QUICKCOOL
Series Coils & Coolers

Quickcool Cooling technologies Co., Ltd.

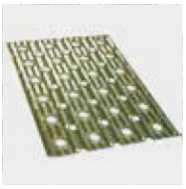
QUICKCOOL 2018

AIR COOLERS & AIR COOLED CONDENSERS

QUICKCOOL
Series Coils & Coolers

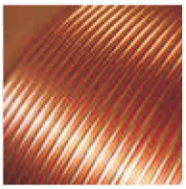
General Features

Coil: The high efficiency, compact coils are designed according to the newest coil geometry in the current refrigeration industry, with higher capacity Vs surface area and optimized by circuiting design for different applications. The size of coils match the most appropriate air flows which allows the refrigerant flows evenly through the tubes and gets a better performance.



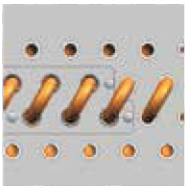
Aluminum fins: Double Sine-Wave Aluminum fins are adopted which staggers the wind blowing through with optimized pressure drop and heat transfer across the air side. Fin thickness is carefully sized and punched with double wrinkles which makes the fin sticks with the copper tube after many times of heat shocks, and therefore, ensure the heat transfer efficiency.

Inner grooved copper tubes: 9.52mm,12.7mm inner grooved high gauge, stagger arrangement of copper tubes ensure the internal surface area as well heat transfer efficiency inside the tubes.



Tube length: copper coil length is specially listed to show the actual size of the coil other than fin surface area.

Fin spacing: Five different fin spacing: 3.5mm, 4.5mm, 7mm, 9mm, 9/18 inter-change to satisfy all the different humidity requirements.



Floating coil: For heavy duty coils, to ensure there are no leaks during transportation or heat shocks,particular attention has been given to the manufacturing of the coil and plates (floating coil design)

Sheet metals: The casing of our different product ranges is made from prepainted galvanized sheet metal. Options for some models can be aluminum or 304 stainless steel sheet metals and all bolts and nuts is from 304 stainless steel.

Side casing panel: Side casing panels are equipped with handles or quick disassemble parts which allows easy access to internal components like electrical connection and pipe soldering.

Double drain pan: All evaporators are equipped with double drain pan to ensure the water drainage smoothly removed from the unit.

Electrical defrost: American Spingfield stainless steel are equipped as standard internal of the coil or under the medium drain pan.

QUICKCCOL
Series Coils & Coolers

General Features

Evaporator selection: Evaporator capacity is decided according to the CE PED standard and reliable which can match the refrigeration compressor refrigeration capacity accordingly.

Junction box: IP65 level junction box is utilized and all the electrical parts and sheet metal are linked to the same earth pre-wired by factory.

Fan motors: The standard external rotor fan motors are specially designed for low temperature application with higher air flow and longer throw, IP44 or IP54 level, option to equip with German brand fan motors.

Pressure test: All the evaporators have been cleaned and pressure tested to 28 bars before leaving the factory.

Reference Standards

- The electrical motors are manufactured according to EN 60335-1;
- The fan guard respect EN 294 safety standards;
- The air throw was measured according to CECOMAF GT 6-001 (final velocity =0.25 m/s);
- The testing facilities certify the capacities, the air throws, the power input, the exchange surfaces and sound levels of the units.
- Unit coolers adopt standard: EN328
- Actual capacity: assessed in practical operating ambient, i.e. in wet conditions, refrigerant R22 and R404A.
- Air-cooled condensers adopt standard: EN327

The stated capacity is assessed based on ambient temperature 25 ℃ , and condensing temperature 40℃ with R22 or R404A. The actual power input is assessed directly from model, whereas the nominal power is the value stated in the motor label.

Operating mode	SC1	SC2	SC3	SC4	SC5
Evap. temperature	0 ℃	-8 ℃	-25 ℃	-31 ℃	-40 ℃
Temperature difference	10K	8K	7K	6K	6K
Air inlet temperature	10 ℃	0 ℃	-18 ℃	-25 ℃	-34 ℃
Superheat	6.5 K	5.2 K	4.6 K	3.9 K	3.9 K
Relative humidity	85 %	85 %	95 %	95 %	95 %

Nomenclature

CL 40 3 C 6 W

CL: Low profile commercial coolers
NT: Industrial unit coolers
NF: Blast chillers & Freezers
ND: Dual discharge coolers
CE: Ultra low profile coolers
BT: Brine coolers

30: 300mm Fan
40: 400mm Fan
50: 500mm Fan
63: 630mm Fan

Fan quantity

A: Fin Spacing 3.5mm
R: Fin Spacing 4.5mm
C: Fin Spacing 7mm
S: Fin Spacing 9mm
T: Fin Spacing 9/18mm Inter-change

Row

W/O: Electric Defrost
W: Water Defrost
F: Air Defrost

QUICKCOOL
Series Coils & Coolers

Low profile commercial coolers

300mm Fan

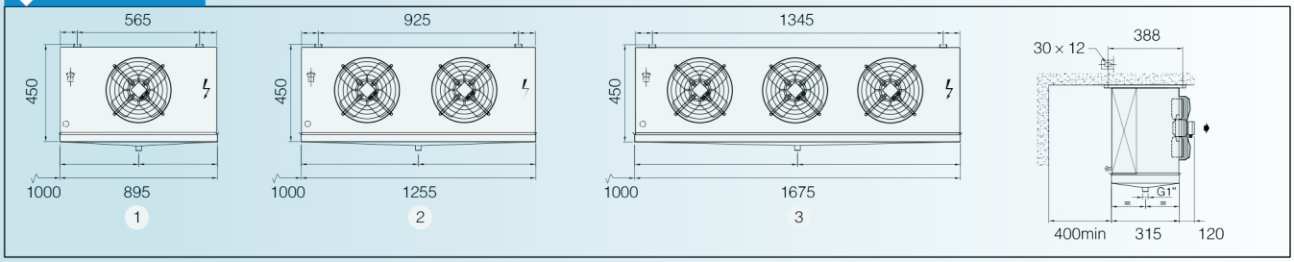
Models		CL301R4	CL302R3	CL302R4	CL302R6	CL303R4	CL303R6
SC1: Ta 10℃ Te 0℃	KW	3.4	5.2	5.8	7.7	9.4	11.6
SC2: Ta 0℃ Te -8℃	KW	2.4	3.6	4.1	5.1	6.4	7.8
Surface	m^2	10.5	13.2	17.6	26.4	25.8	38.8
Fin Spacing	mm	4.5	4.5	4.5	4.5	4.5	4.5

Models		CL301C4	CL302C3	CL302C4	CL302C6	CL303C4	CL303C6
SC2: Ta 0℃ Te -8℃	KW	1.9	2.9	3.5	4.4	5.4	6.7
SC3: Ta -18℃ Te -25℃	KW	1.4	2.0	2.3	3.0	3.7	4.6
SC4: Ta -25℃ Te -31℃	KW	1.1	1.6	1.8	2.3	3.2	3.6
Surface	m^2	7.3	9.1	12.2	18.2	17.8	26.8
Fin Spacing	mm	7	7	7	7	7	7

Common Data

Tube length	m	26	32	43	65	63	95
Circuit Vol.	dm^3	2.0	2.6	3.4	5.1	5.0	7.5
Fan Mot. No.		✇	✇✇	✇✇	✇✇	✇✇✇	✇✇✇
Air Flow	m^3/h	1400	2800	2700	2500	4050	3750
Air Throw	m	6	7	7	6	8	7
Voltage	V	220~240	220~240	220~240	220~240	220~240	220~240
Fan Mot. Amper	A	0.4	0.8	0.8	0.8	1.2	1.2
Fan Mot. Power	W	85	170	170	170	255	255
Electric Defrost	A	6.9	11.0	11.0	18.2	16.4	27.3
Electric Defrost	W	1500	2400	2400	4000	3600	6000
In Tube	inch.	1/2	1/2	1/2	1/2	1/2	1/2
Out Tube	inch.	7/8	7/8	7/8	1-1/8	1-1/8	1-1/8
Net Weight	kg	20	31	33	36	49	55
Drawing No.		①	②	②	②	③	③

Dimensions



QUICKCOOL
Series Coils & Coolers

Low profile commercial coolers

400mm Fan

Models		CL401R3	CL401R4	CL401R5	CL401R6	CL402R4	CL402R5
SC1: Ta 10℃ Te 0℃	KW	4.6	5.8	6.7	7.4	11.5	13.6
SC2: Ta 0℃ Te -8℃	KW	3.4	4.1	4.8	5.2	8.2	9.7
Surface	m^2	10.6	14.1	17.6	21.2	28.2	35.2
Fin Spacing	mm	4.5	4.5	4.5	4.5	4.5	4.5

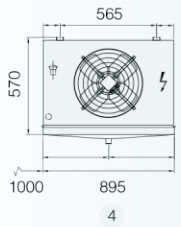
Models		CL401C3	CL401C4	CL401C5	CL401C6	CL402C4	CL402C5
SC2: Ta 0℃ Te -8℃	KW	2.8	3.5	4.1	4.5	7.1	8.3
SC3: Ta -18℃ Te -25℃	KW	2.0	2.3	2.9	3.1	4.7	5.8
SC4: Ta -25℃ Te -31℃	KW	1.6	1.8	2.2	2.4	3.6	4.5
Surface	m^2	7.3	9.7	12.2	14.6	19.5	24.4
Fin Spacing	mm	7	7	7	7	7	7

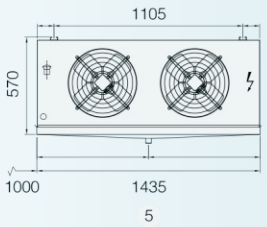
Common Data

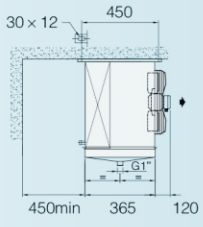
Tube length	m	26	35	43	52	69	86
Circuit Vol.	dm^3	2.0	2.7	3.4	4.1	5.4	6.8
Fan Mot. No.		✇	✇	✇	✇	✇✇	✇✇
Air Flow	m^3/h	3050	2910	2840	2780	5820	5680
Air Throw	m	9	9	8	8	10	9
Voltage	V	220~240	220~240	220~240	220~240	380~415	380~415
Fan Mot. Amper	A	0.9	0.9	0.9	0.9	1.0	1.0
Fan Mot. Power	W	200	200	200	200	400	400
Electric Defrost	A	6.9	6.9	11.4	11.4	4.5 Y	9.1 Y
Electric Defrost	W	1500	1500	2500	2500	3000	5000
In Tube	inch.	1/2	1/2	1/2	1/2	1/2	1/2
Out Tube	inch.	7/8	7/8	7/8	7/8	1-1/8	1-1/8
Net Weight	kg	31	33	35	36	52	55
Drawing No.		④	④	④	④	⑤	⑤

* Defrost heater connection: Star Y , Neutral line must be connected

Dimensions







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Low profile commercial coolers

400mm Fan

Models		CL402R6	CL403R5	CL403R6	CL404R6	CL405R6
SC1: Ta 10℃ Te 0℃	KW	14.8	20.4	22.0	28.4	36.2
SC2: Ta 0℃ Te -8℃	KW	10.5	14.6	15.5	20.1	24.8
Surface	m^2	42.3	52.8	63.4	77.5	103.3
Fin Spacing	mm	4.5	4.5	4.5	4.5	4.5

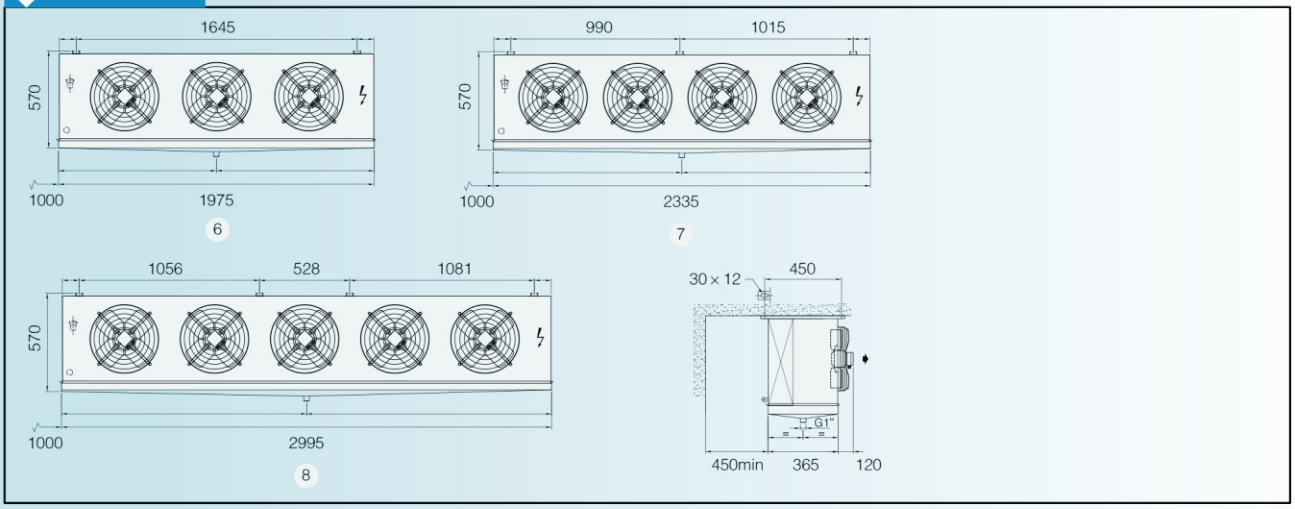
Models		CL402C6	CL403C5	CL403C6	CL404C6	CL405C6
SC2: Ta 0℃ Te -8℃	KW	9.1	12.5	14.0	17.8	22.3
SC3: Ta -18℃ Te -25℃	KW	6.3	8.6	9.8	12.1	14.5
SC4: Ta -25℃ Te -31℃	KW	4.9	6.7	7.7	9.4	11.1
Surface	m^2	29.2	36.5	43.8	53.5	71.3
Fin Spacing	mm	7	7	7	7	7

Common Data

Tube length	m	104	130	156	190	253
Circuit Vol.	dm^3	8.2	10.2	12.3	15.0	20.0
Fan Mot. No.		✇✇	✇✇✇	✇✇✇	✇✇✇✇	✇✇✇✇✇
Air Flow	m^3/h	5560	8520	8340	10600	13700
Air Throw	m	9	11	11	12	13
Voltage	V	380~415	380~415	380~415	380~415	380~415
Fan Mot. Amper	A	1.0	1.5	1.5	2.0	2.5
Fan Mot. Power	W	400	600	600	800	1000
Electric Defrost	A	9.1 Y	13.6 Y	13.6 Y	16.4 Y	21.8 Y
Electric Defrost	W	5000	7500	7500	9000	12000
In Tube	inch.	1/2	5/8	5/8	7/8	7/8
Out Tube	inch.	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8
Net Weight	kg	58	77	82	104	129
Drawing No.		⑤	⑥	⑥	⑦	⑧

* Defrost heater connection: Star Y , Neutral line must be connected

Dimensions



QUICKCOOL
Series Coils & Coolers

Industrial unit coolers

500mm Fan

Models		NT501R6	NT501R8	NT502R4	NT502R5	NT502R6	NT502R8	NT503R5
SC1: Ta 10℃ Te 0℃	KW	18.3	20.7	26.6	31.2	35.2	40.6	47. 6
SC2: Ta 0℃ Te -8℃	KW	13.7	15.1	20.2	23.9	26.1	29.3	35. 8
Surface	m^2	53	70	70	88	105	140	130
Fin Spacing	mm	4.5	4.5	4.5	4.5	4.5	4.5	4. 5

Models		NT501C6	NT501C8	NT502C4	NT502C5	NT502C6	NT502C8	NT503C5
SC2: Ta 0℃ Te -8℃	KW	11.3	12.2	17.5	20.3	22.6	25.4	30. 5
SC3: Ta -18℃ Te -25℃	KW	7.9	8.8	12.5	14.2	16.0	17.9	20. 8
SC4: Ta -25℃ Te -31℃	KW	6.2	6.9	8.9	11.1	12.5	14.0	16. 3
Surface	m^2	37	47	47	59	70	94	87
Fin Spacing	mm	7	7	7	7	7	7	7

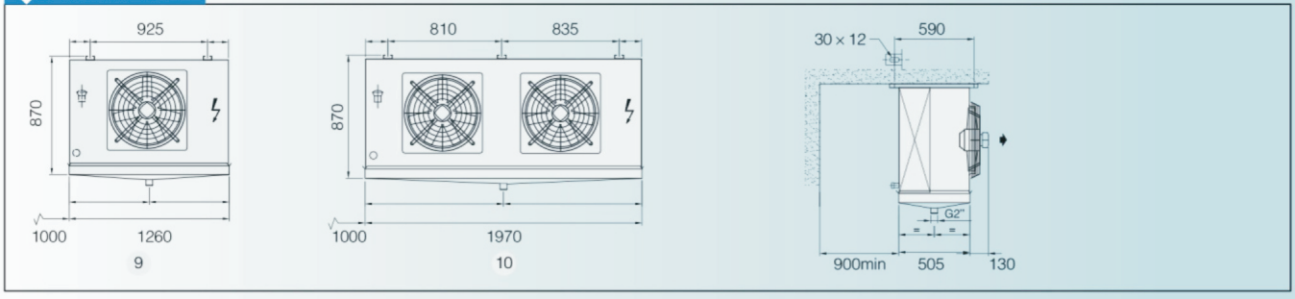
Models		NT501S6	NT501S8	NT502S4	NT502S5	NT502S6	NT502S8	NT503S5
SC3: Ta -18℃ Te -25℃	KW	7.2	8.3	10.6	12.7	14.3	16.6	19. 5
SC4: Ta -25℃ Te -31℃	KW	5.6	6.5	8.3	10.0	11.2	13.0	15. 3
SC5: Ta -34℃ Te -40℃	KW	5.1	5.4	6.7	8.6	10.3	11.1	12. 7
Surface	m^2	30	40	38	47	56	75	70
Fin Spacing	mm	9	9	9	9	9	9	9

Common Data

Tube length	m	130	173	130	162	194	259	240
Circuit Vol.	dm^3	10.2	13.6	17.7	22.2	26.6	35.5	33
Fan Mot. No.		✇	✇	✇✇	✇✇	✇✇	✇✇	✇✇✇
Air Flow	m^3/h	6750	6300	14000	13500	13000	12000	20250
Air Throw	m	17	16	20	19	18	17	18
Voltage	V	380~415	380~415	380~415	380~415	380~415	380~415	380 ~415
Fan Mot. Amper	A	1.5	1.5	3.0	3.0	3.0	3.0	4 5
Fan Mot. Power	W	630	630	1260	1260	1260	1260	1890
Electric Defrost	A	7.3 Y	7.3 Y	13.6 Y	13.6 Y	13.6 Y	13.6 Y	22 6△
Electric Defrost	W	4800	4800	9000	9000	9000	9000	12900
In Tube	inch.	5/8	5/8	5/8	5/8	5/8	7/8	7 ⅛
Out Tube	inch.	1-1/8	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8	1 -5 ⅛
Net Weight	kg	81	93	158	168	177	197	240
Drawing No.		⑨	⑨	⑩	⑩	⑩	⑩	⑪

* Defrost heater connection: Star Y , Neutral line must be connected

Dimensions



QUICKCOOL
Series Coils & Coolers

Industrial unit coolers

500 & 630mm Fan

Models		NT503C6	NT503C8	NT504C6	NT504C8	NT632C8	NT633C6	NT633C8
SC2: Ta 0℃ Te -8℃	KW	33.9	38.1	43.5	48.5	44.6	58.2	67.7
SC3: Ta -18℃ Te -25℃	KW	23.7	26.9	30.0	34.5	30.5	39.6	46.6
SC3: Ta -25℃ Te -31℃	KW	18.7	21.1	23.5	27.3	23.8	30.8	36.5
Surface	m^2	104	139	130	174	139	156	209
Fin Spacing	mm	7	7	7	7	7	7	7

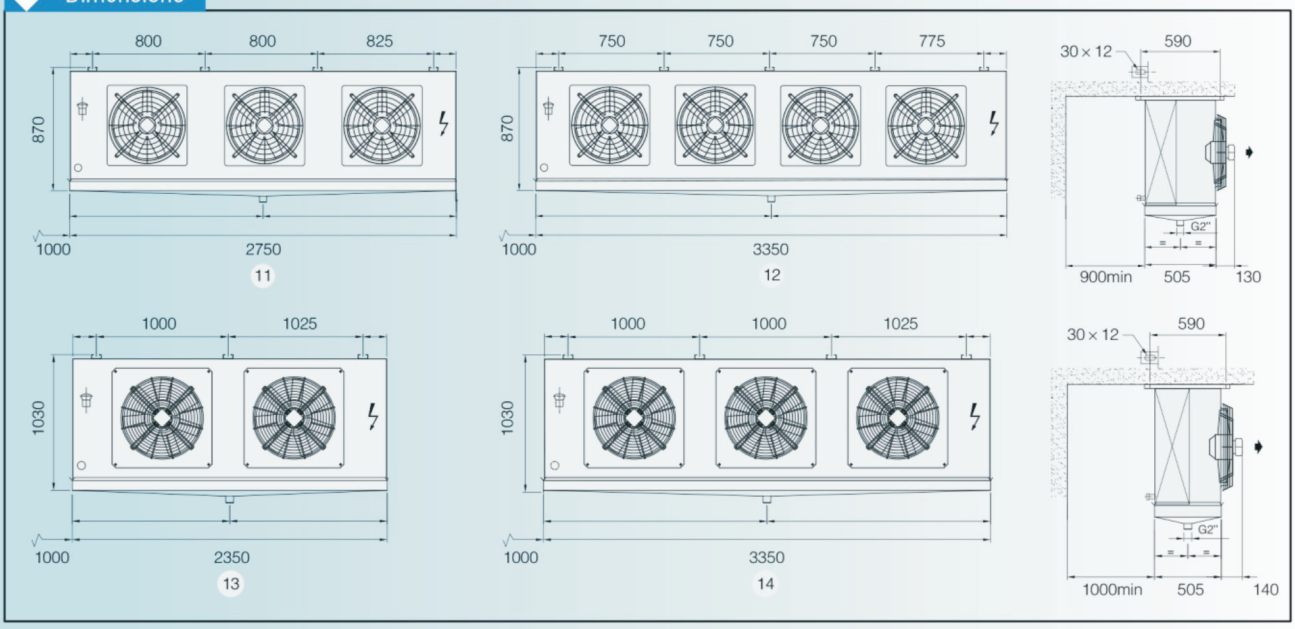
Models		NT503S6	NT503S8	NT504S6	NT504S8	NT632T8	NT633T6	NT633T8
SC3: Ta -18℃ Te -25℃	KW	21.8	24.9	27.9	32.2	28.7	37.0	43.8
SC4: Ta -25℃ Te -31℃	KW	17.2	19.5	22.1	24.9	22.5	28.9	34.5
SC5: Ta -34℃ Te -40℃	KW	14.9	16.9	18.6	22.3	18.8	23.8	28.9
Surface	m^2	84	111	104	139	102	114	153
Fin Spacing	mm	9	9	9	9	9-18	9-18	9-18

Common Data

Tube length	m	288	384	360	480	384	432	576
Circuit Vol.	dm^3	39.4	52.6	49	65.7	52.6	59.1	78.8
Fan Mot. No.		✇✇✇	✇✇✇	✇✇✇✇	✇✇✇✇	✇✇	✇✇✇	✇✇✇
Air Flow	m^3/h	19350	17950	24800	22800	24000	39150	36000
Air Throw	m	20	19	20	21	26	30	28
Voltage	V	380~415	380~415	380~415	380~415	380~415	380~415	380~415
Fan Mot. Amper	A	4.5	4.5	6.0	6.0	6.4	9.6	9.6
Fan Mot. Power	W	1890	1890	2520	2520	3200	4800	4800
Electric Defrost	A	22.6 △	22.6 △	28.4△	28.4 △	28.4 △	28.4 △	42.6 △
Electric Defrost	W	12900	12900	16200	16200	16200	16200	24300
In Tube	inch.	7/8	1-1/8	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8
Out Tube	inch.	1-5/8	2-1/8	2-1/8	2-1/8	2-1/8	2-1/8	2-1/8
Net Weight	kg	253	283	325	355	280	320	390
Drawing No.		⑪	⑪	⑫	⑫	⑬	⑭	⑭

* Defrost heater conn. : Delta △

Dimensions



QUICKCOOL
Series Coils & Coolers

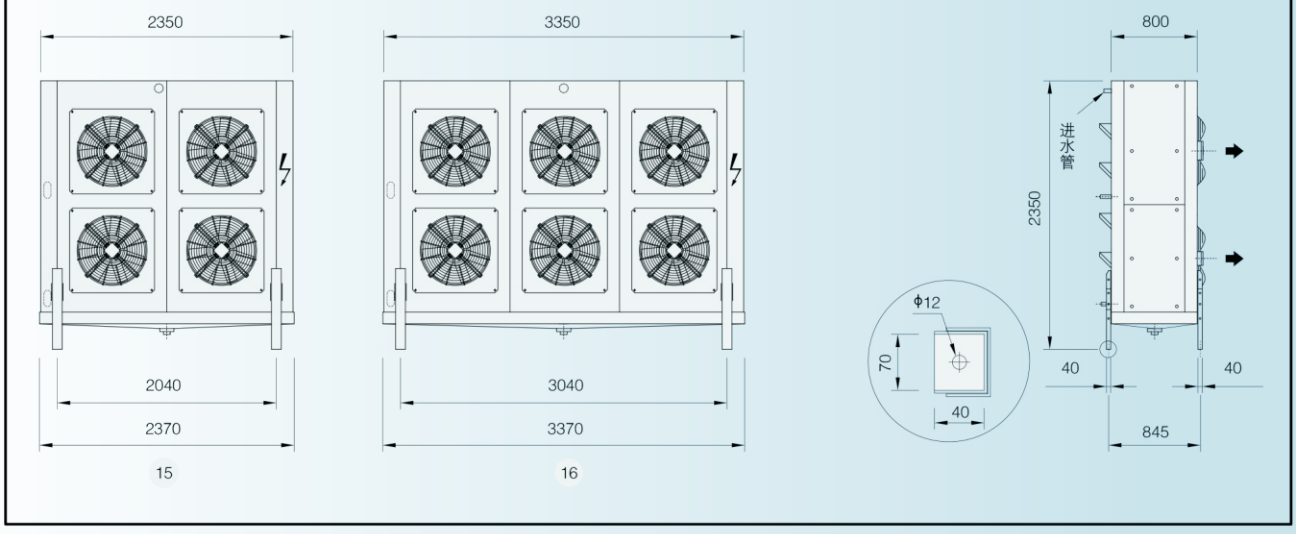
Blast chillers & Freezers

630mm Fan

Models		NF634T6	NF634T8	NF636T6	NF636T8
SC4: Ta -25℃ Te -31℃	KW	36.0	43.4	55.0	65.4
SC5: Ta -34℃ Te -40℃	KW	29.6	36.4	45.6	55.4
Surface	m^2	152	204	228	306
Fin Spacing (Inter-change)	mm	9-18	9-18	9-18	9-18
Tube length	m	576	768	864	1152
Circuit Vol.	dm^3	78.8	105.1	118.3	157.7
Fan Mot. No.		✇✇ ✇✇	✇✇ ✇✇	✇✇✇ ✇✇✇	✇✇✇ ✇✇✇
Air Flow	m^3/h	53200	48400	79800	72600
Air Throw	m	28	26	30	28
Voltage	V	380~415	380~415	380~415	380~415
Fan Mot. Amper	A	12.8	12.8	19.2	19.2
Fan Mot. Power	W	6400	6400	9600	9600
Electric Defrost	A	37.9 △	56.8 △	56.8 △	85.8 △
Electric Defrost	W	21600	32400	32400	48600
In Tube	inch.	2 × 7/8	2 × 1-1/8	2 × 1-1/8	2 × 1-3/8
Out Tube	inch.	2 × 1-5/8	2 × 2-1/8	2 × 2-1/8	2 × 2-1/8
Net Weight	kg	560	620	760	840
Min Water Flow Rate	m^3/h	9	12	12	14
Max Water Flow Rate	m^3/h	15	18	18	23
Optimum Flow Rate	m^3/h	12	14	14	18
Water Pipe Size	inch.	G 2	G 2	G 2	G 2
Drain Connection	inch.	G 4	G 4	G 5	G 5
Drawing No.		⑮	⑮	⑯	⑯

* Defrost heater conn. : Delta △

Dimensions



QUICKCOOL
Series Coils & Coolers

Dual discharge coolers

300mm Fan

Models		ND301A4F	ND302A4F	ND303A4F	ND304A4F	ND305A4F
SC1: Ta 10℃ Te 0℃	KW	4.8	8.8	12.4	16.4	20.2
Surface	m^2	16.8	28.0	41.1	50.5	59.8
Fin Spacing	mm	3.5	3.5	3.5	3.5	3.5

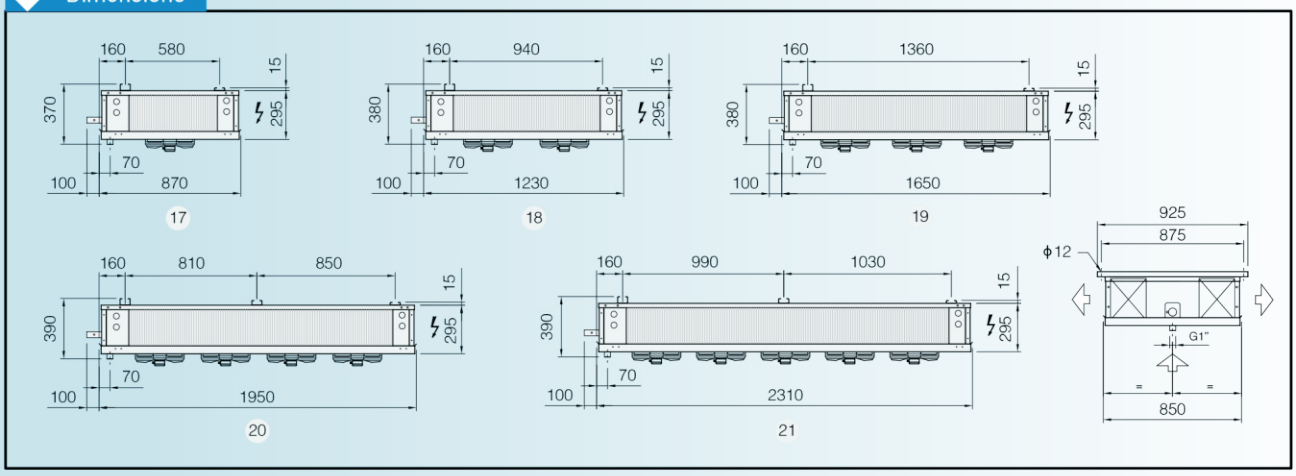
Models		ND301C4	ND302C4	ND303C4	ND304C4	ND305C4
SC1: Ta 10℃ Te 0℃	KW	3.8	6.4	9.8	12.0	15.4
SC2: Ta 0℃ Te -8℃	KW	2.4	4.3	7.0	8.4	10.6
Surface	m^2	8.9	14.9	21.8	26.8	32.7
Fin Spacing	mm	7	7	7	7	7

Common Data

Tube length	m	35	58	84	104	127
Circuit Vol.	dm^3	2.7	4.5	6.7	8.2	10.0
Fan Mot. No.		✇	✇✇	✇✇✇	✇✇✇✇	✇✇✇✇✇
Air Flow	m^3/h	1900	3600	5400	7000	8600
Air Throw	m	7	7	7	7	7
Voltage	V	220~240	220~240	220~240	380~415	380~415
Fan Mot. Amper	A	0.4	0.8	1.2	1.2	1.5
Fan Mot. Power	W	85	170	255	340	425
Electric Defrost	A	4.6	7.3	11.0	6.8 Y	8.2 Y
Electric Defrost	W	1000	1600	2400	3000	3600
In Tube	inch.	1/2	1/2	1/2	1/2	5/8
Out Tube	inch.	5/8	5/8	5/8	5/8	1 1/8
Net Weight	kg	32	46	61	73	86
Drawing No.		⑰	⑱	⑲	⑳	㉑

* Defrost heater connection: Star Y , Neutral line must be connected

Dimensions



QUICKCOOL
Series Coils&Coolers

Ultra low profile coolers

300mm Fan

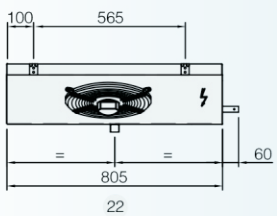
Models		CE301A4F	CE301A6F	CE302A3F	CE302A4F	CE302A6F	CE303A4F	CE303A6F
SC1: Ta 10℃ Te 0℃	KW	2.3	2.7	3.9	4.7	5.5	7.0	8.0
Surface	m^2	6.3	9.5	9.5	12.6	18.9	18.9	28.4
Fin Spacing	mm	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Models		CE301C4	CE301C6	CE302C3	CE302C4	CE302C6	CE303C4	CE303C6
SC2: Ta 0℃ Te -8℃	KW	1.3	1.6	2.2	2.6	3.2	4.0	4.9
SC3: Ta -18℃ Te -25℃	KW	0.9	1.1	1.5	1.9	2.3	2.7	3.2
Surface	m^2	3.4	5.0	5.0	6.7	10.1	10.1	15.1
Fin Spacing	mm	7	7	7	7	7	7	7

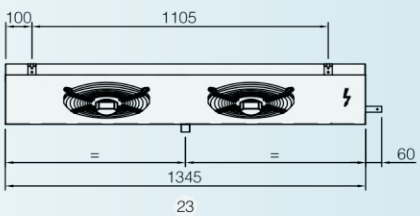
Common Data

Tube length	m	13	19	19	26	39	39	58
Circuit Vol.	dm^3	1.0	1.5	1.5	2.0	3.1	3.1	4.6
Fan Mot. No.		✇	✇	✇✇	✇✇	✇✇	✇✇✇	✇✇✇
Air Flow	m^3/h	1150	1020	2500	2300	2040	3450	3060
Air Throw	m	6	5	7	7	6	8	7
Voltage	V	220~240	220~240	220~240	220~240	220~240	220~240	220~240
Fan Mot. Amper	A	0.4	0.4	0.8	0.8	0.8	1.2	1.2
Fan Mot. Power	W	85	85	170	170	170	255	255
Electric Defrost	A	4.5	6.8	9.1	9.1	13.6	13.6	20.5
Electric Defrost	W	1000	1500	2000	2000	3000	3000	4500
In Tube	inch.	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Out Tube	inch.	5/8	5/8	5/8	5/8	7/8	7/8	7/8
Net Weight	kg	13	16	19	22	28	32	40
Drawing No.		㉒	㉒	㉓	㉓	㉓	㉔	㉔

Dimensions



22



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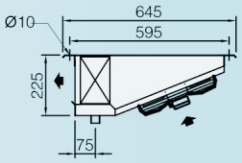
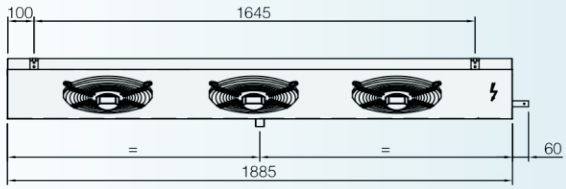




24

QUICKCOOL
Series Coils & Coolers

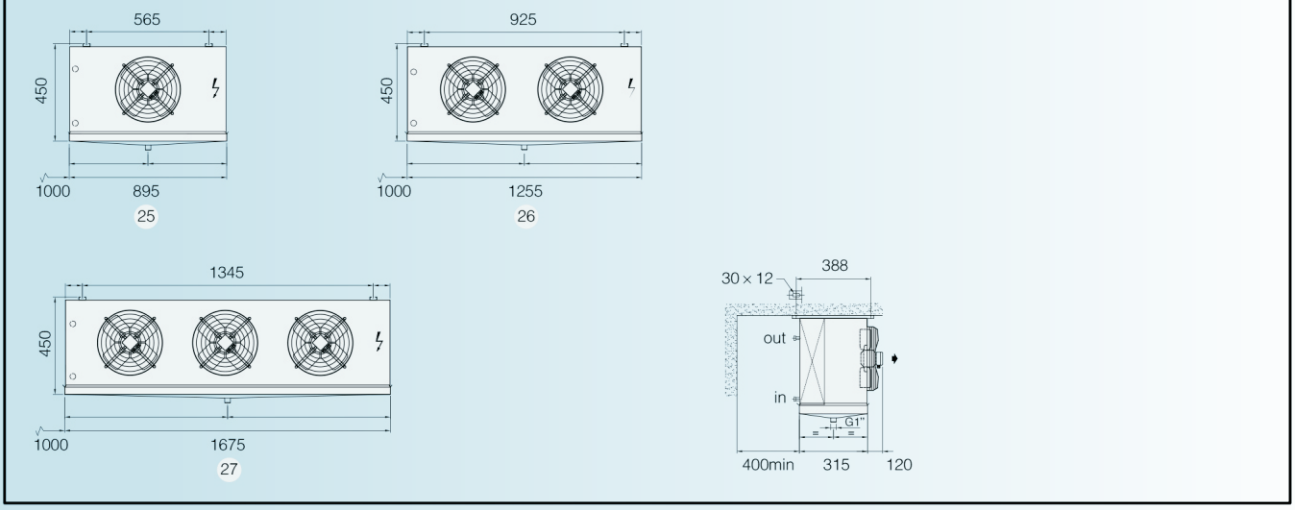
Brine coolers

300mm Fan

Models t1=-3℃ t2=2℃ ta=10℃		BT301R3	BT302R3	BT302R4	BT302R5	BT303R4	BT303R5
Capacity	KW	3.1	5.2	7.5	8.4	11.0	12.6
Glycol Flow	l/s	0.16	0.27	0.39	0.44	0.57	0.66
Pressure Drop	kPa	93.5	46.9	108.6	60.3	101.6	73.7
Surface	m^2	9.8	16.3	21.7	27.2	31.9	39.9
Fin Spacing	mm	4	4	4	4	4	4
Tube length	m	16	27	36	45	53	66
Circuit Vol.	dm^3	2.2	3.7	4.9	6.2	7.2	9.0
Fan Mot. No.		✇	✇✇	✇✇	✇✇	✇✇✇	✇✇✇
Air Flow	m^3/h	1350	2500	2400	2350	3600	3500
Air Throw	m	5	7	7	6	8	7
Voltage	V	220~240	220~240	220~240	220~240	220~240	220~240
Fan Mot. Amper	A	0.4	0.8	0.8	0.8	1.2	1.2
Fan Mot. Power	W	85	170	170	170	255	255
Electric Defrost	A	6.9	11.0	11.0	11.0	16.4	16.4
Electric Defrost	W	1500	2400	2400	2400	3600	3600
In Tube	inch.	1/2	5/8	5/8	5/8	5/8	7/8
Out Tube	inch.	1/2	5/8	5/8	5/8	5/8	7/8
Net Weight	kg	22	34	35	37	56	59
Drawing No.		㉕	㉖	㉖	㉖	㉗	㉗

t1： Cooling medium inlet temperature
ta： Air inlet temperature RH=85%
t2： Cooling medium outlet temperature
Cooling medium： 25 Vol.% glycol

Dimensions



QUICKCOOL
Series Coils & Coolers

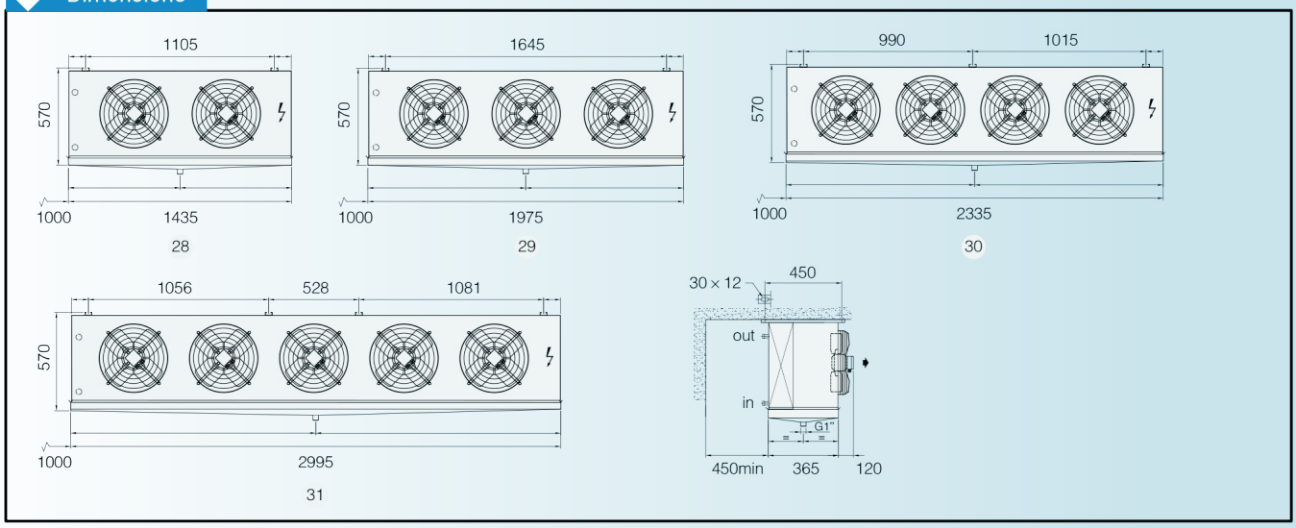
Brine coolers

400mm Fan

Models t1=-3℃ t2=2℃ ta=10℃		BT402R3	BT402R4	BT402R5	BT403R4	BT403R5	BT404R5	BT405R5
Capacity	KW	9.5	12.4	14.6	20.4	24.2	29.2	38.7
Glycol Flow	l/s	0.49	0.64	0.76	1.06	1.26	1.51	2.01
Pressure Drop	kPa	66.3	65.1	61.2	104.6	106.5	92.0	107.5
Surface	m^2	25	34	42	51	64	78	104
Fin Spacing	mm	4	4	4	4	4	4	4
Tube length	m	42	56	70	84	105	129	172
Circuit Vol.	dm^3	5.8	7.7	9.6	11.5	14.4	17.6	23.5
Fan Mot. No.		✇✇	✇✇	✇✇	✇✇✇	✇✇✇	✇✇✇✇	✇✇✇✇✇
Air Flow	m^3/h	5500	5200	4900	7800	7350	9500	12000
Air Throw	m	10	9	9	10	10	11	12
Voltage	V	380~415	380~415	380~415	380~415	380~415	380~415	380~415
Fan Mot. Amper	A	1.0	1.0	1.0	1.5	1.5	2.0	2.5
Fan Mot. Power	W	400	400	400	600	600	800	1000
Electric Defrost	A	4.5 Y	4.5 Y	4.5 Y	6.8 Y	6.8 Y	8.2 Y	10.9 Y
Electric Defrost	W	3000	3000	3000	4500	4500	5400	7200
In Tube	inch.	5/8	7/8	7/8	7/8	7/8	1-1/8	1-1/8
Out Tube	inch.	5/8	7/8	7/8	7/8	7/8	1-1/8	1-1/8
Net Weight	kg	51	54	57	80	85	105	130
Drawing No.		㉘	㉘	㉘	㉙	㉙	㉚	㉛

t1： Cooling medium inlet temperature t2： Cooling medium outlet temperature
ta： Air inlet temperature RH=85% Cooling medium： 25 Vol.% glycol
* Defrost heater connection : Star Y , Neutral line must be connected

Dimensions



QUICKCOOL
Series Coils & Coolers

Air cooled condensers

Fin Spacing 2.6mm

Models		CU - 22qc	CU - 32qc	CU - 36qc	CU - 40qc	CU - 50qc	CU - 64qc	CU - 72qc
R22 Capacity	KW	4.8	5.4	7.3	7.9	10.7	14.8	16.0
R404a Capacity	KW	5.2	5.8	8.0	8.5	11.7	16.1	17.3
Surface	m^2	8.9	11.9	14.9	16.6	21.9	29.7	37.1
Circuit Volume	dm^3	1.7	2.3	2.8	3.2	4.2	5.7	7.1
Fan Moto.	No. × mm	1 × 350	1 × 350	1 × 400	1 × 400	1 × 450	2 × 400	2 × 400
Air Flow	m^3/h	1700	1600	2150	2250	3150	4300	4000
FanMot. Amper	A	0.38	0.38	0.47	0.47	0.60	0.94	0.94
FanMot. Power	W	140	140	180	180	250	360	360
Acoustic	Dba	39	39	43	43	44	46	46
Net Weight	kg	18	20	25	27	35	43	46
In Tube	inch.	1/2	1/2	1/2	1/2	5/8	5/8	5/8
Out Tube	inch.	3/8	3/8	3/8	3/8	1/2	1/2	1/2

Models		CU - 80qc	CU - 90qc	CU - 100qc	CU - 125qc	CU - 144qc	CU - 160qc
R22 Capacity	KW	18.8	20.3	23.0	32.2	35.5	38.3
R404a Capacity	KW	20.3	22.0	24.7	35.0	38.3	41.0
Surface	m^2	36.3	45.4	53.6	58.7	72.4	85.8
Circuit Volume	dm^3	6.9	8.7	10.2	11.2	14.0	16.4
Fan Moto.	No. × mm	2 × 450	2 × 450	2 × 450	2 × 500	2 × 500	2 × 500
Air Flow	m^3/h	5600	5200	5800	9800	9300	9800
FanMot. Amper	A	1.20	1.20	1.20	1.80	1.80	1.80
FanMot. Power	W	500	500	500	900	900	900
Acoustic	Dba	47	47	47	55	55	55
Net Weight	kg	52	56	63	79	85	93
In Tube	inch.	5/8	7/8	7/8	1 1/8	1 1/8	1 1/8
Out Tube	inch.	1/2	5/8	5/8	3/4	3/4	7/8

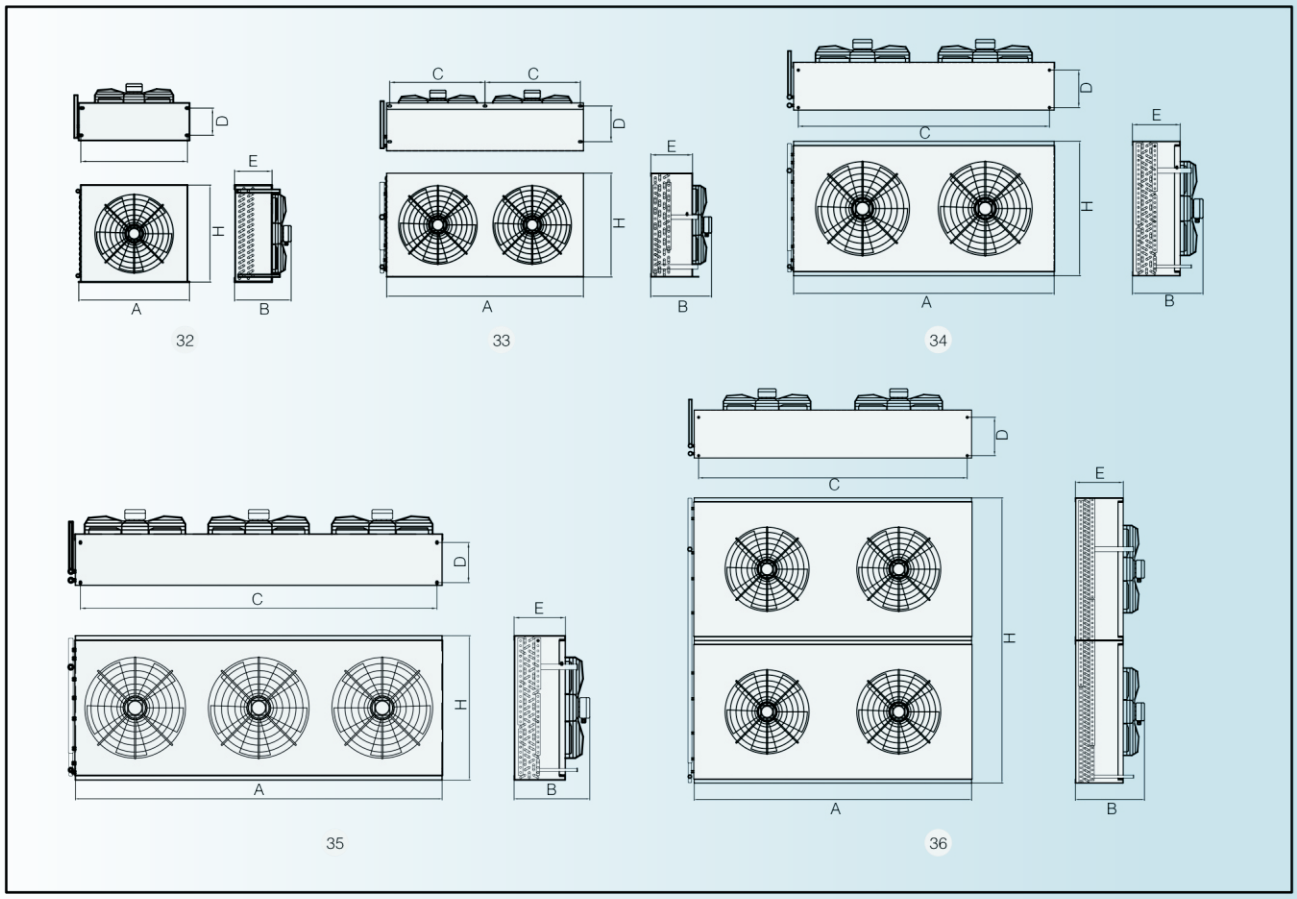
Models		CU - 200qc	CU - 250qc	CU - 300qc	CU - 350qc	CU - 400qc	CU - 500qc
R22 Capacity	KW	47.6	64.9	78.2	86.3	96.9	120.1
R404a Capacity	KW	51.5	69.9	84.2	93.0	104.4	130.4
Surface	m^2	110	149	164	198	222	278
Circuit Volume	dm^3	21.0	28.4	31.5	37.8	42.4	53.1
Fan Moto.	No. × mm	2 × 500	3 × 500	4 × 500	4 × 500	4 × 630	4 × 630
Air Flow	m^3/h	11800	16200	22400	21600	40000	42000
FanMot. Amper	A	1.80	2.70	3.60	3.60	8.80	8.80
FanMot. Power	W	900	1350	1800	1800	4400	4400
Acoustic	Dba	55	57	58	58	65	65
Net Weight	kg	112	143	180	195	230	260
In Tube	inch.	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Out Tube	inch.	7/8	7/8	1	1	1 1/8	1 1/8

QUICKCOOL
Series Coils & Coolers

Air cooled condensers

Dimensional features

Models	Size (mm)						No.
	A	B	C	D	E	H	
CU - 22qc	460	290	430	120	180	460	㉜
CU - 32qc	460	290	430	120	180	460	㉜
CU - 36qc	510	320	480	140	200	510	㉜
CU - 40qc	560	320	530	140	200	510	㉜
CU - 50qc	660	320	630	140	200	560	㉜
CU - 64qc	960	320	465	175	200	510	㉝
CU - 72qc	960	340	465	195	220	510	㉝
CU - 80qc	1060	320	515	175	200	560	㉝
CU - 90qc	1060	340	515	195	220	560	㉝
CU - 100qc	1060	360	515	215	240	660	㉝
CU - 125qc	1390	370	1290	170	250	725	㉞
CU - 144qc	1390	370	1290	170	250	725	㉞
CU - 160qc	1390	370	1290	170	250	850	㉞
CU - 200qc	1600	390	1500	200	270	940	㉞
CU - 250qc	2120	390	2020	200	270	940	㉟
CU - 300qc	1600	400	1500	200	280	1415	㊱
CU - 350qc	1600	400	1500	200	280	1415	㊱
CU - 400qc	1680	480	1521	270	350	1500	㊱
CU - 500qc	1820	480	1671	270	350	1685	㊱



QUICKCOOL
Series Coils & Coolers

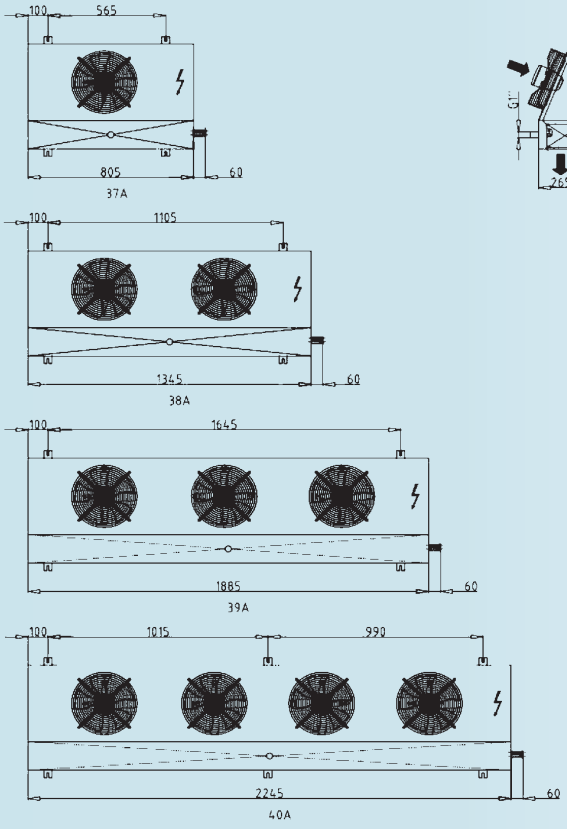
Ultra low profile coolers

ACE Ultra Low Profile coolers

Fin Spacing 6.0mm

Models		ACE301C4	ACE301C6	ACE302C3	ACE302C4	ACE302C6	ACE303C4	ACE303C6	ACE304C6
Ta 0℃	R22	1.7	2.4	3.0	3.6	4.4	5.0	7.2	8.0
Te -8℃	R404A	1.7	2.4	3.1	3.8	4.5	5.1	7.2	8.2
Ta -18℃	R22	1.2	1.7	2.2	2.6	3.1	3.6	4.8	5.4
Te -25℃	R404A	1.2	1.7	2.2	2.6	3.1	3.6	4.9	5.5
Tube length	m	13	19	19	26	39	39	58	71
Surface	m^2	5.4	8.1	8.1	10.8	16.2	16.2	24.3	30.1
Circuit Vol.	dm^3	1.8	2.7	2.7	3.6	5.4	5.4	8.1	9.9
Fan Mot. No.		1	1	2	2	2	3	3	4
Air Flow	m3/h	1200	1100	2400	2100	2200	3600	3300	4200
Air Throw	m	4	4	6	5	5	7	6	8
Air Mot. Amper	A	0.42	0.42	0.84	0.84	0.84	1.26	1.26	1.68
Air Mot. Power	W	85	85	170	170	170	255	255	340
Electric Defrost	A	4.5	4.5	9.1	9.1	13.6	13.6	20.5	24.5
Electric Defrost	W	1000	1500	2000	2000	3000	3000	4500	5400
in Tube	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
out Tube	inch	5/8	5/8	5/8	5/8	7/8	7/8	7/8	7/8
Net Weight	kg	15	18	21	24	20	34	43	55
Drawing No.		37A	37A	38A	38A	38A	39A	39A	40A

ACE 30



QUICKCOOL
Series Coils & Coolers

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