

## NW

Unit cooler for blast freezing and rapid cooling tunnel  
Industrial range



CO<sub>2</sub>  
40 bar

CO<sub>2</sub>  
50 bar

HFC

W  
GLYCOL

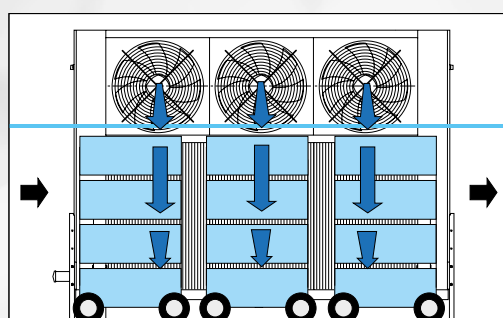


3.5 - 66 kW

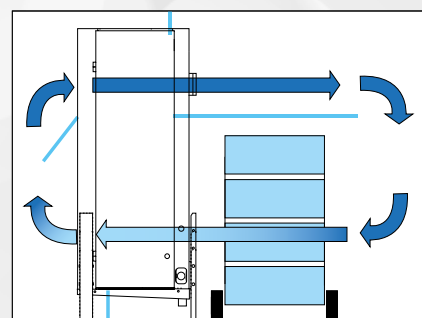


# NW | Unit cooler for blast freezing and rapid cooling tunnel

- # The NW is an asset for ensuring **fast, even freezing** of foodstuffs.
- # The design of the product and the selection of its components allow for **easy installation** and **maintenance**.



THE PRINCIPLE  
OF A BLAST  
FREEZING AND  
RAPID COOLING  
TUNNEL



## 1 CASING

- # Pre-painted galvanized steel for corrosion and impact resistance.
- # Limited condensation: presence of an aluminium interior drain pan under the main drain pan.

### OPTIONS

**ECB** Wooden crate packaging.

## 3 COILS

- # Aluminium fins with 6.35, 9 or 12 mm spacing.
- # Combined with copper tubes, the coils are very efficient and compact.
- # Versions available:
  - Multi-refrigerant HFCs.
  - CO2 (40 and 50 bar).
  - WCO (glycol water, coolant).

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## 2 VENTILATION

There are two types of motor fans on the NW range:

### Axial fans

- # A models, externally mounted, equipped with protective grilles.
- # Three-phase external rotor motors, 400 V, 50 Hz, IP54, class F, 4P (1,500 rpm), internal thermal protection.
- # Air pressure available up to 100 Pa.

### Centrifugal motor fans

- # C models, double inlet direct drive.
- # Three-phase motors protected by an enclosed casing, 230/400 V, 50 Hz, IP54, class F, 4P (1,000 rpm), internal thermal protection.
- # Air pressure available up to 200 Pa.

### OPTIONS

**CMU** Factory motor wiring.

## 4 DEFROST

### OPTIONS

**DAE** Water defrost (spraying).  
**EIU** Light electric defrost.  
**ECU** Additional electric coil defrost.  
**ECK** Additional electric coil defrost. [KIT TO INSTALL](#)  
**HGT** Hot gases (coil and drain pan).  
**RVU** Shell defrost heaters.  
**RVK** Shell defrost heaters. [KIT TO INSTALL](#)

## INSTALLATION | MAINTENANCE

- # Installed against a wall, it allows maximum charging of the cold room.
- # Height-adjustable support feet promote even air distribution over the products.
- # Floor mounting for easy installation and maintenance.
- # Two possible blowing positions: horizontal (H2) and vertical (H4) for centrifugal pressure only.
- # Easy maintenance: easily removable aluminium main drain pan, hinged side panels for quick access to electrical and refrigeration connections.



Accessibility

# NW 12<sup>(A)</sup> A1<sup>(B)</sup> R<sup>(C)</sup> 100Pa<sup>(D)</sup>

- (A) Model
- (B) **A** = Axial fan - **C** = Centrifugal fan / **1** = Number
- (D) Fin spacing: **R** = 6.35 mm (positive) **C** = 6.35 mm (negative)
  - L** = 9 mm (positive) **S** = 9 mm (negative)
  - M** = 12 mm (positive) **T** = 12 mm (negative)
- (D) Available pressure

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

0 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... R
	<b>SC2</b> (2)	<b>CO<sub>2</sub> - 50 bar</b> (3)	
		<b>R449A</b>	<b>kW</b>
	Airflow		<b>m<sup>3</sup>/h</b>
	Air throw (4)		<b>m</b>

100 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... R
	<b>SC2</b> (2)	<b>CO<sub>2</sub> - 50 bar</b> (3)	
		<b>R449A</b>	<b>kW</b>
	Airflow		<b>m<sup>3</sup>/h</b>
	Air throw (4)		<b>m</b>

			12 A1	14 A1	25 A2	30 A2	45 A3	60 A4
Surface area		<b>m<sup>2</sup></b>	44,7	59,6	89,4	119,1	178,7	238,3
Circuit volume		<b>dm<sup>3</sup></b>	12,6	16,8	25,1	33,5	50,3	67,0
Fan	<b>Ø 560 mm</b>	<b>Nb</b>	1	1	2	2	3	4
1,500 rpm	400 V/3/50 Hz	<b>W max</b>	1200	1200	2400	2400	3600	4800
		<b>A max</b>	2,4	2,4	4,8	4,8	7,2	9,6
Acoustics	<b>Lp 4m</b> (5)	<b>dB(A)</b>	52	52	55	55	57	58
		<b>Lw</b>	<b>dB(A)</b>	82	82	85	85	87
Electric defrost <b>EIU</b> (6)	Coil + drain pan	<b>Nb</b>	4+2	7+2	4+2	7+2	7+2	7+2
		<b>W Total</b>	3900	5850	6600	9900	14400	22500
	230-400 V/3/50 Hz	<b>A Total</b>	9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5
Connections <b>HFCs</b>	Inlet	<b>Ø</b>	5/8"	5/8"	7/8"	7/8"	1 1/8"	1 3/8"
	Outlet	<b>Ø</b>	1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
Net weight		<b>kg</b>	180	195	280	305	420	530

## NW ... R - Axial fans

 **6.35 mm**

	12 A1	14 A1	25 A2	30 A2	45 A3	60 A4
	<b>12,8</b>	<b>14,7</b>	<b>25,2</b>	<b>29,6</b>	<b>44,6</b>	<b>59,5</b>
	<b>13,4</b>	<b>16,1</b>	<b>27,4</b>	<b>32,7</b>	<b>49,5</b>	<b>66,2</b>
	7920	7590	15840	15190	22780	30380
	19	18	22	21	26	30

	12 A1	14 A1	25 A2	30 A2	45 A3	60 A4
	<b>11,0</b>	<b>12,3</b>	<b>21,7</b>	<b>24,7</b>	<b>37,2</b>	<b>49,7</b>
	<b>11,7</b>	<b>13,8</b>	<b>23,9</b>	<b>28,0</b>	<b>42,2</b>	<b>56,3</b>
	6000	5640	12000	11290	16940	22580
	15	14	17	16	20	23

	12 A1	14 A1	25 A2	30 A2	45 A3	60 A4
	44,7	59,6	89,4	119,1	178,7	238,3
	12,6	16,8	25,1	33,5	50,3	67,0
	1	1	2	2	3	4
	1200	1200	2400	2400	3600	4800
	2,4	2,4	4,8	4,8	7,2	9,6
	52	52	55	55	57	58
	82	82	85	85	87	88
	4+2	7+2	4+2	7+2	7+2	7+2
	3900	5850	6600	9900	14400	22500
	9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5
	5/8"	5/8"	7/8"	7/8"	1 1/8"	1 3/8"
	1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
	180	195	280	305	420	530

200 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... R
	<b>SC2</b> (2)	<b>CO<sub>2</sub> - 50 bar</b> (3)	
		<b>R449A</b>	<b>kW</b>
	Airflow		<b>m<sup>3</sup>/h</b>
	Air throw (4)		<b>m</b>

			12 C1	14 C1	24 C2	28 C2	43 C3	58 C4
Surface area		<b>m<sup>2</sup></b>	44,7	59,6	89,4	119,1	178,7	238,3
Circuit volume		<b>dm<sup>3</sup></b>	12,6	16,8	25,1	33,5	50,3	67,0
Turbine	<b>12/12</b>	<b>Nb</b>	1	1	2	2	3	4
1,000 rpm	230-400 V/3/50 Hz	<b>W max</b>	1300	1300	2600	2600	3900	5200
		<b>A max</b>	3,4	3,4	3,4	3,4	3,4	3,4
Acoustics	<b>Lp 4m</b> (5)	<b>dB(A)</b>	51	52	55	55	56	58
		<b>Lw</b>	<b>dB(A)</b>	81	82	85	85	86
Electric defrost <b>EIU</b> (6)	Coil + drain pan	<b>Nb</b>	4+2	7+2	4+2	7+2	7+2	7+2
		<b>W Total</b>	3900	5850	6600	9900	14400	22500
	230-400 V/3/50 Hz	<b>A Total</b>	9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5
Connections <b>HFCs</b>	Inlet	<b>Ø</b>	5/8"	5/8"	7/8"	7/8"	1 1/8"	1 3/8"
	Outlet	<b>Ø</b>	1 1/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
Net weight		<b>kg</b>	180	195	280	305	420	530

## NW ... R - Centrifugal

 **6.35 mm**

	12 C1	14 C1	24 C2	28 C2	43 C3	58 C4
	<b>10,7</b>	<b>12,3</b>	<b>21,3</b>	<b>24,8</b>	<b>33,8</b>	<b>47,1</b>
	<b>12,0</b>	<b>14,6</b>	<b>24,8</b>	<b>29,5</b>	<b>44,4</b>	<b>59,4</b>
	5770	5770	11880	11540	17300	23070
	18	18	22	21	25	28

# NW 12<sup>(A)</sup> A1<sup>(B)</sup> C<sup>(C)</sup> 100Pa<sup>(D)</sup>

(A) Model

(B) A = Axial fan - C = Centrifugal fan / 1 = Number

(D) Fin spacing: R = 6.35 mm (positive) C = 6.35 mm (negative)

L = 9 mm (positive) S = 9 mm (negative)

M = 12 mm (positive) T = 12 mm (negative)

(D) Available pressure



0 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... C
	SC3 (2)		CO <sub>2</sub> - 50 bar (3)
		R449A	kW
SC4 (2)		CO <sub>2</sub> - 50 bar (3)	kW
		R449A	kW
	Airflow		m <sup>3</sup> /h
	Air throw (4)		m

100 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... C
	SC3 (2)		CO <sub>2</sub> - 50 bar (3)
		R449A	kW
SC4 (2)		CO <sub>2</sub> - 50 bar (3)	kW
		R449A	kW
	Airflow		m <sup>3</sup> /h
	Air throw (4)		m

Surface area		m <sup>2</sup>
Circuit volume		dm <sup>3</sup>
Fan	Ø 560 mm	Nb
1,500 rpm	400 V/3/50 Hz	W max
		A max
Acoustics	Lp 4m (5)	dB(A)
	Lw	dB(A)
Electric defrost standard	Coil + drain pan	Nb
	230-400 V/3/50 Hz	W Total
		A Total
Connections HFCs	Inlet	Ø
	Outlet	Ø
Net weight		kg

## NW ... C - Axial fans

6.35 mm

12 A1	14 A1	25 A2	29 A2	45 A3	60 A4
10,4	12,4	21,0	24,9	37,2	47,7
9,5	11,5	19,5	23,6	35,3	47,4
8,4	10,0	16,9	20,3	30,2	38,4
7,4	9,0	15,3	18,6	27,5	37,1
7920	7590	15840	15190	22780	30380
19	18	22	21	26	30

12 A1	14 A1	25 A2	29 A2	45 A3	60 A4
9,0	9,9	18,1	20,0	31,1	40,3
8,4	9,9	17,2	20,4	30,9	41,6
7,3	8,4	14,7	16,2	25,4	32,7
6,6	7,9	13,5	16,2	24,3	32,7
6000	5640	12000	11290	16940	22580
15	14	17	16	20	23

12 A1	14 A1	25 A2	29 A2	45 A3	60 A4
44,7	59,6	89,4	119,1	178,7	238,3
12,6	16,8	25,1	33,5	50,3	67,0
1	1	2	2	3	4
1200	1200	2400	2400	3600	4800
2,4	2,4	4,8	4,8	7,2	9,6
52	52	55	55	57	58
82	82	85	85	87	88
7+2	10+2	7+2	10+2	10+2	10+2
5850	7800	9900	13200	19200	30000
8.4	11.3	14.3	19.1	27.7	43.3
5/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"
1 3/8"	1 5/8"	2 1/8"	2 1/8"	2 1/8"	2 5/8"
180	195	280	305	420	530

(1) Additional available air pressure in pascals.

(2) Standard conditions:

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

SC3 / -18 °C (air inlet temp.) / -25 °C (evaporating temp.) / DT1 = 7K

SC4 / -25 °C (air inlet temp.) / -31 °C (evaporating temp.) / DT1 = 6K

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

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

(5) 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.


(6) Electric defrost option.

(5) 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.


# NW 12<sup>(A)</sup> A1<sup>(B)</sup> R<sup>(C)</sup> 100Pa<sup>(D)</sup>

- (A) Model  
 (B) **A** = Axial fan - **C** = Centrifugal fan / **1** = Number  
 (D) Fin spacing: **R** = 6.35 mm (positive) **C** = 6.35 mm (negative)  
**L** = 9 mm (positive) **S** = 9 mm (negative)  
**M** = 12 mm (positive) **T** = 12 mm (negative)  
 (D) Available pressure

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


0 Pa (1)	CONDITIONS		REFRIGERANTS	NW ... L	NW ... L - Axial fans 					
	SC2 (2)		CO <sub>2</sub> - 40 bar (3) R449A	kW	9 A1	11 A1	20 A2	24 A2	36 A3	49 A4
	Airflow			kW	10,6	12,5	21,3	25,2	38,2	50,7
	Air throw (4)			m <sup>3</sup> /h	9,3	11,9	19,6	24,4	36,7	49,4
				m	8070	7770	16130	15530	23300	31070
					21	21	25	24	29	34

100 Pa (1)	CONDITIONS		REFRIGERANTS	NW ... L	NW ... L - Axial fans 					
	SC2 (2)		CO <sub>2</sub> - 40 bar (3) R449A	kW	9 A1	11 A1	20 A2	24 A2	36 A3	49 A4
	Airflow			kW	9,2	10,6	18,5	21,5	32,2	43,1
	Air throw (4)			m <sup>3</sup> /h	8,3	10,5	17,6	21,6	32,4	43,7
				m	6230	5870	12460	11740	17610	23480
					17	16	20	19	23	27

				9 A1	11 A1	20 A2	24 A2	36 A3	49 A4
Surface area			m <sup>2</sup>	40,8	54,4	81,7	108,9	163,3	217,7
Circuit volume			dm <sup>3</sup>	15,9	21,1	31,7	42,3	63,4	84,5
Fan	Ø 560 mm		Nb	1	1	2	2	3	4
1,500 rpm	400 V/3/50 Hz		W max	1200	1200	2400	2400	3600	4800
			A max	2,4	2,4	4,8	4,8	7,2	9,6
Acoustics	Lp 4m (5)		dB(A)	52	52	55	55	57	58
	Lw		dB(A)	82	82	85	85	87	88
Electric defrost	Coil + drain pan		Nb	4+2	7+2	4+2	7+2	7+2	7+2
EIU (6)	230-400 V/3/50 Hz		W Total	3900	5850	6600	9900	14400	22500
			A Total	9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5
Connections HFCs	Inlet		Ø	5/8"	5/8"	5/8"	7/8"	7/8"	1"1/8
	Outlet		Ø	1"1/8	1"1/8	1"3/8	1"5/8	2"1/8	2"1/8
Net weight			kg	185	205	295	325	445	565

200 Pa (1)	CONDITIONS		REFRIGERANTS	NW ... L	NW ... L - Centrifugal 					
	SC2 (2)		CO <sub>2</sub> - 40 bar (3) R449A	kW	9 C1	10 C1	18 C2	22 C2	33 C3	44 C4
	Airflow			kW	9,0	10,3	18,0	20,9	28,5	42,2
	Air throw (4)			m <sup>3</sup> /h	8,1	10,1	16,7	20,6	31,7	42,5
				m	5850	5700	11700	11400	17110	22810
					19	18	23	22	26	29

				9 C1	10 C1	18 C2	22 C2	33 C3	44 C4
Surface area			m <sup>2</sup>	40,8	54,4	81,7	108,9	163,3	217,7
Circuit volume			dm <sup>3</sup>	15,9	21,1	31,7	42,3	63,4	84,5
Turbine	12/12		Nb	1	1	2	2	3	4
1,000 rpm	230-400 V/3/50 Hz		W max	1300	1300	2600	2600	3900	5200
			A max	3,4	3,4	3,4	3,4	3,4	3,4
Acoustics	Lp 4m (5)		dB(A)	52	51	55	54	56	57
	Lw		dB(A)	82	81	85	84	86	87
Electric defrost	Coil + drain pan		Nb	4+2	7+2	4+2	7+2	7+2	7+2
EIU (6)	230-400 V/3/50 Hz		W Total	3900	5850	6600	9900	14400	22500
			A Total	9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5
Connections HFCs	Inlet		Ø	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"
	Outlet		Ø	1"1/8	1"1/8	1"3/8	1"5/8	1"5/8	2"1/8
Net weight			kg	185	205	295	325	445	565

# NW 12<sup>(A)</sup> A1<sup>(B)</sup> C<sup>(C)</sup> 100Pa<sup>(D)</sup>

- (A) Model  
 (B) **A** = Axial fan - **C** = Centrifugal fan / **1** = Number  
 (D) Fin spacing: **R** = 6.35 mm (positive) **C** = 6.35 mm (negative)  
**L** = 9 mm (positive) **S** = 9 mm (negative)  
**M** = 12 mm (positive) **T** = 12 mm (negative)  
 (D) Available pressure



0 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... S
	<b>SC3</b> (2)	<b>CO<sub>2</sub> - 40 bar</b> (3)	
		<b>R449A</b>	<b>kW</b>
<b>SC4</b> (2)	<b>CO<sub>2</sub> - 40 bar</b> (3)		<b>kW</b>
		<b>R449A</b>	<b>kW</b>
	Airflow		<b>m<sup>3</sup>/h</b>
	Air throw (4)		<b>m</b>

100 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... S
	<b>SC3</b> (2)	<b>CO<sub>2</sub> - 40 bar</b> (3)	
		<b>R449A</b>	<b>kW</b>
<b>SC4</b> (2)	<b>CO<sub>2</sub> - 40 bar</b> (3)		<b>kW</b>
		<b>R449A</b>	<b>kW</b>
	Airflow		<b>m<sup>3</sup>/h</b>
	Air throw (4)		<b>m</b>

Surface area		<b>m<sup>2</sup></b>
Circuit volume		<b>dm<sup>3</sup></b>
Fan	<b>Ø 560 mm</b>	<b>Nb</b>
1,500 rpm	400 V/3/50 Hz	<b>W max</b>
		<b>A max</b>
Acoustics	<b>Lp 4m</b> (5)	<b>dB(A)</b>
	<b>Lw</b>	<b>dB(A)</b>
Electric defrost standard	Coil + drain pan	<b>Nb</b>
	230-400 V/3/50 Hz	<b>W Total</b>
		<b>A Total</b>
Connections <b>HFCs</b>	Inlet	<b>Ø</b>
	Outlet	<b>Ø</b>
Net weight		<b>kg</b>

## NW ... S - Axial fans

9 A1	11 A1	19 A2	24 A2	36 A3	48 A4
<b>8,6</b>	<b>9,9</b>	<b>17,5</b>	<b>20,1</b>	<b>31,6</b>	<b>42,1</b>
<b>6,2</b>	<b>7,8</b>	<b>12,2</b>	<b>16,3</b>	<b>24,6</b>	<b>33,2</b>
<b>6,8</b>	<b>7,7</b>	<b>13,8</b>	<b>15,8</b>	<b>25,0</b>	<b>33,3</b>
<b>4,6</b>	<b>5,8</b>	<b>9,0</b>	<b>12,3</b>	<b>18,5</b>	<b>25,2</b>
8070	7770	16130	15530	23300	31070
21	21	25	24	29	34

9 A1	11 A1	19 A2	24 A2	36 A3	48 A4
<b>7,6</b>	<b>8,6</b>	<b>15,3</b>	<b>17,4</b>	<b>26,9</b>	<b>35,8</b>
<b>5,6</b>	<b>7,1</b>	<b>11,1</b>	<b>14,6</b>	<b>22,0</b>	<b>29,8</b>
<b>6,0</b>	<b>6,8</b>	<b>12,1</b>	<b>13,8</b>	<b>21,4</b>	<b>28,6</b>
<b>4,2</b>	<b>5,3</b>	<b>8,2</b>	<b>11,0</b>	<b>16,7</b>	<b>22,8</b>
6230	5870	12460	11740	17610	23480
17	16	20	19	23	27

9 A1	11 A1	19 A2	24 A2	36 A3	48 A4
40,8	54,4	81,7	108,9	163,3	217,7
15,9	21,1	31,7	42,3	63,4	84,5
1	1	2	2	3	4
1200	1200	2400	2400	3600	4800
2,4	2,4	4,8	4,8	7,2	9,6
52	52	55	55	57	58
82	82	85	85	87	88
7+2	10+2	7+2	10+2	10+2	10+2
5850	7800	9900	13200	19200	30000
8.4	11.3	14.3	19.1	27.7	43.3
5/8"	5/8"	7/8"	7/8"	1 1/8"	1 1/8"
1 3/8"	1 3/8"	1 5/8"	2 1/8"	2 1/8"	2 5/8"
185	205	295	325	445	565

(1) Additional available air pressure in pascals.

(2) Standard conditions:

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

SC3 / -18 °C (air inlet temp.) / -25 °C (evaporating temp.) / DT1 = 7K

SC4 / -25 °C (air inlet temp.) / -31 °C (evaporating temp.) / DT1 = 6K

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

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

(5) 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.

(6) Electric defrost option.

# NW 12<sup>(A)</sup> A1<sup>(B)</sup> R<sup>(C)</sup> 100Pa<sup>(D)</sup>

- (A) Model  
 (B) **A** = Axial fan - **C** = Centrifugal fan / **1** = Number  
 (D) Fin spacing: **R** = 6.35 mm (positive) **C** = 6.35 mm (negative)  
**L** = 9 mm (positive) **S** = 9 mm (negative)  
**M** = 12 mm (positive) **T** = 12 mm (negative)  
 (D) Available pressure

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

0 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... M
	SC2 (2)	CO <sub>2</sub> - 40 bar (3) R449A	kW kW
	Airflow	m <sup>3</sup> /h	
	Air throw (4)	m	

100 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... M
	SC2 (2)	CO <sub>2</sub> - 40 bar (3) R449A	kW kW
	Airflow	m <sup>3</sup> /h	
	Air throw (4)	m	

Surface area		m <sup>2</sup>
Circuit volume		dm <sup>3</sup>
Fan	Ø 560 mm	Nb
1,500 rpm	400 V/3/50 Hz	W max A max
Acoustics	Lp 4m (5) Lw	dB(A) dB(A)
Electric defrost	Coil + drain pan	Nb
EIU (6)	230-400 V/3/50 Hz	W Total A Total
Connections HFCs	Inlet Outlet	Ø Ø
Net weight		kg

## NW ... M - Axial fans

12 mm

9 A1	11 A1	19 A2	23 A2	34 A3	47 A4
8,5	10,4	17,0	20,9	29,8	41,9
8,4	10,5	17,2	21,5	32,3	43,7
8230	7950	16460	15900	23840	31790
22	21	26	25	30	34

9 A1	11 A1	19 A2	23 A2	34 A3	47 A4
7,5	9,0	15,0	18,1	26,2	36,3
7,5	9,3	15,4	19,1	28,6	38,6
6420	6080	12850	12170	18250	24340
17	17	21	20	24	27

9 A1	11 A1	19 A2	23 A2	34 A3	47 A4
31,7	42,3	63,4	84,5	126,8	169,0
15,9	21,1	31,7	42,3	63,4	84,5
1	1	2	2	3	4
1200	1200	2400	2400	3600	4800
2,4	2,4	4,8	4,8	7,2	9,6
52	52	55	55	57	58
82	82	85	85	87	88
4+2	7+2	4+2	7+2	7+2	7+2
3900	5850	6600	9900	14400	22500
9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5

## NW ... M - Centrifugal

12 mm

200 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... M
	SC2 (2)	CO <sub>2</sub> - 40 bar (3) R449A	kW kW
	Airflow	m <sup>3</sup> /h	
	Air throw (4)	m	

Surface area		m <sup>2</sup>
Circuit volume		dm <sup>3</sup>
Turbine	12/12	Nb
1,000 rpm	230-400 V/3/50 Hz	W max A max
Acoustics	Lp 4m (5) Lw	dB(A) dB(A)
Electric defrost	Coil + drain pan	Nb
EIU (6)	230-400 V/3/50 Hz	W Total A Total
Connections HFCs	Inlet Outlet	Ø Ø
Net weight		kg

8 C1	10 C1	17 C2	21 C2	31 C3	42 C4
7,2	8,7	13,3	17,6	24,8	35,3
7,0	8,7	14,3	17,8	27,5	36,9
5900	5770	11800	11530	17300	23070
19	19	23	23	26	30

8 C1	10 C1	17 C2	21 C2	31 C3	42 C4
31,7	42,3	63,4	84,5	126,8	169,0
15,9	21,1	31,7	42,3	63,4	84,5
1	1	2	2	3	4
1300	1300	2600	2600	3900	5200
3,4	3,4	3,4	3,4	3,4	3,4
52	52	55	55	56	57
82	82	85	85	86	87
4+2	7+2	4+2	7+2	7+2	7+2
3900	5850	6600	9900	14400	22500
9.8/5.6	14.7/8.4	16.6/9.5	24.9/14.3	36.1/20.8	56.5/32.5



# NW 12<sup>(A)</sup> A1<sup>(B)</sup> C<sup>(C)</sup> 100Pa<sup>(D)</sup>

(A) Model

(B) **A** = Axial fan - **C** = Centrifugal fan / **1** = Number(D) Fin spacing: **R** = 6.35 mm (positive) **C** = 6.35 mm (negative)**L** = 9 mm (positive) **S** = 9 mm (negative)**M** = 12 mm (positive) **T** = 12 mm (negative)

(D) Available pressure



0 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... T
	SC3 (2)		CO <sub>2</sub> - 40 bar (3)
R449A			kW
SC4 (2)		CO <sub>2</sub> - 40 bar (3)	kW
		R449A	kW
	Airflow		m <sup>3</sup> /h
	Air throw (4)		m

100 Pa (1)	CONDITIONS	REFRIGERANTS	NW ... T
	SC3 (2)		CO <sub>2</sub> - 40 bar (3)
R449A			kW
SC4 (2)		CO <sub>2</sub> - 40 bar (3)	kW
		R449A	kW
	Airflow		m <sup>3</sup> /h
	Air throw (4)		m

Surface area		m <sup>2</sup>
Circuit volume		dm <sup>3</sup>
Fan	Ø 560 mm	Nb
1,500 rpm	400 V/3/50 Hz	W max
		A max
Acoustics	Lp 4m (5)	dB(A)
	Lw	dB(A)
Electric defrost standard	Coil + drain pan	Nb
	230-400 V/3/50 Hz	W Total
		A Total
Connections HFCs	Inlet	Ø
	Outlet	Ø
Net weight		kg

## NW ... T - Axial fans

12 mm

9 A1	11 A1	18 A2	22 A2	34 A3	46 A4
7,0	8,4	14,1	16,9	26,0	34,7
5,2	7,0	10,8	14,5	21,9	29,7
5,5	6,6	11,1	13,4	20,7	27,6
3,8	5,2	8,1	11,0	16,5	22,5
8230	7950	16460	15900	23840	31790
22	21	26	25	30	34

9 A1	11 A1	18 A2	22 A2	34 A3	46 A4
6,2	7,3	12,5	14,8	22,5	30,1
4,7	6,3	9,8	13,0	19,5	26,5
4,9	5,8	9,9	11,8	18,0	24,0
3,5	4,7	7,3	10,0	14,9	20,3
6420	6080	12850	12170	18250	24340
17	17	21	20	24	27

9 A1	11 A1	18 A2	22 A2	34 A3	46 A4
31,7	42,3	63,4	84,5	126,8	169,0
15,9	21,1	31,7	42,3	63,4	84,5
1	1	2	2	3	4
1200	1200	2400	2400	3600	4800
2,4	2,4	4,8	4,8	7,2	9,6
52	52	55	55	57	58
82	82	85	85	87	88
7+2	10+2	7+2	10+2	10+2	10+2
5850	7800	9900	13200	19200	30000
8,4	11,3	14,3	19,1	27,7	43,3
5/8"	5/8"	7/8"	7/8"	1 1/8"	1 1/8"
1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
185	200	290	320	435	555

(1) Additional available air pressure in pascals.

(2) Standard conditions:

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

SC3 / -18 °C (air inlet temp.) / -25 °C (evaporating temp.) / DT1 = 7K

SC4 / -25 °C (air inlet temp.) / -31 °C (evaporating temp.) / DT1 = 6K

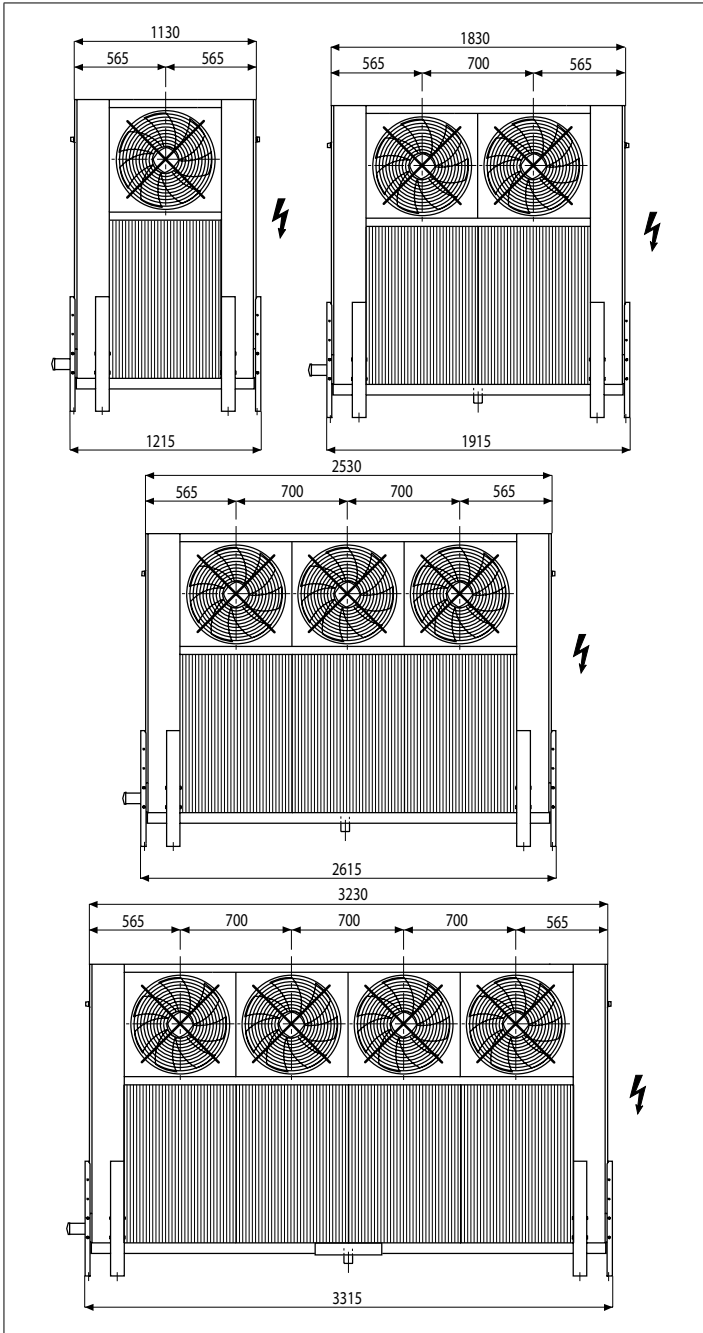
(3) Operating pressure - Specific coil - Connection diameters to be defined when ordering.

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

(5) 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.

(6) Electric defrost option.

NW .. A ..



NW .. C ..

