

EURO LINE

China Refrigeration Manufacturer



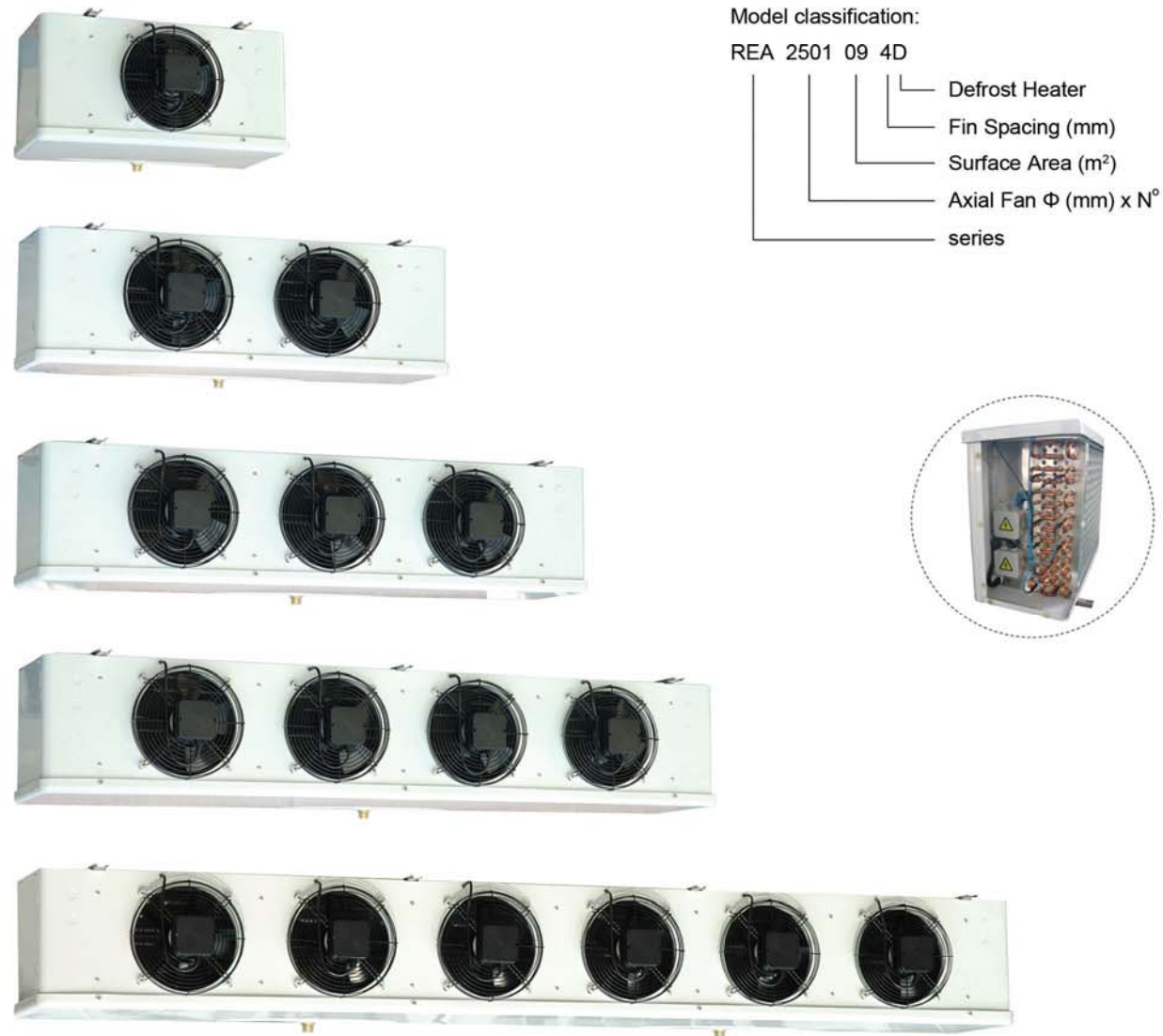
Factory: Taizhou Refra Refrigeration Equipment Co., Ltd.
Address: No. 898 North Jiangzhou Road, Taizhou, Jiangsu, China
Postalcode: 225300
Tel: +86 523 82217360
Fax: +86 523 86996550
E-mail: sun@refra.cc
MSN: refra.cc@hotmail.com
Website: <http://www.refra.cc>

- Unit air coolers
- Air cooled condensers
- Packaged & open type condensing units



TAIZHOU REFRA REFRIGERATION EQUIPMENT CO., LTD.

REA series forced convection unit air cooler



General features:

The high efficient coils are made from high quality copper tube $\Phi 12.7 \times 0.4 \text{ mm}$ and special profile aluminum fin.
Heat exchangers are supplied clean and tested under a pressure of 30 bars.

The casing:

White powder coated aluminum, high corrosion strength, impact resistance, and does not produce polluting debris.

The fan motors:

All with high quality axial fan motors with high safety standards fitted well to the unit casing with an anti-vibration system.

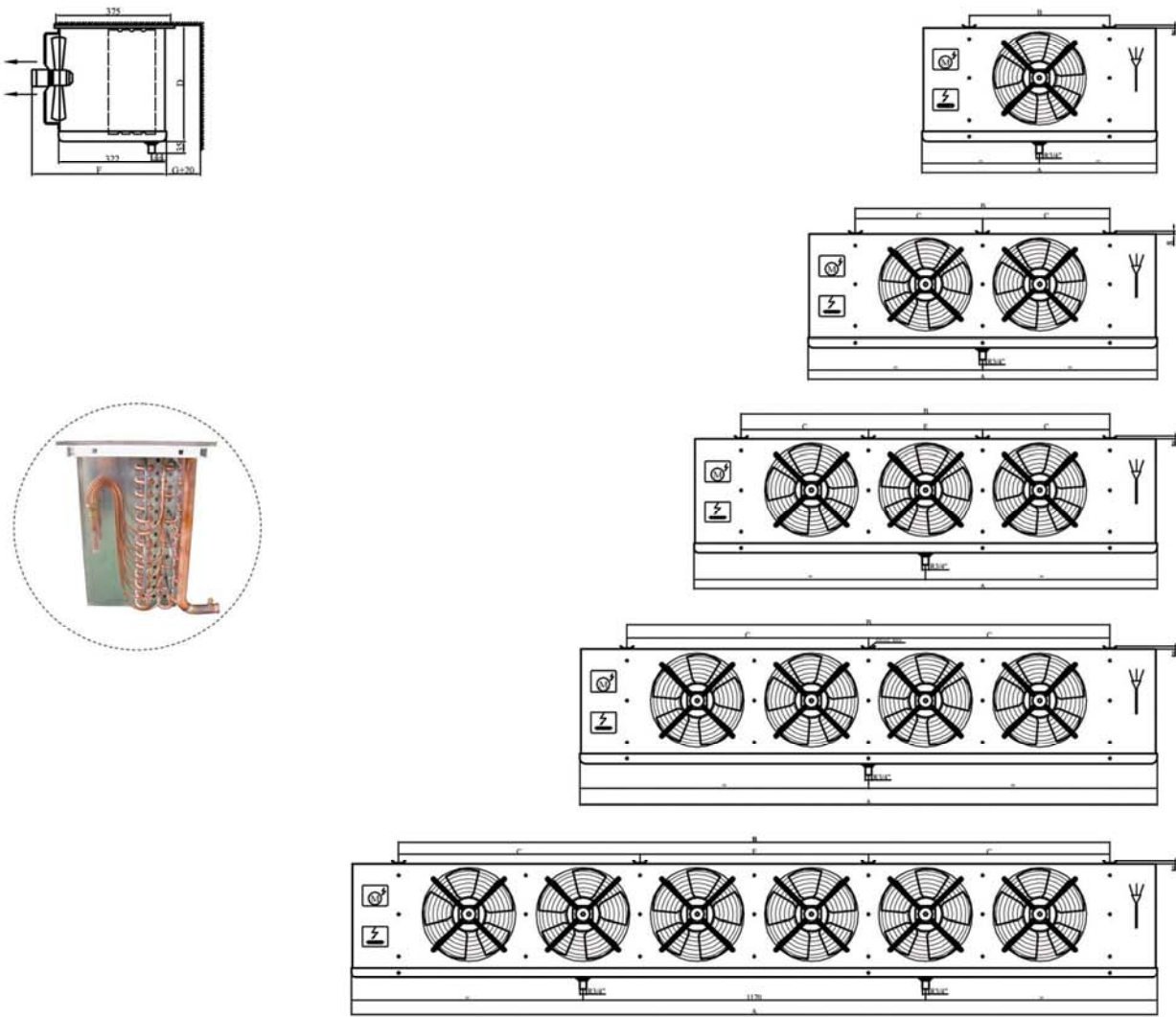
Defrost heating:

Provided by stainless steel heater elements covered by the aluminum tubes, located in the finned pack and the drain pan.

Electrical parts and wiring:

Are connected to an earth terminal, carried out in junction box with access holes equipped with water-proof cable glands.

REA series forced convection unit air cooler



Model	Dimensions (mm)							Connections (Φ mm)	
	A	B	C	D	E	F	G	Inlet	Outlet
REA 2501	702	420	-	350	-	430	200	12	16
REA 2502	1094	812	-	350	-	430	200	12	19
REA 2503	1486	1204	-	350	-	430	200	12	22
REA 2504	1878	1596	-	350	-	430	200	12	22
REA 2506	2662	2380	798	350	784	430	250	15	28
REA 3001	702	420	-	460	-	430	200	12	19
REA 3002	1094	812	-	460	-	430	200	12	22
REA 3003	1486	1204	-	460	-	430	250	12	22
REA 3004	1878	1596	798	460	-	430	250	15	28
REA 3006	2662	2380	798	460	784	430	300	15	28
REA 4001	884	602	-	530	-	460	250	12	18
REA 4002	1486	1204	602	530	-	460	250	15	22
REA 4003	1878	1596	551	530	494	460	300	15	28
REA 4004	2662	2380	597	530	593	460	300	15	35
REA 4501	1094	812	-	605	-	460	300	12	22
REA 4502	1878	1596	798	605	-	460	300	15	28
REA 4503	2662	2380	798	605	784	460	350	15	35

REA series forced convection unit air cooler

Fin spacing 4 mm, with heater, Rt≥0℃

Model 4D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REA 2501 09 4D	1.73	1.26	09	1.8	800	4	55	14
REA 2502 17 4D	3.35	2.44	17	3.2	1600	6	58	25
REA 2503 26 4D	4.91	3.58	26	4.7	2400	7	59	36
REA 2504 35 4D	6.55	4.78	35	6.1	3200	8	60	47
REA 2506 52 4D	10	7.33	52	8.7	4800	11	61	70
REA 3001 12 4D	2.41	1.76	12	2.4	1280	8	58	19
REA 3002 23 4D	4.89	3.57	23	4.3	2560	9	60	32
REA 3003 35 4D	7.41	5.4	35	6.2	3840	10	62	46
REA 3004 46 4D	9.75	7.11	46	8.2	5120	11	63	60
REA 3006 69 4D	14.7	10.7	69	11.6	7680	12	64	85
REA 4001 20 4D	4.63	3.33	20	3.5	3670	9	66	30
REA 4002 40 4D	8.97	6.46	40	7.2	7340	10	68	57
REA 4003 54 4D	11.32	8.15	54	9.6	11010	12	70	73
REA 4004 81 4D	18.73	13.49	81	14.4	14680	13	71	109
REA 4501 31 4D	6.75	4.92	31	5.5	4560	13	68	41
REA 4502 61 4D	13.5	9.84	61	10.5	9120	14	70	82
REA 4503 92 4D	19	13.9	92	15.5	13680	15	72	122

Mark: Optional model without heater.

Fin spacing 6 mm, with heater, Rt≥-18℃

Model 6D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REA 2501 06 6D	1.46	1.06	06	1.8	850	4	55	13
REA 2502 11 6D	2.81	2.05	11	3.2	1700	6	58	23
REA 2503 17 6D	4.13	3.01	17	4.7	2550	7	59	33
REA 2504 23 6D	5.51	4.02	23	6.1	3400	8	60	43
REA 2506 35 6D	8.44	6.16	35	8.7	5100	11	61	66
REA 3001 08 6D	2.03	1.48	08	2.4	1340	8	58	18
REA 3002 15 6D	4.11	3	15	4.3	2680	9	60	30
REA 3003 23 6D	6.23	4.54	23	6.2	4020	10	62	43
REA 3004 31 6D	8.19	5.98	31	8.2	5360	11	63	56
REA 3006 46 6D	12.3	8.99	46	11.6	8040	12	64	83
REA 4001 13 6D	3.89	2.8	13	3.5	3750	9	66	28
REA 4002 27 6D	7.53	5.43	27	7.2	7500	10	68	53
REA 4003 36 6D	9.51	6.85	36	9.6	11250	12	70	68
REA 4004 54 6D	15.73	11.33	54	14.4	15000	13	71	103
REA 4501 20 6D	5.67	4.13	20	5.5	4660	14	68	38
REA 4502 41 6D	11.3	8.27	41	10.5	9320	15	70	75
REA 4503 61 6D	16	11.7	61	15.5	13980	16	72	115

REA series forced convection unit air cooler

Fin spacing 9 mm, with heater, Rt≤-25℃

Model 9D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REA 2501 04 9D	1.23	0.9	04	1.8	900	4	55	12
REA 2502 08 9D	2.37	1.73	08	3.2	1800	6	58	21
REA 2503 12 9D	3.48	2.54	12	4.7	2700	7	59	30
REA 2504 16 9D	4.64	3.38	16	6.1	3600	8	60	39
REA 2506 24 9D	7.1	5.18	24	8.7	5400	11	61	62
REA 3001 06 9D	1.71	1.25	06	2.4	1400	8	58	17
REA 3002 10 9D	3.46	2.53	10	4.3	2800	9	60	28
REA 3003 16 9D	5.24	3.82	16	6.2	4200	10	62	40
REA 3004 21 9D	6.89	5.03	21	8.2	5600	11	63	52
REA 3006 31 9D	10.34	7.56	31	11.6	8400	12	64	81
REA 4001 09 9D	3.27	2.35	09	3.5	3830	9	66	26
REA 4002 18 9D	6.33	4.56	18	7.2	7660	10	68	49
REA 4003 24 9D	7.99	5.75	24	9.6	11490	12	70	63
REA 4004 36 9D	13.22	9.52	36	14.4	15320	13	71	97
REA 4501 14 9D	4.77	3.48	14	5.5	4760	15	68	35
REA 4502 28 9D	9.5	6.95	28	10.5	9520	16	70	68
REA 4503 41 9D	13.45	9.84	41	15.5	14280	17	72	108

Electric Data

Model 4D, 6D, 9D	Axial Fan					Electric Defrost		
	N° x Φ (mm)	Voltage (V,50Hz)	Power (W)	Current (A)	Speed (rpm)	Coil (W)	Drain Pan (W)	Total (W)
REA 2501	1 x 250	~ 220	50	0.25	1400	2 x 440	1 x 440	1320
REA 2502	2 x 250	~ 220	100	0.50	1400	2 x 730	1 x 730	2190
REA 2503	3 x 250	~ 220	150	0.75	1400	2 x 1030	1 x 1030	3090
REA 2504	4 x 250	~ 220	200	1.00	1400	2 x 1310	1 x 1310	3930
REA 2506	6 x 250	~ 220	300	1.50	1400	2 x 1890	1 x 1890	5670
REA 3001	1 x 300	~ 220	85	0.42	1350	3 x 440	1 x 440	1760
REA 3002	2 x 300	~ 220	170	0.84	1350	3 x 730	1 x 730	2920
REA 3003	3 x 300	~ 220	255	1.26	1350	3 x 1030	1 x 1030	4120
REA 3004	4 x 300	~ 220	340	1.68	1350	3 x 1310	1 x 1310	5240
REA 3006	6 x 300	~ 220	510	2.52	1350	3 x 1890	1 x 1890	7560
REA 4001	1 x 400	~ 220	190	0.90	1350	4 x 550	1 x 550	2750
REA 4002	2 x 400	~ 220	380	1.80	1350	4 x 1030	1 x 1030	5150
REA 4003	3 x 400	~ 220	570	2.70	1350	4 x 1310	1 x 1310	6550
REA 4004	4 x 400	~ 220	760	3.60	1350	4 x 1890	1 x 1890	9450
REA 4501	1 x 450	3 ~ 380	250	0.64	1380	4 x 730	1 x 730	3650
REA 4502	2 x 450	3 ~ 380	500	1.28	1380	4 x 1310	1 x 1310	6550
REA 4503	3 x 450	3 ~ 380	750	1.92	1380	4 x 1890	1 x 1890	9450

REB series forced convection unit air cooler



Model classification:

REB 5001 53 4.5D

- Defrost Heater

- Fin Spacing (mm)

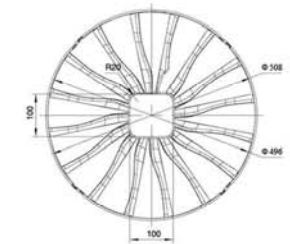
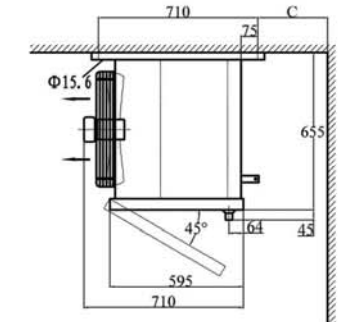
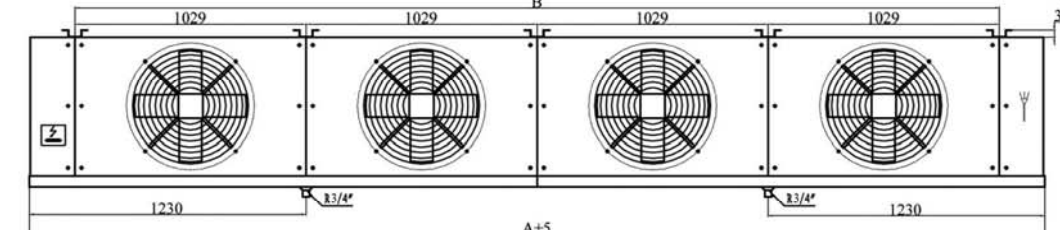
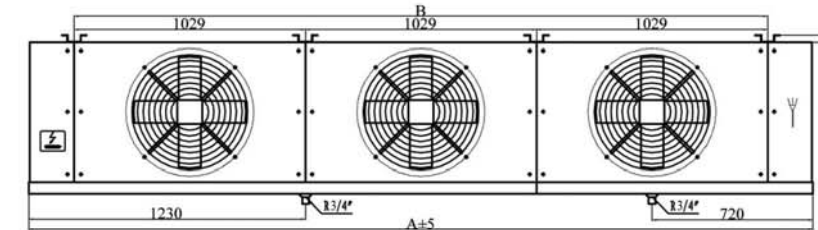
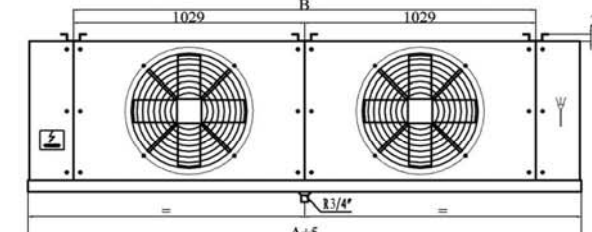
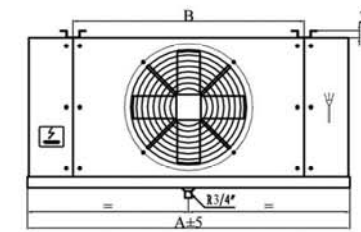
- Surface Area (m²)- Axial Fan Φ (mm) x N°

- series



Air director for axial fan (optional)

REB series forced convection unit air cooler



Air director for axial fan

General features:

The high efficient coils are made from high quality copper tube $\Phi 15.88 \times 0.45 \text{mm}$ and special profile aluminum fin.

Heat exchangers are supplied clean and tested under a pressure of 30 bars.

The casing:

White powder coated aluminum, high corrosion strength, impact resistance, and does not produce polluting debris.

The fan motors:

All with high quality axial fan motors with high safety standards fitted well to the unit casing with an anti-vibration system.

Defrost heating:

Provided by stainless steel heater elements covered by the aluminum tubes, located in the finned pack and the drain pan.

Electrical parts and wiring:

Are connected to an earth terminal, carried out in junction box with access holes equipped with water-proof cable glands.

Model	Dimensions (mm)			Connections (Φ mm)	
	A	B	C	Inlet	Outlet
REB 5001	1434	1029	300	12	28
REB 5002	2463	2058	400	15	42
REB 5003	3492	3087	450	15	54
REB 5004	4522	4116	490	15	54

REB series forced convection unit air cooler

Fin spacing 4.5 mm, with heater, Rt≥0℃

Model 4.5D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REB 5001 53 4.5D	9.98	7.12	53	9.2	6160	16	72	77
REB 5001 79 4.5D	12.4	9.1	79	12.3	5960	15	72	94
REB 5002 106 4.5D	19.95	14.24	106	18.5	12320	18	74	138
REB 5002 159 4.5D	24.79	18.2	159	26.1	11920	17	74	171
REB 5003 159 4.5D	29.93	21.35	159	27.6	18480	20	75	201
REB 5003 239 4.5D	37.91	27.05	239	39.2	17880	19	75	294
REB 5004 218 4.5D	39.91	28.47	218	36	24640	22	76	263
REB 5004 327 4.5D	50.55	36.07	327	54	23840	21	76	395

Mark: Optional model without heater.

Fin spacing 7 mm, with heater, Rt≥-18℃

Model 7D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REB 5001 35 7D	7.9	5.83	35	9.2	6360	17	72	70
REB 5001 52 7D	10.24	7.68	52	12.3	6160	16	72	83
REB 5002 69 7D	15.81	11.67	69	18.5	12720	19	74	124
REB 5002 103 7D	20.48	15.38	103	26.1	12320	18	74	150
REB 5003 103 7D	23.7	17.5	103	27.6	19080	21	75	180
REB 5003 156 7D	30.02	22.16	156	39.2	18480	20	75	218
REB 5004 139 7D	31.61	23.33	139	36	25440	23	76	235
REB 5004 209 7D	40.04	29.55	209	54	24640	22	76	353

Fin spacing 10 mm, with heater, Rt≤-25℃

Model 10D	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = -8℃	t _e = -25℃						
	DT1 = 8K	DT1 = 7K						
REB 5001 25 10D	6.35	4.78	25	9.2	6560	18	72	67
REB 5001 37 10D	8.48	6.46	37	12.3	6360	17	72	78
REB 5002 49 10D	12.69	9.56	49	18.5	13120	20	74	116
REB 5002 75 10D	16.95	12.92	75	26.1	12720	19	74	139
REB 5003 75 10D	19.04	14.34	75	27.6	19680	22	75	167
REB 5003 111 10D	24.12	18.17	111	39.2	19080	21	75	201
REB 5004 98 10D	25.39	19.13	98	36	26240	24	76	217
REB 5004 147 10D	32.17	24.24	147	54	25440	23	76	326

REB series forced convection unit air cooler

Electric Data

Model 4.5D	Axial Fan					Electric Defrost		
	N° x Φ (mm)	Voltage (V,50Hz)	Power (W)	Current (A)	Speed (rpm)	Coil (W)	Drain Pan (W)	Total (W)
REB 5001 53 4.5D	1 x 500	3 ~ 380	420	0.85	1350	3 x 1280	2 x 1280	6400
REB 5001 79 4.5D	1 x 500	3 ~ 380	420	0.85	1350	4 x 1280	2 x 1280	7680
REB 5002 106 4.5D	2 x 500	3 ~ 380	840	1.70	1350	3 x 2320	2 x 2320	11600
REB 5002 159 4.5D	2 x 500	3 ~ 380	840	1.70	1350	4 x 2320	2 x 2320	13920
REB 5003 159 4.5D	3 x 500	3 ~ 380	1260	2.55	1350	3 x 3200	2 x 3200	16000
REB 5003 239 4.5D	3 x 500	3 ~ 380	1260	2.55	1350	4 x 3200	2 x 3200	19200
REB 5004 218 4.5D	4 x 500	3 ~ 380	1680	3.40	1350	6 x 2130	4 x 2130	21300
REB 5004 327 4.5D	4 x 500	3 ~ 380	1680	3.40	1350	7 x 2130	4 x 2130	23430

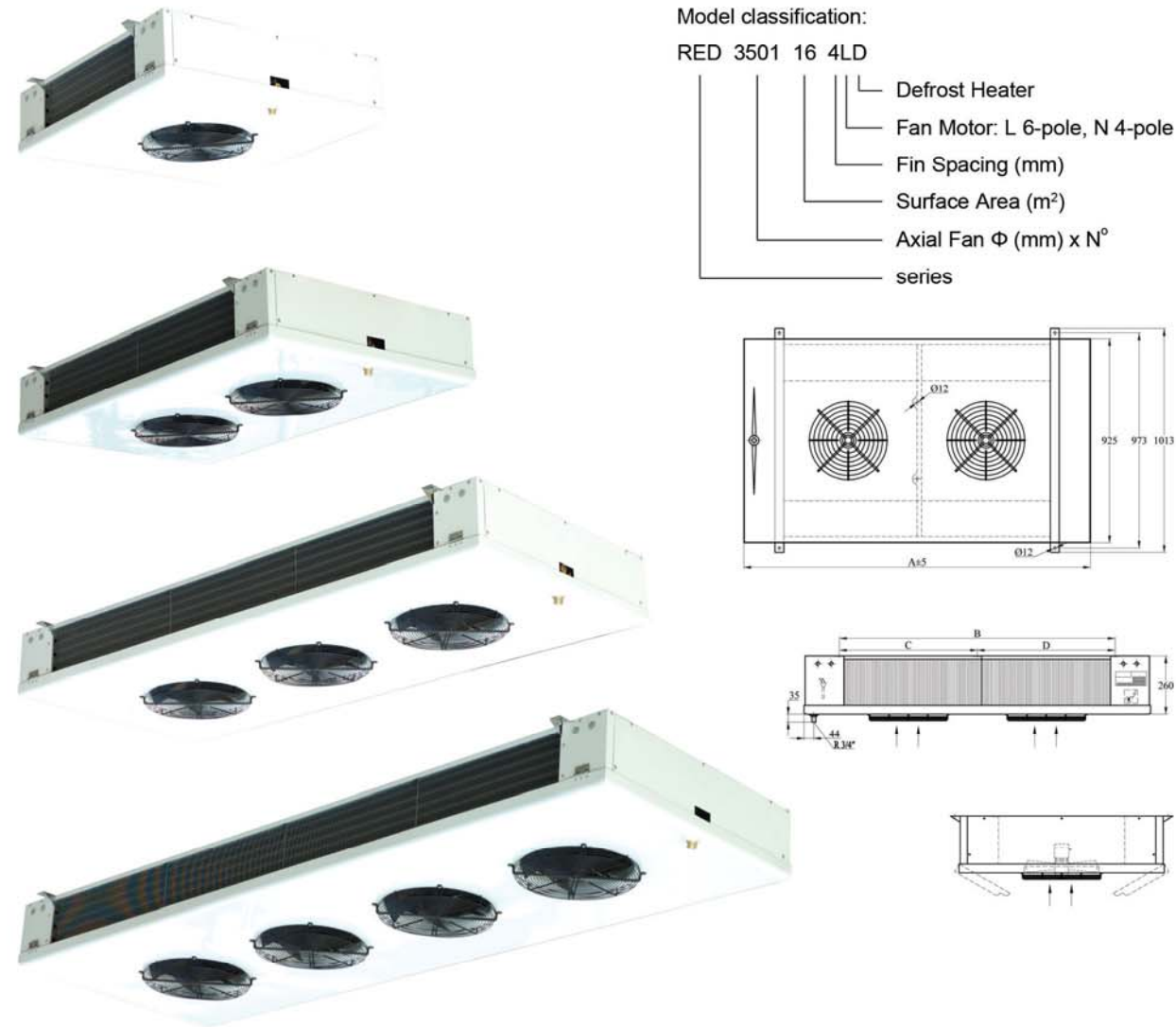
Electric Data

Model 7D	Axial Fan					Electric Defrost		
	N° x Φ (mm)	Voltage (V,50Hz)	Power (W)	Current (A)	Speed (rpm)	Coil (W)	Drain Pan (W)	Total (W)
REB 5001 35 7D	1 x 500	3 ~ 380	420	0.85	1350	3 x 1280	2 x 1280	6400
REB 5001 52 7D	1 x 500	3 ~ 380	420	0.85	1350	4 x 1280	2 x 1280	7680
REB 5002 69 7D	2 x 500	3 ~ 380	840	1.70	1350	3 x 2320	2 x 2320	11600
REB 5002 103 7D	2 x 500	3 ~ 380	840	1.70	1350	4 x 2320	2 x 2320	13920
REB 5003 103 7D	3 x 500	3 ~ 380	1260	2.55	1350	3 x 3200	2 x 3200	16000
REB 5003 156 7D	3 x 500	3 ~ 380	1260	2.55	1350	4 x 3200	2 x 3200	19200
REB 5004 139 7D	4 x 500	3 ~ 380	1680	3.40	1350	6 x 2130	4 x 2130	21300
REB 5004 209 7D	4 x 500	3 ~ 380	1680	3.40	1350	7 x 2130	4 x 2130	23430

Electric Data

Model 10D	Axial Fan					Electric Defrost		
	N° x Φ (mm)	Voltage (V,50Hz)	Power (W)	Current (A)	Speed (rpm)	Coil (W)	Drain Pan (W)	Total (W)
REB 5001 25 10D	1 x 500	3 ~ 380	420	0.85	1350	3 x 1280	2 x 1280	6400
REB 5001 37 10D	1 x 500	3 ~ 380	420	0.85	1350	4 x 1280	2 x 1280	7680
REB 5002 49 10D	2 x 500	3 ~ 380	840	1.70	1350	3 x 2320	2 x 2320	11600
REB 5002 75 10D	2 x 500	3 ~ 380	840	1.70	1350	4 x 2320	2 x 2320	13920
REB 5003 75 10D	3 x 500	3 ~ 380	1260	2.55	1350	3 x 3200	2 x 3200	16000
REB 5003 111 10D	3 x 500	3 ~ 380	1260	2.55	1350	4 x 3200	2 x 3200	19200
REB 5004 98 10D	4 x 500	3 ~ 380	1680	3.40	1350	6 x 2130	4 x 2130	21300
REB 5004 147 10D	4 x 500	3 ~ 380	1680	3.40	1350	7 x 2130	4 x 2130	23430

RED series dual discharge unit air cooler



General features:

The high efficient coils are made from high quality copper tube Φ12.7x0.4mm and special profile aluminum fin.

Heat exchangers are supplied clean and tested under a pressure of 30 bars.

The casing:

White powder coated aluminum, high corrosion strength, impact resistance, and does not produce polluting debris.

The fan motors:

All with high quality axial fan motors with high safety standards fitted well to the unit casing with an anti-vibration system.

Defrost heating (optional):

Provided by stainless steel heater elements covered by the aluminum tubes, located in the finned pack.

Electrical parts and wiring:

Are connected to an earth terminal, carried out in junction box with access holes equipped with water-proof cable glands.

RED series dual discharge unit air cooler

Fin spacing 4, 6 mm, without heater

Model 4L/N, 6L/N	Capacity R404A/R 507A (kw)		Surface Area (m ²)	Tube Volume (dm ³)	Air Flow (m ³ /h)	Air Throw (m)	Fan Noise dB(A)	Net Weight (kg)
	t _e = 0°C	t _e = -8°C						
	DT1=10K	DT1=8K						
RED 3501 16 4L	4.13	2.75	16	3.4	1470	2 x 6	56	35
RED 3501 16 4N	5.06	3.37	16	3.4	2190	2 x 9	62	35
RED 3502 31 4L	8.27	5.50	31	6.4	2940	2 x 7	58	60
RED 3502 31 4N	10.10	6.74	31	6.4	4380	2 x 10	64	60
RED 3503 47 4L	12.40	8.25	47	9.3	4410	2 x 8	60	85
RED 3503 47 4N	15.20	10.10	47	9.3	6570	2 x 11	62	85
RED 3504 62 4L	16.50	11.00	62	12.3	5880	2 x 9	61	110
RED 3504 62 4N	19.80	13.20	62	12.3	8760	2 x 12	63	110
RED 3501 11 6L	3.47	2.31	11	3.4	1520	2 x 6	56	33
RED 3501 11 6N	4.25	2.83	11	3.4	2260	2 x 9	62	33
RED 3502 22 6L	6.95	4.62	22	6.4	3040	2 x 7	58	57
RED 3502 22 6N	8.51	5.66	22	6.4	4520	2 x 10	64	57
RED 3503 32 6L	10.40	6.93	32	9.3	4560	2 x 8	60	78
RED 3503 32 6N	12.80	8.49	32	9.3	6780	2 x 11	62	78
RED 3504 43 6L	13.90	9.25	43	12.3	6080	2 x 9	61	102
RED 3504 43 6N	16.70	11.10	43	12.3	9040	2 x 12	63	102

Mark: Optional model with heater.

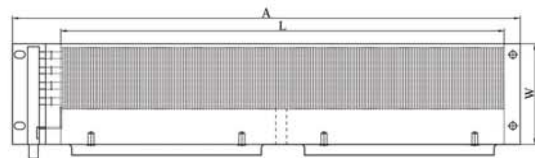
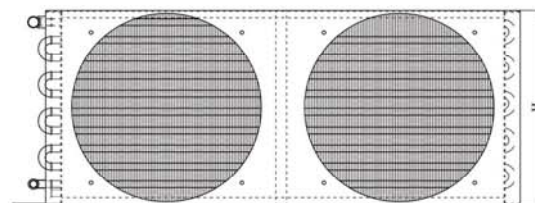
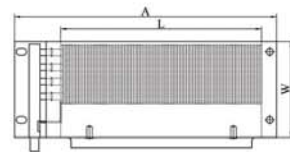
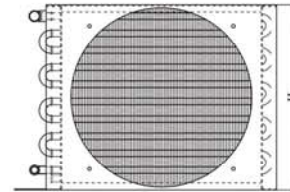
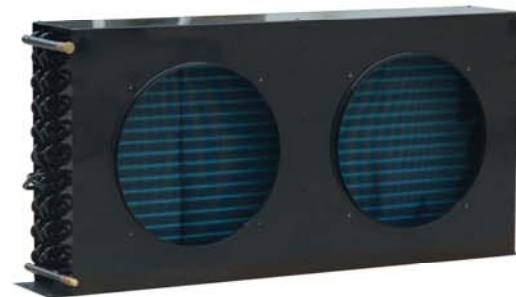
Electric Data

Model 4L/ND, 6L/ND	Axial Fan					Electric Defrost	
	N° x Φ (mm)	Voltage (V, 50Hz)	Power (W)	Current (A)	Speed (rpm)	Coil (W)	Total (W)
RED 3501 LD	1 x 350	~ 220	80	0.40	950	2 x 750	1500
RED 3501 ND	1 x 350	~ 220	150	0.75	1400	2 x 750	1500
RED 3502 LD	2 x 350	~ 220	160	0.80	950	2 x 1250	2500
RED 3502 ND	2 x 350	~ 220	300	1.50	1400	2 x 1250	2500
RED 3503 LD	3 x 350	~ 220	240	1.20	950	2 x 1750	3500
RED 3503 ND	3 x 350	~ 220	450	2.25	1400	2 x 1750	3500
RED 3504 LD	4 x 350	~ 220	320	1.60	950	2 x 2650	5300
RED 3504 ND	4 x 350	~ 220	600	3.00	1400	2 x 2650	5300

Dimensions & Connections

Model	Dimensions (mm)					Connections (Φ mm)	
	A	B	C	D	E	Inlet	Outlet
RED 3501	963	640	-	-	390	12	22
RED 3502	1565	1242	-	-	390	12	22
RED 3503	2167	1844	597	645	390	15	28
RED 3504	2769	2446	597	645	390	15	28

RCB series air cooled condenser



General features:

The high efficient coils are made from high quality copper tube $\Phi 9.52\text{mm}$ and special profile aluminum fin.

Heat exchangers are supplied clean and tested under a pressure of 30 bars.

The casing:

Black coated galvanized steel (on customer's request), high corrosion strength, and does not produce polluting debris.

The fan motors (optional):

Optional high quality axial fan motors with high safety standards fitted well to the unit casing.

RCB series air cooled condenser

Model	Tube N°	Capacity (KW)	Fin Space (mm)	Surface Area (m ²)	Axial Fan		Dimensions (mm)			
					N° x Φ (mm)	Air Flow (m ³ /h)	A	H	W	L
RCB-1/4HP	2 x 10	1.21	3.17	2.3	1 x 250	900	360	281	102	300
RCB-1/3HP	3 x 10	1.63	3.17	3.1	1 x 250	900	380	270	120	300
RCB-1/2HP	4 x 10	2.37	3.17	4.5	1 x 250	900	380	270	140	290
RCB-3/4HP	4 x 12	3.05	3.17	5.8	1 x 300	1400	450	370	152	350
RCB-1HP	4 x 14	4.05	3.17	7.7	1 x 300	1400	490	370	152	400
RCB-1.5HP	4 x 16	5.78	3.17	11	1 x 350	2260	600	422	182	422
RCB-2HP	4 x 18	7.77	3.17	14.8	1 x 400	3830	644	473	182	600
RCB-2.5HP	5 x 18	9.72	3.17	18.5	1 x 400	3830	710	473	200	600
RCB-3HP	6 x 18	11.66	3.17	22.2	1 x 400	3830	710	473	234	600
RCB-4HP	6 x 22	14.23	3.17	27.1	1 x 400	3830	710	575	234	600
RCB-5HP	4 x 30	17.22	2.83	32.8	1 x 450	4600	910	780	215	800
RCB-3HPCD	4 x 16	12.87	2.83	24.5	2 x 350	4520	1110	420	182	1000
RCB-4HPCD	4 x 20	16.07	2.83	30.6	2 x 350	4520	1110	525	182	1000
RCB-5HPCD	4 x 24	19.27	2.83	36.7	2 x 400	7660	1110	625	195	1000
RCB-6HPCD	4 x 26	25.10	2.83	47.8	2 x 400	7660	1310	680	195	1200
RCB-7.5HPCD	4 x 32	30.87	2.83	58.8	2 x 450	9200	1310	830	215	1200
RCB-10HPCD	4 x 32	41.11	2.83	78.3	2 x 500	12840	1740	825	250	1600
RCB-12HPCD	4 x 36	46.31	2.83	88.2	2 x 630	21660	1740	928	230	1600
RCB-15HPCD	4 x 36	52.08	2.83	99.2	2 x 630	21660	1950	916	260	1800
RCB-18HPCD	4 x 36	63.79	2.54	121.5	3 x 500	19260	2120	928	230	1980
RCB-20HPCD	4 x 38	68.25	2.83	130	2 x 710	32160	2340	975	227	2180
RCB-25HPCD	4 x 42	75.03	2.83	142.9	2 x 710	32160	2340	1075	227	2180

RUC series packaged condensing unit



Model classification:

RUC 100 MS Y

- Y: ester oil (none: mineral oil)
- S: single phase (T: three phase)
- M: middle & high temperature (B: low)
- Nominal Power * 100 (HP)
- series



General features:

Easy & quick installation & maintenance, silent & reliable operation, energy saving, outdoor type.

The casing:

White powder coated galvanized steel with bigger inner space, lined with sound absorbing materials.

The condenser:

Bended condenser coils are made from high quality copper tube $\Phi 9.52\text{mm}$ and blue aluminum fin.

Heat exchangers are supplied clean and tested under a pressure of 30 bars.

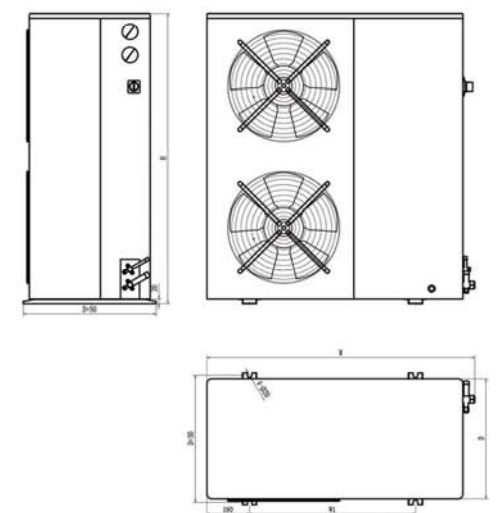
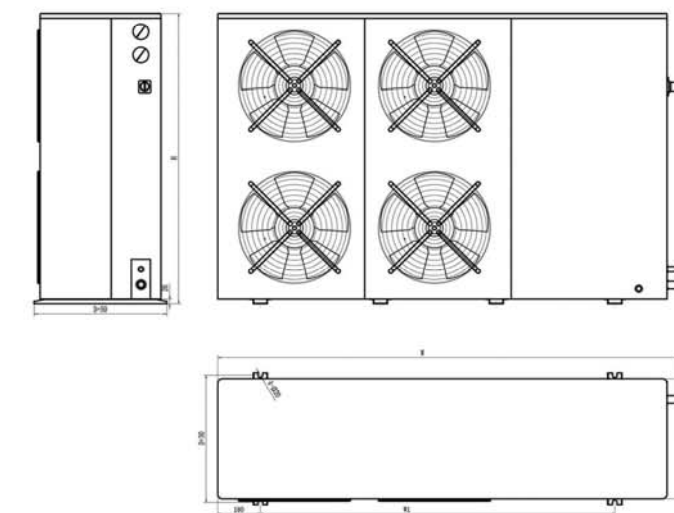
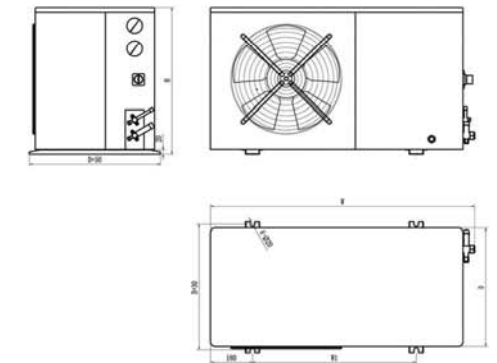
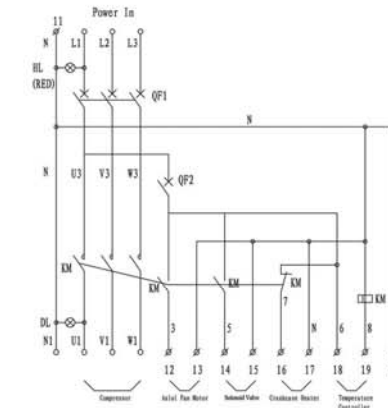
The fan motors:

All with high quality axial fan 6-pole motors with high safety standards fitted well to the unit casing with low noise.

Electrical parts and wiring (optional):

Schneider electrical controller inside the unit, and access holes with plastic cable glands on the casing for wiring.

RUC series packaged condensing unit



Main parts:

- Danfoss HP/LP switch, filter drier, sight glass;
- Castel solenoid valve in liquid line;
- Liquid receiver, suction accumulator & oil separator (optional);
- Axial 6-pole fan motor;
- HP/LP Manometers connected with flexible hoses;
- Stop valves on liquid & suction lines (not for 4 fans model).
- Vibration eliminators for semi-hermetic compressor units.

Optional parts:

- Castel safety valve;
- Alco Fan speed controller;
- Schneider electrical controller and rotary switch.



RUC series packaged condensing unit

Copeland Scroll R404A for Medium Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-20	-15	-10	-5	0
RUC200MSY	ZB15KQE-PFJ	2	~ 220	2400	3000	3700	4450	5350
RUC200MTY	ZB15KQE-TFD	2	3 ~ 380	2400	3000	3700	4450	5350
RUC250MSY	ZB19KQE-PFJ	2.5	~ 220	3050	3750	4550	5450	6500
RUC250MTY	ZB19KQE-TFD	2.5	3 ~ 380	3050	3750	4550	5450	6500
RUC300MSY	ZB21KQE-PFJ	3	~ 220	3700	4550	5500	6600	7900
RUC300MTY	ZB21KQE-TFD	3	3 ~ 380	3700	4550	5500	6600	7900
RUC350MSY	ZB26KQE-PFJ	3.5	~ 220	4300	5250	6350	7650	9100
RUC350MTY	ZB26KQE-TFD	3.5	3 ~ 380	4300	5250	6350	7650	9100
RUC400MTY	ZB29KQE-TFD	4	3 ~ 380	5040	6160	7460	8960	10680
RUC500MTY	ZB38KQE-TFD	5	3 ~ 380	6250	7700	9300	11200	13350
RUC600MTY	ZB45KQE-TFD	6	3 ~ 380	7400	9050	10950	13150	15700
RUC700MTY	ZB48KQE-TFD	7	3 ~ 380	8150	9969	12074	14500	17287

Test Condition: Ambient Temperature +32°C, Condensing Temperature +40°C

Copeland Scroll R404A for Medium Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-20	-15	-10	-5	0
RUC800MTY	ZB58KQE-TFD	8	3 ~ 380	9250	11700	14400	17500	21000
RUC900MTY	ZB66KQE-TFD	9	3 ~ 380	11100	13550	16400	19600	23400
RUC1000MTY	ZB76KQE-TFD	10	3 ~ 380	13300	16100	19400	23300	27800
RUC1200MTY	ZB88KQE-TFD	12	3 ~ 380	15050	17700	21075	24950	29555
RUC1300MTY	ZB95KQE-TFD	13	3 ~ 380	15600	19600	23850	28550	33900
RUC1500MTY	ZB114KQE-TFD	15	3 ~ 380	18300	23050	28250	34100	40700

Test Condition: Ambient Temperature +32°C, Condensing Temperature +40°C

RUC series packaged condensing unit

Condenser Surface (m²)	Condenser Axial Fan	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
	Nº x Φ (mm)			Liquid	Suction	W	H	D	W1
20	1 x 450	3.00	33	1/2"	3/4"	1130	630	510	700
20	1 x 450	3.00	33	1/2"	3/4"	1130	630	510	700
25	1 x 450	3.00	39	1/2"	3/4"	1130	630	510	700
25	1 x 450	3.00	39	1/2"	3/4"	1130	630	510	700
30	1 x 450	3.00	39	1/2"	3/4"	1130	630	510	700
30	1 x 450	3.00	39	1/2"	3/4"	1130	630	510	700
35	1 x 500	3.40	42	1/2"	3/4"	1130	780	510	700
35	1 x 500	3.40	42	1/2"	3/4"	1130	780	510	700
40	1 x 500	3.40	42	1/2"	7/8"	1130	780	510	700
50	2 x 450	5.90	43	1/2"	7/8"	1130	1230	510	700
60	2 x 450	5.90	43	1/2"	7/8"	1130	1230	510	700
70	2 x 450	5.90	43	5/8"	7/8"	1130	1230	510	700

Condenser Surface (m²)	Condenser Axial Fan	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
	Nº x Φ (mm)			Liquid	Suction	W	H	D	W1
80	4 x 400	11.45	48	7/8"	1 1/8"	1755	1130	510	1270
90	4 x 400	11.45	48	7/8"	1 3/8"	1755	1130	510	1270
100	4 x 400	11.45	48	7/8"	1 3/8"	1755	1130	510	1270
120	4 x 450	15.47	51	7/8"	1 3/8"	2065	1230	510	1580
130	4 x 450	15.47	51	7/8"	1 3/8"	2065	1230	510	1580
150	4 x 450	15.47	51	7/8"	1 3/8"	2065	1230	555	1580

RUC series packaged condensing unit

Tecumseh Hermetic R404A for Medium & High Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-15	-10	0	+7.2	+15
RUC 100MS Y	CAJ9513Z	1-1/8	~220	1114	1501	2485	3406	4646
RUC 100MT Y	TAJ9513Z	1-1/8	3 ~ 380	1114	1501	2485	3406	4646
RUC 150MS Y	CAJ4519Z	1-3/4	~ 220	1769	2353	3756	5030	6735
RUC 150MT Y	TAJ4519Z	1-3/4	3 ~ 380	1769	2353	3756	5030	6735
RUC 200MS Y	FH4524Z	2	~ 220	1835	2570	4361	5977	8101
RUC 200MT Y	TFH4524Z	2	3 ~ 380	1835	2570	4361	5977	8101
RUC 300MS Y	FH4540Z	3-1/2	~ 220	3388	4425	7276	9814	13056
RUC 300MT Y	TFH4540Z	3-1/2	3 ~ 380	3388	4425	7276	9814	13056
RUC 400MT Y	TAG4546Z	4	3 ~ 380	2806	4249	7956	11297	15719
RUC 500MT Y	TAG4561Z	5	3 ~ 380	4363	5895	10452	14772	20227
RUC 600MT Y	TAG4568Z	6	3 ~ 380	5322	7077	11973	16636	22760
RUC 700MT Y	TAG4573Z	7	3 ~ 380	5788	7710	13123	18228	24806

Test Condition: Ambient Temperature +35°C, Condensing Temperature +54.5°C

Tecumseh Hermetic R404A for Low Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-35	-30	-23.3	-20	-10
RUC 100BS Y	CAJ2446Z	1	~ 220	549	797	1194	1423	2290
RUC 100BT Y	TAJ2446Z	1	3 ~ 380	549	797	1194	1423	2290
RUC 150BS Y	CAJ2464Z	1-1/2	~ 220	723	1076	1605	1902	3012
RUC 150BT Y	TAJ2464Z	1-1/2	3 ~ 380	723	1076	1605	1902	3012
RUC 200BS Y	FH2480Z	2	~ 220	738	1319	2183	2662	4419
RUC 200BT Y	TFH2480Z	2	3 ~ 380	738	1319	2183	2662	4419
RUC 300BS Y	FH2511Z	3	~ 220	1380	2016	3135	3796	6222
RUC 300BT Y	TFH2511Z	3	3 ~ 380	1380	2016	3135	3796	6222
RUC 400BT Y	TAG2516Z	4	3 ~ 380	1743	2704	4356	5335	9038
RUC 600BT Y	TAG2522Z	6	3 ~ 380	2378	3542	5522	6688	11062

Test Condition: Ambient Temperature +32°C, Condensing Temperature +54.5°C

RUC series packaged condensing unit

Condenser Surface (m²)	Condenser Axial Fan	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
	Nº x Φ (mm)			Liquid	Suction	W	H	D	W1
10	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
10	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
20	1 x 450	3.00	39	1/2"	5/8"	1130	630	510	700
20	1 x 450	3.00	39	1/2"	5/8"	1130	630	510	700
30	1 x 450	3.00	39	1/2"	7/8"	1130	630	510	700
30	1 x 450	3.00	39	1/2"	7/8"	1130	630	510	700
40	1 x 500	3.40	42	5/8"	7/8"	1130	780	510	700
50	2 x 450	5.90	43	5/8"	7/8"	1130	1230	510	700
60	2 x 450	5.90	43	5/8"	7/8"	1130	1230	510	700
70	2 x 450	5.90	43	5/8"	7/8"	1130	1230	510	700

Condenser Surface (m²)	Condenser Axial Fan	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
	Nº x Φ (mm)			Liquid	Suction	W	H	D	W1
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
15	1 x 350	0.95	33	3/8"	1/2"	880	530	410	460
20	1 x 450	3.00	39	3/8"	5/8"	1130	630	510	700
20	1 x 450	3.00	39	3/8"	5/8"	1130	630	510	700
30	1 x 450	3.00	39	3/8"	5/8"	1130	630	510	700
30	1 x 450	3.00	39	3/8"	5/8"	1130	630	510	700
40	1 x 500	3.40	42	1/2"	7/8"	1130	780	510	700
60	2 x 450	5.90	43	1/2"	7/8"	1130	1230	510	700

RUC series packaged condensing unit

BITZER Semi-hermetic R404A for Medium & High Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				+5	0	-10	-20	-30
RUC200MTY	2HC-2.2Y	2	3 ~ 380	6070	5060	3430	2190	1270
RUC300MTY	2EC-3.2Y	3	3 ~ 380	10660	8930	6100	3970	2390
RUC300MTY	2DC-3.2Y	3	3 ~ 380	12390	10380	7080	4600	2760
RUC400MTY	2CC-4.2Y	4	3 ~ 380	15110	12660	8660	5650	3420
RUC500MTY	4FC-5.2Y	5	3 ~ 380	16740	14020	9580	6240	3760
RUC600MTY	4EC-6.2Y	6	3 ~ 380	21250	17780	12120	7860	4700
RUC700MTY	4DC-7.2Y	7	3 ~ 380	25200	21100	14350	9270	5510
RUC900MTY	4CC-9.2Y	9	3 ~ 380	30150	25300	17410	11440	7000
RUC1000MTY	4VCS-10.2Y	10	3 ~ 380	33100	27600	18680	11950	6960
RUC1200MTY	4TCS-12.2Y	12	3 ~ 380	39850	33300	22600	14530	8590
RUC1500MTY	4PCS-15.2Y	15	3 ~ 380	47850	39950	27050	17360	10190
RUC2000MTY	4NCS-20.2Y	20	3 ~ 380	55400	46250	31250	20000	11730

Test Condition: Ambient Temperature +32°C, Condensing Temperature +40°C

DORIN Semi-hermetic R404A for Medium Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-10	-15	-20	-25	-30
RUC250MTY	H250CS	2.5	3 ~ 380	6070	4910	3910	3050	2320
RUC300MTY	H300CS	3	3 ~ 380	7730	6290	5050	3980	3060
RUC400MTY	H403CS	4	3 ~ 380	11150	9070	7260	5700	4370
RUC500MTY	H503CS	5	3 ~ 380	13510	11070	8940	7080	5480
RUC700MTY	H700CS	7	3 ~ 380	13580	11000	8770	6870	5250
RUC750MTY	H750CS	7.5	3 ~ 380	18990	15420	12340	9700	7460
RUC1000MTY	H1000CS	10	3 ~ 380	26080	21160	16920	13280	10190
RUC1500MTY	H1500CS	15	3 ~ 380	30010	24390	19530	15360	11790
RUC1600MTY	H1600CS	16	3 ~ 380	32840	26690	21370	16790	12890
RUC1800MTY	H1800CS	18	3 ~ 380	36614	29809	23924	18867	14549
RUC2000MTY	H2000CS	20	3 ~ 380	38650	31460	25280	19990	15480

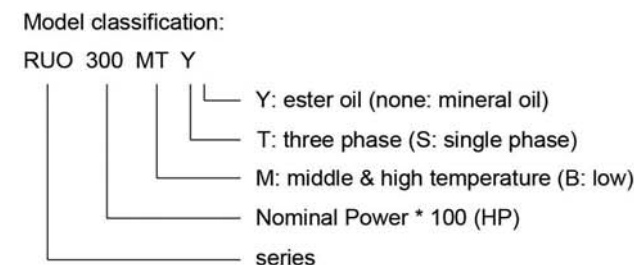
Test Condition: Ambient Temperature +32°C, Condensing Temperature +45°C

RUC series packaged condensing unit

Condenser Surface (m²)	Condenser Axial Fan N° x Φ (mm)	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
				Liquid	Suction	W	H	D	W1
20	1 x 450	3.40	44	1/2"	5/8"	1130	630	510	700
30	2 x 450	5.90	48	5/8"	7/8"	1130	1230	510	700
30	2 x 450	5.90	48	5/8"	7/8"	1130	1230	510	700
40	2 x 450	5.90	48	5/8"	7/8"	1130	1230	510	700
50	4 x 400	9.55	52	5/8"	7/8"	1755	1130	510	1270
60	4 x 400	9.55	52	5/8"	1 1/8"	1755	1130	510	1270
70	4 x 400	15.47	52	7/8"	1 1/8"	1755	1130	510	1270
90	4 x 400	15.47	52	7/8"	1 1/8"	1755	1130	510	1270
100	4 x 450	15.47	55	7/8"	1 1/8"	2065	1230	510	1580
120	4 x 450	31.10	55	7/8"	1 3/8"	2065	1230	510	1580
150	4 x 450	31.10	55	7/8"	1 5/8"	2065	1230	555	1580
180	4 x 450	31.10	55	7/8"	1 5/8"	2065	1230	555	1580

Condenser Surface (m²)	Condenser Axial Fan N° x Φ (mm)	Liquid Receiver (Litre)	Sound Level 10m (dBA)	Connections (Φ inch)		Dimensions (mm)			
				Liquid	Suction	W	H	D	W1
25	1 x 450	5.90	48	5/8"	3/4"	1130	1230	510	700
30	2 x 450	5.90	48	5/8"	7/8"	1130	1230	510	700
40	4 x 400	9.55	52	5/8"	1-1/8"	1755	1130	510	1270
50	4 x 400	9.55	52	5/8"	1-3/8"	1755	1130	510	1270
70	4 x 400	15.47	52	7/8"	1-3/8"	1755	1130	510	1270
75	4 x 400	15.47	52	7/8"	1-3/8"	1577	1130	510	1270
100	4 x 450	15.47	55	7/8"	1-5/8"	2065	1230	510	1580
150	4 x 450	31.10	55	7/8"	1-5/8"	2065	1230	555	1580
160	4 x 450	31.10	55	7/8"	1-5/8"	2065	1230	555	1580
180	4 x 450	31.10	55	7/8"	1-5/8"	2065	1230	555	1580
180	4 x 450	31.10	55	7/8"	1-5/8"	2065	1230	555	1580

RUO series open type condensing unit



General features:

Air cooled semi-hermetic condensing units, high quality & reliable operation, indoor type.

The base:

Green powder coated steel frame (optional galvanized steel base).

The condenser:

Air cooled condensers are made from high quality copper tube $\Phi 9.52\text{mm}$ and aluminum fin.

Heat exchangers are supplied clean and tested under a pressure of 30 bars.

The fan motors:

All with high quality axial fan 4-pole motors with high safety standards fitted well to the condenser's casing.

Electrical controller box (optional):

Electrical controller box outside the condensing unit, and access holes with plastic cable glands on the box for wiring.

Main parts:

- Danfoss HP/LP switch, filter drier, sight glass;
- Castel solenoid valve in liquid line;
- Liquid receiver, oil separator;
- Axial 4-pole fan motor;
- HP/LP Manometers connected with copper capillary;
- Vibration eliminators for semi-hermetic compressor units.

Optional parts:

- Suction accumulator;
- Castel safety valve on receiver;
- Electrical controller box;
- Additional cooling fan.

RUO series open type condensing unit

BITZER Semi-hermetic R404A for Medium & High Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				+5	0	-10	-20	-30
RUO300MTY	2DC-3.2Y	3	3 ~ 380	12390	10380	7080	4600	2760
RUO400MTY	2CC-4.2Y	4	3 ~ 380	15110	12660	8660	5650	3420
RUO500MTY	4FC-5.2Y	5	3 ~ 380	16740	14020	9580	6240	3760
RUO600MTY	4EC-6.2Y	6	3 ~ 380	21250	17780	12120	7860	4700
RUO700MTY	4DC-7.2Y	7	3 ~ 380	25200	21100	14350	9270	5510
RUO900MTY	4CC-9.2Y	9	3 ~ 380	30150	25300	17410	11440	7000
RUO1000MTY	4VCS-10.2Y	10	3 ~ 380	33100	27600	18680	11950	6960
RUO1200MTY	4TCS-12.2Y	12	3 ~ 380	39850	33300	22600	14530	8590
RUO1500MTY	4PCS-15.2Y	15	3 ~ 380	47850	39950	27050	17360	10190
RUO2000MTY	4NCS-20.2Y	20	3 ~ 380	55400	46250	31250	20000	11730
RUO2500MTY	4H-25.2Y	25	3 ~ 380	71000	59500	40650	26450	15930
RUO3000MTY	4G-30.2Y	30	3 ~ 380	81800	68600	47000	30700	18610
RUO3500MTY	6H-35.2Y	35	3 ~ 380	106600	89300	60900	39600	23800
RUO4000MTY	6G-40.2Y	40	3 ~ 380	122400	102700	70300	46000	28000
RUO5000MTY	6F-50.2Y	50	3 ~ 380	145000	121700	83600	55000	33850

Test Condition: Ambient Temperature +32°C, Condensing Temperature +40°C

BITZER Semi-hermetic R404A for Medium & Low Temperature

Condensing Unit Model	Compressor Model	Nominal Power (HP)	Voltage (V, 50Hz)	Refrigeraiton Capacity (W)				
				Evaporating Temperature (°C)				
				-10	-15	-20	-30	-40
RUO300BTY	4FC-3.2Y	3	3 ~ 380	9520	7740	6200	3750	1980
RUO400BTY	4EC-4.2Y	4	3 ~ 380	11870	9650	7720	4650	2440
RUO500BTY	4DC-5.2Y	5	3 ~ 380	14520	11810	9460	5720	3010
RUO600BTY	4CC-6.2Y	6	3 ~ 380	17420	14200	11420	6980	3770
RUO800BTY	4TCS-8.2Y	9	3 ~ 380	22800	18480	14760	8830	4580
RUO1000BTY	4PCS-10.2Y	10	3 ~ 380	26500	21500	17130	10220	5240
RUO1200BTY	4NCS-12.2Y	12	3 ~ 380	30600	24800	19810	11840	6120
RUO1500BTY	4H-15.2Y	15	3 ~ 380	41150	33600	27100	16730	9240
RUO2000BTY	4G-20.2Y	20	3 ~ 380	47300	38700	31200	19250	10540
RUO2500BTY	6H-25.2Y	25	3 ~ 380	61600	50200	40400	24700	13440
RUO3000BTY	6G-30.2Y	30	3 ~ 380	69300	56600	45550	27900	15130
RUO4000BTY	6F-40.2Y	40	3 ~ 380	83100	67600	54300	32950	17570

Test Condition: Ambient Temperature +32°C, Condensing Temperature +40°C

Additional cooling fan or limited suction temperature for evaporating temperature lower than -30°C.