ENGINEERED TO ENDURE
MANUFACTURED FOR SUCCESS

UNIT COOLERS

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V1.5

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Contact

For inquiries, consultations, or to learn more about our innovative refrigeration solutions, please get in touch with us:
sales@rimegroup.com

For customer support email us:
support@rimegroup.com

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About rime Group

rime is a dynamic and innovative refrigeration company that manufactures state-of-the-art refrigeration products and provides turnkey solutions for commercial and industrial applications. We have over 20 years of expertise, and with a relentless commitment to excellence and a passion for innovation, we have emerged as a leading player in the Middle Eastern and African HVAC and refrigeration Industry.

Our Mission

To offer readily available, competitively priced, and durable products, providing a seamless and convenient purchasing experience for the customer and supported by excellent after-sales services.

Our Vision

To become the top HVAC-R industry in the Middle East and Africa by benchmarking innovative, cost-effective solutions. To pioneer cutting-edge technologies that optimize energy efficiency and make a positive impact globally.

Core Values

Responsiveness: At rime, we value effective communication to meet the needs of our clients, partners, and team members.

Integrity: We value integrity, ethics, transparency, and honesty in all our business relationships. Building trust with stakeholders is our priority.

Mindfulness: We prioritize mindfulness and sustainability in our refrigeration solutions to reduce our ecological impact and promote a greener future.

Empowerment: We promote creativity, growth, and teamwork. We value everyone's input and encourage collaboration.

rime. **Unit Coolers**

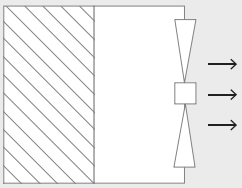
rime manufactures unit coolers as part of its product line for refrigeration and HVAC applications. rime Unit coolers delivers superior efficiency in a variety of applications. With innovative design features and durable construction, our Unit coolers ensure reliable and consistent performance, even in the most demanding environments. Whether for cold stores, freezing tunnels, or industrial refrigeration, rime unit coolers provide the solutions you need for success.

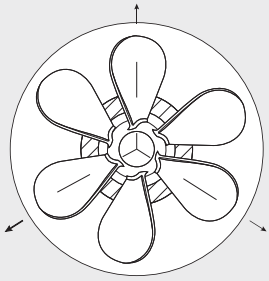
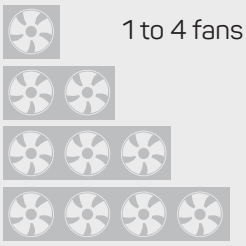
UNIT COOLER

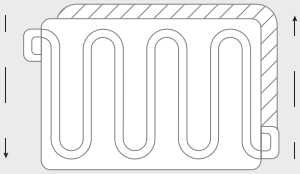
Product Overview

rime cubic draw-through unit coolers come with ebm-papst AC fans and are suitable for medium or low-temperature cold storage, commercial refrigeration, and industrial refrigeration. Their nominal capacities range from 2 to 98 kW.

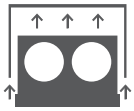
Unit coolers are available in three types of fin spacings: 4.5mm, 7mm, or 10mm, depending on their intended application. Standard models are equipped with electric defrost elements and can be customized to include air circulation upon customer request.

Technical Details	Capacity					
	Refrigerant	Te (° C)	Tr (° C)	FS=4.5 mm	FS=7 mm	FS=10 mm
Air-flow Direction  Draw Through	· R404 · R507	-10	0	3.7-98.3 kw	3.1-89.9 kw	2.5-85.7 kw
		-8	0	2.9-80.2 kw	2.4-72.4 kw	
		-25	-18		2.1 -56.1 kw	1.7-52.7 kw
		-35	-30			1.1-32.4 kw

	No. of Fans	Diameter	Available Defrost Type	
	 1 to 4 fans	· 300mm · 400mm · 500mm · 630mm	Electrical	Air Circulation
			☑ Coil	☑
			☑ Tray	

	Heat Exchanger	Available Material	Components			
			Tube	Fin	Casing	Tray
	Highly efficient with optimized tube and fin patterns	Aluminum		☑		☑
	Fin Spacing 4.5mm | 7mm | 10mm	Copper	☑			
		Galvanized Steel			☑	

General Features



Hinged outer tray for easy access and maintenance.

Outer tray thermally decoupled to prevent water condensation.

Optimize energy efficiency, reducing costs effectively

Easy access to all components for convenient servicing and upkeep.

DESIGN & FEATURES

1 COIL

Material	Aluminum fins
Fin Spacing	4.5mm spacing suits applications with air temperatures above 0°C
	7mm spacing is ideal for applications with air temperatures below 0°C
	10mm spacing is suitable for low temperature applications
Tube Material	The coils are constructed with 5/8 inch copper tubes
Tube Configuration	Tubes staggered in the air-flow direction
Circuiting	The adapted pipe circuiting ensures safe operation and high efficiency
Thermal Contact	Copper tubes are mechanically expanded into fully collared aluminum fins, ensuring excellent thermal contact
Suction Header	Suction headers are equipped with Schrader valves for testing applications
Testing and Assurance	Leak tested and supplied with light overpressure charge for quality assurance

2 CASING

Material	Galvanized steel for all models
Coating	Electrostatic powder coating
Advantages	Resistant to corrosion and oxidation, prevents body vibration, suitable for ceiling mounting
Refrigerant Connections	Fixed on the left-hand side of the unit (fan side view)

3 FAN

Type	ebm-papst axial fans
Blade Design	Hybrid blade design
Material	High-strength, corrosion-resistant aluminum alloy with a jacket of special, fiber-reinforced plastics
Advantages	Quiet, powerful, and durable; reduces noise significantly; increases efficiency; suitable for refrigeration applications
Guard Grill	Provides physical barrier around spinning fan blades to prevent accidental contact with fingers or other objects
Wiring	Factory-wired with protection system against overload and heat
Protection Class	IP54
Temperature Range	Wide temperature range

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DESIGN & FEATURES

Electric Defrost

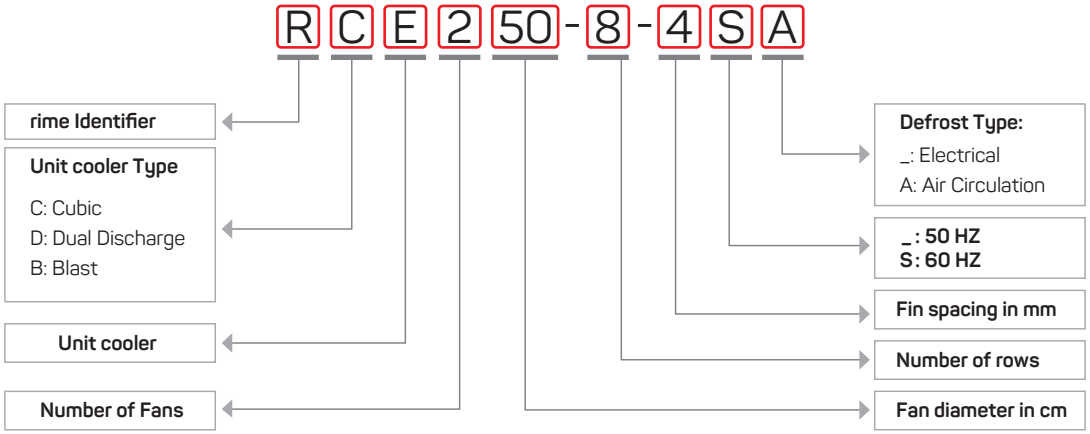
Heater Element	Stainless steel heater elements made of AISI 321 material are inserted into holes within the fin patterns.
Lifespan	Long lifespan due to low power density
Standard Voltage	220V
Two Wiring Options	Single-phase models: Both sides of the element are connected to the phase and null lines
	Three-phase models: One end is connected to the input phase lines while the other end is connected to a common point
Installation	Elements are fastened under the drain pan, enabling homogenous heat distribution for efficient defrosting
Removal	All elements can be withdrawn at the refrigerant connection side (hairpin side), and the drip tray element can be taken out after removal of the outer tray

Refrigerant Distributor

Material	Typically constructed from durable materials such as brass to withstand the corrosive effects of refrigerants and ensure long-term reliability.
Function	Equally distributes refrigerant flow from the expansion valve into each circuit of the unit cooler coil. Vital for proper system performance as refrigerant distribution directly affects the operation of the expansion valve and the unit cooler coil.
Interchangeable Nozzles	Allows for precise refrigerant distribution to the unit cooler coil.

NOMENCLATURE

Following Nomenclature Has Been Used For Defining Rime Unit Cooler



CORRECTION FACTORS

Capacity Determination and Correction Factors

The nominal capacities of rime unit coolers are based on R404A, ΔT=10°C and T_e=-10°C. ΔT is the difference between the air-on temperature and the evaporation temperature of the unit cooler. The evaporation temperature is the saturated temperature corresponding to the pressure at the suction outlet of the unit cooler.

Correction factors for various evaporation temperatures and temperature differences (ΔT) are as indicated in the tables below. The requested capacity must be divided by a capacity correction factor from the table. If another refrigerant is used, it should be multiplied by the refrigerant factor so that a cooler with the resulting nominal capacity can be chosen from the selection tables due to the required FS. It's important to note that the calculated capacity should be referenced in the table under Tr=0°C, ΔT=10°C.

The formula for calculating the nominal capacity of the unit cooler using correction factors is:

$$Q\ nominal = \frac{Q requested \times Fr}{Fc}$$

Where:

- $Q\ nominal$ is the nominal capacity of the evaporator.
- $Q requested$ is the requested cooling capacity.
- Fr is the refrigerant factor.
- Fc is the correction factor.

Selection Example ΔT

Refrigerant	R-404A	1) ΔT= -16-(-25) = 9 K
Required cooling capacity	6.8Kw	2) Correction capacity factor @(ΔT=9/R-404A/Te=-25°C): 0.85
Air-on temperature	-16°C	3) The nominal capacity is calculated as 6.8/0.85=8 kW.
Evaporating temperature	-25°C	4) The Model is selected from the nominal capacity tables.

Possible Selection

Considering that the unit cooler temperature is -25°C, fin spacing 7mm is suitable, and according to the desired air throw, the following options can be used.

RCE140.6.7 (Q=7.8 kW) /RCE330.4.7(Q=9.2 kW)

CORRECTION FACTOR									
Te									Fc
-40	-30	-28	-25	-15	-10	-8	-5	0	ΔT
0.44	0.45	0.45	0.45	0.46	0.47	0.47	0.48	0.50	5
0.54	0.57	0.57	0.57	0.58	0.58	0.58	0.60	0.63	6
0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.70	0.73	7
0.72	0.75	0.76	0.77	0.78	0.78	0.78	0.80	0.82	8
0.81	0.82	0.83	0.85	0.87	0.89	0.89	0.89	0.91	9
0.90	0.95	0.98	0.98	0.99	1.00	1.01	1.01	1.02	10
0.98	1.05	1.09	1.10	1.10	1.11	1.11	1.11	1.11	11
1.07	1.08	1.10	1.11	1.15	1.18	1.20	1.23	1.23	12

Refrigerant	R404A	R134A	R22
Fr	**1**	**1.07**	**1.05**

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SELECTION GUIDE

FAN 300 mm

FS=4.5 mm

MODEL		RCE130.4.4	RCE130.6.4	RCE230.4.4	RCE230.6.4	RCE330.4.4	RCE330.6.4
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	3.7	4.4	7.5	8.8	10.7	12.8
Practical Capacity (Kw)	ΔT=8, T_r =0°C	2.9	3.3	5.9	6.9	8.6	10.3
	ΔT=7, T_r =-18°C	-	-	-	-	-	-
Air Flow (m^3/h)		1380	1250	2760	2510	4140	3760
Air Throw (m)		18	14	22	17	24	19
Heat Transfer Area (m^2)		13.3	20	26.6	39.9	39.9	59.9
Weight (kg)		43	51	66	80	86	108

FS=7 mm

MODEL		RCE130.4.7	RCE130.6.7	RCE230.4.7	RCE230.6.7	RCE330.4.7	RCE330.6.7
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	3.1	3.7	6.2	7.7	9.2	11.5
Practical Capacity (Kw)	ΔT=8, T_r =0°C	2.4	2.8	4.8	6.0	7.3	9.1
	ΔT=7, T_r =-18°C	2.1	2.5	4.2	5.3	5.9	7.6
Air Flow (m^3/h)		1450	1330	2910	2670	4360	4000
Air Throw (m)		19	16	23	19	25	22
Heat Transfer Area (m^2)		8.8	13.2	17.6	26.4	26.4	39.7
Weight (kg)		42	49	64	76	83	103

FS=10 mm

MODEL		RCE130.4.10	RCE130.6.10	RCE230.4.10	RCE230.6.10	RCE330.4.10	RCE330.6.10
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	2.5	3.1	5.1	6.6	7.7	10.0
Practical Capacity (Kw)	ΔT=7, T_r =-18°C	1.7	2.1	3.5	4.5	5.1	6.7
	ΔT=5, T_r =-30°C	1.1	1.4	2.3	3.0	3.4	4.5
Air Flow (m^3/h)		1500	1390	3010	2790	4510	4190
Air Throw (m)		21	19	25	22	28	25
Heat Transfer Area (m^2)		6.4	9.6	12.8	19.2	19.2	28.7
Weight (kg)		41	48	62	73	79	97

Common Data

Fan 300 mm	No. of Fans						
	Electrical Supply	1ph/220-240V/50HZ	1ph/220-240V/50HZ	1ph/220-240V/50HZ	1ph/220-240V/50HZ	1ph/220-240V/50HZ	1ph-220-240V/50HZ
Coil	Power (W)	72	72	2x72	2x72	3x72	3x72
	Volume (L)	2.5	3.8	5.0	7.5	7.5	11.3
Connection	Inlet (Inch)	3/8	1/2	1/2	1/2	1/2	5/8
	Outlet (Inch)	5/8	5/8	7/8	7/8	7/8	1 1/8

FAN 400 mm

FS=4.5 mm

MODEL		RCE140.4.4	RCE140.6.4	RCE240.4.4	RCE240.6.4	RCE340.4.4	RCE340.6.4
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	7.5	8.9	14.9	16.6	21.9	26.0
Practical Capacity (Kw)	ΔT=8, T_r =0°C	5.8	7.1	11.6	13.5	17.4	20.9
	ΔT=7, T_r =-18°C	-	-	-	-	-	-
Air Flow (m^3/h)		3250	2940	6290	5720	9440	8590
Air Throw (m)		20	18	24	22	27	24
Heat Transfer Area (m^2)		22.2	33.3	44.4	66.5	66.5	99.8
Weight (kg)		58	71	97	117	133	162

FS=7 mm

MODEL		RCE140.4.7	RCE140.6.7	RCE240.4.7	RCE240.6.7	RCE340.4.7	RCE340.6.7
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	6.2	7.8	12.2	14.9	18.4	23.1
Practical Capacity (Kw)	ΔT=8, T_r =0°C	4.7	6.2	9.4	12.0	14.4	18.3
	ΔT=7, T_r =-18°C	4.2	5.2	8.4	9.4	12.0	14.9
Air Flow (m^3/h)		3420	3140	6600	6080	9900	9130
Air Throw (m)		22	20	26	24	29	26
Heat Transfer Area (m^2)		14.7	22.0	29.4	44.1	44.1	66.1
Weight (kg)		57	69	93	112	128	155

FS=10 mm

MODEL		RCE140.4.10	RCE140.6.10	RCE240.4.10	RCE240.6.10	RCE340.4.10	RCE340.6.10
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	5.0	6.8	9.9	13.1	15.3	20.0
Practical Capacity (Kw)	ΔT=7, T_r =-18°C	3.4	4.5	6.7	8.4	10.2	13.2
	ΔT=5, T_r =-30°C	2.2	3.0	4.4	5.5	6.8	8.7
Air Flow (m^3/h)		3540	3280	6810	6360	10220	9540
Air Throw (m)		24	21	29	25	32	28
Heat Transfer Area (m^2)		10.6	16.0	21.3	31.9	31.9	47.9
Weight (kg)		54	66	89	106	122	146

Common Data

Fan 400 mm	No. of Fans						
	Electrical Supply	1ph/220-240V/50HZ	1ph/220-240V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ
Coil	Power (W)	160	160	2x135	2x135	3x135	3x135
	Volume (L)	4.2	6.3	8.3	12.5	12.5	18.8
Connection	Inlet (Inch)	1/2	1/2	5/8	5/8	5/8	7/8
	Outlet (Inch)	7/8	7/8	1 1/8	1 1/8	1 3/8	1 3/8

SELECTION GUIDE

FAN 500 mm

FS=4.5 mm

MODEL		RCE150.4.4	RCE150.6.4	RCE150.8.4	RCE250.4.4	RCE250.6.4	RCE250.8.4
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	14.1	17.3	19.2	28.6	33.6	37.7
Practical Capacity (Kw)	ΔT=8, T_r =0°C	11.0	13.6	15.1	22.1	26.9	30.0
	ΔT=7, T_r =-18°C	-	-	-	-	-	-
Air Flow (m^3/h)		7060	6230	5670	14120	12450	11340
Air Throw (m)		30	29	26	36	35	32
Heat Transfer Area (m^2)		35.5	53.2	71.0	71.0	106.5	142.0
Weight (kg)		93	113	131	159	193	225

FS=7 mm

MODEL		RCE150.4.7	RCE150.6.7	RCE150.8.7	RCE250.4.7	RCE250.6.7	RCE250.8.7
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	11.3	15.0	17.1	23.4	29.6	34.3
Practical Capacity (Kw)	ΔT=8, T_r =0°C	8.9	11.6	13.3	17.9	23.4	27.1
	ΔT=7, T_r =-18°C	7.8	10.0	11.9	15.7	19.1	22.6
Air Flow (m^3/h)		7430	6690	6160	14870	13380	12330
Air Throw (m)		31	30	28	37	36	34
Heat Transfer Area (m^2)		23.5	35.3	47.0	47.0	70.5	94.0
Weight (kg)		91	109	125	154	185	214

FS=10 mm

MODEL		RCE150.4.10	RCE150.6.10	RCE150.8.10	RCE250.4.10	RCE250.6.10	RCE250.8.10
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	9.5	12.7	14.9	19.1	25.5	30.3
Practical Capacity (Kw)	ΔT=7, T_r =-18°C	6.4	8.6	10.2	12.9	16.7	20.2
	ΔT=5, T_r =-30°C	4.2	5.6	6.7	8.5	10.9	13.4
Air Flow (m^3/h)		7700	7040	6550	15390	14080	13090
Air Throw (m)		33	32	30	39	38	36
Heat Transfer Area (m^2)		17.0	25.5	34.1	34.1	51.1	68.1
Weight (kg)		87	104	119	147	175	201

Common Data

Fan 500 mm	No. of Fans						
	Electrical Supply	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ
Coil	Power (W)	720	690	690	2x720	2x690	2x690
	Volume (L)	6.7	10.0	13.3	13.3	20.0	26.7
Connection	Inlet (Inch)	5/8	5/8	7/8	7/8	7/8	1 1/8
	Outlet (Inch)	1 1/8	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8

FAN 500 mm

FS=4.5 mm

MODEL		RCE350.4.4	RCE350.6.4	RCE350.8.4	RCE450.4.4	RCE450.6.4	RCE450.8.4
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	42.8	49.8	56.8	57.4	67.9	70.3
Practical Capacity (Kw)	ΔT=8, T_r =0°C	33.4	41.1	45.2	44.4	54.3	57.5
	ΔT=7, T_r =-18°C	-	-	-	-	-	-
Air Flow (m^3/h)		21180	18690	17010	28250	24910	22660
Air Throw (m)		40	39	35	43	41	39
Heat Transfer Area (m^2)		106.5	159.7	219.9	142.0	212.9	283.9
Weight (kg)		223	267	319	269	350	414

FS=7 mm

MODEL		RCE350.4.7	RCE350.6.7	RCE350.8.7	RCE450.4.7	RCE450.6.7	RCE450.8.7
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	35.3	45.3	51.7	46.9	59.7	65.4
Practical Capacity (Kw)	ΔT=8, T_r =0°C	27.3	35.1	40.8	36.0	47.2	52.9
	ΔT=7, T_r =-18°C	23.4	30.6	34.2	31.6	38.7	40.8
Air Flow (m^3/h)		22300	20080	18500	29740	26770	24660
Air Throw (m)		41	40	37	45	43	42
Heat Transfer Area (m^2)		70.5	105.7	141.0	94.0	141.0	188.0
Weight (kg)		215	255	304	274	334	391

FS=10 mm

MODEL		RCE350.4.10	RCE350.6.10	RCE350.8.10	RCE450.4.10	RCE450.6.10	RCE450.8.10
Nominal Capacity (Kw)	ΔT=10 , T_r =0°C	28.9	38.3	45.6	38.2	51.3	58.8
Practical Capacity (Kw)	ΔT=7, T_r =-18°C	19.4	26.1	30.5	26.0	33.7	37.3
	ΔT=5, T_r =-30°C	13.0	17.3	20.3	17.1	22.3	23.9
Air Flow (m^3/h)		23090	21130	19640	30790	28170	26180
Air Throw (m)		43	42	40	47	46	44
Heat Transfer Area (m^2)		51.1	76.6	102.1	68.1	102.1	136.2
Weight (kg)		205	245	283	262	314	364

Common Data

Fan 500 mm	No. of Fans						
	Electrical Supply	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ
Coil	Power (W)	3x720	3x690	3x690	4x720	4x690	4x690
	Volume (L)	20.0	30.0	40.0	26.7	40.0	53.3
Connection	Inlet (Inch)	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
	Outlet (Inch)	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8

SELECTION GUIDE

FAN 630 mm

FS=4.5 mm

MODEL		RCE263.4.4	RCE263.6.4	RCE263.8.4	-	RCE363.4.4	RCE363.6.4	RCE363.8.4	-
Nominal Capacity (Kw)	ΔT=10 , T_r=0°C	46.7	62.8	71.3	-	71.4	92.9	98.3	-
Practical Capacity (Kw)	ΔT=8, T_r=0°C	36.9	49.5	56.2	-	55.1	73.9	80.2	-
	ΔT=7, T_r=-18°C	-	-	-	-	-	-	-	-
Air Flow (m³/h)		23370	24050	22310	-	35050	36060	33410	-
Air Throw (m)		42	40	37	-	46	44	41	-
Heat Transfer Area (m²)		118.3	177.4	236.6	-	177.5	266.2	359.4	-
Weight (kg)		229	304	349	-	323	435	500	-

FS=7 mm

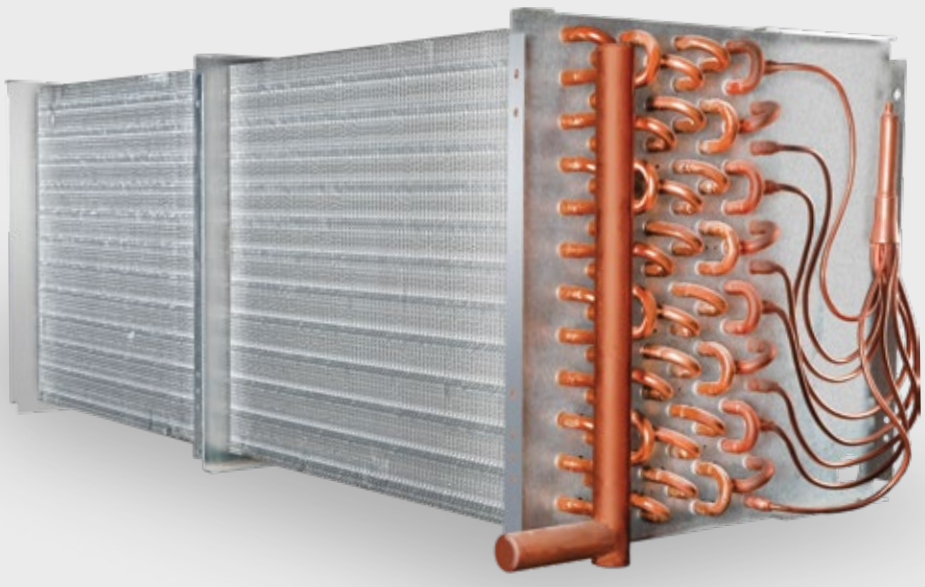
MODEL		RCE263.4.7	RCE263.6.7	RCE263.8.7	-	RCE363.4.7	RCE363.6.7	RCE363.8.7	-
Nominal Capacity (Kw)	ΔT=10 , T_r=0°C	38.7	53.8	63.2	-	57.7	80.3	89.9	-
Practical Capacity (Kw)	ΔT=8, T_r=0°C	30.1	42.0	49.3	-	44.1	63.2	72.4	-
	ΔT=7, T_r=-18°C	25.2	35.5	42.5	-	39.2	52.1	56.1	-
Air Flow (m³/h)		24250	25380	23860	-	36370	38060	35750	-
Air Throw (m)		43	41	36	-	47	45	40	-
Heat Transfer Area (m²)		78.3	117.5	156.7	-	117.5	176.2	235.0	-
Weight (kg)		220	290	329	-	309	414	472	-

FS=10 mm

MODEL		RCE263.4.10	RCE263.6.10	RCE263.8.10	RCE 263.10.10	RCE363.4.10	RCE363.6.10	RCE363.8.10	RCE363.10.10
Nominal Capacity (Kw)	ΔT=10 , T_r=0°C	31.7	45.4	54.6	61.6	46.6	68.1	79.7	85.7
Practical Capacity (Kw)	ΔT=7, T_r=-18°C	21.1	30.4	37.0	41.0	31.9	44.9	50.7	52.7
	ΔT=5, T_r=-30°C	14.1	20.3	24.7	27.3	20.7	29.7	32.4	34.3
Air Flow (m³/h)		24800	26320	24960	23750	37180	39480	37420	35580
Air Throw (m)		44	42	39	37	48	46	42	39
Heat Transfer Area (m²)		56.7	85.1	113.5	141.9	85.1	127.7	170.2	212.8
Weight (kg)		208	273	306	346	292	389	439	493

Common Data

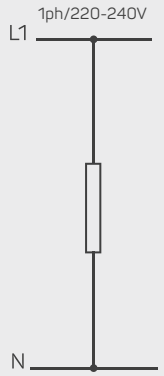
Fan 630 mm	No. of Fans								
	Electrical Supply	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ	3ph/380-420V/50HZ
Coil	Power (W)	2x1250	2x1720	2x1720	2x1720	3x1250	3x1720	3x1720	3x1720
	Volume (L)	22.2	33.3	44.5	55.6	33.3	50.0	66.7	83.4
Connection	Inlet (Inch)	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
	Outlet (Inch)	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	2 5/8	2 5/8	2 5/8

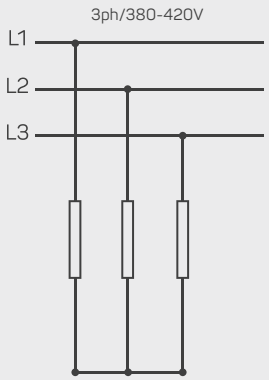


*COIL MANUFACTURED BY RIME

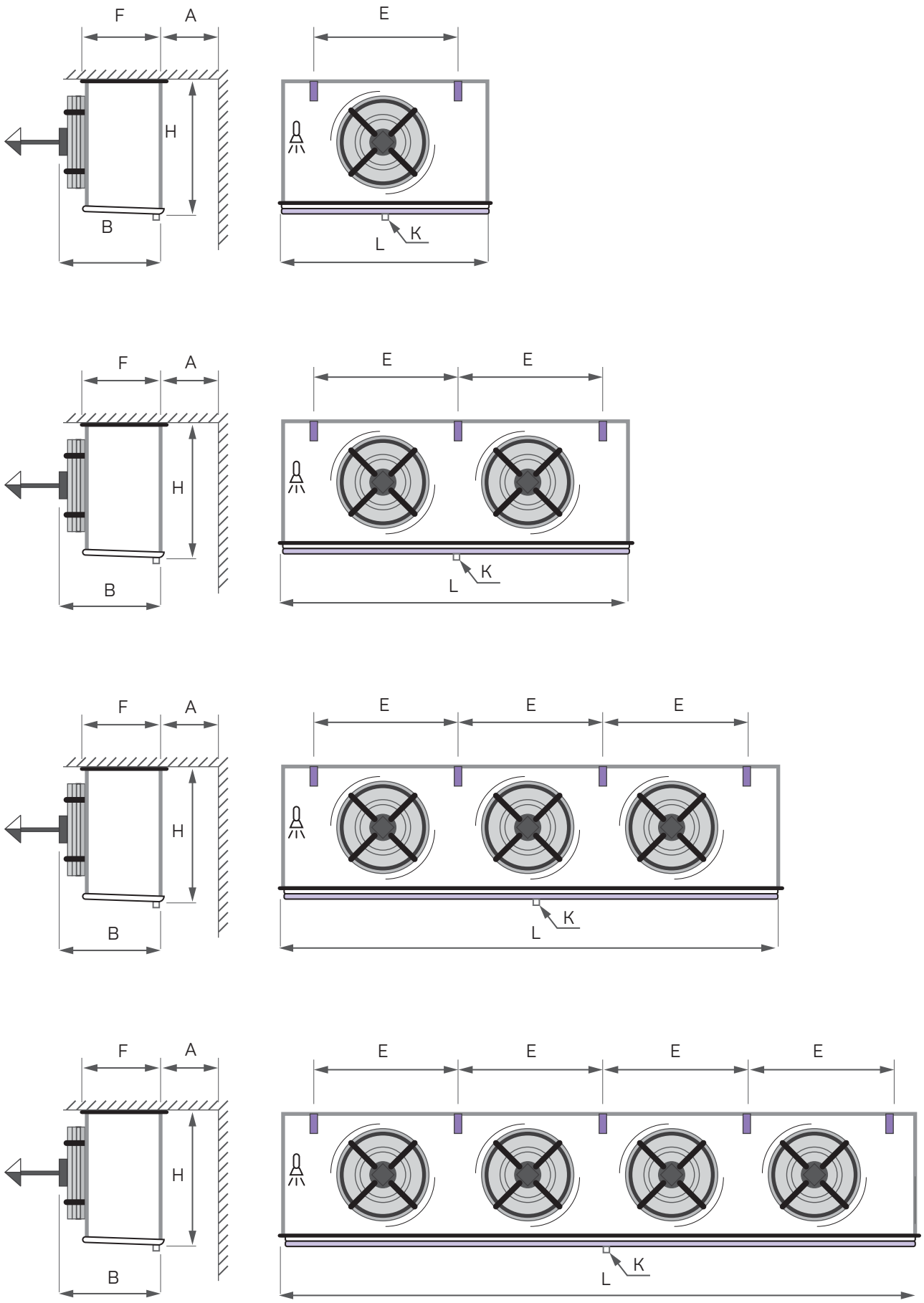
DEFROSTING

Model (x=4,7,10)	Number of elements		1PH – 220 V – 50 HZ		Type
	Coil	Drain	Total Power (W)	Current Each Element (A)	
RCE130.4.X	3	1	2137	2.4	Type 1 (1 Phase)
RCE130.6.X	3	1	2137	2.4	
RCE230.4.X	3	1	4323	4.9	
RCE230.6.X	3	1	4323	4.9	
RCE330.4.X	3	1	5871	6.7	
RCE330.6.X	3	1	5871	6.7	
RCE140.4.X	3	1	3142	3.6	
RCE140.6.X	3	1	3142	3.6	
RCE240.4.X	5	1	7809	5.9	Type 2 (3 Phase)
RCE240.6.X	5	1	7809	5.9	
RCE340.4.X	5	1	10905	8.3	
RCE340.6.X	5	1	10905	8.3	
RCE150.4.X	5	1	5521	4.2	
RCE150.6.X	5	1	5521	4.2	
RCE150.8.X	7	2	8282	4.2	
RCE250.4.X	5	1	9649	7.3	
RCE250.6.X	5	1	9649	7.3	
RCE250.8.X	7	2	14474	7.3	
RCE350.4.X	5	1	13777	10.4	
RCE350.6.X	5	1	13777	10.4	
RCE350.8.X	7	2	20666	10.4	
RCE450.4.X	5	1	17905	13.6	
RCE450.6.X	5	1	17905	13.6	
RCE450.8.X	7	2	26858	13.6	
RCE263.4.X	5	1	11713	8.9	
RCE263.6.X	8	1	17570	8.9	
RCE263.8.X	7	2	17570	8.9	
RCE263.10.X	7	2	17570	8.9	
RCE363.4.X	5	1	16873	12.8	
RCE363.6.X	8	1	25310	12.8	
RCE363.8.X	7	2	25310	12.8	
RCE363.10.X	7	2	25310	12.8	





DIMENSIONS



DIMENSIONS

Model (X = 4,7,10)	H (mm)	B (mm)	F (mm)	A (mm)	L (mm)	E (mm)	K(inch) (Drain)	Hanger bolts size	Qty of bolts for installation
RCE130.4.X	460	520	400	400	950	450	3/4	M10	4
RCE130.6.X	460	610	490	400	950	450	3/4	M10	4
RCE230.4.X	460	520	400	400	1400	450	3/4	M10	6
RCE230.6.X	460	610	490	400	1400	450	3/4	M10	6
RCE330.4.X	460	520	400	400	1850	450	1 1/4	M10	8
RCE330.6.X	460	610	490	400	1850	450	1 1/4	M10	8
RCE140.4.X	560	546	400	500	1100	600	3/4	M10	4
RCE140.6.X	560	636	490	500	1100	600	3/4	M10	4
RCE240.4.X	560	546	400	500	1700	600	1 1/4	M10	6
RCE240.6.X	560	636	490	500	1700	600	1 1/4	M10	6
RCE340.4.X	560	546	400	500	2300	600	1 1/4	M10	8
RCE340.6.X	560	636	490	500	2300	600	1 1/4	M10	8
RCE150.4.X	660	616	490	600	1300	800	1 1/4	M12	4
RCE150.6.X	660	696	570	600	1300	800	1 1/4	M12	4
RCE150.8.X	660	746	620	600	1300	800	1 1/4	M12	4
RCE250.4.X	660	616	490	600	2100	800	1 1/4	M12	6
RCE250.6.X	660	696	570	600	2100	800	1 1/4	M12	6
RCE250.8.X	660	746	620	600	2100	800	1 1/4	M12	6
RCE350.4.X	660	616	490	600	2900	800	1 1/4	M12	8
RCE350.6.X	660	696	570	600	2900	800	1 1/4	M12	8
RCE350.8.X	660	746	620	600	2900	800	1 1/4	M12	8
RCE450.4.X	660	616	490	600	3700	800	1 1/4	M12	10
RCE450.6.X	660	696	570	600	3700	800	1 1/4	M12	10
RCE450.8.X	660	746	620	600	3700	800	1 1/4	M12	10
RCE263.4.X	860	614	490	750	2500	1000	1 1/4	M12	6
RCE263.6.X	860	711	570	750	2500	1000	1 1/4	M12	6
RCE263.8.X	860	761	620	750	2500	1000	1 1/4	M12	6
RCE263.10.X	860	841	700	750	2500	1000	1 1/4	M12	6
RCE363.4.X	860	614	490	750	3500	1000	1 1/4	M12	8
RCE363.6.X	860	711	570	750	3500	1000	1 1/4	M12	8
RCE363.8.X	860	761	620	750	3500	1000	1 1/4	M12	8
RCE363.10.X	860	841	700	750	3500	1000	1 1/4	M12	8

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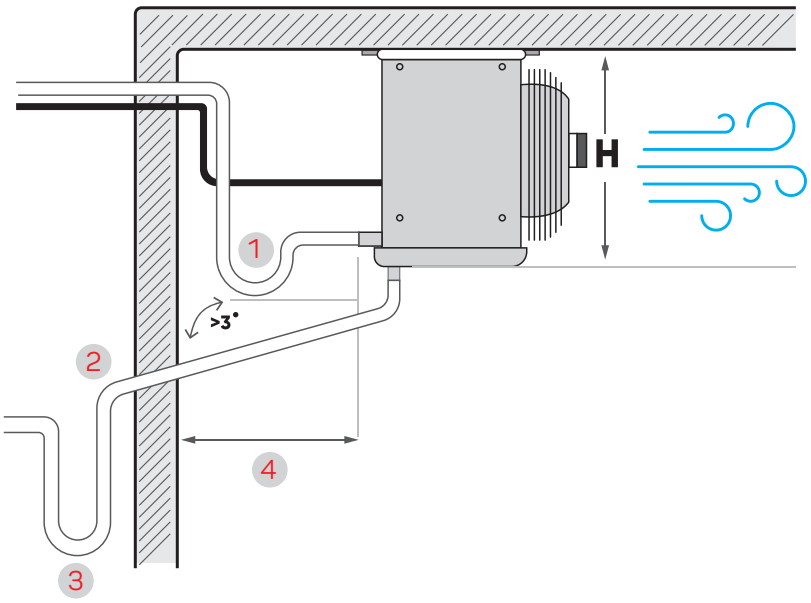
1 SUCTION LINE

Install the suction line on an incline towards the unit cooler. If this is not possible, an oil trap should be installed. The trap's bend should be positioned below the unit cooler to prevent the oil from accumulating in the unit cooler, which could decrease its capacity or damage the unit.



2 DRAIN LINE

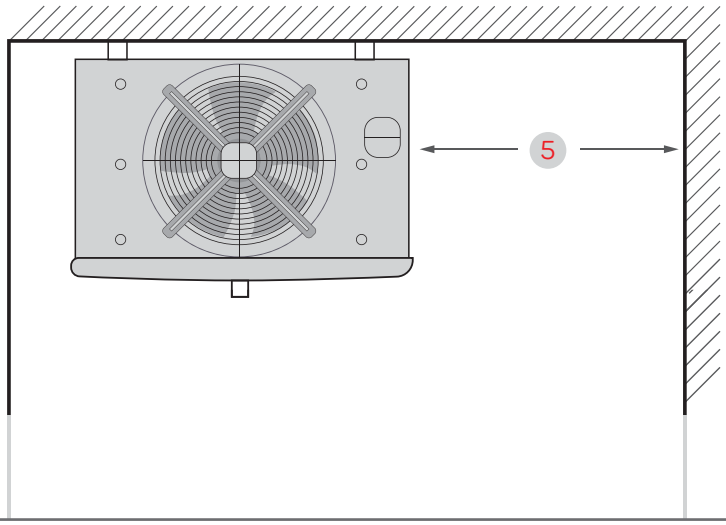
The drain line must be inclined enough to allow the water to flow out smoothly. In areas with cold storage and ambient temperatures below 4°C, it is recommended to use trace heating to prevent the condensation water from freezing in the drain line.

3 TRAP

It is essential to install a trap to ensure the trouble-free operation of an unit cooler, maintain energy efficiency, and prevent warm air with high temperature and humidity from entering the cold room. Warm air can significantly reduce the unit cooler's capacity, and depending on the temperature level, it can lead to ice formation and total system failure. Therefore, installing the trap outside the cold room to each unit cooler is crucial to prevent any failure risk.

4 WALL CLEARANCE

Maintain sufficient clearance between the wall behind the unit cooler to ensure proper airflow rate. The clearance area should be free from any tubes or obstructions. Always follow the recommended clearance from a certified technician to ensure optimal performance and avoid frost build-up that can reduce capacity.



5 SIDE CLEARANCE

Keep enough distance on the distributor side to carry out any services to the unit cooler, such as replacing the defrost element and other electrical work.

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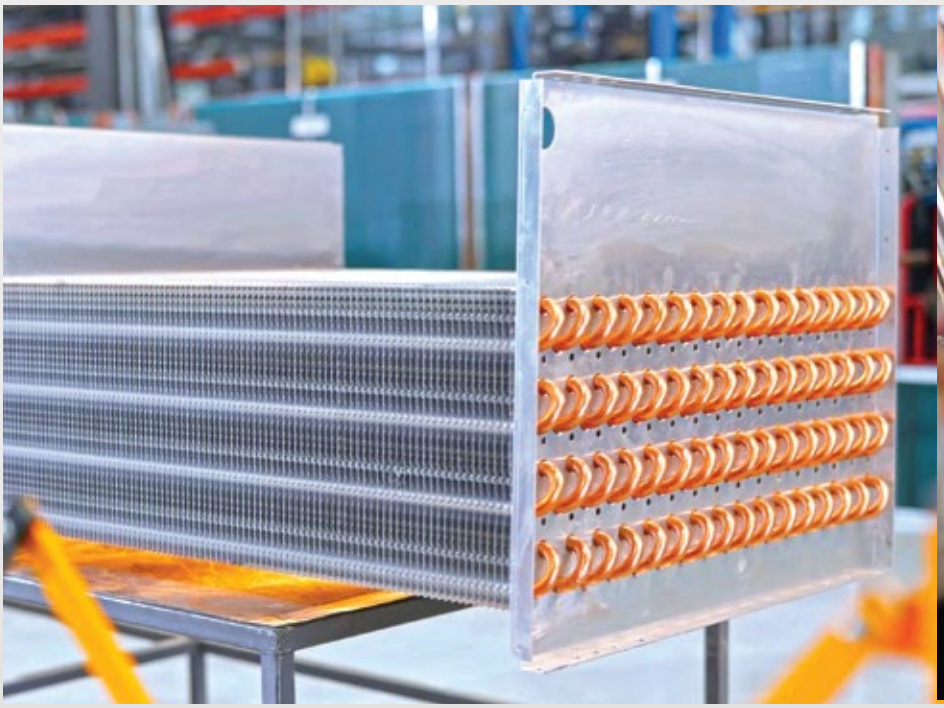

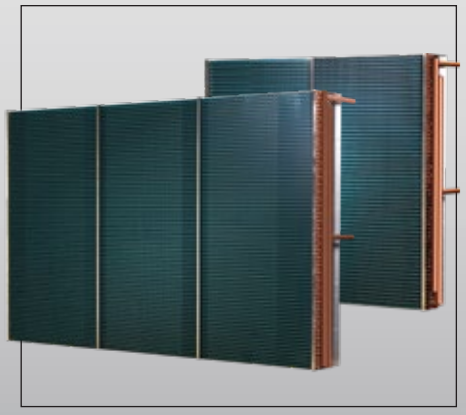

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