rime

ENGINEERED TO ENDURE
MANUFACTURED FOR SUCCESS

60Hz

UNIT COOLERS

ENGINEERED TO ENDURE
MANUFACTURED FOR SUCCESS

www.rimegroup.com

V1.5

CONTENT

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

rime.

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

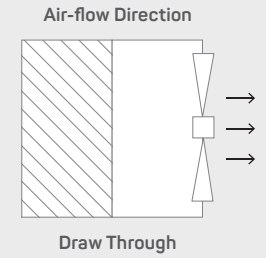
rime manufactures unit coolers as part of its product line for refrigeration and HVAC applications. rime Unit coolers delivers superior efficiency in a variety of applications. With innovative design features and durable construction, our Unit coolers ensure reliable and consistent performance, even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

PRODUCT OVERVIEW

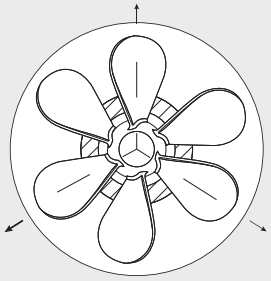
Unit cooler

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 2.8 to 105 kW.

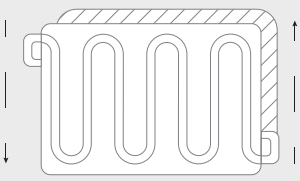
Unit coolers are available in three types of fin spacings: 4.5mm, 7mm, or 10mm, depending on their intended application. Standard models are equipped with electric defrost elements and can be customized to include air circulation upon customer request.



Technical Details	Capacity				
Refrigerant	Te (° C)	Tr (° C)	FS=4.5 mm	FS=7 mm	FS=10 mm
· R404 · R507	-10	0	4.3-105 kw	3.5-95.9 kw	2.8-91.3 kw
	-8	0	3.4-86 kw	2.7-77.6 kw	
	-25	-18		2.4 -59 kw	1.9-55.3 kw
	-35	-30			1.3-36 kw



No. of Fans	Diameter	Available Defrost Type	
1 to 4 fans	· 300mm · 350mm · 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

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.

ADDITIONAL ACCESSORIES

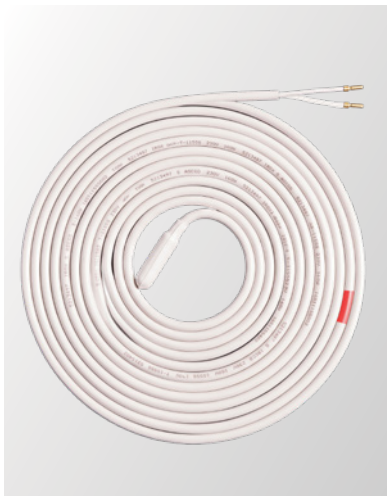
Drain Hose Defrost Heater

Prevents drain hose freezing and frost blockage, ensuring reliable condensate drainage in low-temperature refrigeration and freezer room applications.

Model	Total Length	Heated Length	Power	Voltage
D1	3 m	2 m	80 W	220 V
D2	5 m	4 m	160 W	220 V

Technical Specifications

- Operating Temperature: -55°C to +120°C
- Sheath Material: Silicone
- Cable Diameter: Ø 6.3 mm
- Certifications: CE Conformity, VDE Certified, RoHS Compliant



CORRECTION FACTORS

Capacity Determination and Correction Factors

The nominal capacities of rime unit coolers are based on R404A, AT=10°C and T.=-10°C. AT 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 (AT) 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, AT=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	10.8Kw	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 10.8/0.85=12.7 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.

RCE330.6.7S (Q=13.4 kW) /RCE150.4.7S(Q=12 kW)

CORRECTION FACTOR												
Te												Fc
-40	-30	-28	-25	-15	-10	-8	-5	0	+5	+8	+10	ΔT
0.44	0.45	0.45	0.45	0.46	0.47	0.47	0.48	0.5	0.51	0.51	0.52	5
0.54	0.57	0.57	0.57	0.58	0.58	0.58	0.6	0.63	0.64	0.64	0.65	6
0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.7	0.73	0.74	0.74	0.75	7
0.72	0.75	0.76	0.77	0.78	0.78	0.78	0.8	0.82	0.83	0.83	0.84	8
0.81	0.82	0.83	0.85	0.87	0.89	0.89	0.89	0.91	0.92	0.92	0.93	9
0.9	0.95	0.98	0.98	0.99	1	1.01	1.01	1.02	1.03	1.03	1.04	10
0.98	1.05	1.09	1.1	1.1	1.11	1.11	1.11	1.11	1.12	1.12	1.13	11
1.07	1.08	1.1	1.11	1.15	1.18	1.2	1.23	1.23	1.24	1.24	1.25	12

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

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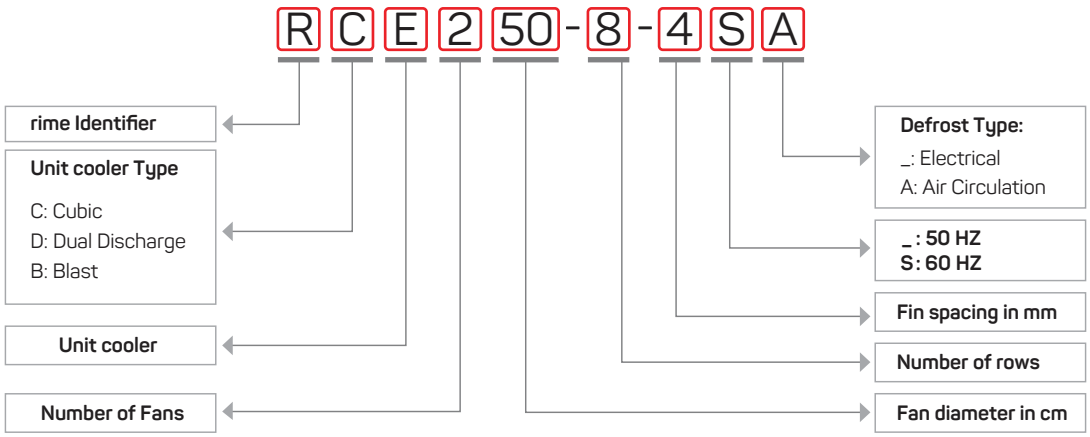
SELECTION GUIDE

NOMENCLATURE

Following Nomenclature Has Been Used For Defining Rime Unit Cooler



FAN 300 mm							
FS=4.5 mm							
MODEL		**RCE130.4.4S**	**RCE130.6.4S**	**RCE230.4.4S**	**RCE230.6.4S**	**RCE330.4.4S**	**RCE330.6.4S**
Nominal Capacity (Kw)	Tr=0°C ΔT=10	4.3	5.0	8.7	9.8	13.0	15.0
Practical Capacity (Kw)	Tr=0°C ΔT=8	3.4	4.0	6.8	7.9	10.2	12.0
	Tr=-18°C ΔT=7	-	-	-	-	-	-
Air Flow (m3/h)		1760	1650	3520	3280	5280	4940
Air Throw (m)		20	16	24	19	26	21
Heat Transfer Area (m2)		22.2	33.3	44.4	66.5	66.5	99.8
Weight (kg)		55	70	90	110	125	155
FS=7 mm							
MODEL		**RCE130.4.7S**	**RCE130.6.7S**	**RCE230.4.7S**	**RCE230.6.7S**	**RCE330.4.7S**	**RCE330.6.7S**
Nominal Capacity (Kw)	Tr=0°C ΔT=10	3.5	4.5	7.1	8.8	10.9	13.4
Practical Capacity (Kw)	Tr=0°C ΔT=8	2.7	3.5	5.3	7.0	8.5	10.6
	Tr=-18°C ΔT=7	2.4	3.0	4.8	5.9	7.4	9.1
Air Flow (m^3/h)		1810	1720	3610	3440	5430	5160
Air Throw (m)		21	18	25	21	27	25
Heat Transfer Area (m^2)		14.7	22.0	29.4	44.1	44.1	66.1
Weight (kg)		55	65	85	105	120	145
FS=10 mm							
MODEL		**RCE130.4.10S**	**RCE130.6.10S**	**RCE230.4.10S**	**RCE230.6.10S**	**RCE330.4.10S**	**RCE330.6.10S**
Nominal Capacity (Kw)	Tr=0°C ΔT=10	2.8	3.9	5.7	7.7	9.0	11.6
Practical Capacity (Kw)	Tr=-18°C ΔT=7	1.9	2.6	3.8	5.2	6.1	8.0
	Tr=-30°C ΔT=5	1.3	1.7	2.6	3.4	4.1	5.3
Air Flow (m^3/h)		1840	1770	3680	3530	5520	5300
Air Throw (m)		23	21	27	24	30	27
Heat Transfer Area (m^2)		10.6	16.0	21.3	31.9	31.9	47.9
Weight (kg)		50	65	85	100	115	135
Common Data							
Fan 300 mm	**No. of Fans**						
	Electrical Supply	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ
Coil	**Power (W)**	95	95	2×95	2×95	3×95	3×95
	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	1/2
	Outlet (Inch)	7/8	7/8	1 1/8	1 1/8	1 3/8	1 3/8

SELECTION GUIDE

FAN 350-400 mm

FS=4.5 mm

MODEL		RCE135.4.4S	RCE135.6.4S	RCE240.4.4S	RCE240.6.4S	RCE340.4.4S	RCE340.6.4S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	6.0	7.2	17.6	21.1	26.4	32.3
Practical Capacity (Kw)	Tr=0°C ΔT=8	4.7	5.8	13.7	16.8	20.7	25.4
	Tr=-18°C ΔT=7	-	-	-	-	-	-
Air Flow (m³/h)		3120	2890	8270	7830	12400	11750
Air Throw (m)		21	18	26	24	29	26
Heat Transfer Area (m²)		22.2	33.3	71.0	106.5	106.5	159.7
Weight (kg)		57	70	144	178	201	245

FS=7 mm

MODEL		RCE135.4.7S	RCE135.6.7S	RCE240.4.7S	RCE240.6.7S	RCE340.4.7S	RCE340.6.7S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	4.9	6.3	14.3	18.4	21.6	27.7
Practical Capacity (Kw)	Tr=0°C ΔT=8	3.8	5.0	11.0	14.5	16.7	21.5
	Tr=-18°C ΔT=7	3.4	4.2	9.8	12.3	14.7	19.2
Air Flow (m³/h)		3220	3040	8460	8110	12700	12170
Air Throw (m)		23	21	28	26	31	28
Heat Transfer Area (m²)		14.7	22.0	47.0	70.5	70.5	105.7
Weight (kg)		55	70	140	170	195	235

FS=10 mm

MODEL		RCE135.4.10S	RCE135.6.10S	RCE240.4.10S	RCE240.6.10S	RCE340.4.10S	RCE340.6.10S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	4.0	5.4	11.6	15.7	17.6	23.3
Practical Capacity (Kw)	Tr=-18°C ΔT=7	2.7	3.6	7.8	10.6	12.0	15.9
	Tr=-30°C ΔT=5	1.7	2.4	5.2	7.1	7.9	10.6
Air Flow (m³/h)		3290	3140	8590	8300	12890	12450
Air Throw (m)		25	22	31	27	34	30
Heat Transfer Area (m²)		10.6	16.0	34.1	51.1	51.1	76.6
Weight (kg)		55	65	130	160	185	225

Common Data

Fan 350-400 mm	No. of Fans						
	Electrical Supply	1ph/220-240V/60 HZ	1ph/220-240V/60 HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ
Coil	Power (W)	255	255	2×380	2×380	3×380	3×380
	Volume (L)	4.2	6.3	13.3	20.0	20	30
Connection	Inlet (Inch)	1/2	1/2	7/8	7/8	1 1/8	1 3/8
	Outlet (Inch)	7/8	7/8	1 5/8	1 5/8	1 5/8	2 1/8

FAN 500 mm

FS=4.5 mm

MODEL		RCE150.4.4S	RCE150.6.4S	RCE150.8.4S	RCE250.4.4S	RCE250.6.4S	RCE250.8.4S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	14.6	18.2	20.4	29.6	35.2	39.8
Practical Capacity (Kw)	Tr=0°C ΔT=8	11.4	14.3	15.9	22.9	28.2	31.8
	Tr=-18°C ΔT=7	-	-	-	-	-	-
Air Flow (m³/h)		7580	6790	6220	15160	13560	12430
Air Throw (m)		32	31	28	38	37	35
Heat Transfer Area (m²)		35.5	53.2	71.0	71.0	106.5	142.0
Weight (kg)		95	115	130	160	195	225

FS=7 mm

MODEL		RCE150.4.7S	RCE150.6.7S	RCE150.8.7S	RCE250.4.7S	RCE250.6.7S	RCE250.8.7S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	12.0	15.7	18.1	24.2	30.9	36.1
Practical Capacity (Kw)	Tr=0°C ΔT=8	9.3	12.2	14.0	18.6	24.5	28.5
	Tr=-18°C ΔT=7	8.0	10.4	12.4	16.2	19.8	23.6
Air Flow (m³/h)		8030	7290	6720	16070	14570	13440
Air Throw (m)		33	32	30	39	38	36
Heat Transfer Area (m²)		23.5	35.3	47.0	47.0	70.5	94.0
Weight (kg)		90	110	125	155	185	215

FS=10 mm

MODEL		RCE150.4.10S	RCE150.6.10S	RCE150.8.10S	RCE250.4.10S	RCE250.6.10S	RCE250.8.10S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	9.8	13.3	15.6	19.8	26.6	31.8
Practical Capacity (Kw)	Tr=-18°C ΔT=7	6.6	8.9	10.7	13.4	17.3	21.0
	Tr=-30°C ΔT=5	4.3	5.9	7.0	8.8	11.3	14.0
Air Flow (m³/h)		8340	7680	7120	16680	15360	14240
Air Throw (m)		35	34	32	41	40	38
Heat Transfer Area (m²)		17.0	25.5	34.1	34.1	51.1	68.1
Weight (kg)		85	105	120	145	175	200

Common Data

Fan 500 mm	No. of Fans						
	Electrical Supply	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ
Coil	Power (W)	1100	1100	1100	2*1100	2*1100	2*1100
	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

SELECTION GUIDE

FAN 500 mm

FS=4.5 mm

MODEL		RCE350.4.4S	RCE350.6.4S	RCE350.8.4S	RCE450.4.4S	RCE450.6.4S	RCE450.8.4S
Nominal Capacity (Kw)	Tr=0°C dt=10	44.3	55.2	60.0	59.4	71.0	73.8
Practical Capacity (Kw)	Tr=0°C dt=8	34.6	43.2	47.9	46.0	56.8	60.5
	Tr=-18°C dt=7	-	-	-	-	-	-
Air Flow (m³/h)		22740	20360	18640	30330	27130	24820
Air Throw (m)		42	41	37	45	43	41
Heat Transfer Area (m²)		106.5	159.7	212.9	142.0	212.9	283.9
Weight (kg)		225	265	320	270	350	415

FS=7 mm

MODEL		RCE350.4.7S	RCE350.6.7S	RCE350.8.7S	RCE450.4.7S	RCE450.6.7S	RCE450.8.7S
Nominal Capacity (Kw)	Tr=0°C dt=10	36.6	47.4	54.3	59.4	62.3	68.3
Practical Capacity (Kw)	Tr=0°C dt=8	28.3	36.7	42.9	46.0	45.1	55.3
	Tr=-18°C dt=7	24.2	31.9	35.7	39.4	40.1	42.3
Air Flow (m³/h)		24100	21860	20160	32130	29150	26840
Air Throw (m)		43	42	39	47	45	44
Heat Transfer Area (m²)		70.5	105.7	141.0	94.0	141.0	188.0
Weight (kg)		215	255	305	275	335	390

FS=10 mm

MODEL		RCE350.4.10S	RCE350.6.10S	RCE350.8.10S	RCE450.4.10S	RCE450.6.10S	RCE450.8.10S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	30.0	40.1	47.8	39.7	53.6	61.3
Practical Capacity (Kw)	Tr=-18°C ΔT=7	20.1	27.2	31.7	27.0	35.1	38.7
	Tr=-30°C ΔT=5	13.4	18.1	21.2	17.8	23.0	24.5
Air Flow (m³/h)		25020	23040	21360	33370	30720	28480
Air Throw (m)		45	44	42	49	48	46
Heat Transfer Area (m²)		51.1	76.6	102.1	68.1	102.1	136.2
Weight (kg)		205	245	285	260	315	365

Common Data

Fan 500 mm	No. of Fans						
	Electrical Supply	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ
Coil	Power (W)	3×1100	3×1100	3×1100	4×1100	4×1100	4×1100
	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

FAN 630 mm

FS=4.5 mm

MODEL		RCE263.4.4S	RCE263.6.4S	RCE263.8.4S	-	RCE363.4.4S	RCE363.6.4S	RCE363.8.4S	-
Nominal Capacity (Kw)	Tr=0°C ΔT=10	52.2	67.3	77.2	-	80.5	99.3	105.0	-
Practical Capacity (Kw)	Tr=0°C ΔT=8	41.3	53.2	60.8	-	62.0	79.2	86.0	-
	Tr=-18°C ΔT=7	32.6	43.3	51.0	-	53.4	62.4	63.5	-
Air Flow (m³/h)		29960	27470	25440	-	44950	41190	38090	-
Air Throw (m)		44	42	39	-	48	46	43	-
Heat Transfer Area (m²)		118.3	177.4	236.6	-	177.5	266.2	354.9	-
Weight (kg)		230	305	350	-	325	435	500	-

FS=7 mm

MODEL		RCE263.4.7S	RCE263.6.7S	RCE263.8.7S	-	RCE363.4.7S	RCE363.6.7S	RCE363.8.7S	-
Nominal Capacity (Kw)	Tr=0°C ΔT=10	43.3	57.7	68.2	-	65.1	85.9	95.9	-
Practical Capacity (Kw)	Tr=0°C ΔT=8	33.9	45.0	53.2	-	49.7	67.7	77.6	-
	Tr=-18°C ΔT=7	27.8	37.8	45.4	-	43.8	55.1	59.0	-
Air Flow (m³/h)		31190	29090	27250	-	46790	43640	40840	-
Air Throw (m)		45	43	38	-	49	47	42	-
Heat Transfer Area (m²)		78.3	117.5	156.7	-	117.5	176.2	235.0	-
Weight (kg)		220	290	330	-	310	415	470	-

FS=10 mm

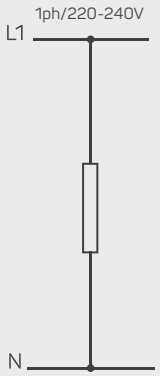
MODEL		RCE263.4.10S	RCE263.6.10S	RCE263.8.10S	RCE 263.10.10S	RCE363.4.10S	RCE363.6.10S	RCE363.8.10S	RCE363.10.10S
Nominal Capacity (Kw)	Tr=0°C ΔT=10	35.7	48.6	58.8	66.4	52.6	72.9	85.1	91.3
Practical Capacity (Kw)	Tr=-18°C ΔT=7	23.4	32.3	39.6	43.8	35.7	47.7	53.5	55.3
	Tr=-30°C ΔT=5	15.4	21.6	26.4	29.1	23.5	31.3	33.9	36.0
Air Flow (m³/h)		32060	30230	28570	27120	48080	45340	42840	40630
Air Throw (m)		46	44	41	39	50	48	44	41
Heat Transfer Area (m²)		56.7	85.1	113.5	141.9	85.1	127.7	170.2	212.8
Weight (kg)		210	275	305	345	290	390	440	495

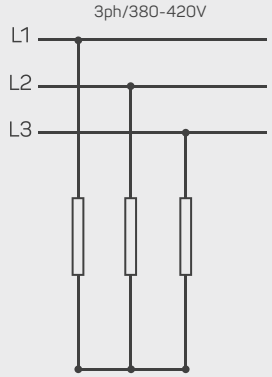
Common Data

Fan 630 mm	No. of Fans								
	Electrical Supply	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ	3ph/380-420V/60HZ
Coil	Power (W)	2×2860	2×2860	2×2860	2×2860	3×2860	3×2860	3×2860	3×2860
	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

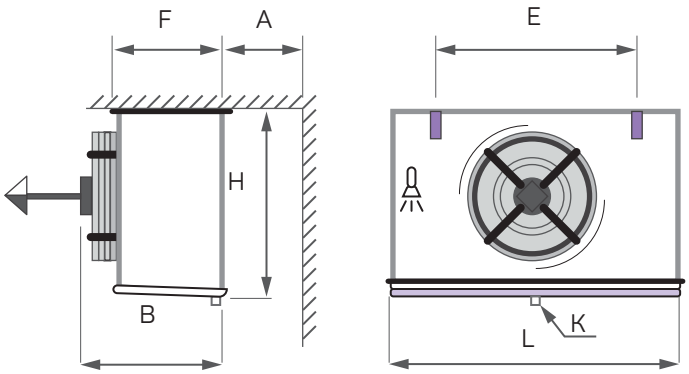
DEFROSTING

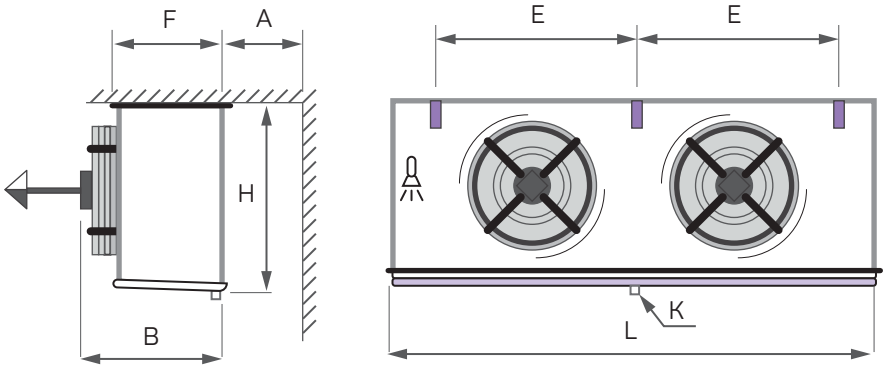
Model (x=4,7,10)	Number of elements		1PH – 220 V – 60 Hz		Type
	Coil	Drain	Total Power (W)	Current Each Element (A)	
RCE130.4.XS	3	1	3140	3.6	Type 1 (1 Phase)
RCE130.6.XS	3	1	3140	3.6	
RCE230.4.XS	5	1	7810	5.9	
RCE230.6.XS	5	1	7810	5.9	
RCE330.4.XS	5	1	10905	8.3	
RCE330.6.XS	5	1	10905	8.3	
RCE135.4.XS	3	1	3140	3.6	
RCE135.6.XS	3	1	3140	3.6	
RCE240.4.XS	5	1	9650	7.3	Type 2 (3 Phase)
RCE240.6.XS	5	1	9650	7.3	
RCE340.4.XS	5	1	13775	10.4	
RCE340.6.XS	5	1	13775	10.4	
RCE150.4.XS	5	1	5520	4.2	
RCE150.6.XS	5	1	5520	4.2	
RCE150.8.XS	7	2	8280	4.2	
RCE250.4.XS	5	1	9650	7.3	
RCE250.6.XS	5	1	9650	7.3	
RCE250.8.XS	7	2	14475	7.3	
RCE350.4.XS	5	1	13775	10.4	
RCE350.6.XS	5	1	13775	10.4	
RCE350.8.XS	7	2	20665	10.4	
RCE450.4.XS	5	1	17905	13.6	
RCE450.6.XS	5	1	17905	13.6	
RCE450.8.XS	7	2	26860	13.6	
RCE263.4.XS	5	1	11715	8.9	
RCE263.6.XS	8	1	17570	8.9	
RCE263.8.XS	7	2	17570	8.9	
RCE263.10.XS	7	2	17570	8.9	
RCE363.4.XS	5	1	16875	12.8	
RCE363.6.XS	8	1	25310	12.8	
RCE363.8.XS	7	2	25310	12.8	
RCE363.10.XS	7	2	25310	12.8	

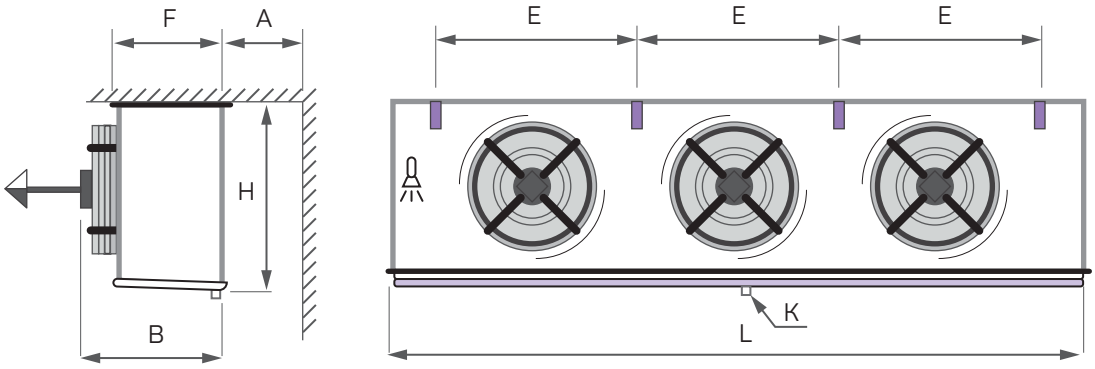


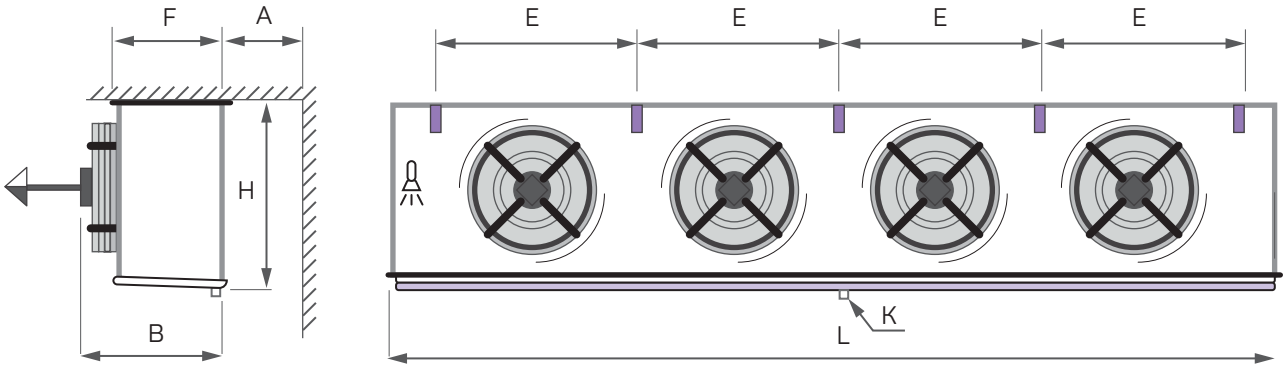


DIMENSIONS







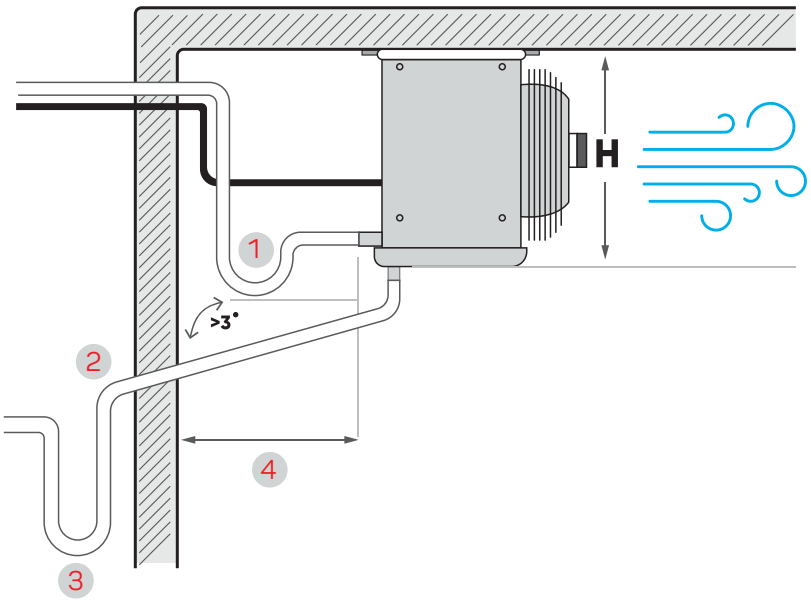


DIMENSIONS

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.XS	560	545	400	500	1100	600	3/4	M10	4
RCE130.6.XS	560	635	490	500	1100	600	3/4	M10	4
RCE230.4.XS	560	545	400	500	1700	600	1 1/4	M10	6
RCE230.6.XS	560	635	490	500	1700	600	1 1/4	M10	6
RCE330.4.XS	560	545	400	500	2300	600	1 1/4	M10	8
RCE330.6.XS	560	635	490	500	2300	600	1 1/4	M10	8
RCE135.4.XS	560	545	400	500	1100	600	3/4	M10	4
RCE135.6.XS	560	635	490	500	1100	600	3/4	M10	4
RCE240.4.XS	660	615	490	600	2100	800	1 1/4	M12	6
RCE240.6.XS	660	695	570	600	2100	800	1 1/4	M12	6
RCE340.4.XS	660	615	490	600	2900	800	1 1/4	M12	8
RCE340.6.XS	660	695	570	600	2900	800	1 1/4	M12	8
RCE150.4.XS	660	615	490	600	1300	800	1 1/4	M12	4
RCE150.6.XS	660	695	570	600	1300	800	1 1/4	M12	4
RCE150.8.XS	660	745	620	600	1300	800	1 1/4	M12	4
RCE250.4.XS	660	615	490	600	2100	800	1 1/4	M12	6
RCE250.6.XS	660	695	570	600	2100	800	1 1/4	M12	6
RCE250.8.XS	660	745	620	600	2100	800	1 1/4	M12	6
RCE350.4.XS	660	615	490	600	2900	800	1 1/4	M12	8
RCE350.6.XS	660	695	570	600	2900	800	1 1/4	M12	8
RCE350.8.XS	660	745	620	600	2900	800	1 1/4	M12	8
RCE450.4.XS	660	615	490	600	3700	800	1 1/4	M12	10
RCE450.6.XS	660	695	570	600	3700	800	1 1/4	M12	10
RCE450.8.XS	660	745	620	600	3700	800	1 1/4	M12	10
RCE263.4.XS	860	615	490	750	2500	1000	1 1/4	M12	6
RCE263.6.XS	860	710	570	750	2500	1000	1 1/4	M12	6
RCE263.8.XS	860	760	620	750	2500	1000	1 1/4	M12	6
RCE263.10.XS	860	840	700	750	2500	1000	1 1/4	M12	6
RCE363.4.XS	860	615	490	750	3500	1000	1 1/4	M12	8
RCE363.6.XS	860	710	570	750	3500	1000	1 1/4	M12	8
RCE363.8.XS	860	760	620	750	3500	1000	1 1/4	M12	8
RCE363.10.XS	860	840	700	750	3500	1000	1 1/4	M12	8

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

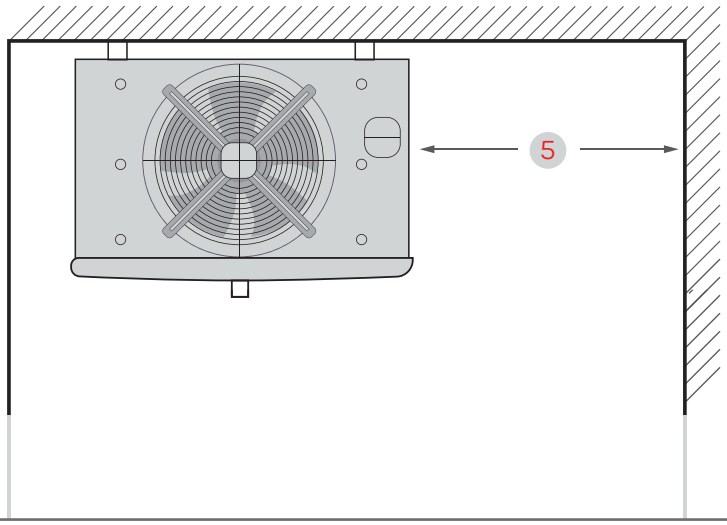
The drain line must be inclined enough to allow the water to flow out smoothly. In areas with cold storage and ambient temperatures below 4°C, it is recommended to use trace heating to prevent the condensation water from freezing in the drain line.

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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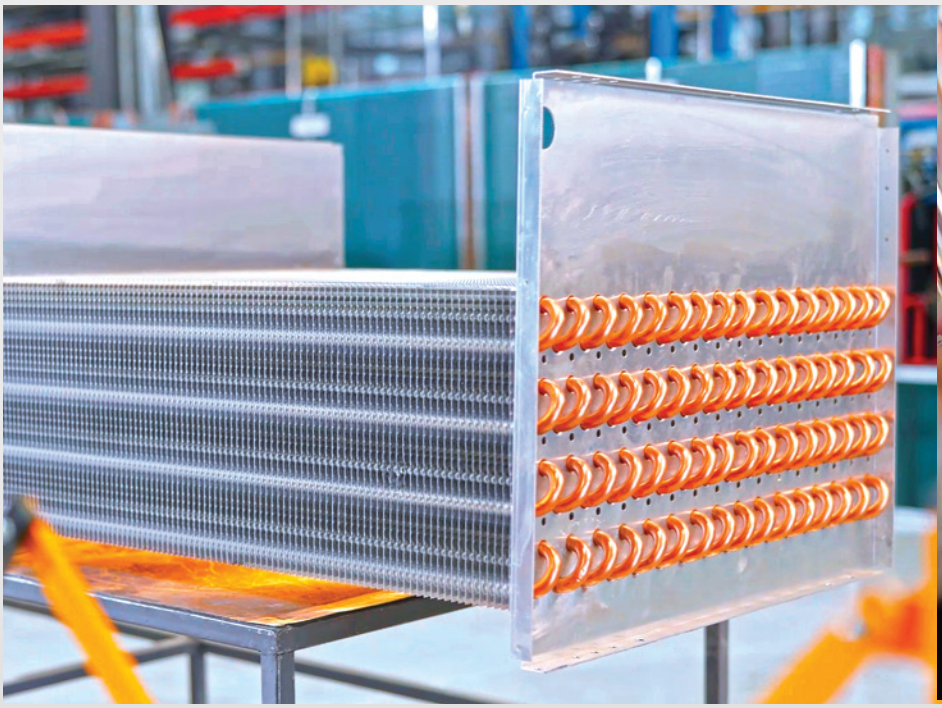

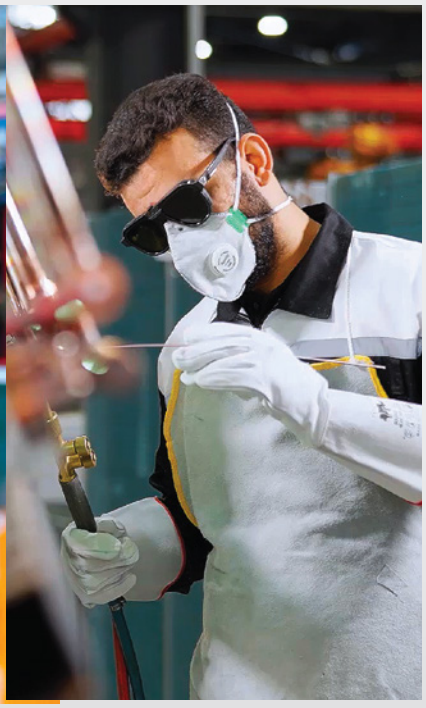

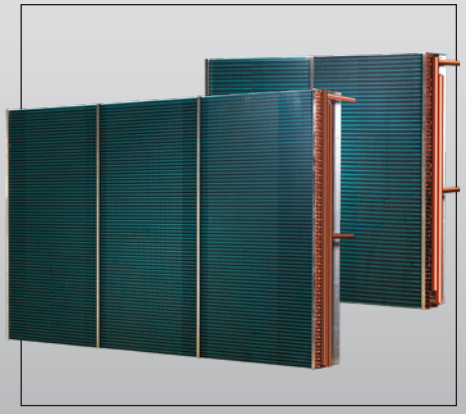

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