

Cubic unit cooler



NK industrial range

- The NK range is designed for industrial refrigeration, conservation or deep-freezing applications.
- **NK version T** (large heat-exchange surface):
 - Adapted to humidity-sensitive products.
 - Reduced number of daily defrost cycles offering a reduction in electrical power consumption.
- **NK version H** (high efficiency):
 - Adapted to the storage of packed products.
- Economical choice, wide range of options for specific industrial applications (pressure sleeve, defrost...)
 - 4 fin spacing distances: 4,23 - 6,35 - 9 - 12 mm.
- 2 fan diameters for air throw adapted to the application.
- Two-speed fans as standard.

 **Natural fluids:**
Glycol water
CO₂ (R744)*

* Low temperature applications - Operating pressure 50 bar



8  130 kW

NK - Cubic industrial unit cooler

Market segments



FCS Refrigerated storage and transit stocking – Food processing – Dispatch centres

Description

Casing

- The casing is made of pre-painted, galvanized steel offering a high resistance to corrosion and impact damage.
- An internal aluminium drain pan limits the effects of condensation under the main drain pan during the defrost process.
- The NK unit coolers are delivered in mounting position in reinforced crates (ECB option).

Ventilation

- The external rotor fans are equipped with fan guards compliant with safety standards.
- 2 fan types are used for the NK range:
 - Ø 630 mm 4/6 pole (1,500/1,000 rpm) - Ø 800 mm 6/8 pole (1,000/750 rpm).
- The motors are of the three-phase type, 400 V, 50 Hz, IP54, class F.
- Selection of a unit cooler with various fan number/diameter combinations offering the dimensional and air throw characteristics best adapted to the size of the cold room.

Coil

- The finned coils of the NK range are designed with aluminium fins spaced at 4,23 - 6,35 - 9 or 12 mm, crimped onto copper tubes.
- Two types of fins are available depending on the application:
 - High-efficiency H type fins for an economical solution. This type of fin is particularly suitable for the storage of packed products. The reduced size of the heat-exchanger also enables fast defrosting.
 - T type fins with a large heat-exchanger surface. This type of fin limits dehydration of products. It also saves energy by reducing the number of defrost cycles per day;
- The coils are supplied via optimized R404A diaphragm distributor(s).
- For all other refrigerants, please contact us and specify when ordering.

Defrost

NKH ... C, NKH ... S, NKT ... C, NKT ... S, and NKT ... T

- The shielded electric heating elements are inserted in sleeves located in the finned coil, 2 or 3 heating elements are placed under the intermediate drain pan.
- This facility enables homogenous heat distribution for fast and efficient defrosting.
- The heaters are factory connected to a 400V/3 power supply on a terminal block in a junction box.
- Total gas defrost (HGT) or partial (HG1) available as optional extra.

NKH ... R, NKH ... L, and NKT ... L

- Light electric defrost (E1U) and "low temperature" electric defrost (ELU) models available as optional extra.
- The light electric defrost (E1K) is also available in kit form.
- A water defrost (DAE) option is available for room temperature equal to or greater than +4° C. In this case the unit cooler depth is increased by 40 mm.
- Maximum water flow-rate with NK:
 - 1 fan = 5 m³/h. - 2 fans = 10 m³/h.
 - 3 fans = 15 m³/h. - 4 fans = 20 m³/h.

Certifications



Designation

NKH⁽¹⁾ **3x6**⁽²⁾ **D**⁽³⁾ **B2**⁽⁴⁾ **R**⁽⁵⁾

(1) Fin type:

T = Large exchange surface - **H** = High-efficiency fin

(2) Number of fans x Ø: **6** = Ø 630 mm - **8** = Ø 800 mm

(3) Motor connection: **D** = Delta - **Y** = Star

(4) Module

(5) Fin spacing: **R** = 4,23 mm - **L/C** = 6,35 mm - **S** = 9 mm - **T** = 12 mm

Advantages

Installation

Electrical and refrigerant connections easily accessible for simple installation.

The height-adjustable leg supports enable floor mounting of the unit (KMS option).

Servicing / Maintenance

The galvanized steel side panels and drain pan are hinge-mounted: easy intervention, maintenance and cleaning.



External installation of fans offering easy access for possible interventions.

Kit	Factory
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Options

Ventilation

VPA	M60	Electric fans 230-400V/3/60Hz.
	CMU	Motors factory wired.
	C2V	Motors wired for 2 speeds.
VPM		Air pressure shell also allowing the connection of a textile duct.
EGU		Flexible defrost sleeve + air pressure shell.
	BAE	Paint coil protection.
	BXT	Blygold Polual XT coil protection.
CO2	WCO	Glycol water, coolant (please contact us for details).
		Glycol water extension (please contact us for details).
		R744 optimization (please contact us for details).

Defrost

E1K	E1U	Light electric defrost (coil + drain pan).
	ECK	Additional coil electric defrost.
	ELU	Electric defrost (coil + drain pan).
RVK	HG1	Hot gas defrost (coil: hot gas, drain pan: electric heaters).
	HGT	Hot gas (coil and drain pan).
	RVU	Shell defrost heaters.
DAE		Water defrost.

Miscellaneous

KMS	ECB	Full crate packaging.
	EIS	Insulated drain pan.
		Floor-mounting legs.

Other options

Please contact us for details.

NK - Cubic industrial unit cooler

Application of options

C2V option (2-speed wiring)

Adapted ventilation and noise level:

High speed during the charging phase requiring high capacity.

Low speed during the long storage period or in case of presence of employees for reduced noise level.



VPA option

Homogenous distribution of air flow:

Increased air throw, optimized air flow and efficient distribution of air in the cold room.



Application requiring installation of a textile duct:

Shell for textile duct with air stream deflectors (ducts not provided).



VPM option

Defrost for low-temperature applications :

Avoid circulation of hot air during defrost cycles.

Reduction of defrost cycle time for energy saving.



Pre-selection

	Chill applications	Low-temperature applications	
	SC2 tA1 = 0 °C Δt 8 K	SC3 tA1 = -18 °C Δt 7 K	SC4 tA1 = -25 °C Δt 6 K
Fin spacing			
NKT			
6,35 mm	NKT .. L*	NKT .. C	NKT .. C
9 mm	-	NKT .. S	NKT .. S
12 mm	-	NKT .. T	NKT .. T
Defrost	E1U* / ELU*	Integrated	Integrated

	SC2 tA1 = 0 °C Δt 8 K	SC3 tA1 = -18 °C Δt 7 K	SC4 tA1 = -25 °C Δt 6 K
Fin spacing			
NKH			
4,23 mm	NKH .. R*	-	-
6,35 mm	NKH .. L*	NKH .. C	NKH .. C
9 mm	-	NKH .. S	NKH .. S
Defrost	E1U* / ELU*	Integrated	Integrated

*Add defrosting:

E1U for a room temperature between +4 °C and +2 °C,

ELU for a room temperature between +2 °C and -5 °C.

Average correction factors for connection in Y instead of D on standard motors*

NKT	Fin spacing 6,35 mm			Fin spacing 9 mm			Fin spacing 12 mm		
	Air flow	Capacity	Air throw	Air flow	Capacity	Air throw	Air flow	Capacity	Air throw
B2	0,76	0,87	0,76	0,76	0,88	0,76	0,76	0,89	0,76
B3	0,76	0,86	0,76	0,76	0,88	0,76	0,77	0,88	0,77
B4	0,76	0,85	0,76	0,76	0,86	0,76	0,76	0,87	0,76
C2	0,72	0,85	0,72	0,73	0,86	0,73	0,73	0,86	0,73
C3	0,72	0,83	0,72	0,73	0,85	0,73	0,73	0,85	0,73

NKH	Fin spacing 4,23 mm			Fin spacing 6,35 mm			Fin spacing 9 mm		
	Air flow	Capacity	Air throw	Air flow	Capacity	Air throw	Air flow	Capacity	Air throw
B1	0,76	0,87	0,76	0,76	0,87	0,76	0,76	0,89	0,76
B2	0,76	0,86	0,76	0,76	0,85	0,76	0,76	0,87	0,76
B3	0,76	0,85	0,76	0,76	0,84	0,76	0,76	0,86	0,76
C1	0,73	0,85	0,73	0,74	0,84	0,74	0,74	0,86	0,74
C2	0,72	0,82	0,72	0,72	0,82	0,72	0,73	0,85	0,73

* If the unit cooler is used permanently with motors connected in Y, please specify this fact to allow optimization of circuits and distribution.

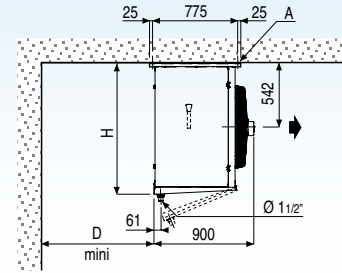
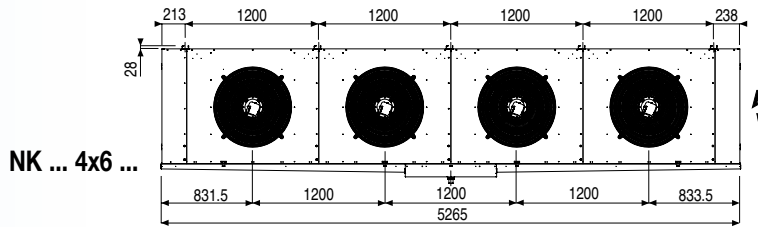
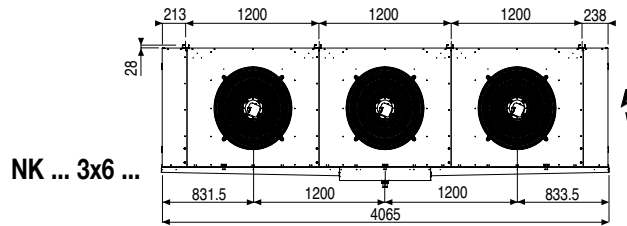
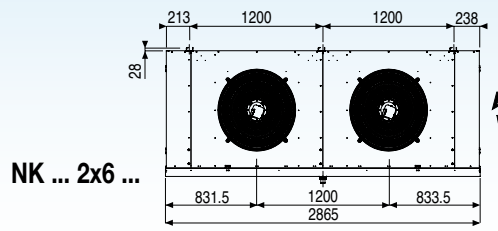
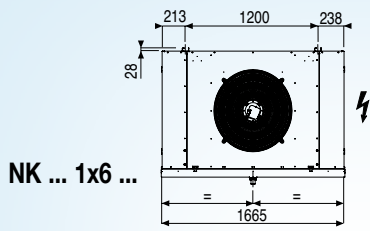
Sound power level Lw

Nb	1 fan		2 fans		3 fans		4 fans	
	D	Y	D	Y	D	Y	D	Y
Ø 630 mm								
dB(A)	90	82	93	85	95	87	96	88
Ø 800 mm								
dB(A)	84	77	87	80	89	82	90	83

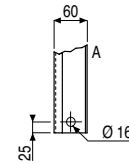
Motor connection: D : Delta - Y : Star

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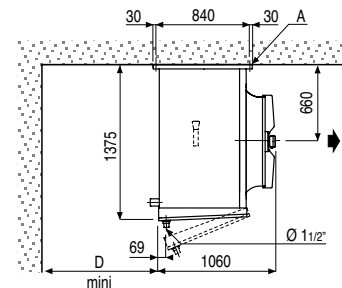
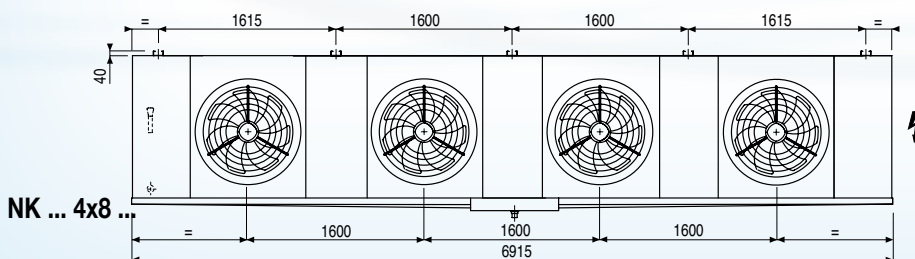
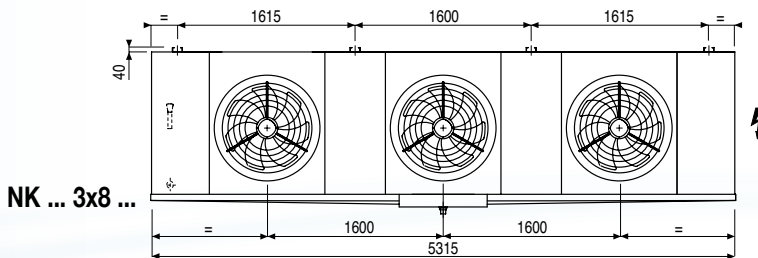
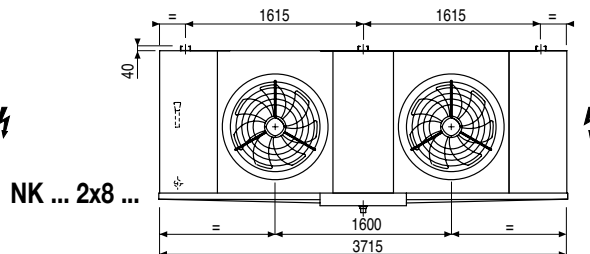
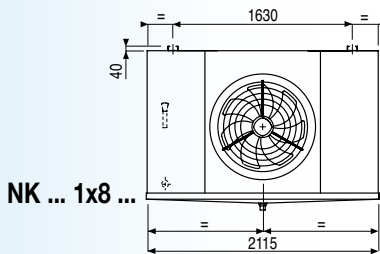
Ø 630 mm



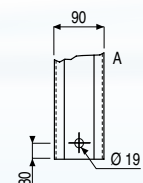
Ø	D	H
1	550	1115
2	700	1115
3	800	1158
4	850	1158



Ø 800 mm



Ø	D
1	700
2	900
3	1000
4	1050



NKH ... R H = High-efficiency fin

4,23 mm

		NKH ... R	1x6D B1	1x6D B2	1x6D B3	1x8D C1	2x6Y B1	1x8D C2	2x6D B1	2x6D B2	2x6D B3	3x6D B1	2x8D C1
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	19,5	24,5	26,4	30,4	34,1	36,9	39,5	47,7	53,5	59,5	61,3
Surface		m ²	74,2	111,3	148,4	123,7	148,4	185,6	148,4	222,7	296,9	222,7	247,4
Circuit volume		dm ³	14,4	21,6	28,8	24,0	28,8	36,0	28,8	43,2	57,6	43,2	48,0
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	13540	13090	12630	20550	22300	19260	27080	26190	25260	40630	41100
Air throw (2)	standard	m (6)	43	40	38	43	36	40	44	42	39	50	44
	with VPA option	m (6)	58	55	53	58	51	55	59	57	54	65	59
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
Electric defrost E1U (3)	Ω	Nb	6	6	9	6	6	6	6	6	9	6	6
	400 V/3/50 Hz	W	6900	6900	10350	9000	13200	9000	13200	13200	19800	19500	17400
		A	10,0	10,0	14,9	13,0	19,1	13,0	19,1	19,1	28,6	28,1	25,1
Electric defrost ELU (3)	Ω	Nb	6	9	12	6	6	9	6	9	12	6	6
	400 V/3/50 Hz	W	6900	10350	13800	9000	13200	13500	13200	19800	26400	19500	17400
		A	10,0	14,9	19,9	13,0	19,1	19,5	19,1	28,6	38,1	28,1	25,1
Electric defrost kit Kit ECK (4)	Ω	Nb	-	3	3	-	-	3	-	3	3	-	-
	400 V/3/50 Hz	W	-	3450	3450	-	-	4500	-	6600	6600	-	-
		A	-	5,0	5,0	-	-	6,5	-	9,5	9,5	-	-
Kit ECK		Nb	0	1	1	0	0	1	0	1	1	0	0
Net weight		kg	160	180	200	240	270	270	270	300	340	370	420
Connections R404A	Inlet	Ø	7/8"	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8
	Outlet	Ø	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8

		NKH ... R	4x6Y B1	2x8D C2	3x6D B2	3x6D B3	4x6D B1	3x8D C1	4x6D B2	4x6D B3	3x8D C2	4x8D C1	4x8D C2
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	65,8	72,6	74,4	78,6	79,7	81,6	95,2	106,8	107,5	123,0	127,2
Surface		m ²	296,9	371,1	334,0	445,3	296,9	371,1	445,3	593,8	556,7	494,8	742,2
Circuit volume		dm ³	57,6	72,0	64,8	86,5	57,6	72,0	86,5	115,3	108,1	96,1	144,1
Fan *	Nb x Ø	mm	4 x 630	2 x 800	3 x 630	3 x 630	4 x 630	3 x 800	4 x 630	4 x 630	3 x 800	4 x 800	4 x 800
Air flow		m ³ /h (6)	44600	38520	39280	37890	54170	61650	52380	50520	57790	82200	77050
Air throw (2)	standard	m (6)	44	41	47	44	55	50	52	49	47	56	52
	with VPA option	m (6)	59	56	62	59	70	65	67	64	62	71	67
Acoustic	Lp 4m	dB(A) (7)	57	56	64	64	65	58	65	65	58	59	59
Electric defrost E1U (3)	Ω	Nb	6	6	6	9	6	6	6	9	6	6	6
	400 V/3/50 Hz	W	25800	17400	19500	29250	25800	25800	25800	38700	25800	34200	34200
		A	37,2	25,1	28,1	42,2	37,2	37,2	37,2	55,9	37,2	49,4	49,4
Electric defrost ELU (3)	Ω	Nb	6	9	9	12	6	6	9	12	9	6	9
	400 V/3/50 Hz	W	25800	26100	29250	39000	25800	25800	38700	51600	38700	34200	51300
		A	37,2	37,7	42,2	56,3	37,2	37,2	55,9	74,5	55,9	49,4	74,0
Electric defrost kit Kit ECK (4)	Ω	Nb	-	3	3	3	-	-	3	3	3	-	3
	400 V/3/50 Hz	W	-	8700	9750	9750	-	-	12900	12900	12900	-	17100
		A	-	12,6	14,1	14,1	-	-	18,6	18,6	18,6	-	24,7
Kit ECK		Nb	0	1	1	1	0	0	1	1	1	0	1
Net weight		kg	480	480	430	490	480	570	550	630	670	740	840
Connections R404A	Inlet	Ø	1"5/8	1"5/8	2x 1"3/8	1"5/8	2x 1"5/8	1"5/8	2x 1"3/8	2x 1"5/8	2x 1"5/8	2x 1"5/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2x 2"1/8	2"5/8	2x 2"1/8	2"5/8	2x 2"1/8	2x 2"1/8	2x 2"1/8	2x 2"5/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)
 * Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

- (1) See page 10.
- (2) Residual air speed: 0.25 m/s, in compliance with standard.
- (3) Electric defrost options.
- (4) Electric defrost kit.
- (5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the room temperature is attained.
- (6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.
- (7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK*	ECU*	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NKT ... L T = Large heat exchange surface

6,35 mm

		NKT ... L	1x6D B2	1x6D B3	1x6D B4	1x8D C2	2x6Y B2	1x8D C3	2x6D B2	2x6D B3	2x6D B4	3x6D B2	2x8D C2
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	17,9	21,5	23,9	27,1	31,6	32,1	35,9	43,4	48,5	54,2	55,1
Surface		m ²	96,1	128,1	160,1	153,7	192,1	204,9	192,1	256,2	320,2	288,2	307,4
Circuit volume		dm ³	27,5	36,7	45,9	44,0	55,0	58,7	55,0	73,4	91,7	82,6	88,1
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	14350	13850	13200	20450	21800	19300	28700	27700	26400	43050	40900
Air throw (2)	standard	m (6)	45	43	42	45	35	43	46	45	43	52	46
	with VPA option	m (6)	60	58	57	60	50	58	61	60	58	67	61
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
Electric defrost E1U (3)	Ω	Nb	6	9	12	6	6	9	6	9	12	6	6
	400 V/3/50 Hz	W	6900	10350	13800	9000	13200	13500	13200	19800	26400	19500	17400
		A	10,0	14,9	19,9	13,0	19,1	19,5	19,1	28,6	38,1	28,1	25,1
Electric defrost ELU (3)	Ω	Nb	9	12	15	9	9	12	9	12	15	9	9
	400 V/3/50 Hz	W	10350	13800	17250	13500	19800	18000	19800	26400	33000	29250	26100
		A	14,9	19,9	24,9	19,5	28,6	26,0	28,6	38,1	47,6	42,2	37,7
Electric defrost kit Kit ECK (4)	Ω	Nb	3	3	3	3	3	3	3	3	3	3	3
	400 V/3/50 Hz	W	3450	3450	3450	4500	6600	4500	6600	6600	6600	9750	8700
		A	5,0	5,0	5,0	6,5	9,5	6,5	9,5	9,5	9,5	14,1	12,6
Kit ECK		Nb	1	1	1	1	1	1	1	1	1	1	1
Net weight		kg	180	200	220	270	310	300	310	350	390	440	480
Connections R404A	Inlet	Ø	5/8"	7/8"	1"1/8	7/8"	1"1/8	1"1/8	1"1/8	1"3/8	1"5/8	1"3/8	1"3/8
	Outlet	Ø	1"3/8	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8

		NKT ... L	2x8D C3	3x6D B3	3x6D B4	4x6D B2	3x8D C2	4x6D B3	4x6D B4	3x8D C3	4x8D C2	4x8D C3
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	64,7	65,0	71,0	72,4	82,4	85,7	94,9	97,0	110,0	129,2
Surface		m ²	409,9	384,2	480,3	384,2	461,1	512,3	640,4	614,8	614,8	819,7
Circuit volume		dm ³	117,4	110,1	137,6	110,1	132,1	146,8	183,5	176,1	176,1	234,9
Fan *	Nb x Ø	mm	2 x 800	3 x 630	3 x 630	4 x 630	3 x 800	4 x 630	4 x 630	3 x 800	4 x 800	4 x 800
Air flow		m ³ /h (6)	37560	38940	37820	53370	59270	51920	50420	56340	79030	75120
Air throw (2)	standard	m (6)	44	51	49	58	53	56	54	50	59	56
	with VPA option	m (6)	59	66	64	73	68	71	69	65	74	71
Acoustic	Lp 4m	dB(A) (7)	56	64	64	65	58	65	65	58	59	59
Electric defrost E1U (3)	Ω	Nb	9	9	12	6	6	9	12	9	6	9
	400 V/3/50 Hz	W	26100	29250	39000	25800	25800	38700	51600	38700	34200	51300
		A	37,7	42,2	56,3	37,2	37,2	55,9	74,5	55,9	49,4	74,0
Electric defrost ELU (3)	Ω	Nb	12	12	15	9	9	12	15	12	9	12
	400 V/3/50 Hz	W	34800	39000	48750	38700	38700	51600	64500	51600	51300	68400
		A	50,2	56,3	70,4	55,9	55,9	74,5	93,1	74,5	74,0	98,7
Electric defrost kit Kit ECK (4)	Ω	Nb	3	3	3	3	3	3	3	3	3	3
	400 V/3/50 Hz	W	8700	9750	9750	12900	12900	12900	12900	12900	17100	17100
		A	12,6	14,1	14,1	18,6	18,6	18,6	18,6	18,6	24,7	24,7
Kit ECK		Nb	1	1	1	1	1	1	1	1	1	1
Net weight		kg	540	500	550	560	680	640	720	770	870	990
Connections R404A	Inlet	Ø	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8	2x 2"1/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Electric defrost options.

(4) Electric defrost kit.

(5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the room temperature is attained.

(6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.

(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK*	ECU*	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NKH ... L H = High-efficiency fin

6,35 mm

		NKH ... L	1x6D B1	1x6D B2	1x6D B3	1x8D C1	2x6Y B1	1x8D C2	2x6D B1	2x6D B2	2x6D B3	3x6D B1	2x8D C1
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	17,4	22,5	25,4	27,3	30,8	34,4	35,3	44,2	51,0	53,0	54,6
Surface		m ²	51,1	76,6	102,1	85,1	102,1	127,6	102,1	153,2	204,2	153,2	170,2
Circuit volume		dm ³	14,4	21,6	28,8	24,0	28,8	36,0	28,8	43,2	57,6	43,2	48,0
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	13770	13430	13090	21330	23030	20200	27540	26860	26190	41310	42650
Air throw (2)	standard	m (6)	45	42	40	45	37	43	46	44	42	52	46
	with VPA option	m (6)	60	57	55	60	52	58	61	59	57	67	61
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
Electric defrost E1U (3)	Ω	Nb	6	6	9	6	6	6	6	6	9	6	6
	400 V/3/50 Hz	W	6900	6900	10350	9000	13200	9000	13200	13200	19800	19500	17400
		A	10,0	10,0	14,9	13,0	19,1	13,0	19,1	19,1	28,6	28,1	25,1
Electric defrost ELU (3)	Ω	Nb	6	9	12	6	6	9	6	9	12	6	6
	400 V/3/50 Hz	W	6900	10350	13800	9000	13200	13500	13200	19800	26400	19500	17400
		A	10,0	14,9	19,9	13,0	19,1	19,5	19,1	28,6	38,1	28,1	25,1
Electric defrost kit Kit ECK (4)	Ω	Nb	-	3	3	-	-	3	-	3	3	-	-
	400 V/3/50 Hz	W	-	3450	3450	-	-	4500	-	6600	6600	-	-
		A	-	5,0	5,0	-	-	6,5	-	9,5	9,5	-	-
Kit ECK		Nb	0	1	1	0	0	1	0	1	1	0	0
Net weight		kg	160	180	190	230	260	260	260	290	330	360	400
Connections R404A	Inlet	Ø	7/8"	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8
	Outlet	Ø	1"3/8	1"5/8	1"5/8"	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8

		NKH ... L	4x6Y B1	2x8D C2	3x6D B2	4x6D B1	3x8D C1	3x6D B3	4x6D B2	3x8D C2	4x6D B3	4x8D C1	4x8D C2
Capacity R404A (1)	DT1 = 8K - SC2	kW (6)	60,4	68,1	68,4	70,6	73,6	75,8	88,6	100,7	102,4	109,7	119,7
Surface		m ²	204,2	255,3	229,7	204,2	255,3	306,3	306,3	382,9	408,4	340,4	510,5
Circuit volume		dm ³	57,6	72,0	64,8	57,6	72,0	86,5	86,5	108,1	115,3	96,1	144,1
Fan *	Nb x Ø	mm	4 x 630	2 x 800	3 x 630	4 x 630	3 x 800	3 x 630	4 x 630	3 x 800	4 x 630	4 x 800	4 x 800
Air flow		m ³ /h (6)	46060	40400	40290	55080	63980	39280	53720	60600	52380	85300	80800
Air throw (2)	standard	m (6)	46	43	49	58	53	47	55	50	52	59	55
	with VPA option	m (6)	61	58	64	73	68	62	70	65	67	74	70
Acoustic	Lp 4m	dB(A) (7)	57	56	64	65	58	64	65	58	65	59	59
Electric defrost E1U (3)	Ω	Nb	6	6	6	6	6	9	6	6	9	6	6
	400 V/3/50 Hz	W	25800	17400	19500	25800	25800	29250	25800	25800	38700	34200	34200
		A	37,2	25,1	28,1	37,2	37,2	42,2	37,2	37,2	55,9	49,4	49,4
Electric defrost ELU (3)	Ω	Nb	6	9	9	6	6	12	9	9	12	6	9
	400 V/3/50 Hz	W	25800	26100	29250	25800	25800	39000	38700	38700	51600	34200	51300
		A	37,2	37,7	42,2	37,2	37,2	56,3	55,9	55,9	74,5	49,4	74,0
Electric defrost kit Kit ECK (4)	Ω	Nb	-	3	3	-	-	3	3	3	3	-	3
	400 V/3/50 Hz	W	-	8700	9750	-	-	9750	12900	12900	12900	-	17100
		A	-	12,6	14,1	-	-	14,1	18,6	18,6	18,6	-	24,7
Kit ECK		Nb	0	1	1	0	0	1	1	1	1	0	1
Net weight		kg	470	460	410	470	550	460	530	650	600	720	800
Connections R404A	Inlet	Ø	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8	2x 1"5/8	2x 1"5/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2x 2"1/8	2x 2"1/8	2"5/8	2"5/8	2x 2"1/8	2x 2"1/8	2x 2"1/8	2x 2"1/8	2x 2"1/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)
 * Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

- (1) See page 10.
- (2) Residual air speed: 0.25 m/s, in compliance with standard.
- (3) Electric defrost options.
- (4) Electric defrost kit.
- (5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the room temperature is attained.
- (6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.
- (7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK*	ECU*	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Except NKH 1x6D B1 L - NKH 1x8D C1 L - NKH 2x6Y B1 L - NKH 2x6D B1 L - NKH 3x6D B1 L - NKH 2x8D C1 L - NKH 4x6Y B1 L - NKH 4x6D B1 L - NKH 3x8D C1 L - NKH 4x8D C1 L

NKT ... C T = Large heat exchange surface

6,35 mm

		NKT ... C	1x6D B2	1x6D B3	1x6D B4	1x8D C2	2x6Y B2	1x8D C3	2x6D B2	2x6D B3	2x6D B4	3x6D B2	2x8D C2
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	12,9	15,6	17,7	19,8	23,3	23,5	26,3	31,8	36,0	39,8	40,0
Surface		m ²	96,1	128,1	160,1	153,7	192,1	204,9	192,1	256,2	320,2	288,2	307,4
Circuit volume		dm ³	27,5	36,7	45,9	44,0	55,0	58,7	55,0	73,4	91,7	82,6	88,1
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	13340	12980	12610	19760	21770	18780	26680	25960	25210	40030	39520
Air throw (2)	standard	m (6)	45	43	42	45	35	43	46	45	43	52	46
	with VPA option	m (6)	60	58	57	60	50	58	61	60	58	67	61
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
Electric defrost	Ω	Nb	9	12	15	9	9	12	9	12	15	9	9
	400 V/3/50 Hz	W	10350	13800	17250	13500	19800	18000	19800	26400	33000	29250	26100
		A	14,9	19,9	24,9	19,5	28,6	26,0	28,6	38,1	47,6	42,2	37,7
Net weight		kg	200	220	240	290	340	330	340	390	430	490	520
Connections R404A	Inlet	Ø	5/8"	7/8"	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8	1"5/8	1"5/8	1"3/8
	Outlet	Ø	1"3/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8	2"5/8

		NKT ... C	3x6D B3	2x8D C3	4x6D B2	3x6D B4	3x8D C2	4x6D B3	4x6D B4	3x8D C3	4x8D C2	4x8D C3
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	47,5	47,7	53,1	53,4	60,4	64,0	69,5	70,9	81,1	95,6
Surface		m ²	384,2	409,9	384,2	480,3	461,1	512,3	640,4	614,8	614,8	819,7
Circuit volume		dm ³	110,1	117,4	110,1	137,6	132,1	146,8	183,5	176,1	176,1	234,9
Fan *	Nb x Ø	mm	3 x 630	2 x 800	4 x 630	3 x 630	3 x 800	4 x 630	4 x 630	3 x 800	4 x 800	4 x 800
Air flow		m ³ /h (6)	38940	37560	53370	37820	59270	51920	50420	56340	79030	75120
Air throw (2)	standard	m (6)	51	44	58	49	53	56	54	50	59	56
	with VPA option	m (6)	66	59	73	64	68	71	69	65	74	71
Acoustic	Lp 4m	dB(A) (7)	64	56	65	64	58	65	65	58	59	59
Electric defrost	Ω	Nb	12	12	9	15	9	12	15	12	9	12
	400 V/3/50 Hz	W	39000	34800	38700	48750	38700	51600	64500	51600	51300	68400
		A	56,3	50,2	55,9	70,4	55,9	74,5	93,1	74,5	74,0	98,7
Net weight		kg	550	580	630	620	740	720	800	840	940	1080
Connections R404A	Inlet	Ø	1"5/8	1"5/8	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2"5/8	2"5/8	2x 2"1/8	2x 2"5/8	3"1/8	3"1/8	2x 2"5/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Electric defrost options.

(4) Electric defrost kit.

(5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti")

in order to obtain an approximate current value after the room temperature is attained.

(6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.

(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK	ECU	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	-	-	-	-	-	-	0	S	0	0	0	0	-	0	0	0

NKH ... C H = High-efficiency fin

6,35 mm

		NKH ... C	1x6D B1	1x6D B2	1x6D B3	1x8D C1	2x6Y B1	1x8D C2	2x6D B1	2x6Y B2	2x6D B2	3x6D B1
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	12,9	17,0	19,9	20,6	23,2	26,0	26,3	29,8	34,5	39,6
Surface		m ²	51,1	76,6	102,1	85,1	102,1	127,6	102,1	153,2	153,2	153,2
Circuit volume		dm ³	14,4	21,6	28,8	24,0	28,8	36,0	28,8	43,2	43,2	43,2
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630
Air flow		m ³ /h (6)	13770	13430	13090	21330	23030	20200	27540	21950	26860	41310
Air throw (2)	standard	m (6)	45	42	40	45	37	43	46	36	44	52
	with VPA option	m (6)	60	57	55	60	52	58	61	51	59	67
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	54	62	64
Electric defrost	Ω	Nb	6	9	12	6	6	9	6	9	9	6
	400 V/3/50 Hz	W	6900	10350	13800	9000	13200	13500	13200	19800	19800	19500
		A	10,0	14,9	19,9	13,0	19,1	19,5	19,1	28,6	28,6	28,1
Net weight		kg	170	190	210	250	290	280	290	320	320	410
Connections R404A	Inlet	Ø	7/8"	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8
	Outlet	Ø	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8

		NKH ... C	2x6D B3	2x8D C1	2x8D C2	3x6D B2	3x8D C1	4x6D B1	3x6D B3	3x8D C2	4x6D B3	4x8D C1
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	40,2	41,7	46,1	52,0	52,9	53,8	60,5	68,5	70,2	83,6
Surface		m ²	204,2	170,2	255,3	229,7	255,3	204,2	306,3	382,9	408,4	340,4
Circuit volume		dm ³	57,6	48,0	72,0	64,8	72,0	57,6	86,5	108,1	115,3	96,1
Fan *	Nb x Ø	mm	2 x 630	2 x 800	2 x 800	3 x 630	3 x 800	4 x 630	3 x 630	3 x 800	4 x 630	4 x 800
Air flow		m ³ /h (6)	26190	42650	40400	40290	63980	55080	39280	60600	52380	85300
Air throw (2)	standard	m (6)	42	46	43	49	53	58	47	50	52	59
	with VPA option	m (6)	57	61	58	64	68	73	62	65	67	74
Acoustic	Lp 4m	dB(A) (7)	62	56	56	64	58	65	64	58	65	59
Electric defrost	Ω	Nb	12	6	9	9	6	6	12	9	12	6
	400 V/3/50 Hz	W	26400	17400	26100	29250	25800	25800	39000	38700	51600	34200
		A	38,1	25,1	37,7	42,2	37,2	37,2	56,3	55,9	74,5	49,4
Net weight		kg	360	440	500	460	600	520	520	700	670	780
Connections R404A	Inlet	Ø	1"5/8	1"5/8	1"5/8	2x 1"3/8	1"5/8	2x 1"5/8	2x 1"5/8	2x 1"5/8	2x 1"5/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2"5/8	2x 2"1/8	2"5/8	2x 2"1/8	2x 2"1/8	2x 2"5/8	2x 2"5/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Electric defrost options.

(4) Electric defrost kit.

(5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the room temperature is attained.

(6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.

(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK	ECU	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	-	-	-	-	-	-	0	S	0	0	0	0	-	0	0	0

NKT ... S T = Large heat exchange surface

9 mm

		NKT ... S	1x6D B2	1x6D B3	1x6D B4	1x8D C2	2x6Y B2	1x8D C3	2x6D B2	2x6D B3	2x6D B4	3x6D B2	2x8D C2
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	12,3	15,0	17,2	18,7	22,0	22,6	25,1	30,6	35,0	38,0	38,0
	DT1 = 6K - SC4	kW (6)	9,3	11,4	13,2	14,3	16,85	17,4	19,1	23,4	26,9	29,0	29,1
Surface		m ²	70,0	93,3	116,6	111,9	139,9	149,2	139,9	186,5	233,2	209,9	223,9
Circuit volume		dm ³	27,5	36,7	45,9	44,0	55,0	58,7	55,0	73,4	91,7	82,6	88,1
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	13570	13280	12990	20640	22450	19580	27130	26560	25990	40700	41280
Air throw (2)	standard	m (6)	46	44	42	46	36	44	47	46	45	54	47
	with VPA option	m (6)	61	59	57	61	51	59	62	61	60	69	62
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
	Ω	Nb	9	12	15	9	9	12	9	12	15	9	9
Electric defrost	400 V/3/50 Hz	W	10350	13800	17250	13500	19800	18000	19800	26400	33000	29250	26100
		A	14,9	19,9	24,9	19,5	28,6	26,0	28,6	38,1	47,6	42,2	37,7
Net weight		kg	190	220	240	280	330	320	330	370	410	470	500
Connections R404A	Inlet	Ø	5/8"	7/8"	1"1/8"	1"1/8"	1"1/8"	1"1/8"	1"1/8"	1"3/8"	1"5/8"	1"5/8"	1"5/8"
	Outlet	Ø	1"3/8"	1"5/8"	2"1/8"	2"1/8"	2"1/8"	2"1/8"	2"1/8"	2"1/8"	2"5/8"	2"5/8"	2"5/8"

		NKT ... S	3x6D B3	2x8D C3	4x6D B2	3x6D B4	3x8D C2	4x6D B3	3x8D C3	4x6D B4	4x8D C2	4x8D C3
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	45,6	45,9	50,5	51,7	57,2	61,2	68,6	70,5	77,3	92,6
	DT1 = 6K - SC4	kW (6)	35,0	35,3	38,6	39,9	43,8	47,0	52,8	53,7	59,2	71,3
Surface		m ²	279,8	298,5	279,8	349,8	335,8	373,1	447,7	466,4	447,7	596,9
Circuit volume		dm ³	110,1	117,4	110,1	137,6	132,1	146,8	176,1	183,5	176,1	234,9
Fan *	Nb x Ø	mm	3 x 630	2 x 800	4 x 630	3 x 630	3 x 800	4 x 630	3 x 800	4 x 630	4 x 800	4 x 800
Air flow		m ³ /h (6)	39840	39160	54270	38980	61920	53120	58740	51970	82560	78320
Air throw (2)	standard	m (6)	52	45	59	51	54	57	52	56	60	58
	with VPA option	m (6)	67	60	74	66	69	72	67	71	75	73
Acoustic	Lp 4m	dB(A) (7)	64	56	65	64	58	65	58	65	59	59
	Ω	Nb	12	12	9	15	9	12	12	15	9	12
Electric defrost	400 V/3/50 Hz	W	39000	34800	38700	48750	38700	51600	51600	64500	51300	68400
		A	56,3	50,2	55,9	70,4	55,9	74,5	74,5	93,1	74,0	98,7
Net weight		kg	530	560	610	590	710	690	800	770	910	1030
Connections R404A	Inlet	Ø	1"5/8"	1"5/8"	1"5/8"	1"5/8"	2x 1"3/8"	2x 1"5/8"	2x 1"5/8"	2x 1"5/8"	2x 1"3/8"	2x 1"5/8"
	Outlet	Ø	2"5/8"	2"5/8"	2"5/8"	2"5/8"	2x 2"1/8"	2x 2"1/8"	2x 2"5/8"	2x 2"5/8"	2x 2"5/8"	2x 2"5/8"

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Electric defrost options.

(4) Electric defrost kit.

(5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the room temperature is attained.

(6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.

(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK	ECU	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	-	-	-	-	-	-	0	S	0	0	0	0	-	0	0	0

NKH ... S H = High-efficiency fin

9 mm

		NKH ... S	1x6D B1	1x6D B2	1x8D C1	1x6D B3	2x6Y B1	2x6D B1	1x8D C2	2x6Y B2	2x6D B2	3x6D B1	2x8D C1	2x6D B3
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	11,1	14,9	17,5	17,8	19,7	22,4	22,9	26,1	30,2	33,8	35,3	36,1
	DT1 = 6K - SC4	kW (6)	8,6	11,7	13,8	14,1	15,5	17,6	18,0	20,7	23,8	26,5	27,8	28,6
Capacity CO ₂ (8)	DT1 = 7K - SC3	kW (6)	-	-	-	16,6	17,9	20,4	-	23,9	27,6	30,6	-	33,3
	DT1 = 6K - SC4	kW (6)	-	-	-	14,1	15,1	17,2	-	20,3	23,4	25,8	-	28,2
Surface		m ²	37,4	56,2	62,4	74,9	74,9	74,9	93,6	112,3	112,3	112,3	124,8	149,8
Circuit volume		dm ³	14,4	21,6	24,0	28,8	28,8	28,8	36,0	43,2	43,2	43,2	48,0	57,6
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 800	1 x 630	2 x 630	2 x 630	1 x 800	2 x 630	2 x 630	3 x 630	2 x 800	2 x 630
Air flow		m ³ /h (6)	13910	13630	21850	13360	23480	27820	20830	22570	27260	41720	43700	26710
Air throw (2)	standard	m (6)	46	44	47	42	38	47	44	37	45	54	48	44
	with VPA option	m (6)	61	59	62	57	53	62	59	52	60	69	63	59
Acoustic	Lp 4m	dB(A) (7)	59	59	53	59	54	62	53	54	62	64	56	62
Electric defrost	Ω	Nb	6	9	6	12	6	6	9	9	9	6	6	12
	400 V/3/50 Hz	W	6900	10350	9000	13800	13200	13200	13500	19800	19800	19500	17400	26400
		A	10,0	14,9	13,0	19,9	19,1	19,1	19,5	28,6	28,6	28,1	25,1	38,1
Net weight		kg	170	190	250	210	280	280	280	320	320	400	430	360
Connections R404A	Inlet	Ø	7/8"	1"1/8	1"3/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8	1"5/8
	Outlet	Ø	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8	2"5/8

		NKH ... S	4x6Y B1	2x8D C2	4x6D B1	3x6D B2	3x8D C1	4x6D B2	3x6D B3	3x8D C2	4x6D B3	4x8D C1	4x8D C2
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	38,1	40,9	45,2	45,5	45,8	52,8	54,4	60,6	63,8	70,9	76,2
	DT1 = 6K - SC4	kW (6)	29,6	31,5	35,6	35,8	35,0	40,5	43,1	46,6	49,2	55,9	57,8
Capacity CO ₂ (8)	DT1 = 7K - SC3	kW (6)	35,8	-	40,8	41,4	-	50,3	50,0	-	60,9	-	-
	DT1 = 6K - SC4	kW (6)	30,2	-	34,4	35,1	-	41,6	42,4	-	50,6	-	-
Surface		m ²	149,8	187,2	149,8	168,5	187,2	224,7	224,7	280,8	299,5	249,6	374,4
Circuit volume		dm ³	57,6	72,0	57,6	64,8	72,0	86,5	86,5	108,1	115,3	96,1	144,1
Fan *	Nb x Ø	mm	4 x 630	2 x 800	4 x 630	3 x 630	3 x 800	4 x 630	3 x 630	3 x 800	4 x 630	4 x 800	4 x 800
Air flow		m ³ /h (6)	46960	41660	55630	40880	65560	54510	40070	62490	53430	87410	83320
Air throw (2)	standard	m (6)	47	45	59	51	55	57	49	52	55	61	58
	with VPA option	m (6)	62	60	74	66	70	72	64	67	70	66	63
Acoustic	Lp 4m	dB(A) (7)	57	56	65	64	58	65	64	58	65	59	59
Electric defrost	Ω	Nb	6	9	6	9	6	9	12	9	12	6	9
	400 V/3/50 Hz	W	25800	26100	25800	29250	25800	38700	39000	38700	51600	34200	51300
		A	37,2	37,7	37,2	42,2	37,2	55,9	56,3	55,9	74,5	49,4	74,0
Net weight		kg	510	480	510	450	590	570	510	670	640	770	860
Connections R404A	Inlet	Ø	1"5/8	1"5/8	2x 1"3/8	2x 1"1/8	1"5/8	2x 1"3/8	2x 1"3/8	2x 1"5/8	2x 1"3/8	2x 1"5/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2x 2"1/8	2x 2"1/8	2"5/8	2x 2"1/8	2x 2"1/8	2x 2"1/8	2x 2"5/8	2x 2"5/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Electric defrost options.

(4) Electric defrost kit.

(5) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti")

in order to obtain an approximate current value after the room temperature is attained.

(6) For motor connection in star (Y) instead of delta (D), refer to the correction factors.

(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

(8) Operating pressure 50 bar - Tube diameter to define the order.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK	ECU	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	-	-	☺+2	-	-	-	0	S	0	0	0	0	-	0	0	0

NKT ... T T = Large heat exchange surface

12 mm

		NKT ... T	1x6D B2	1x6D B3	1x6D B4	1x8D C2	2x6Y B2	1x8D C3	2x6D B2	2x6D B3	2x6D B4	3x6D B2	2x8D C2
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	10,6	13,2	15,3	16,1	19,1	20,0	21,6	26,8	31,0	32,6	33,1
	DT1 = 6K - SC4	kW (6)	8,1	10,1	11,8	12,4	14,7	15,4	16,6	20,6	24,0	25,0	25,4
Surface		m ²	54,3	72,4	90,5	86,9	108,6	115,9	108,6	144,8	181,1	162,9	173,8
Circuit volume		dm ³	27,5	36,7	45,9	44,0	55,0	58,7	55,0	73,4	91,7	82,6	88,1
Fan *	Nb x Ø	mm	1 x 630	1 x 630	1 x 630	1 x 800	2 x 630	1 x 800	2 x 630	2 x 630	2 x 630	3 x 630	2 x 800
Air flow		m ³ /h (6)	13700	13460	13220	20930	22880	20110	27410	26920	26440	41110	41860
Air throw (2)	standard	m (6)	46	45	43	47	36	45	48	47	45	54	48
	with VPA option	m (6)	61	60	58	62	51	60	63	62	60	69	63
Acoustic	Lp 4m	dB(A) (7)	59	59	59	53	54	53	62	62	62	64	56
	Ω	Nb	9	12	15	9	9	12	9	12	15	9	9
Electric defrost	400 V/3/50 Hz	W	10350	13800	17250	13500	19800	18000	19800	26400	33000	29250	26100
		A	14,9	19,9	24,9	19,5	28,6	26,0	28,6	38,1	47,6	42,2	37,7
Net weight		kg	190	210	230	280	320	310	320	360	400	460	490
Connections R404A	Inlet	Ø	5/8"	7/8"	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8	1"5/8	1"5/8	1"3/8
	Outlet	Ø	1"3/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8

		NKT ... T	3x6D B3	2x8D C3	4x6D B2	3x6D B4	3x8D C2	4x6D B3	3x8D C3	4x6D B4	4x8D C2	4x8D C3
Capacity R404A (1)	DT1 = 7K - SC3	kW (6)	39,7	40,5	43,2	46,5	49,5	53,1	60,7	60,8	66,3	81,1
	DT1 = 6K - SC4	kW (6)	30,6	31,3	33,1	35,9	38,0	41,0	46,8	46,8	51,0	62,7
Surface		m ²	217,3	231,7	217,3	271,6	260,7	289,7	347,6	362,1	347,6	463,5
Circuit volume		dm ³	110,1	117,4	110,1	137,6	132,1	146,8	176,1	183,5	176,1	234,9
Fan *	Nb x Ø	mm	3 x 630	2 x 800	4 x 630	3 x 630	3 x 800	4 x 630	3 x 800	4 x 630	4 x 800	4 x 800
Air flow		m ³ /h (6)	40380	40230	54820	39650	62790	53840	60340	52870	83720	80460
Air throw (2)	standard	m (6)	53	46	60	51	55	58	53	57	61	59
	with VPA option	m (6)	68	61	75	66	70	73	68	72	76	74
Acoustic	Lp 4m	dB(A) (7)	64	56	65	64	58	65	58	65	59	59
	Ω	Nb	12	12	9	15	9	12	12	15	9	12
Electric defrost	400 V/3/50 Hz	W	39000	34800	38700	48750	38700	51600	51600	64500	51300	68400
		A	56,3	50,2	55,9	70,4	55,9	74,5	74,5	93,1	74,0	98,7
Net weight		kg	520	550	600	580	700	670	790	750	890	1010
Connections R404A	Inlet	Ø	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	2x 1"5/8	1"5/8	1"5/8	2x 1"3/8	2x 1"5/8
	Outlet	Ø	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8	2x 2"1/8	3"1/8	3"1/8	2x 2"5/8	2x 2"5/8

* Ø 630 mm : 400 V/3/50 Hz - 1500 rpm : Δ = 1900 W max - 3,20 A max - Y = 1200 W max - 1,95 A max (5)

* Ø 800 mm : 400 V/3/50 Hz - 1000 rpm : Δ = 2000 W max - 4,00 A max - Y = 1250 W max - 2,30 A max (5)

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(7) Average sound pressure level in dB(A) measured at 4 m, at fan height, in direct line of sight on a reflective surface, given for information only.

M60	CMU	C2V	VPA	VPM	BAE	BXT	WCO	EGU	CO2	E1K	E1U	ECK	ECU	ELU	HG1	HGT	RVK	RVU	DAE	ECB	EIS	KMS
0	0	0	0	0	0	0	-	-	-	-	-	-	0	S	0	0	0	0	-	0	0	0