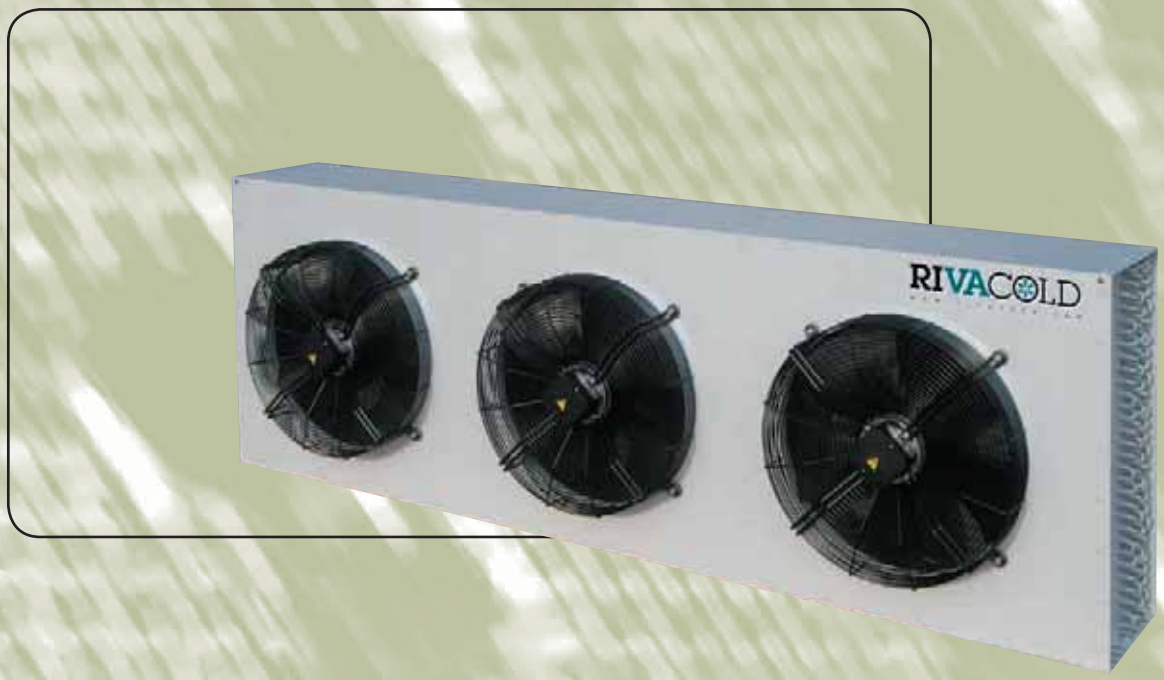
CONDENSATORI AD ARIA

Air cooled condenser

400_450_500_630



RIVACOLD

Indice RRS

400_450_500_630 Ø

Index RRS

Condensatori ad aria RRS

RRS Air cooled condenser

Caratteristiche generali

I condensatori della serie RRS sono stati studiati per soddisfare numerose applicazioni nei settori della refrigerazione e del condizionamento.
ideati per l'esterno, la versatilità della gamma permete l'installazione dello stesso modello sia con flusso aria orizzontale (standard) che con flusso d'aria verticale, con l'utilizzo delle gambe di sostegno (optional)
Gli scambiatori ad elevata efficienza che equipaggiano l'intera serie sono realizzati con alette in alluminio dal profilo "PIRAMIDALE" e tubi di rame con rigatura interna.
Le batterie e la carenatura sono verniciate di serie a polvere eposidica (RAL7035)
Gli RRS si dividono in 4 diverse gamme a seconda del diametro dei motoventilatori:
400 mm (resa nominale a DT 15 da 8 kW a 28 kW),
450 mm (resa nominale a DT 15 da 12,6 kW a 46,9 kW),
500 mm (resa nominale a DT 15 da 16,3 kW a 70,5 kW),
630 mm (resa nominale a DT 15 da 22,1 kW a 151 kW).
I motoventilatori assiali a rotore esterno impiegati hanno le seguenti caratteristiche:
- diametro 400: da 1,2,3, motoventilatori (4,6 poli)
- diametro 450: da 1,2,3 motoventilatori (4,6 poli)
- diametro 500: da 1,2,3 motoventilatori (4,6 poli)
- diametro 630: da 1,2,3 motoventilatori (4,6,8 poli)

I motoventilatori in uso ad alta efficienza combinano eccellenti prestazioni di bassa rumorosità e bassi consumi energetici.
I motoventilatori utilizzati sono conformi alla direttiva ErP (Regolamento EU 327/2011)

General feature

The condensers from the RRS range have been designed to satisfy several applications in the refrigeration and air conditioning sectors.
Manufactured for being installed outside, RRS can have either horizontal air flow (standard feature) or vertical air flow, by coupling the supporting legs assemblies (optional items).
The high-efficiency heat exchangers fitted in the whole range are manufactured with aluminium fins with "PIRAMID" profile and internally grooved copper tubes.
Both coils and casings are vernished with epoxy powder (RAL7035)
RRS can be divided in 3 different ranges according to their fan-motors diameter:
400 mm (rated capacity at DT 15 from 8 kW to 28 kW),
450 mm (rated capacity at DT 15 from 12,6 kW to 46,9 kW),
500 mm (rated capacity at DT 15 from 16,3 kW to 70,5 kW),
630 mm (rated capacity at DT 15 from 22,1 kW to 151 kW),
the axial external rotor fan-motors in use have the following feature.
- 400 diameter: with 1,2,3 fan-motors (4,6 poles)
- 450 diameter: with 1,2,3 fan-motors (4,6 poles)
- 500 diameter: with 1,2,3 fan-motors (4,6 poles)
- 630 diameter: with 1,2,3 fan-motors (4,6,8 poles).
the high efficient fan-motors in use combine excellent performance of low noise levels and low energy consumption.
The fan-motors in use comply with ErP directive (Regulation EU 327/2011)

Optional - *Optional items*

- Kit ganbe di sostegno (versione flusso d'aria verticale)
  Legs assemblies for vertical air flow version
- Passo alette diverso / Different fin spacing
- Multi collettori (tutti i modelli sono realizzati per essere alimentati da più impianti frigoriferi utilizzando un unico condensatore)
  Multi-sectioning (all models can be manufactured for being connected to more than one refrigerating system to operate with a single condenser)
- Motoventilatori elettronici / *EC fan motors*
- Voltaggio diverso / *Different voltage*

Lato collegamento frigorifero
pipe connection side

Caratteristiche costruttive

Manufacturing features

Batteria
La batteria è costruita con alette dal profilo piramidale in alluminio, tubo in rame da 5/16" con rigatura interna, geometria 25 x 21,65 e passo alette 2,1 mm.
La struttura delle spalle della batteria è in lamiera elettrozincata.
Batteria e struttura delle spalle sono verniciate di serie in polvere epossidica (grigio RAL 7035).
Tutte le batterie vengono sottoposte a collaudo con azoto ad una pressione di 30 bar.

Coil
The coil is made with aluminium fins with pyramid profile, 5/16" internally grooved copper tube, 25 x 21,65 geometry and 2,1 mm fin spacing.
The coils and frame are made of zinc plated steel.
The coils and frame are varnished with epoxy powder (grey RAL 7035).
All coils are fully leak tested by nitrogen at a pressure of 30 bar.

Motoventilatore Ø400
- rotore esterno
- alimentazione 230/1/50-60Hz
- grado di protezione IP 54
- grado di protezione IP 44 per motoventilatori a 4 e 6 poli
- classe di isolamento F
- classe di isolamento B per motoventilatori a 4 poli
- protezione termica
- temperatura di funzionamento da -40°C a +65°C
  da -25°C a +40°C per motoventilatori a 4 poli
  da -40°C a +80°C per motoventilatori a 6 poli 60Hz
- griglia in acciaio trattato con vernice epossidica
- i motoventilatori vengono forniti non cablati

Fan motor Ø400
- *external rotor*
- *230/1/50-60Hz voltage*
- *IP 54 protection rate*
- *IP 44 protection rate for fan motors at 4 and 6 poles*
- *F insulation class*
- *B insulation class for fan motora at 4 poles*
- *thermal protection*
- *operating temperature from -40°C to +65°C*
  from -25°C to +40°C for fan motors at 4 poles
  from -40°C to +80°C for fan motors at 6 poles 60Hz
- *metal fan-guard varnished by epoxy powder*
- *fan-motors are supplied without wiring*

Motoventilatore Ø450
- rotore esterno
- alimentazione 230/1/50-60Hz
- grado di protezione IP 54
- classe di isolamento F
- protezione termica
- temperatura di funzionamento da -40°C a +65°C
- griglia in acciaio trattato con vernice epossidica
- i motoventilatori vengono forniti non cablati

Fan motor Ø450
- *external rotor*
- *230/1/50-60Hz voltage*
- *IP 54 protection rate*
- *F insulation class*
- *thermal protection*
- *operating temperature from -40°C to +65°C*
- *metal fan-guard varnished by epoxy powder*
- *fan-motors are supplied without wiring*

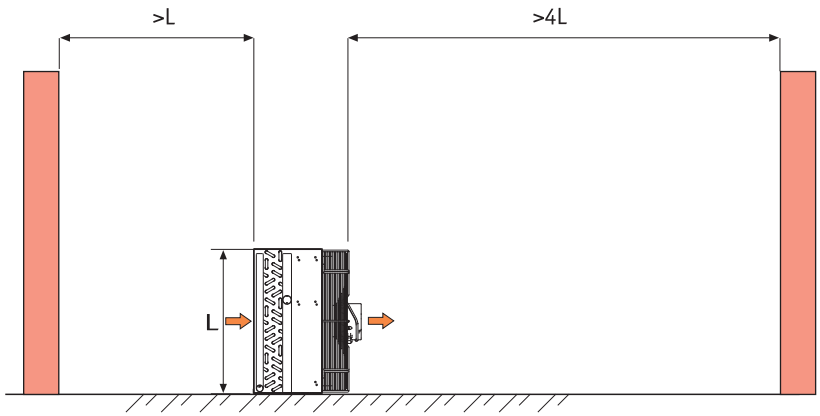
Motoventilatore Ø500_630
- rotore esterno
- doppia velocità (collegamento delta e star) alimentazione 400/3/50Hz (400/3/60Hz e 480/3/60Hz dove previsto)
- grado di protezione IP 54
- classe di isolamento F
- protezione termica
- temperatura di funzionamento da -40°C a +65°C
- griglia in acciaio trattato con vernice epossidica
- i motoventilatori vengono forniti non cablati

Fan motor Ø500_630
- *external rotor*
- *double speed (delta and star connection) 400/3/50Hz voltage (400/3/60Hz and 480/3/60Hz when provided)*
- *IP 54 protection rate*
- *F insulation class*
- *thermal protection*
- *operating temperature from -40°C to +65°C*
- *metal fan-guard varnished by epoxy powder*
- *fan-motors are supplied without wiring*

Carenatura
la carenatura è realizzata in lamiera elettrozincata con verniciatura a polvere epossidica grigio RAL 7035.
All'interno della struttura, ogni singola ventola è separata singolarmente con divisori che ne impediscono il riflusso dell'aria

Casework
The casework is made of galvanized steel sheet coated by epoxy powder RAL 7035 grey finish.
Within the coil casework each fan chamber is separated by internal plates to prevent windmilling of off-cycle fans.

Horizontal installation



Vertical installation

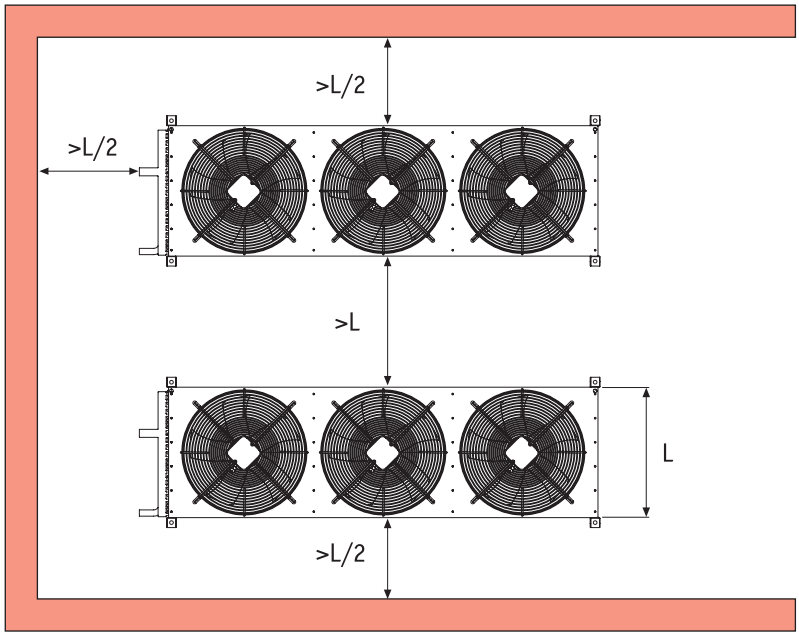


Tabella / *Table*

(A)	RRS0140044
	RRS0140046
	RRS0140054
	RRS0140056
(B)	RRS0240044
	RRS0240046
	RRS0240054
	RRS0240056
(C)	RRS0340044
	RRS0340046
	RRS0340054
	RRS0340056

(A)

(B)

(C)

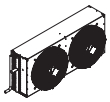
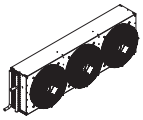
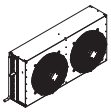
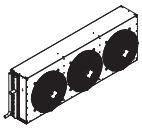
Tabella / *Table*

(A)	RRS0145044 RRS0145046 RRS0145054 RRS0145056
(B)	RRS0245044 RRS0245046 RRS0245054 RRS0245056
(C)	RRS0345044 RRS0345046 RRS0345054 RRS0345056

(A)

(B)

(C)

	Modello *Model*	Numero ventilatori *Fan motors number*	RPM	LpA 10m dB(A)	Superficie *Surface* m²	V.Circuito *V.circuit* dm³	Portata d'aria *Air flow* m³/h	Potenza frigorifera *Refrigerating output* kW ΔT 15	ΔT 10	Assorbimento motori (*) *Motor power consumption* W	A	Peso netto *Net weight* kg
	**RRS0140044**	1	1430	46,0	22,4	1,8	3179,0	10,1	6,7	160	0,73	22,0
	RRS0140046	1	870	36,0			2217,0	8,0	5,3	120	0,53	21,4
	RRS0140054	1	1430	46,0	28,0	2,1	3039,5	10,8	7,2	160	0,73	23,5
	RRS0140056	1	870	36,0			2062,5	8,2	5,5	120	0,53	22,9
	**RRS0240044**	2	1430	49,0	37,3	3,0	5892,5	18,1	12,1	320	1,46	36,6
	RRS0240046	2	870	39,0			4022,5	14,1	9,4	240	1,06	35,4
	RRS0240054	2	1430	49,0	46,6	3,6	5520,0	19,4	12,9	320	1,46	39,5
	RRS0240056	2	870	39,0			3714,0	14,6	9,7	240	1,06	38,3
	**RRS0340044**	3	1430	50,5	52,2	4,1	8559,5	25,9	17,3	480	2,19	51,3
	RRS0340046	3	870	40,5			5725,5	20,0	13,3	360	1,59	49,5
	RRS0340054	3	1430	50,5	65,3	5,1	8000,5	28,0	18,7	480	2,19	55,3
	RRS0340056	3	870	40,5			5417,0	21,2	14,1	360	1,59	53,5
	**RRS0145044**	1	1310	38,0	33,2	2,7	5535,0	16,6	11,1	490	2,36	33,6
	RRS0145046	1	900	31,0			3590,0	12,6	8,4	190	0,86	31,0
	RRS0145054	1	1310	38,0	41,4	3,3	5151,5	17,9	11,9	490	2,36	36,3
	RRS0145056	1	900	31,0			3372,0	13,2	8,8	190	0,86	33,7
	**RRS0245044**	2	1310	41,0	56,8	4,5	10302,5	29,9	19,9	980	4,72	57,1
	RRS0245046	2	900	34,0			6744,0	22,9	15,3	380	1,72	51,9
	RRS0245054	2	1310	41,0	71,0	5,6	9535,0	32,3	21,5	980	4,72	61,5
	RRS0245056	2	900	34,0			6162,5	23,9	15,9	380	1,72	56,3
	**RRS0345044**	3	1310	42,5	80,5	6,3	14878,0	42,7	28,5	1470	7,08	81,7
	RRS0345046	3	900	35,5			9897,5	33,2	22,1	570	2,58	73,9
	RRS0345054	3	1310	42,5	101,0	7,8	14014,0	46,9	31,3	1470	7,08	88,2
	RRS0345056	3	900	35,5			9244,0	35,3	23,5	570	2,58	80,4

(*) Alimentazione elettrica: motoventilatori 230/1/50Hz
Power supply: fan motors 230/1/50Hz

Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS0140044 RRS0140046 RRS0140054 RRS0140056**	**RRS0240044 RRS0240046**	**RRS0240054 RRS0240056**	**RRS0340044 RRS0340046 RRS0340054 RRS0340056**
Horizontal installation	Dimensioni *Dimensions* (mm)	A	706	1128	1131	1551
		B	649	1069	1069	1489
		C	44,5	46,5	49,5	49,5
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	18	22	28	28
		ø uscita *ø outlet* (mm)	16	18	22	22

Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS0140044 RRS0140046 RRS0140054 RRS0140056**	**RRS0240044 RRS0240046**	**RRS0240054 RRS0240056**	**RRS0340044 RRS0340046 RRS0340054 RRS0340056**
Vertical installation	Dimensioni *Dimensions* (mm)	A	716	1138	1141	1561
		B	654	1074	1074	1494
		C	42	44	47	47
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	18	22	28	28
		ø uscita *ø outlet* (mm)	16	18	22	22

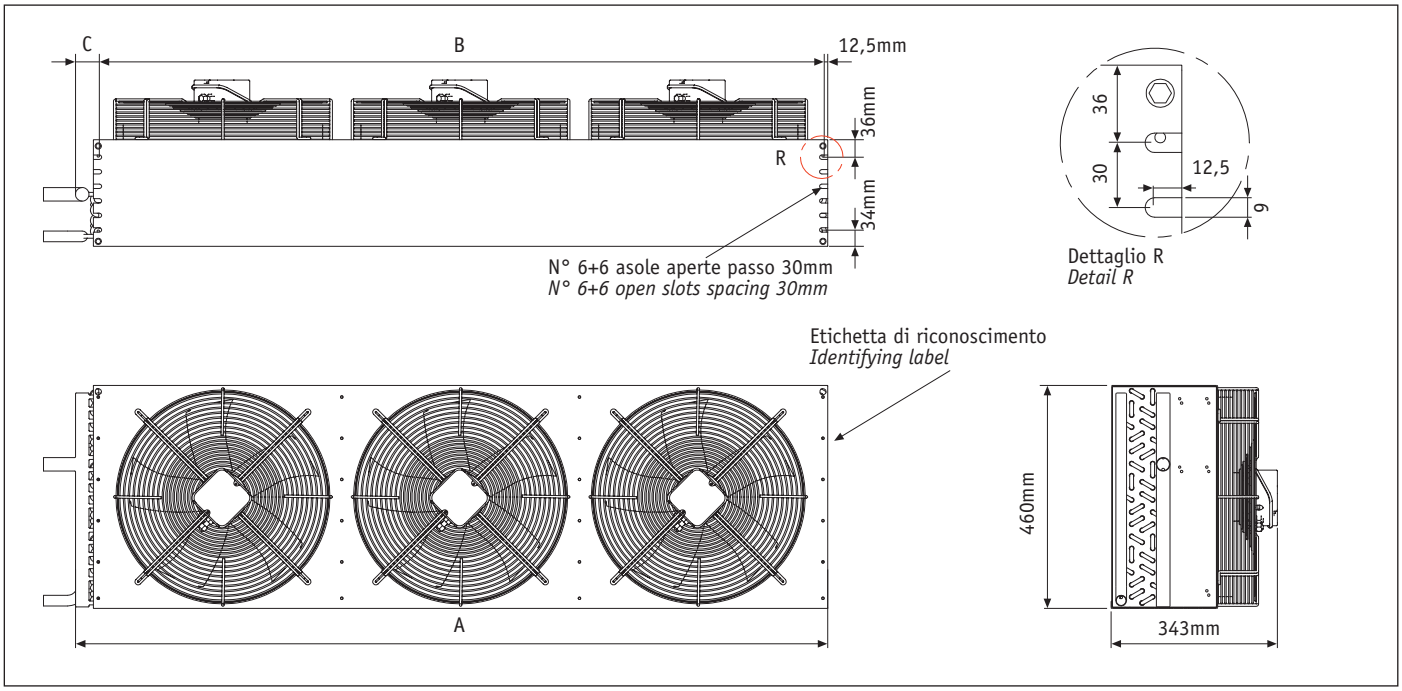
Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS0145044 RRS0145046 RRS0145054 RRS0145056**	**RRS0245044 RRS0245046 RRS0245054 RRS0245056**	**RRS0345044 RRS0345046**	**RRS0345054 RRS0345056**
Horizontal installation	Dimensioni *Dimensions* (mm)	A	786	1291	1815	1823,5
		B	719	1219	1719	1719
		C	46,5	51,5	60,5	69
		D	610	610	620	620
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	22	28	28	35
		ø uscita *ø outlet* (mm)	18	22	22	28

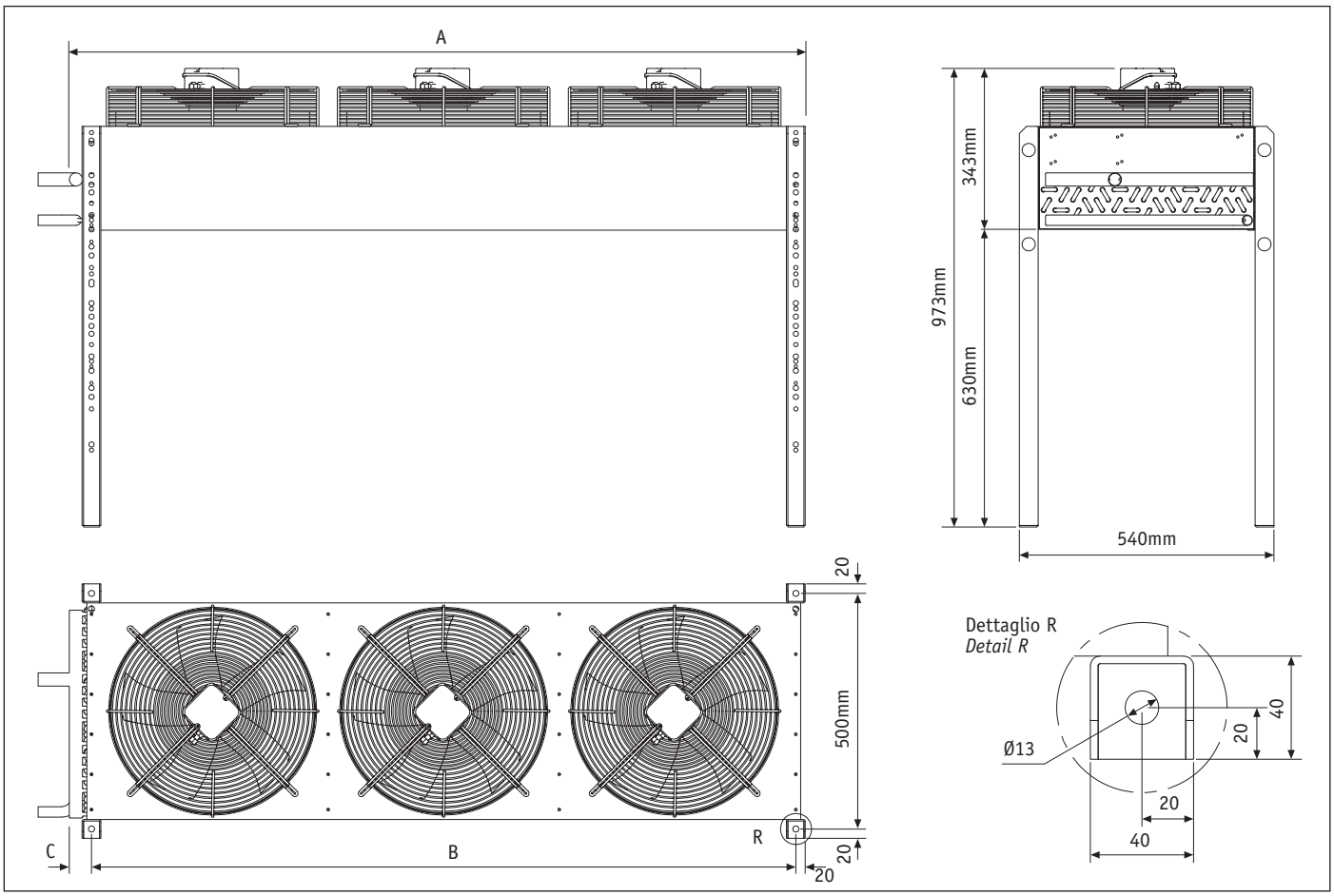
Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS0145044 RRS0145046 RRS0145054 RRS0145056**	**RRS0245044 RRS0245046 RRS0245054 RRS0245056**	**RRS0345044 RRS0345046**	**RRS0345054 RRS0345056**
Vertical installation	Dimensioni *Dimensions* (mm)	A	791	1296	1815	1823,5
		B	730	1230	1730	1730
		C	41	46	55	63,5
		E	690	690	700	700
		F	650	650	660	660
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	22	28	28	35
		ø uscita *ø outlet* (mm)	18	22	22	28

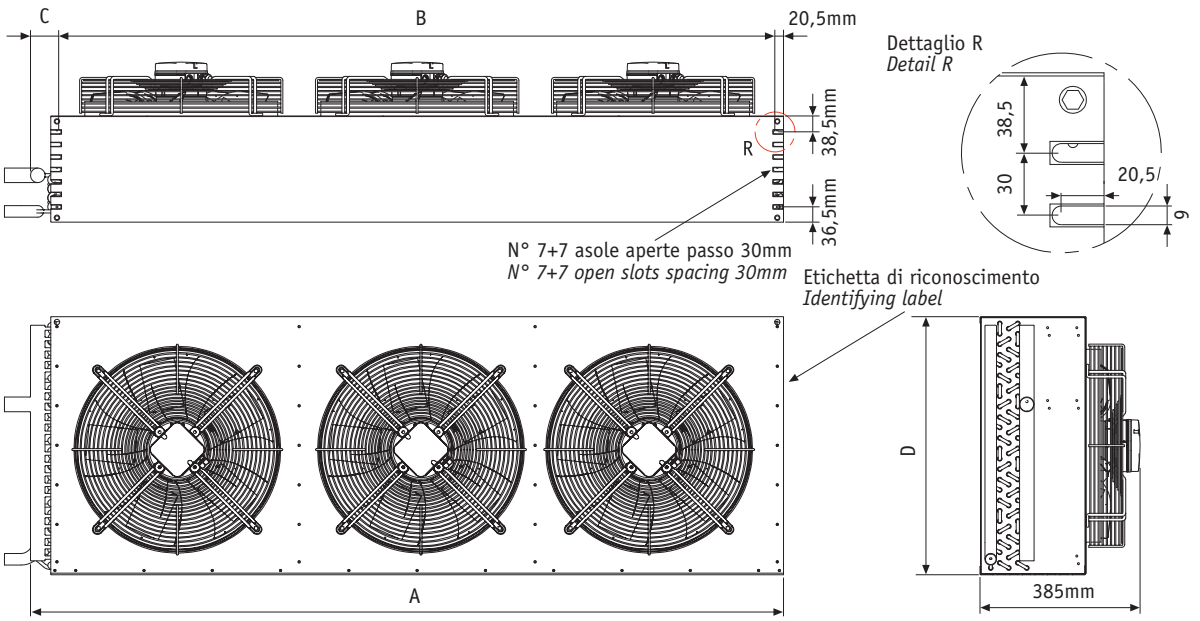
3 fans model - Horizontal installation



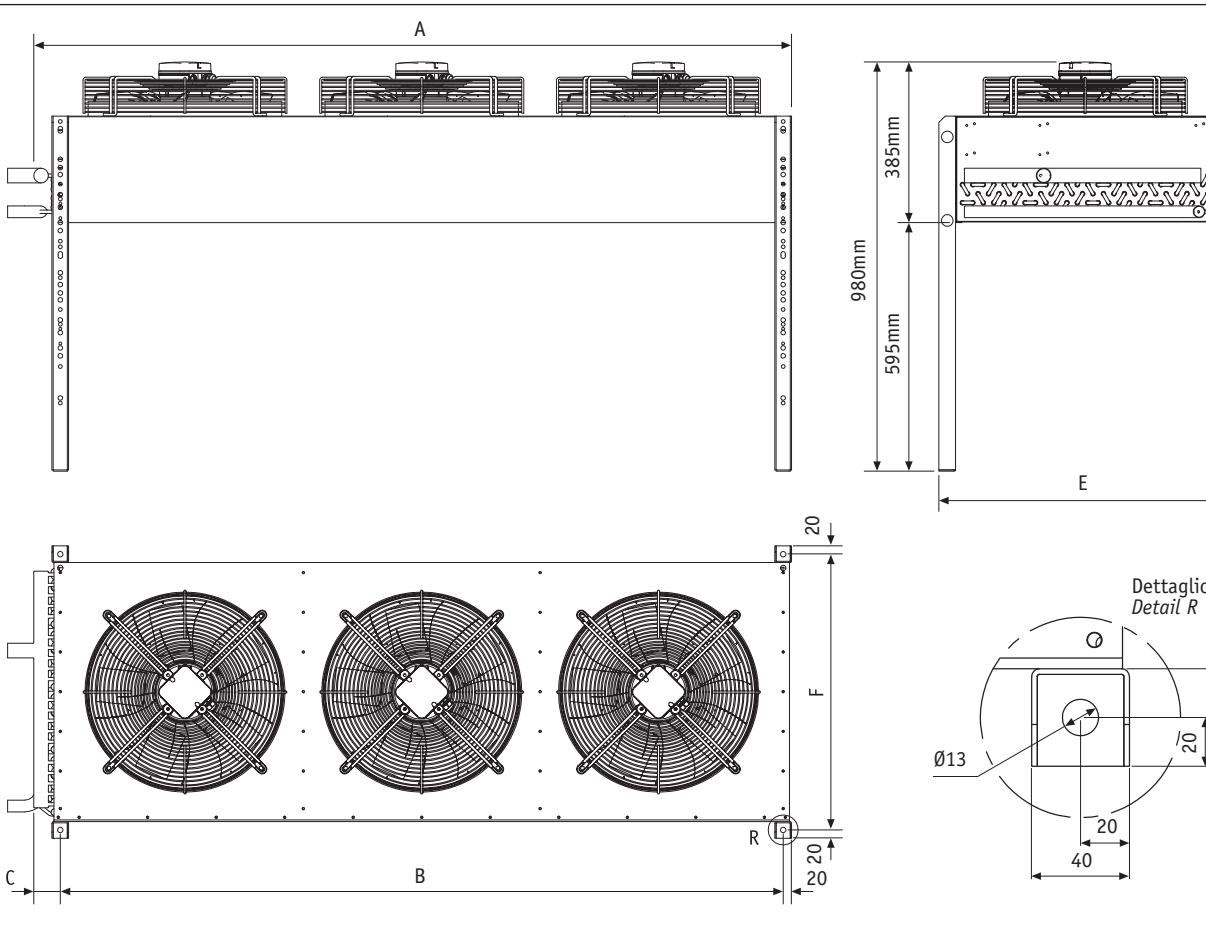
3 fans model - Vertical installation



3 fans model - Horizontal installation



3 fans model - Vertical installation



RRS 500 Ø

Tabella / *Table*

(A)	RRS015004V
	RRS015004S
	RRS015005V
	RRS015005S
(B)	RRS025004V
	RRS025004S
	RRS025005V
	RRS025005S
(C)	RRS035004V
	RRS035004S
	RRS035005V
	RRS035005S

(A)

(B)

(C)

Tabella / *Table*

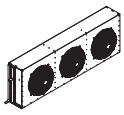
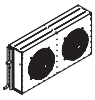
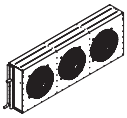
(A)	RRS016304V RRS016304S RRS016305V RRS016305S
(B)	RRS026304V RRS026304S RRS026305V RRS026305S
(C)	RRS036304V RRS036304S RRS036305V RRS036305S

(A)

(B)

(C)

Tecnical features

	Modello *Model*	Numero ventilatori *Fan motors number*	Tipo di collegamento *Wiring type*	RPM	LpA 10m dB(A)	Superficie *Surface* m²	V.Circuito *V.circuit* dm³	Portata d'aria *Air flow* m³/h	Potenza frigorifera *Refrigerating output* kW ΔT 15	ΔT 10	Assorbimento motori (*) *Motor power consumption* W	A	Peso netto *Net weight* kg
	**RRS015004V**	1	DELTA STAR	1350 1100	42,0 36,5	47,4	3,8	7486,0 6275,0	23,0 20,5	15,3 13,7	690 480	1,34 0,81	49,20
	RRS015004S	1	DELTA STAR	930 800	32,0 28,0			5017,5 4457,5	17,7 16,3	11,8 10,9	270 190	0,69 0,40	47,20
	RRS015005V	1	DELTA STAR	1350 1100	42,0 36,5	59,2	4,5	7125,0 5961,0	24,8 21,9	16,5 14,6	690 480	1,34 0,81	52,70
	RRS015005S	1	DELTA STAR	930 800	32,0 28,0			4785,0 4225,0	18,7 17,0	12,5 11,3	270 190	0,69 0,40	50,70
	**RRS025004V**	2	DELTA STAR	1350 1100	44,5 39,0	88,8	6,9	14731,5 12340,5	44,4 39,8	29,6 26,5	1380 960	2,68 1,62	88,30
	RRS025004S	2	DELTA STAR	930 800	34,5 30,5			9880,0 8760,0	34,3 31,6	22,9 21,1	540 380	1,38 0,80	84,30
	RRS025005V	2	DELTA STAR	1350 1100	44,5 39,0	111,0	8,7	14009,5 11712,5	48,6 43,0	32,4 28,7	1380 960	2,68 1,62	95,20
	RRS025005S	2	DELTA STAR	930 800	34,5 30,5			9415,0 8295,0	36,7 33,3	24,5 22,2	540 380	1,38 0,80	91,20
	**RRS035004V**	3	DELTA STAR	1350 1100	46,5 41,0	130,0	10,1	21736,0 18197,0	65,5 58,6	43,7 39,1	2070 1440	4,02 2,43	127,60
	RRS035004S	3	DELTA STAR	930 800	36,5 32,5			14820,0 12907,5	51,1 46,4	34,1 30,9	810 570	2,07 1,20	121,60
	RRS035005V	3	DELTA STAR	1350 1100	46,5 41,0	163,0	12,6	20653,0 17254,5	70,5 62,6	47,0 41,7	2070 1440	4,02 2,43	137,60
	RRS035005S	3	DELTA STAR	930 800	36,5 32,5			13890,0 12210,0	53,8 48,8	35,9 32,5	810 570	2,07 1,20	131,60
	**RRS016304V**	1	DELTA STAR	1320 1050	49,5 43,5	82,9	6,6	17086,5 13555,0	47,1 41,1	31,4 27,4	2630 1750	4,78 2,95	89,40
	RRS016304S	1	DELTA STAR	890 690	35,5 29,5			9605,0 7700,5	32,9 28,2	21,9 18,8	600 400	1,20 0,68	78,30
	RRS016304A	1	DELTA STAR	660 520	29,5 23,5			7012,0 5611,0	26,3 22,1	17,5 14,7	330 190	0,83 0,39	78,30
	RRS016305V	1	DELTA STAR	1320 1050	49,5 43,5	104,0	7,8	16292,0 12900,0	51,5 44,4	34,3 29,6	2630 1750	4,78 2,95	95,60
	RRS016305S	1	DELTA STAR	890 690	35,5 29,5			9184,0 7416,5	35,0 29,8	23,3 19,9	600 400	1,20 0,68	84,50
	RRS016305A	1	DELTA STAR	660 520	29,5 23,5			6694,5 5409,5	27,5 23,1	18,3 15,4	330 190	0,83 0,39	84,50
	**RRS026304V**	2	DELTA STAR	1320 1050	52,5 46,5	166,0	12,9	34173,5 27110,0	94,5 82,3	63,0 54,9	5260 3500	9,56 5,90	170,50
	RRS026304S	2	DELTA STAR	890 690	38,5 32,5			19210,5 15401,0	65,9 56,4	43,9 37,6	1200 800	2,40 1,36	148,30
	RRS026304A	2	DELTA STAR	660 520	32,5 26,5			14024,5 11222,0	52,7 44,5	35,1 29,7	660 380	1,66 0,78	148,30
	RRS026305V	2	DELTA STAR	1320 1050	52,5 46,5	207,0	15,9	32584,5 25800,5	105,0 89,8	70,0 59,9	5260 3500	9,56 5,90	185,90
	RRS026305S	2	DELTA STAR	890 690	38,5 32,5			18368,0 14833,0	70,6 60,0	47,1 40,0	1200 800	2,40 1,36	163,70
	RRS026305A	2	DELTA STAR	660 520	32,5 26,5			13389,0 10819,5	55,3 46,5	36,9 31,0	660 380	1,66 0,78	163,70
	**RRS036304V**	3	DELTA STAR	1320 1050	54,0 48,0	236,0	18,2	50465,5 40010,0	135,0 119,0	90,0 79,3	7890 5250	14,34 8,85	241,70
	RRS036304S	3	DELTA STAR	890 690	40,0 34,0			28394,0 23101,5	95,8 83,3	63,9 55,5	1800 1200	3,60 2,04	208,40
	RRS036304A	3	DELTA STAR	660 520	34,0 28,0			20719,0 16833,0	77,1 66,1	51,4 44,1	990 570	2,49 1,17	208,40
	RRS036305V	3	DELTA STAR	1320 1050	54,0 48,0	295,0	22,6	48082,0 38046,0	151,0 130,0	100,7 86,7	7890 5250	14,34 8,85	262,50
	RRS036305S	3	DELTA STAR	890 690	40,0 34,0			27130,5 21823,5	103,0 87,7	68,7 58,5	1800 1200	3,60 2,04	229,20
	RRS036305A	3	DELTA STAR	660 520	34,0 28,0			20083,5 15927,0	82,2 68,2	54,8 45,5	990 570	2,49 1,17	229,20

(*) Alimentazione elettrica: motoventilatori 400/3/50Hz
Power supply: fan motors 400/3/50Hz

Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS015004V RRS015004S RRS015005V RRS015005S**	**RRS025004V RRS025004S RRS025005V RRS025005S**	**RRS035004V RRS035004S RRS035005V RRS035005S**
Horizontal installation	Dimensioni *Dimensions* (mm)	A	924	1624	2324
		B	844	1544	2244
		C	57	57	57
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	28	35	35
		ø uscita *ø outlet* (mm)	22	28	28

Serie **RRS** / ***RRS*** *Range*

Modello *Model*		**RRS**	**RRS015004V RRS015004S RRS015005V RRS015005S**	**RRS025004V RRS025004S RRS025005V RRS025005S**	**RRS035004V RRS035004S RRS035005V RRS035005S**
Vertical installation	Dimensioni *Dimensions* (mm)	A	924	1624	2324
		B	850	1550	2250
		C	54	54	54
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	28	35	35
		ø uscita *ø outlet* (mm)	22	28	28

Serie **RRS** / ***RRS*** *Range*

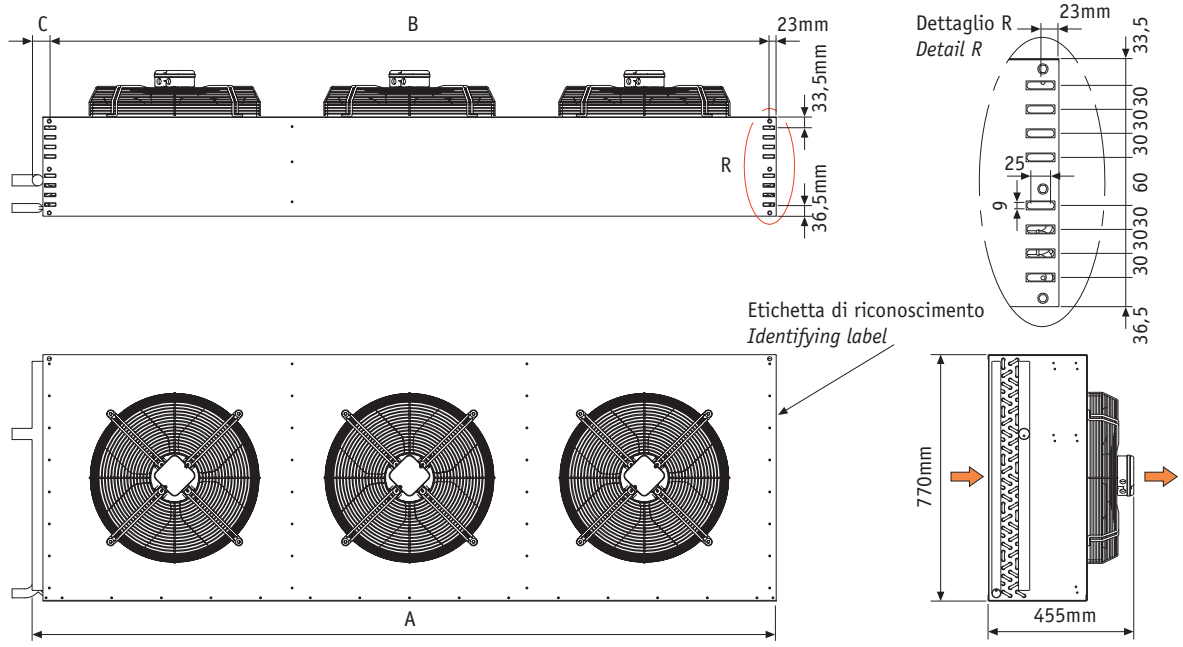
Modello *Model*		**RRS**	**RRS016304V RRS016304S RRS016304A RRS016305V RRS016305S RRS016305A**	**RRS026304V RRS026304S RRS026304A**	**RRS026305V RRS026305S RRS026305A**	**RRS036304V RRS036304S RRS036304A**	**RRS036305V RRS036305S RRS036305A**
Horizontal installation	Dimensioni *Dimensions* (mm)	A	1124	2137	2153	2987	3003
		B	1050	2050	2050	2900	2900
		C	54	67	83	67	83
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	35	42	54	42	54
		ø uscita *ø outlet* (mm)	28	35	42	35	42

Serie **RRS** / ***RRS*** *Range*

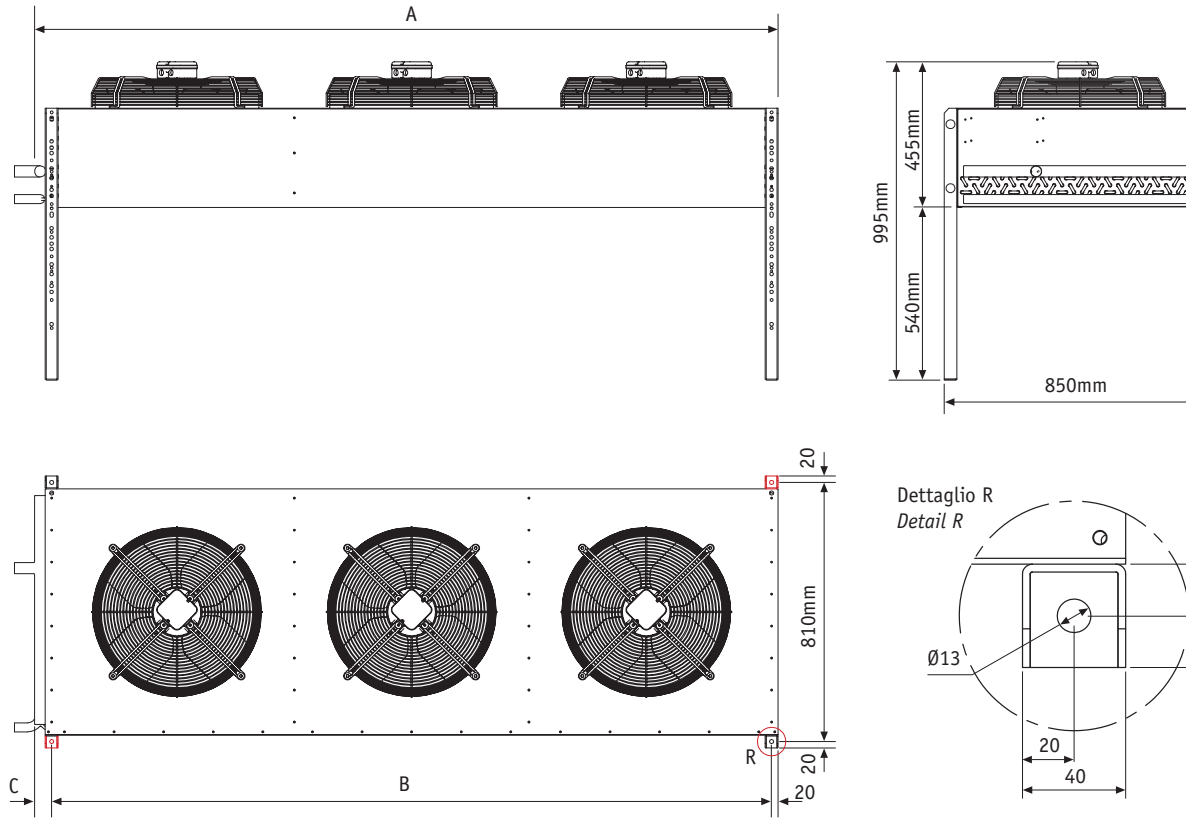
Modello *Model*		**RRS**	**RRS016304V RRS016304S RRS016304A RRS016305V RRS016305S RRS016305A**	**RRS026304V RRS026304S RRS026304A**	**RRS026305V RRS026305S RRS026305A**	**RRS036304V RRS036304S RRS036304A**	**RRS036305V RRS036305S RRS036305A**
Vertical installation	Dimensioni *Dimensions* (mm)	A	1124	2137	2153	2987	3003
		B	1050	2050	2050	2900	2900
		C	54	67	83	67	83
	Attacchi *Connections*	ø ingresso *ø inlet* (mm)	35	42	54	42	54
		ø uscita *ø outlet* (mm)	28	35	42	35	42

Manufacturing features

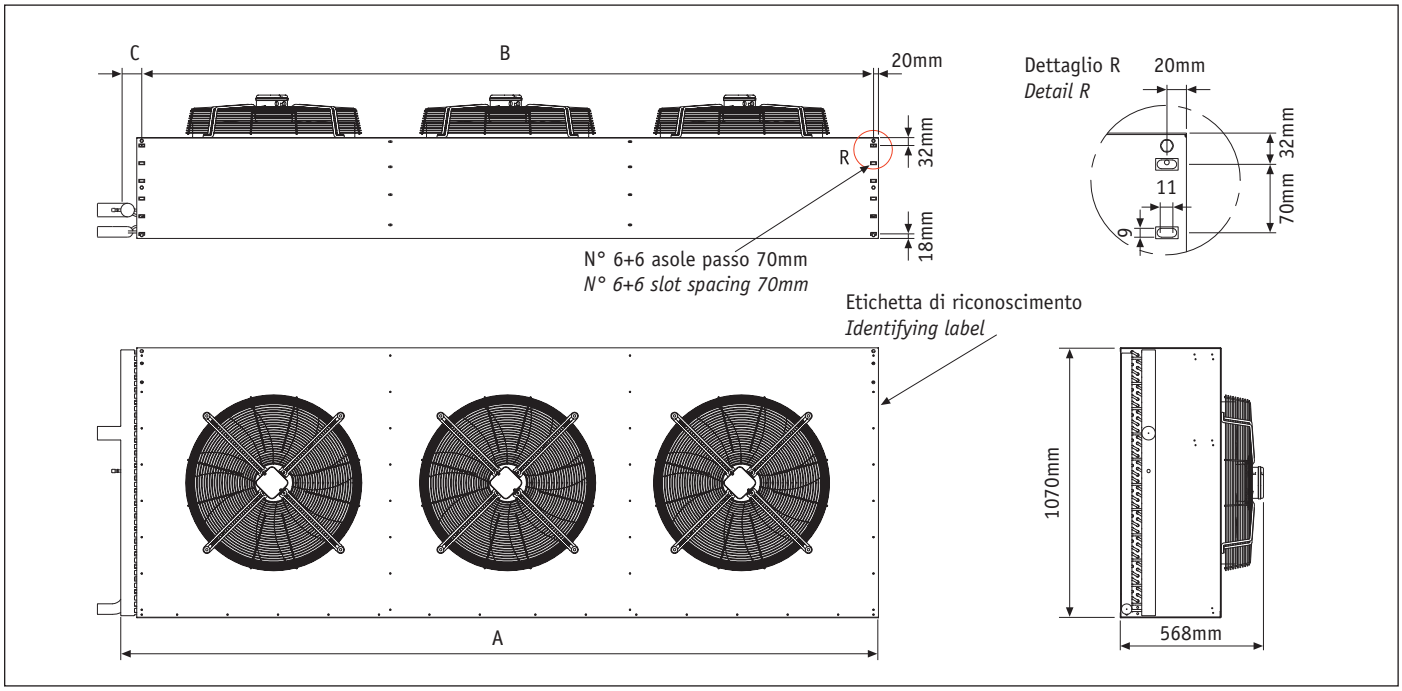
3 fans model - Horizontal installation



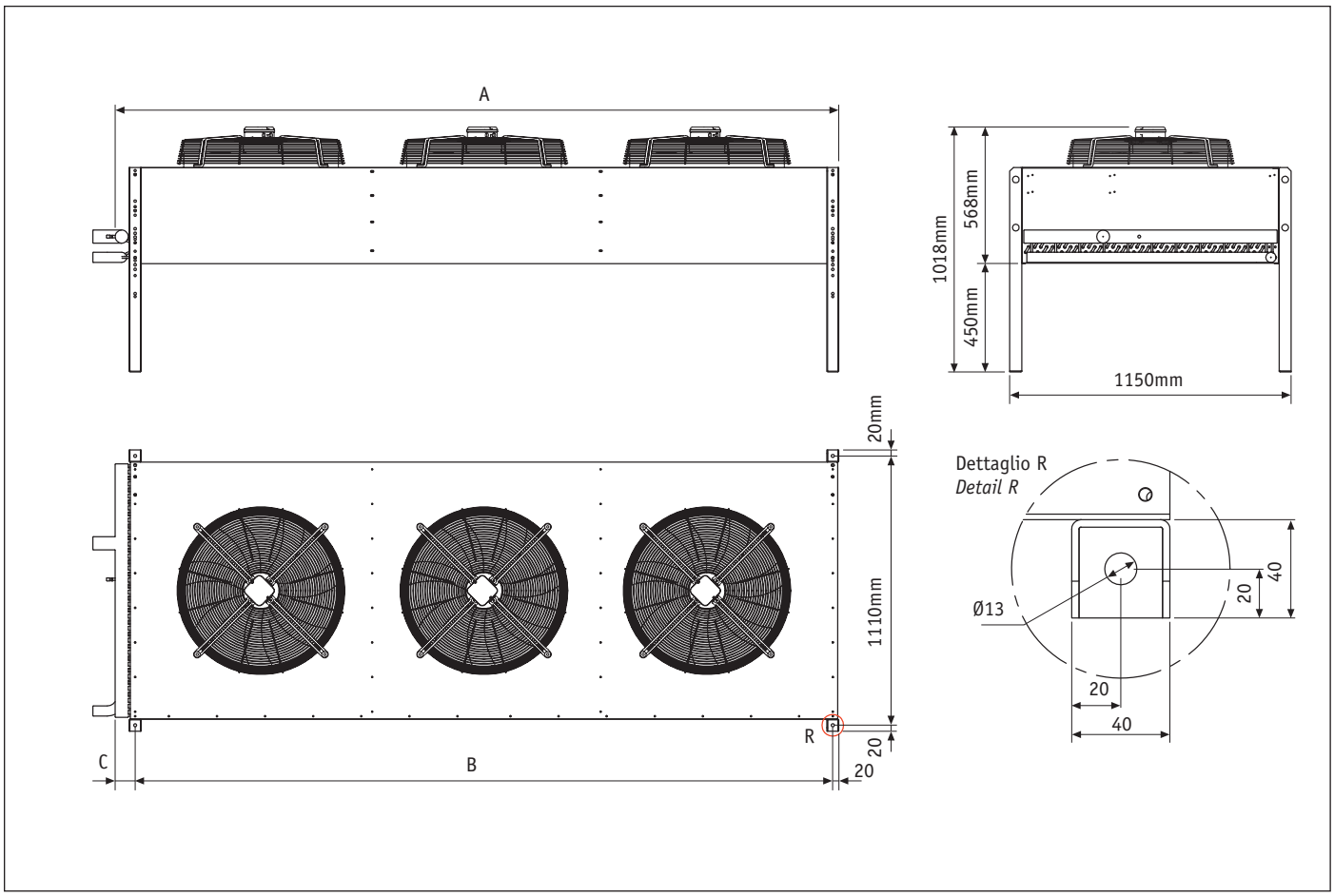
3 fans model - Vertical installation



3 fans model - Horizontal installation



3 fans model - Vertical installation



Scelta condensatore

Model choice

Scelta condensatore

Per una corretta scelta del condensatore, utilizzare la colonnna "potenza frigorifera" riportata nelle tabelle relative alle caratteristiche tecniche (diametro Ø400 - 450mm pag 8; diametro Ø500 - 630 pag 14).
Qui vengono riportate le rese frigorifere calcolate per una temperatura ambiente pari a 32°C e per 2 differenti valori di ΔT (differenza tra la temperatura dell'aria in entrata e la temperatura di condensazione del refrigerante): ΔT 10 e ΔT15.
I calcoli sono stati effettuati utilizzando come refrigerante il gas R404A. Impiegando altri refrigeranti, la resa va moltiplicata per il fattore corretivo di seguto riportato: R134a=0,93; R407A=0,90; R407C=0,90; R507=1.
I parametri per la scelta del condensatore sono: il valore ΔT e il carico termico.

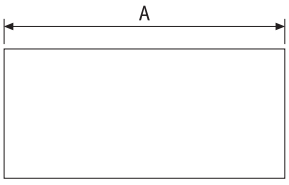
Condenser selection

For the correct condenser selection, use the "refrigerating output" column on the technical features table (Ø400 - 450mm diameter at page 8; Ø500 - 630mm diameter at page 14).
In these tables are quoted refrigerating output calculated for an ambient temperature of 32°C at two different ΔT (difference between the inlet air temperature and the refrigerating gas condensing temperature): ΔT 10 and ΔT 15.
These calculations have been made using R404A as refrigerating gas. In case of a different gas in use the given capacity is to be multiplied by the relevant corrective factor as follows: R134a=0,91; R407A=0,90; R407C=0,90; R507=1.
The parameters valid for the condenser selection are: the ΔT value and the head load.

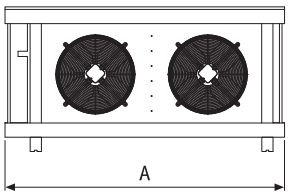
Dimensioni imballi

Packages dimensions

Codice *Code*	**Dimensione imballo condensatore** *Condenser package dimensions*				
	A mm	**B** mm	**H** mm	**Peso** *Weight kg*	**Disegno** *Drawing*
RRS0140...	910	465	525	8	1
RRS0240...	1330	465	525	10	1
RRS0340...	1750	465	525	13	1
RRS0145...	980	515	685	11	1
RRS0245...	1480	515	685	13	1
RRS0345...	1990	515	685	18	1
RRS0150...	1100	570	835	13	1
RRS0250...	1865	710	965	42	2
RRS0350...	2565	710	965	71	2
RRS0163...	1385	835	1265	44	2
RRS0263...	2415	835	1265	63	2
RRS0363...	3265	835	1265	76	2

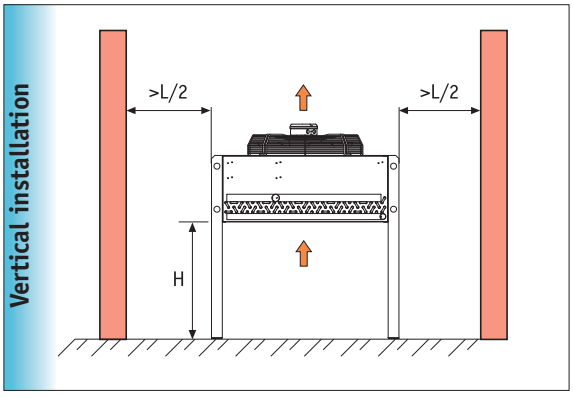


Disegno 1
Drawing
Imballo cartone e legno
Package cardboard and Wood



Disegno 2
Drawing
Gabbia di legno
Wooden crate

	Riferimento gambe di supporto *Support legs reference*			
	Codice *Code*	**Codice** *Code*	**h** mm	**Peso** *Weight kg*
Vertical installation	RRS0_40...	RRS0140KV	630	8,7
	RRS0_45...	RRS0140KV	595	8,7
	RRS0_50...	RRS0140KV	540	8,7
	RRS0_63...	RRS0163KV	450	8,9



Calcoli rumorosità
Il livello di presssione sonora Lp a 10 metri di distanza dalla sorgente sonora, indicato a catalogo, è calcolato partendo dal livello di potenza sonora tramite l'utilizzo della seguente formula

Lp = Lw - 10 x Ig [Sd/So]

Dove
Lp: Livello di pressione sonora medio dell'apparecchio su una superfice parallelepipeda
Lw: Livello di potenza sonora dell'apparecchio
So: Superfice di riferimento pari a 1 m^2
Sd: Superfice del parallelepipedo alla distanza di 10 m

Noise levels calculation
The value printed in the present catalogue relevant to the sound pressure level Lp at a 10 m distance from the sound source has been calculated starting from the Lw value, sound power level by using the following calculation formula.

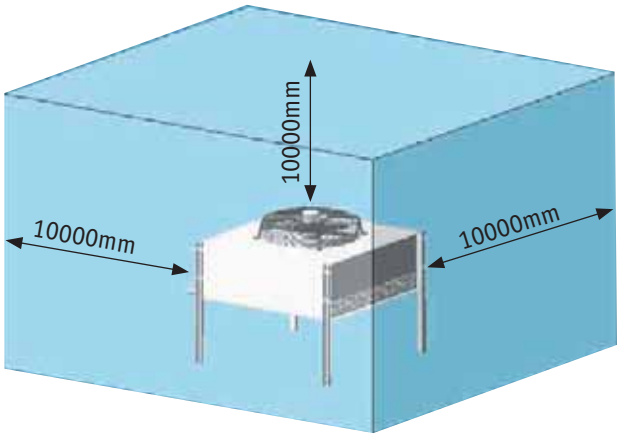
Lp = Lw - 10 x Ig [Sd/So]

When
Lp: Mean sound pressure level of the unit on a parallelepiped surface
Lw: Power sound level of the unit
So: Reference surface taken into account 1 m^2
Sd: Parallelepiped surface at a 10 m distance

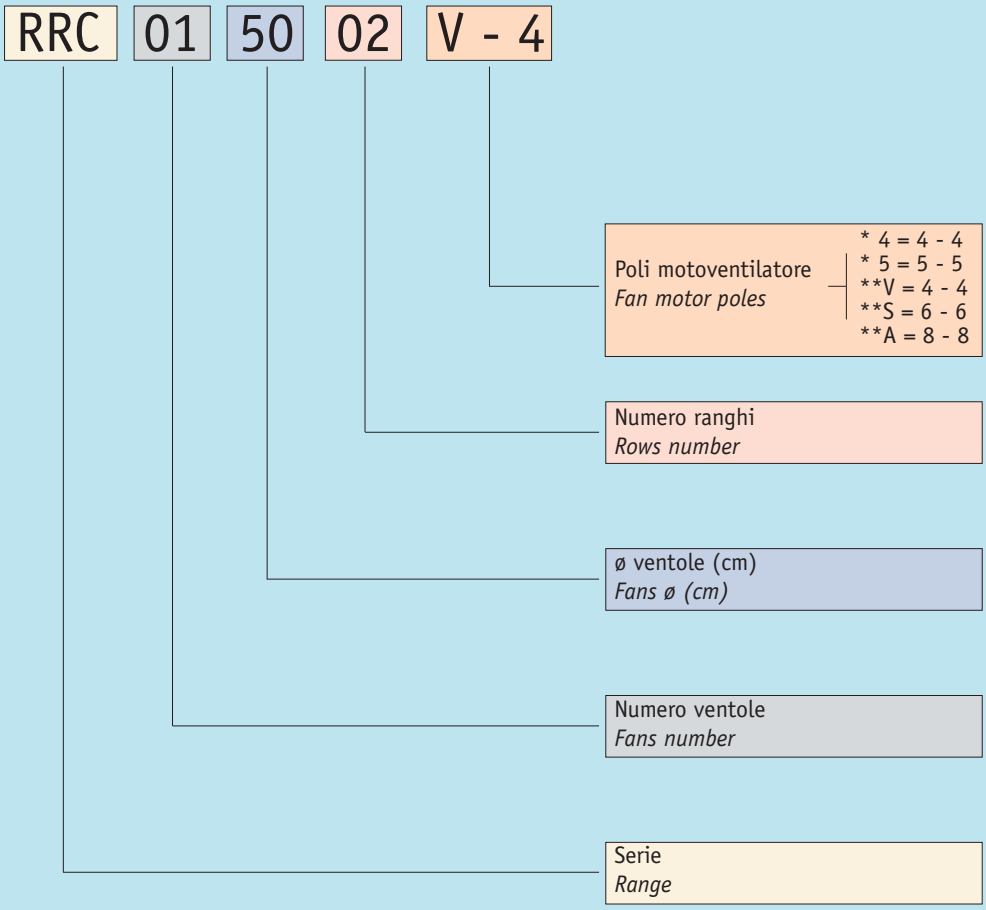
	distanza *distance*	1 m	2 m	3 m	4 m	5 m	10 m	15 m	20 m	30 m	40 m	50 m
n. Ventole x diametro *no. of fan motors x diameter*	1 x ø400mm	+18,0	+12	+9	+7	+6	0	-3	-6	-9	-12	-14
	2 x ø400mm 1 x ø450mm	+17,5										
	2 x ø450mm 3 x ø450mm 1 x ø500mm	+17,0										
	2 x ø500mm 3 x ø400mm 1 x ø630mm	+16,5										
	3 x ø500mm 2 x ø630mm	+16,0										
	3 x ø630mm	+15,0										

Il livello di pressione sonora Lp indicato su questo catalogo rappresenta il valore medio su di una superfice parallelepipeda costruita attorno all'apparecchio stesso, in campo libero con una superficie riflettente.
(secondo EN 13487)

The pressure sound level considered in the present catalogue represent the mean value on a parallelepipeded surface surrounding the units at 10m distance from any side of the unit it self on a free field with a reflecting surface.
(in compliance with EN 13487)



LETTURA CODICE / *MODEL DESIGNATION*



* Motoventilatore monofase *singolphase fan motor*
** Motoventilatore trifase *threephase fan motor*

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