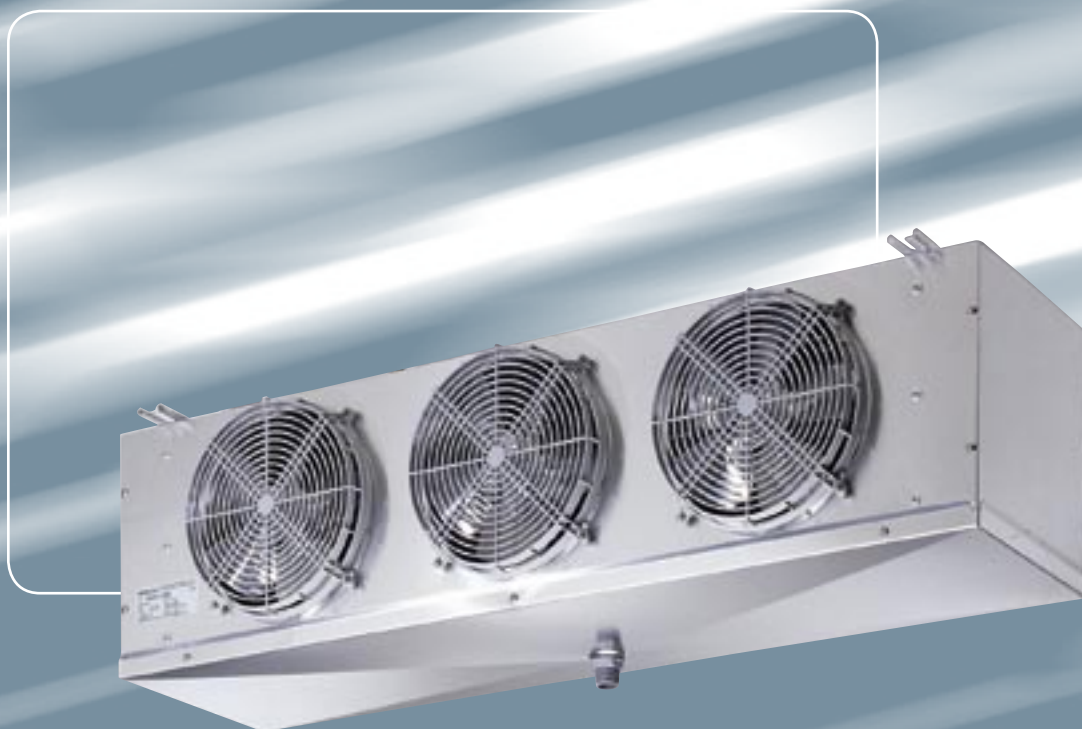


AEROEVAPORATORI CUBICI A SOFFITTO  
*Ceiling cubic unit coolers*



**RIVACOLD**

**Tabella / Table**

(A)	RC125 - 16 RC125 - 16ED
(B)	RC225 - 25 RC225 - 25ED RC225 - 30 RC225 - 30ED
(C)	RC325 - 33 RC325 - 33ED RC325 - 45 RC325 - 45ED
(D)	RC425 - 61 RC425 - 61ED



(A)



(B)



(C)



(D)

## Aeroevaporatori cubici a soffitto RC

### RC Ceiling cubic unit coolers

#### Caratteristiche generali

Gli aeroevaporatori della serie RC sono stati ideati per essere installati in celle frigorifere per la conservazione di prodotti freschi e congelati.

La forma estremamente compatta, permette l'installazione anche in celle di dimensioni ridotte.

La serie ED, fornita di resistenze di sbrinamento già montate, è adatta per essere utilizzata alle basse temperature.

Il funzionamento in modalità aspirante del motoventilatore, evita la formazione di condensa sulla ventola.

#### General features

RC range unit coolers have been designed to be installed inside cold rooms suited for fresh and frozen goods storage.

Their shape, being extremely compact, allows the installation also in cold rooms having very small dimensions.

The ED version is fitted with defrosting heaters and is suitable for being used at low temperature applications.

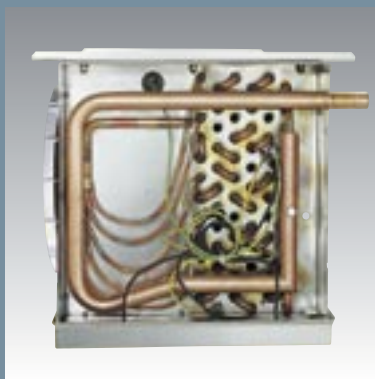
The fan motors operate in the suction mode and prevent the condensate forming on the fan.

#### Optional - *Optional items*

- Batteria verniciata  
*Varnished coil*
- Resistenza per il tubo di scarico con alimentazione elettrica 220V/1/50Hz (per alimentazioni differenti consultare il nostro ufficio tecnico).  
*Drainage pipe heater of 220V/1/50Hz voltages (for different voltages please contact our technical dept).*



Lato collegamento elettrico  
*Electrical connection side.*



Lato collegamento frigorifero  
*Pipe connection side.*

## Caratteristiche costruttive



### Manufacturing features

#### Batteria

La batteria è costruita con alette in alluminio (passo 5,3 mm) e tubo in rame da 3/8".

La batteria viene collaudata con azoto / elio ad una pressione di 25 bar.

#### Motoventilatore

Il motoventilatore utilizzato ha le seguenti caratteristiche:

- costruito nel rispetto delle norme EN 60335-1, con protezione termica interna
- diametro ventola 250 mm, inclinazione 28°
- alimentazione 230-240V/1/50-60Hz
- grado di protezione IP42
- classe di isolamento B
- temperatura di funzionamento da -40°C a +40°C
- esecuzione elettrica conforme alla direttiva 2006/95/CE Bassa Tensione

#### Carenatura

È realizzata in alluminio. Le soluzioni costruttive adottate conferiscono robustezza alla carenatura e garantiscono l'assenza di vibrazioni durante il funzionamento. Le viti, le rondelle e i dadi sono di acciaio inossidabile.

#### Coil

*The coil is made of aluminium fins, (fin spacing 5,3 mm) and 3/8" copper tube.*

*It is tested with nitrogen / helium at a pressure of 25 bar.*

#### Fan motor

*The fan motor model in use has the following features:*

- *manufactured following EN 60335-1 laws, with internal thermal protection*
- *fan diameter 250mm, 28° inclination*
- *power supply 230-240V/1/50-60Hz*
- *IP42 protection rate*
- *B insulation class*
- *operating temperature from -40°C to +40°C*
- *electrics made in conformity with 2006/95/CE Low Tension directive*

#### Housing

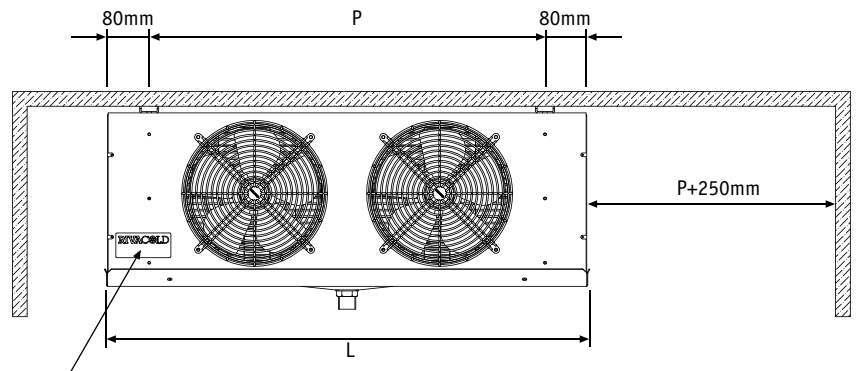
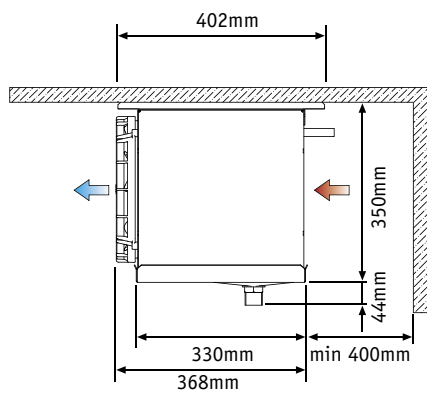
*The housing is made of aluminium. The manufacturing solutions used give the housing strength and guarantees the absence of vibrations during the functioning. Screws, washers and nuts are made of stainless steel.*



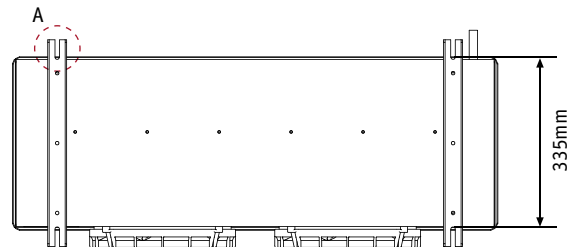
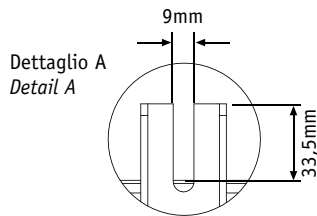


# Caratteristiche costruttive

## Manufacturing features



Etichetta di riconoscimento  
Identifying label



### Serie RC / RC Range

Modello Model	RC	125-16 125-16ED	225-25 225-25ED	225-30 225-30ED	325-33 325-33ED	325-45 325-45ED	425-61 425-61ED
Dimensioni Dimensions (mm)	P	400	770	770	1140	1140	1510
	L	574	944	944	1314	1314	1684
Attacchi Connections	Ø ingresso Ø inlet	12mm	12mm	12mm	12mm	12mm	12mm
	Ø uscita Ø outlet	16mm	16mm	22mm	22mm	22mm	28mm
	Ø scarico Ø drain	1" Gas (33mm)	1" Gas (33mm)	1" Gas (33mm)	1" Gas (33mm)	1" Gas (33mm)	1" Gas (33mm)

## Caratteristiche tecniche

### Technical features

#### Serie RC / RC Range

5,3 mm Passo alette / Fin spacing

Modello Model	RC	125-16 125-16ED	225-25 225-25ED	225-30 225-30ED	325-33 325-33ED	325-45 325-45ED	425-61 425-61ED	
Capacità $\Delta T$ 10 T.cella +2°C Capacity $\Delta T$ 10 Room T. +2°C	kW	1,76	2,74	3,48	4,14	4,96	6,87	
Portata d'aria Air flow	m <sup>3</sup> /h	736	1602	1445	2364	2167	2890	
Freccia d'aria Air throw	m	7	7,5	7	7,5	7	7	
Superficie totale Total surface	m <sup>2</sup>	5,59	7,36	11	11	16,5	21,9	
Volume circuito evaporatore Unit cooler volume circuit	dm <sup>3</sup>	1,89	2,27	3,57	3,17	4,77	6,7	
Motoventilatori Fan motors	n x Ømm	1x250	2x250	2x250	3x250	3x250	4x250	
Assorbimento motori (*) Motor power consumption	A	0,45	0,9	0,9	1,35	1,35	1,8	
	W	65	130	130	195	195	260	
Sbrinamento elettrico (*) Electrical defrost	W	750	1350	1350	1950	1950	2700	
Peso netto Net weight	vers. standard standard vers.	kg	10,6	17,7	19,7	25,2	28,2	37,9
	vers. ED ED vers.	kg	11,3	19	21	27	30	40,2

(\*) Alimentazione elettrica: motoventilatori 230V/1/50Hz, sbrinamento elettrico predisposto per 400/3/50Hz  
Power supply: fan motors 230/1/50Hz, electrical defrost present for 400/3/50Hz

## Scelta evaporatore

### Model choice

Per una corretta scelta dell'evaporatore, utilizzare le tabelle "Potenza Frigorifera". Nelle tabelle vengono riportate le rese frigorifere calcolate per un range di temperatura cella che va da -40°C a +15°C ed un  $\Delta T$  (differenza tra la temperatura dell'aria in entrata e la temperatura di evaporazione del refrigerante) che va da 5°C a 10°C, utilizzando come refrigerante il gas R404A. I parametri per la scelta dell'evaporatore sono: la temperatura della cella, il valore  $\Delta T$  ed il carico termico. Nella colonna corrispondente alla temperatura cella desiderata, sceglieremo il modello che in corrispondenza del  $\Delta T$  richiesto, avrà una resa uguale o superiore al carico termico.

For a correct choice of the unit cooler, use the "refrigerating output" tables.

In these tables are quoted the refrigerating capacities calculated for a cold room temperature ranging from -40°C to +15°C and a  $\Delta T$  (i.e. difference between the inlet air temperature and the gas evaporating temperature) from 5°C to 10°C, by using R404A gas.

The parameters valid for the unit cooler choice are the following ones: the cold room temperature, the  $\Delta T$  value and the heat load. In the column corresponding to the requested cold room temperature we will choose the model that, matching the line of the requested  $\Delta T$ , will have a capacity equal or bigger than the heat load.

In caso di utilizzo di refrigeranti diversi da R404A, la resa riportata a catalogo va moltiplicata per i fattori correttivi qui sotto riportati  
In case of using a different gas from R404A, the stated refrigerating capacity is to be multiplied by the following corrective factors

GAS	Fattore correttivo Corrective factor
R134a	0,91
R507	1
R407f mid	0,95
R407f dew	1,22
R407a mid	0,95
R407a dew	1,22

**R404A****Potenza frigorifera***Refrigerating output***RIVACOLD****RC125-16 RC125-16ED**

	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	1,00	1,11	1,22	1,31	1,39	1,46	1,54	1,63	1,73	1,76	1,78	1,80	1,83	1,86	1,92	2,01
ΔT 9 UR/RH 79%	kW	0,92	1,02	1,11	1,19	1,25	1,31	1,38	1,46	1,56	1,58	1,60	1,61	1,63	1,69	1,73	1,79
ΔT 8 UR/RH 82%	kW	0,84	0,92	0,99	1,06	1,11	1,16	1,20	1,27	1,36	1,38	1,39	1,40	1,43	1,48	1,52	1,58
ΔT 7 UR/RH 85%	kW	0,75	0,81	0,87	0,92	0,96	0,99	1,04	1,10	1,18	1,19	1,20	1,20	1,25	1,28	1,32	1,38
ΔT 6 UR/RH 89%	kW	0,65	0,70	0,74	0,78	0,81	0,84	0,88	0,93	1,00	1,01	1,02	1,03	1,07	1,11	1,14	1,19
ΔT 5 UR/RH 93%	kW	0,54	0,57	0,60	0,63	0,65	0,67	0,71	0,76	0,83	0,83	0,83	0,87	0,90	0,93	0,96	1,01

**RC225-25 RC225-25ED**

	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	1,21	1,41	1,62	1,83	2,02	2,17	2,33	2,50	2,69	2,74	2,79	2,83	2,88	2,94	3,04	3,19
ΔT 9 UR/RH 79%	kW	1,14	1,32	1,51	1,69	1,83	1,97	2,10	2,24	2,44	2,48	2,52	2,55	2,59	2,68	2,75	2,86
ΔT 8 UR/RH 82%	kW	1,06	1,22	1,38	1,53	1,65	1,76	1,87	1,99	2,15	2,18	2,21	2,24	2,28	2,36	2,43	2,54
ΔT 7 UR/RH 85%	kW	0,96	1,10	1,24	1,35	1,45	1,53	1,63	1,73	1,87	1,89	1,91	1,93	2,00	2,06	2,12	2,21
ΔT 6 UR/RH 89%	kW	0,86	0,97	1,07	1,16	1,24	1,30	1,38	1,48	1,61	1,62	1,63	1,66	1,73	1,79	1,84	1,92
ΔT 5 UR/RH 93%	kW	0,74	0,82	0,89	0,95	1,00	1,06	1,13	1,22	1,33	1,34	1,35	1,40	1,45	1,50	1,56	1,65

**RC225-30 RC225-30ED**

	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	1,84	2,07	2,31	2,53	2,72	2,88	3,02	3,20	3,42	3,48	3,53	3,58	3,63	3,70	3,82	4,00
ΔT 9 UR/RH 79%	kW	1,71	1,92	2,13	2,31	2,46	2,60	2,72	2,88	3,09	3,13	3,17	3,21	3,25	3,36	3,45	3,59
ΔT 8 UR/RH 82%	kW	1,57	1,75	1,93	2,07	2,19	2,28	2,41	2,55	2,74	2,78	2,80	2,84	2,89	2,99	3,07	3,19
ΔT 7 UR/RH 85%	kW	1,42	1,56	1,70	1,81	1,91	1,98	2,06	2,19	2,38	2,40	2,42	2,42	2,53	2,60	2,68	2,80
ΔT 6 UR/RH 89%	kW	1,24	1,36	1,46	1,54	1,60	1,66	1,75	1,86	2,01	2,03	2,04	2,07	2,16	2,23	2,30	2,41
ΔT 5 UR/RH 93%	kW	1,04	1,13	1,20	1,26	1,30	1,35	1,43	1,52	1,66	1,67	1,68	1,75	1,81	1,88	1,95	2,06

**RC325-33 RC325-33ED**

	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	2,08	2,37	2,68	2,96	3,21	3,40	3,58	3,81	4,07	4,14	4,20	4,29	4,35	4,44	4,58	4,79
ΔT 9 UR/RH 79%	kW	1,94	2,21	2,47	2,70	2,89	3,07	3,22	3,42	3,67	3,72	3,77	3,82	3,86	3,99	4,10	4,27
ΔT 8 UR/RH 82%	kW	1,79	2,02	2,24	2,43	2,57	2,72	2,85	3,03	3,25	3,29	3,32	3,36	3,42	3,54	3,64	3,79
ΔT 7 UR/RH 85%	kW	1,61	1,80	1,98	2,11	2,24	2,34	2,47	2,62	2,82	2,85	2,87	2,89	2,99	3,07	3,16	3,30
ΔT 6 UR/RH 89%	kW	1,42	1,57	1,69	1,80	1,90	1,98	2,09	2,22	2,40	2,42	2,44	2,47	2,57	2,65	2,74	2,88
ΔT 5 UR/RH 93%	kW	1,19	1,29	1,39	1,47	1,53	1,60	1,70	1,82	1,98	1,98	1,99	2,08	2,15	2,22	2,30	2,42

Tc = temperatura cella / cold room temperature

## Refrigerating output

## RC325-45 RC325-45ED

	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	1,89	2,23	2,64	3,05	3,43	3,78	4,09	4,45	4,84	4,96	5,06	5,16	5,26	5,41	5,60	5,89
ΔT 9 UR/RH 79%	kW	1,80	2,12	2,49	2,84	3,17	3,45	3,75	4,06	4,42	4,52	4,61	4,69	4,79	4,96	5,11	5,34
ΔT 8 UR/RH 82%	kW	1,68	1,99	2,31	2,61	2,89	3,12	3,35	3,62	3,94	4,01	4,08	4,15	4,25	4,41	4,55	4,76
ΔT 7 UR/RH 85%	kW	1,56	1,83	2,10	2,35	2,58	2,74	2,96	3,19	3,47	3,53	3,58	3,63	3,77	3,89	4,02	4,22
ΔT 6 UR/RH 89%	kW	1,41	1,64	1,86	2,06	2,22	2,37	2,55	2,76	3,02	3,06	3,10	3,17	3,30	3,42	3,54	3,72
ΔT 5 UR/RH 93%	kW	1,24	1,42	1,59	1,74	1,86	1,98	2,13	2,30	2,53	2,56	2,59	2,70	2,81	2,92	3,04	3,22

## RC425-61 RC425-61ED

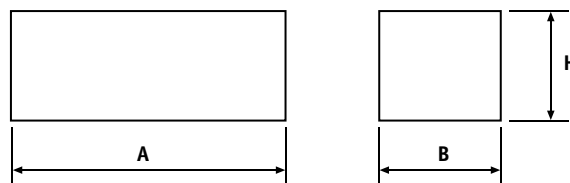
	Tc	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	2°C	4°C	6°C	8°C	10°C	12°C	15°C
ΔT 10 UR/RH 76%	kW	3,14	3,62	4,16	4,66	5,10	5,50	5,84	6,26	6,74	6,87	6,99	7,10	7,22	7,38	7,63	8,01
ΔT 9 UR/RH 79%	kW	2,95	3,40	3,87	4,30	4,67	4,96	5,25	5,67	6,11	6,22	6,32	6,41	6,51	6,73	6,93	7,23
ΔT 8 UR/RH 82%	kW	2,74	3,14	3,54	3,90	4,20	4,44	4,68	5,00	5,39	5,48	5,55	5,63	5,74	5,95	6,13	6,40
ΔT 7 UR/RH 85%	kW	2,50	2,85	3,17	3,45	3,70	3,85	4,09	4,37	4,71	4,78	4,83	4,88	5,05	5,21	5,37	5,61
ΔT 6 UR/RH 89%	kW	2,23	2,51	2,76	2,97	3,14	3,29	3,49	3,74	4,06	4,11	4,15	4,22	4,39	4,55	4,70	4,63
ΔT 5 UR/RH 93%	kW	1,91	2,12	2,31	2,44	2,56	2,70	2,87	3,09	3,38	3,41	3,44	3,58	3,72	3,85	4,00	4,23

Tc = temperatura cella / cold room temperature

## Dimensione imballi

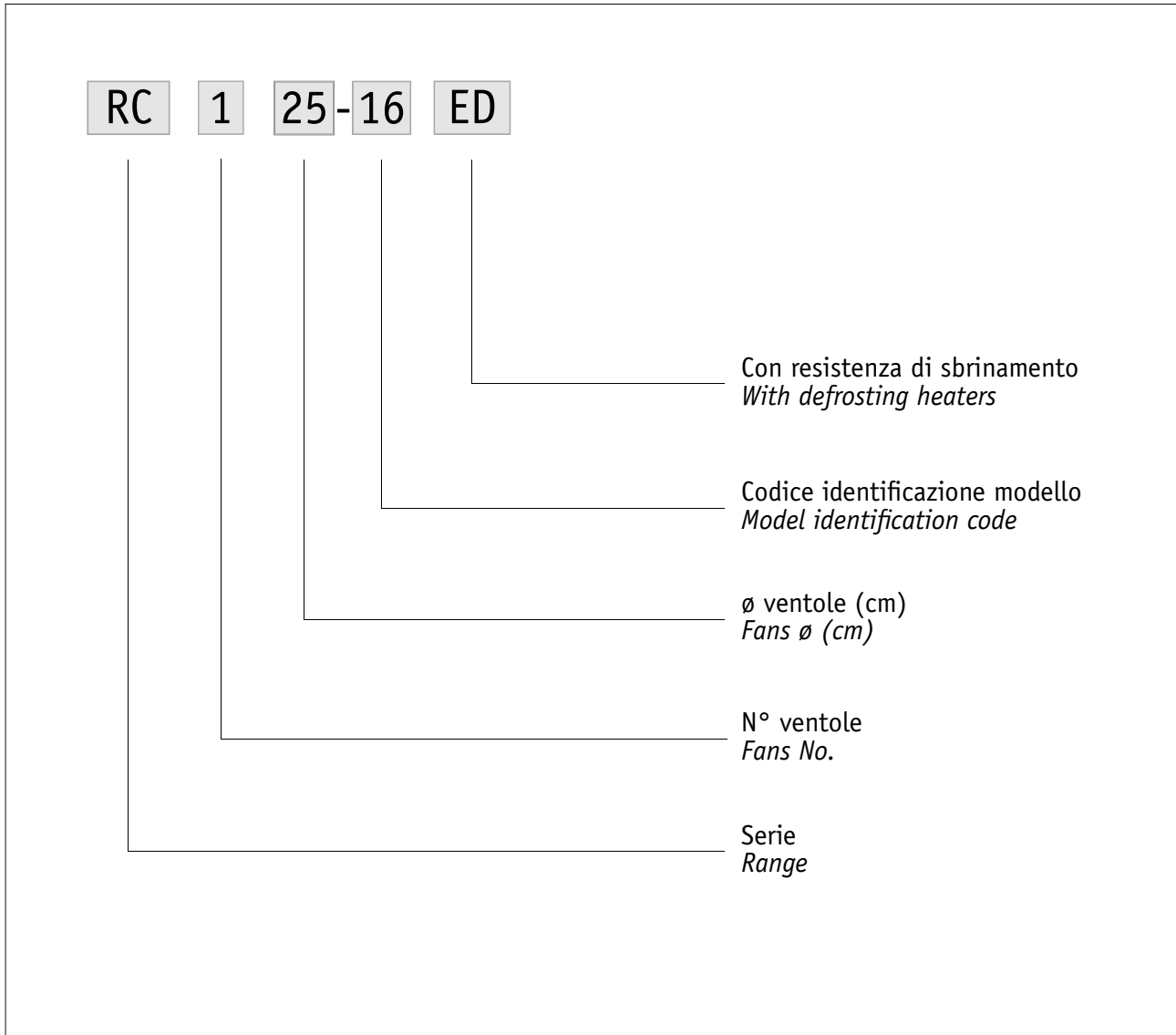
## Packages dimensions

Codice Code	Dimensioni imballo evaporatore Evaporator package dimensions			
	A mm	B mm	H mm	Peso Weight kg
RC1....	660	430	410	2,5
RC2....	1030	430	410	3,0
RC3....	1400	430	410	3,5
RC4....	1770	430	410	4,0





## LETTURA CODICE / MODEL DESIGNATION



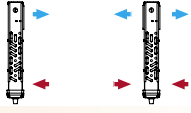
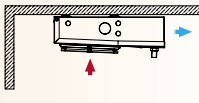
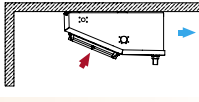
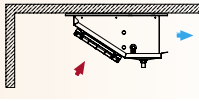
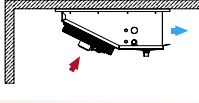
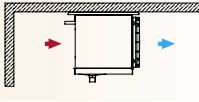
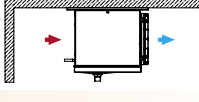
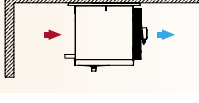
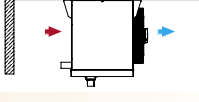
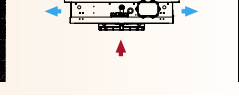
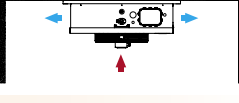
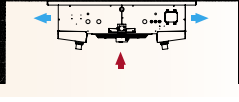
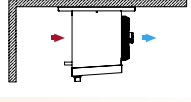
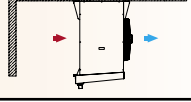
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Descriptions, technical data and pictures are to be considered as a guide and not binding. Rivacold reserves the right to change in whole or part, the specification detailed in this documentation without prior notice and, when necessary to achieve continuous productions, to use alternative manufactures of components for design accomplishment.

# Aeroevaporatori Rivacold

Rivacold units coolers

Serie Range	Potenza / Capacity										Ventole Fans	
	1000W	2000W	4000W	8000W	16000W	32000W	64000W	128000W	256000W			
RM	132 W											2
RS	107 - 2760 W											1 - 4
RSV	341 - 3080 W											1 - 2
RSI 250	420 - 5380 W											1 - 4
RSI 350		1440 - 11900 W										2 - 4
RC	538 - 8005 W											1 - 4
RCS	383 - 8465 W											1 - 4
RCMR 350		1670 - 23150 W										1 - 4
RCMR 450			3760 - 60900 W									1 - 4
RDF 250	374 - 6185 W											1 - 4
RDF 350		1630 - 19000 W										2 - 5
RDFR 500			3020 - 82050 W									1 - 4
RCBR 500			4020 - 73750 W									1 - 4
RCBR 630			4588 - 170569 W									1 - 4



## NOTES

Blank lined area for notes, consisting of ten horizontal light blue bars.

**RIVACOLD** s.r.l.

**Costruzione Gruppi Frigoriferi e Accessori**

Via Sicilia, 7 - Fraz. Montecchio

61022 Vallefoglia (PU) - Italy

Tel. +39.0721.919911 - Fax +39.0721.490015

[www.rivacold.com](http://www.rivacold.com) / [info@rivacold.com](mailto:info@rivacold.com)

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