) Number of fans  
 (D) **AC** = AC motor - **EC4** = EC motor - **EC3** = EC+ motor

The NTA is available with CO<sub>2</sub>,  
 A2Ls, HFCs and glycol water.  
 For more information,  
 please consult our software.

| CONDITIONS | REFRIGERANTS                 | NTA ... -AC |    |
|------------|------------------------------|-------------|----|
| SC1 (1)    | CO <sub>2</sub> - 60 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | R449A                        | HS*         | kW |
|            |                              | LS*         | kW |
| SC2 (1)    | CO <sub>2</sub> - 60 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | R449A                        | HS*         | kW |
|            |                              | LS*         | kW |

| NTA ... -AC                 |                         |         |       |
|-----------------------------|-------------------------|---------|-------|
| Sound pressure              | Lp 4 m (3)              | HS*     | dB(A) |
|                             |                         | LS*     | dB(A) |
| Fan<br>Ø 350 mm             | Airflow                 | Nb      |       |
|                             |                         | HS*     | m³/h  |
|                             | LS*                     | m³/h    |       |
|                             | Air throw (4)           | HS*     | m     |
|                             |                         | LS*     | m     |
|                             | 230 V/1<br>50-60 Hz (5) | HS*     | W max |
|                             |                         | LS*     | W max |
|                             |                         | HS*     | A max |
|                             |                         | LS*     | A max |
|                             | Surface area            |         | m²    |
| Circuit volume              |                         | dm³     |       |
| Electric defrost<br>EIK (6) | 230 V/1/50 Hz           | W total |       |
|                             |                         | A total |       |
| Connections<br>HFCs         | Inlet (7)               | Ø       |       |
|                             | Outlet (7)              | Ø ODF   |       |
| Net weight                  |                         | kg      |       |

## NTA M .. R .. -AC / NTA C .. R .. -AC

3.5 mm

| OR 1 | 1R 1 | 2R 2 | 3R 2 | 4R 2 | 5R 3 | 6R 3 | 7R 4 | 8R 4 | 9R 5 |
|------|------|------|------|------|------|------|------|------|------|
| 2,7  | 4,0  | 5,3  | 7,1  | 8,3  | 10,7 | 13,1 | 15,7 | 16,3 | 18,6 |
| 2,1  | 3,0  | 4,2  | 5,5  | 6,2  | 8,3  | 9,9  | 12,2 | 12,6 | 14,8 |
| 2,4  | 3,8  | 5,0  | 6,7  | 7,9  | 9,9  | 12,9 | 16,1 | 17,7 | 21,6 |
| 2,0  | 2,9  | 4,1  | 5,3  | 6,1  | 7,9  | 9,8  | 12,3 | 13,3 | 16,3 |
| 1,9  | 2,8  | 3,7  | 4,9  | 5,7  | 7,4  | 8,9  | 10,6 | 10,9 | 12,1 |
| 1,5  | 2,1  | 2,9  | 3,8  | 4,4  | 5,8  | 6,8  | 8,3  | 8,5  | 9,8  |
| 1,6  | 2,5  | 3,3  | 4,5  | 5,3  | 6,5  | 8,4  | 10,7 | 11,8 | 14,2 |
| 1,3  | 2,0  | 2,7  | 3,6  | 4,1  | 5,3  | 6,5  | 8,3  | 8,9  | 10,9 |

| OR 1   | 1R 1   | 2R 2   | 3R 2   | 4R 2   | 5R 3   | 6R 3   | 7R 4   | 8R 4   | 9R 5   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 38     | 38     | 41     | 41     | 41     | 42     | 42     | 44     | 44     | 44     |
| 29     | 29     | 32     | 32     | 32     | 34     | 34     | 35     | 35     | 36     |
| 1      | 1      | 2      | 2      | 2      | 3      | 3      | 4      | 4      | 5      |
| 1630   | 1460   | 3250   | 3070   | 2920   | 4610   | 4180   | 5840   | 5570   | 6960   |
| 1120   | 980    | 2230   | 2090   | 1970   | 3130   | 2810   | 3940   | 3740   | 4680   |
| 2 x 14 | 2 x 12 | 2 x 14 | 2 x 13 | 2 x 12 | 2 x 13 | 2 x 12 | 2 x 12 | 2 x 12 | 2 x 12 |
| 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 9  | 2 x 10 | 2 x 9  | 2 x 9  |
| 125    | 125    | 250    | 250    | 250    | 375    | 375    | 500    | 500    | 625    |
| 74     | 74     | 148    | 148    | 148    | 222    | 222    | 296    | 296    | 370    |
| 0,60   | 0,60   | 1,20   | 1,20   | 1,20   | 1,80   | 1,80   | 2,40   | 2,40   | 3,00   |
| 0,52   | 0,52   | 1,04   | 1,04   | 1,04   | 1,56   | 1,56   | 2,08   | 2,08   | 2,60   |
| 5,8    | 11,6   | 11,6   | 17,4   | 23,2   | 26,2   | 43,6   | 46,5   | 58,1   | 72,7   |
| 0,8    | 1,7    | 1,7    | 2,5    | 3,3    | 3,8    | 6,3    | 6,7    | 8,4    | 10,5   |
| 350    | 800    | 800    | 1200   | 1600   | 1800   | 3000   | 3200   | 3200   | 3440   |
| 1,5    | 3,5    | 3,5    | 5,2    | 7,0    | 7,8    | 13,0   | 13,9   | 13,9   | 14,8   |
| D 3/8" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 5/8" | D 5/8" |
| 3/8"   | 5/8"   | 5/8"   | 5/8"   | 5/8"   | 5/8"   | 7/8"   | 7/8"   | 1 1/8" | 1 1/8" |
| 18     | 20     | 27     | 30     | 32     | 42     | 49     | 59     | 63     | 77     |

\* HS = high speed: 1,250 rpm / LS = low speed: 850 rpm

(1) Standard conditions:

SC1 : +10 °C (air inlet temp.) / 0 °C (evaporating temp.) / DT1 = 10K

SC2 : 0 °C (air inlet temp.) / -8 °C (evaporating temp.) / DT1 = 8K

(2) Operating pressure - Specific coil - Connection diameters to be defined when ordering.

(3) Average sound pressure level in dB(A) calculated at 4 m, level with the blades, in a free field over a reflecting plane, given as an indication only.

(4) Residual air speed: 0.25 m/s.

(5) Adjustment of overload protection. For air temperatures "ti" other than +20 °C, multiply the intensities by the ratio 293/(273 + "ti") to obtain the approximate value of the intensity after heating the room.

(6) Electric defrost option.

(7) Distributor: male to solder - ODF: female to receive the tube of the same diameter.

(8) Standard net weight - Specific net weight For CO<sub>2</sub> 80 bar: contact us.

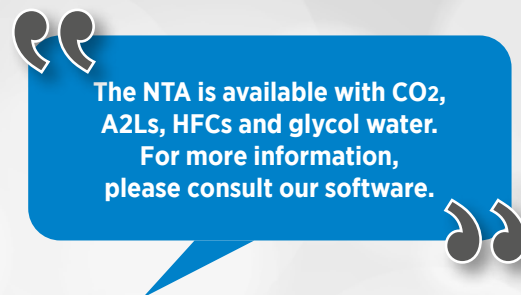
# NTA M<sub>(A)</sub> OL<sub>(B)</sub> 1<sub>(C)</sub>-AC<sub>(D)</sub>

(A) M = multi-refrigerant - C = CO<sub>2</sub> - W = glycol water

(B) Fin spacing: R = 3.5 mm - L = 6 mm

(C) Number of fans

(D) AC = AC motor - EC4 = EC motor - EC3 = EC+ motor



## NTA M .. L .. -AC / NTA C .. L .. -AC

6 mm

| CONDITIONS | REFRIGERANTS                 | NTA ... -AC |    |
|------------|------------------------------|-------------|----|
| SC1 (1)    | CO <sub>2</sub> - 60 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | CO <sub>2</sub> - 80 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | R449A                        | HS*         | kW |
|            |                              | LS*         | kW |
| SC2 (1)    | CO <sub>2</sub> - 60 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | CO <sub>2</sub> - 80 bar (2) | HS*         | kW |
|            |                              | LS*         | kW |
|            | R449A                        | HS*         | kW |
|            |                              | LS*         | kW |

| OL 1 | 1L 1 | 2L 2 | 3L 2 | 4L 2 | 5L 3 | 6L 3 | 7L 4 | 9L 5 |
|------|------|------|------|------|------|------|------|------|
| 2,0  | 3,7  | 5,6  | 6,8  | 7,7  | 10,2 | 11,4 | 14,4 | 16,9 |
| 1,6  | 2,8  | 4,4  | 5,2  | 5,8  | 7,9  | 8,7  | 11,3 | 13,5 |
| 1,7  | 3,3  | 4,9  | 6,1  | -    | -    | -    | -    | -    |
| 1,4  | 2,5  | 3,9  | 4,7  | -    | -    | -    | -    | -    |
| 1,7  | 3,3  | 4,7  | 5,9  | 6,8  | 8,7  | 10,3 | 13,3 | 17,3 |
| 1,4  | 2,6  | 3,8  | 4,7  | 5,4  | 7,0  | 8,0  | 10,4 | 13,4 |
| 1,4  | 2,6  | 3,9  | 4,7  | 5,3  | 7,0  | 7,8  | 9,7  | 11,1 |
| 1,1  | 2,0  | 3,0  | 3,6  | 4,1  | 5,5  | 6,0  | 7,7  | 9,1  |
| 1,2  | 2,3  | 3,4  | 4,3  | -    | -    | -    | -    | -    |
| 1,0  | 1,8  | 2,7  | 3,3  | -    | -    | -    | -    | -    |
| 1,1  | 2,2  | 3,1  | 4,0  | 4,6  | 5,8  | 6,9  | 8,8  | 11,7 |
| 0,9  | 1,8  | 2,5  | 3,2  | 3,6  | 4,7  | 5,5  | 7,0  | 9,2  |

|                             |                         |       | NTA ... -AC |       |
|-----------------------------|-------------------------|-------|-------------|-------|
| Sound pressure              | Lp 4 m (3)              |       | HS*         | dB(A) |
|                             |                         |       | LS*         | dB(A) |
| Fan<br>Ø 350 mm             |                         |       |             | Nb    |
|                             |                         |       | HS*         | m³/h  |
|                             | Airflow                 |       | LS*         | m³/h  |
|                             |                         |       |             |       |
|                             | Air throw (4)           |       | HS*         | m     |
|                             |                         |       | LS*         | m     |
|                             | 230 V/1<br>50-60 Hz (5) |       | HS*         | W max |
|                             |                         |       | LS*         | W max |
|                             |                         |       | HS*         | A max |
|                             |                         | LS*   | A max       |       |
| Surface area                |                         | m²    |             |       |
| Circuit volume              |                         | dm³   |             |       |
| Electric defrost<br>EIK (6) | 230 V/1/50 Hz           |       | W total     |       |
|                             |                         |       | A total     |       |
| Connections<br>HFCs         | Inlet (7)               | Ø     |             |       |
|                             | Outlet (7)              | Ø ODF |             |       |
| Net weight (8)              |                         | kg    |             |       |

| OL 1   | 1L 1   | 2L 2   | 3L 2   | 4L 2   | 5L 3   | 6L 3   | 7L 4   | 9L 5   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 38     | 38     | 41     | 41     | 41     | 42     | 42     | 44     | 44     |
| 29     | 29     | 32     | 32     | 32     | 34     | 34     | 35     | 36     |
| 1      | 1      | 2      | 2      | 2      | 3      | 3      | 4      | 5      |
| 1700   | 1500   | 3250   | 3120   | 3010   | 4680   | 4520   | 6020   | 7520   |
| 1170   | 1020   | 2230   | 2130   | 2040   | 3190   | 3060   | 4080   | 5100   |
| 2 x 15 | 2 x 13 | 2 x 14 | 2 x 13 | 2 x 13 | 2 x 13 | 2 x 13 | 2 x 13 | 2 x 13 |
| 2 x 11 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 | 2 x 10 |
| 125    | 125    | 250    | 250    | 250    | 375    | 375    | 500    | 625    |
| 74     | 74     | 148    | 148    | 148    | 222    | 222    | 296    | 370    |
| 0,60   | 0,60   | 1,20   | 1,20   | 1,20   | 1,80   | 1,80   | 2,40   | 3,00   |
| 0,52   | 0,52   | 1,04   | 1,04   | 1,04   | 1,56   | 1,56   | 2,08   | 2,60   |
| 3,5    | 8,9    | 10,6   | 14,2   | 17,7   | 21,3   | 26,6   | 35,5   | 44,3   |
| 0,8    | 2,1    | 2,5    | 3,3    | 4,2    | 5,0    | 6,3    | 8,4    | 10,5   |
| 350    | 800    | 800    | 1200   | 1600   | 1800   | 3000   | 3200   | 3440   |
| 1,5    | 3,5    | 3,5    | 5,2    | 7,0    | 7,8    | 13,0   | 13,9   | 14,8   |
| D 3/8" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 5/8" |
| 3/8"   | 5/8"   | 5/8"   | 5/8"   | 5/8"   | 5/8"   | 7/8"   | 7/8"   | 1 1/8" |
| 18     | 20     | 29     | 31     | 33     | 44     | 47     | 60     | 73     |

\* HS = high speed: 1250 rpm / LS = low speed: 850 rpm

(1) Standard conditions:

SC1 : +10 °C (air inlet temp.) / 0 °C (evaporating temp.) / DT1 = 10K

SC2 : 0 °C (air inlet temp.) / -8 °C (evaporating temp.) / DT1 = 8K

(2) Operating pressure - Specific coil - Connection diameters to be defined when ordering.

(3) Average sound pressure level in dB(A) calculated at 4 m, level with the blades, in a free field over a reflecting plane, given as an indication only.

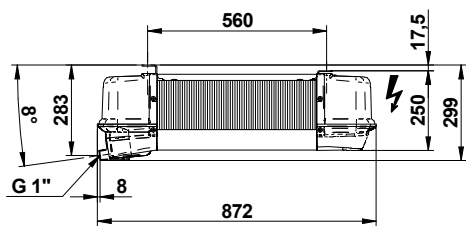
(4) Residual air speed: 0.25 m/s.

(5) Adjustment of overload protection. For air temperatures "ti" other than +20 °C, multiply the intensities by the ratio 293/(273 + "ti") to obtain the approximate value of the intensity after heating the room.

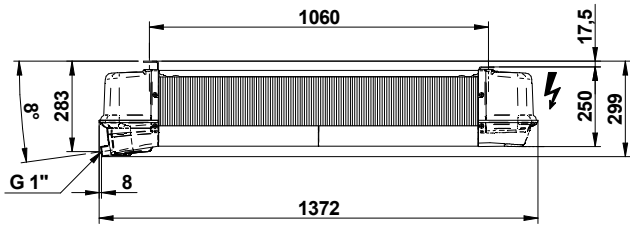
(6) Electric defrost option.

(7) Distributor: male to solder - ODF: female to receive the tube of the same diameter.

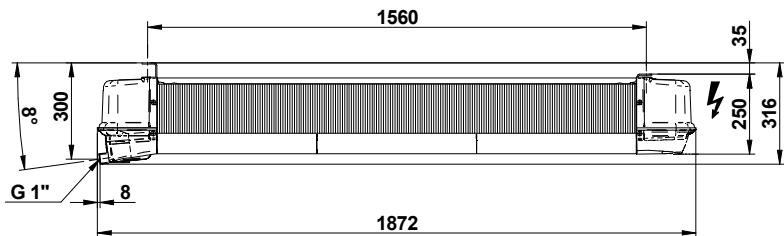
(8) Standard net weight - Specific net weight For CO<sub>2</sub> 80 bar: contact us.



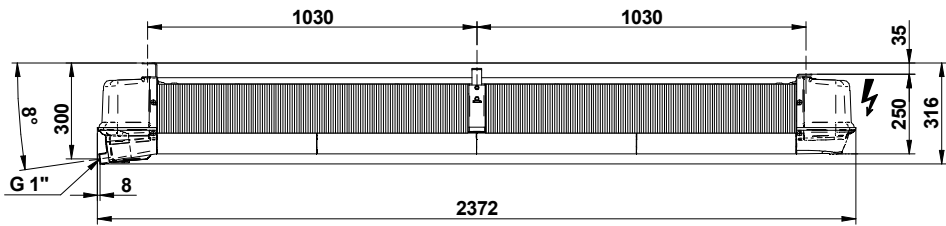
NTA ... 1



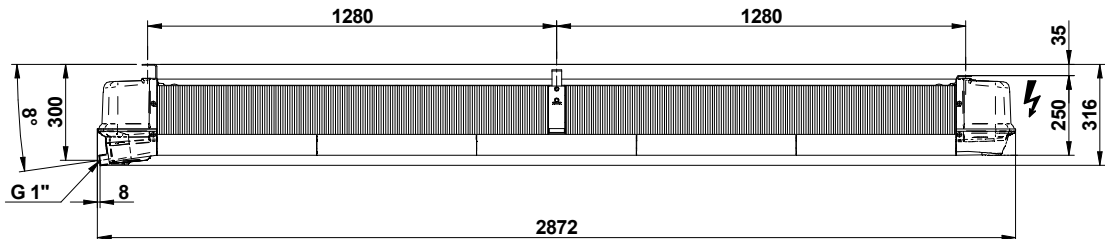
NTA ... 2



NTA ... 3



NTA ... 4



NTA ... 5

