

# RCE / RCE-S

## EXTERNAL CONDENSING FOR PRECISION AIR CONDITIONING UNITS

R410a



AIR



External condensing units for precision air conditioning units.

Remote condensers with axial-type fans for outdoor installation. The condensers can be installed either in vertical position (horizontal air flow) or in horizontal position (vertical air flow) by using the appropriate feet. The very low noise, adjustable-speed fans are excellent for those projects where acoustical emissions play a central role.

### Features

Heat exchanger with a special configuration of fins very close one to the other, optimizing and increasing heat exchange performance, thanks to the use of special high-efficiency tubes with internal grooves.

The new RCE-RCES remote condensers can be supplied with special Nanocoating protection which gradually slows down the deposit of dust and pollution on the fin surface, keeping the heat exchange surface clean and the maximum efficiency and giving an additional resistance against corrosion.

All models are available in standard, silenced and super-silenced versions.

### ACCESSORIES

- Operation down to  $-40^{\circ}\text{C}$
- Fan speed regulation
- Copper/copper battery
- Axial fans with electronically switched motor (EC)



## TECHNICAL DATA

### Single circuit remote condenser - Standard version

RCE		091	111	211	311	421	571	671	991	1101	1501	
Heating capacity <sup>(1)</sup>	kW	9,3	11,1	19,2	29,4	44,2	60,5	66,5	97,4	100,2	150,6	
<b>Axial Fans</b>												
Quantity	n°	1	1	2	1	4	2	2	3	4	6	
Rotation speed	g/min	1450	1450	1450	1300	1400	1300	1300	1300	1300	1300	
Air flow	m <sup>3</sup> /h	2600	2400	5200	6620	9600	13250	12500	18760	29440	37530	
Total input power	kW	0,14	0,14	0,29	0,68	0,58	1,36	1,36	2,04	2,72	4,08	
Total nominal current	A	0,68	0,68	1,36	3,00	2,72	6,00	6,00	9,00	12,00	18,00	
Diameter	mm	350	350	350	500	350	500	500	500	500	500	
Sound pressure level <sup>(2)</sup>	dB(A)	40	40	43	48	46	51	51	52	53	54	
Sound power level <sup>(3)</sup>	dB(A)	71	71	74	79	77	82	82	83	85	86	
<b>Dimension <sup>(4)</sup></b>												
Length - horizontal air flow	mm	882	882	1582	1203	2980	2203	2203	3203	4373	2705	
Depth - horizontal air flow	mm	480	480	480	570	480	570	570	570	705	600	
Height - horizontal air flow	mm	510	510	510	830	510	830	830	830	1110	1645	
Length - vertical air flow	mm	882	882	1582	1219	2980	2219	2219	3219	4393	2705	
Depth - vertical air flow	mm	550	550	550	895	550	895	895	895	1110	1717	
Height - vertical air flow	mm	811	811	811	1099	811	1099	1099	1099	1230	1070	
Weight	kg	25	27	44	67	88	112	120	170	282	250	
Battery capacity	dm <sup>3</sup>	0,9	1,2	1,5	3,0	4,5	5,9	7,2	11,1	17,7	28,2	
Input/output connections	mm/mm	16/16	16/16	16/16	22/22	28/28	28/28	28/28	42/35	42/35	54/42	
Power supply	V/ph/Hz						230/1/50+T					

### Single circuit remote condenser - Low noise version

RCE-S		151	261	351	501	571	651	1001	1101	1301		
Heating capacity <sup>(1)</sup>	kW	15,8	22,8	30,9	46,2	57,1	66	78,4	108,7	140,1		
<b>Axial Fans</b>												
Quantity	n°	1	1	2	2	3	3	4	6	6		
Rotation speed	g/min	665	865	665	865	865	865	865	665	865		
Air flow	m <sup>3</sup> /h	3590	4040	7180	8080	14100	12970	19930	20370	28200		
Total input power	kW	0,13	0,22	0,26	0,44	0,66	0,66	0,88	0,78	1,32		
Total nominal current	A	0,59	0,97	1,18	1,94	2,91	2,91	3,88	3,54	5,82		
Diameter	mm	500	500	500	500	500	500	500	500	500		
Sound pressure level <sup>(2)</sup>	dB(A)	30	37	33	40	41	41	42	37	44		
Sound power level <sup>(3)</sup>	dB(A)	61	68	64	71	72	72	74	69	76		
<b>Dimension <sup>(4)</sup></b>												
Length - horizontal air flow	mm	1203	1203	2203	2203	3203	3203	4373	3393	3393		
Depth - horizontal air flow	mm	570	570	570	570	570	570	705	990	990		
Height - horizontal air flow	mm	830	830	830	830	830	830	1110	2110	2110		
Length - vertical air flow	mm	1219	1219	2219	2219	3219	3219	4393	3393	3393		
Depth - vertical air flow	mm	895	895	895	895	895	895	1110	2110	2110		
Height - vertical air flow	mm	1099	1099	1099	1099	1099	1099	1230	1230	1230		
Weight	kg	62	71	104	120	146	157	282	425	425		
Battery capacity	dm <sup>3</sup>	1,9	4,2	3,7	7,2	5,6	8,2	17,7	41,8	41,8		
Input/output connections	mm/mm	16/16	28/28	28/28	28/28	28/28	35/28	42/35	54/42	54/42		
Power supply	V/ph/Hz						230/1/50+T					

(1) Performances are referred to the following conditions: Ambient temperature 35°C, Condensing temperature 50°C.

(2) Sound pressure level measured at 10 mt from the unit in free field conditions according to ISO 3744.

(3) Sound power level according to ISO 3744.

(4) Including support brackets.

## Double circuit remote condenser - Standard version

RCE		302	482	602	752	862	1052	1152	1252	1602	1702	
Heating capacity <sup>(1)</sup>	kW	29,4	44,2	60,5	66,5	87,8	97,4	100,2	124,4	150,6	170,2	
<b>Axial Fans</b>												
Quantity	n°	1	4	2	2	3	3	4	4	6	6	
Rotation speed	g/min	1300	1400	1300	1300	1300	1300	1300	1300	1300	1300	
Air flow	m <sup>3</sup> /h	6620	9600	13240	12510	19870	18770	29440	27970	37540	35330	
Total input power	kW	0,68	0,58	1,36	1,36	2,04	2,04	2,72	2,72	4,08	4,08	
Total nominal current	A	3	2,72	6	6	9	9	12	12	18	18	
Diameter	mm	500	350	500	500	500	500	500	500	500	500	
Sound pressure level <sup>(2)</sup>	dB(A)	48	46	51	51	52	52	53	53	54	54	
Sound power level <sup>(3)</sup>	dB(A)	79	77	82	82	83	83	85	85	86	86	
<b>Dimension <sup>(4)</sup></b>												
Length - horizontal air flow	mm	1203	2980	2203	2203	3203	3203	4373	4373	2705	2705	
Depth - horizontal air flow	mm	570	480	570	570	570	570	705	705	600	600	
Height - horizontal air flow	mm	830	510	830	830	830	830	1110	1110	1645	1645	
Length - vertical air flow	mm	1219	2980	2219	2219	3219	3219	4393	4393	2705	2705	
Depth - vertical air flow	mm	895	550	895	895	895	895	1110	1110	1717	1717	
Height - vertical air flow	mm	1099	811	1099	1099	1099	1099	1230	1230	1070	1070	
Weight	kg	67	88	112	120	157	170	282	312	250	274	
Battery capacity	dm <sup>3</sup>	3,0	4,5	5,9	7,2	8,2	11,1	17,7	26,6	28,2	35,9	
Input/output connections	mm/mm	22/22	28/28	28/28	28/28	35/28	42/35	42/35	54/42	54/42	54/42	
Power supply	V/ph/Hz						230/1/50+T					

## Double circuit remote condenser - Low noise version

RCE-S		382	482	602	752	862	1252	1602	1702		
Heating capacity <sup>(1)</sup>	kW	37,1	46,2	57,1	68,4	93,3	114,3	116,6	157,8		
<b>Axial Fans</b>											
Quantity	n°	2	2	3	3	4	6	5	8		
Rotation speed	g/min	865	865	865	865	865	865	865	865		
Air flow	m <sup>3</sup> /h	9400	8084	14100	12120	18800	24810	23500	39850		
Total input power	kW	0,44	0,44	0,66	0,66	0,88	1,32	1,1	1,76		
Total nominal current	A	1,94	1,94	2,91	2,91	3,88	5,82	4,85	7,76		
Diameter	mm	500	500	500	500	500	500	500	500		
Sound pressure level <sup>(2)</sup>	dB(A)	40	40	41	41	42	44	43	45		
Sound power level <sup>(3)</sup>	dB(A)	71	71	72	72	74	76	75	77		
<b>Dimension <sup>(4)</sup></b>											
Length - horizontal air flow	mm	2203	2203	3203	3203	4373	2705	5373	4393		
Depth - horizontal air flow	mm	570	570	570	570	705	600	705	2110		
Height - horizontal air flow	mm	830	830	830	830	1110	1645	1100	990		
Length - vertical air flow	mm	2219	2219	3219	3219	4393	2705	5393	4393		
Depth - vertical air flow	mm	895	895	895	895	1110	1717	1110	2110		
Height - vertical air flow	mm	1099	1099	1099	1099	1230	1070	1230	1230		
Weight	kg	104	120	146	170	312	250	370	490		
Battery capacity	dm <sup>3</sup>	4,0	7,2	5,6	11,1	26,6	28,2	32,4	37,6		
Input/output connections	mm/mm	28/28	28/28	28/28	42/35	54/42	54/42	54/42	54/42		
Power supply	V/ph/Hz						230/1/50+T				

(1) Performances are referred to the following conditions: Ambient temperature 35°C, Condensing temperature 50°C.

(2) Sound pressure level measured at 10 mt from the unit in free field conditions according to ISO 3744.

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