

Agricultural air coolers
for fresh fruits and vegetables
REIB - RGIB - RBIB



General description

Range of single flow air coolers, suitable for small and medium storage cold rooms with volume from 20 to 600 m³. Thanks their heavy construction they are suitable for storage of fresh or frozen food with temperature from -30 to +20°C.

This series of air coolers is available for refrigerant fluids:

- Direct expansion evaporators HFCs
- Air coolers for brine
- Direct expansion evaporators CO₂

Wide range of models (120 standard models), fulfill every customer needs.

This series with squared coil geometry, grant high cooling capacity combined with low air flow rate.

Heat exchanger

Fin spacing : 4, 6, 7, 8 mm

Tubes material : copper or stainless steel

Fins material : aluminum

Frame material : Aluminum or galvanized steel

The heat exchanger is equipped with suspending tubes system that avoid the contact between tubes and frame and it provides full protection of the heat exchanger against vibration and thermal expansion.

The evaporators are tested at 33 bar, while the glycol air coolers are tested at 15 bar.

The evaporators are supplied with 2 bar over pressure charge of dry nitrogen.

Casing

Casing manufactured from galvanized steel or aluminum epoxy powder painted color RAL 9002, corrosion resistant.

All rivets and bolts are in stainless steel material.

Plastic drain outlet connection for all the series.

All corners of drip tray welded.

Fans

The fans meet the Erp 2015 directive.

Protection class : IP54

Design temperature : +50 / -30°C

Tension : 230V/1ph/50Hz

: 400V/3ph/50Hz

Diameters (mm) : 400, 450, 500

Defrosting systems

Electric defrosting

Light electric defrost

Water defrost

Hot glycol defrost

Accessories

Various optional are available on request:

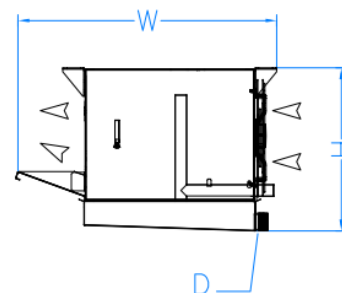
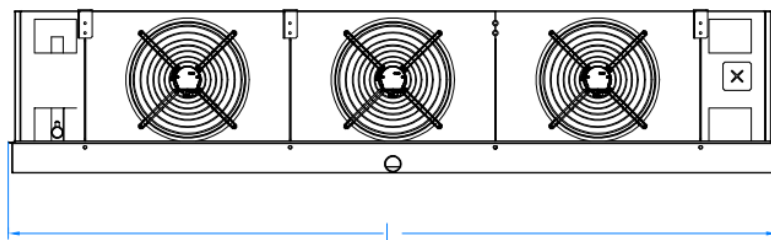
- Stainless steel casing
- Stainless steel tubes
- Stainless steel fins
- Epoxy painted aluminum fins
- Coil coating
- Insulated drip tray
- Safety switches
- EC fans
- ATEX fans
- Casing with special color
- Legs for floor installation

Standard

The products are designed and manufactured according to following EU Directive:

- PED 97/23/CE
- 2006/42/CE (Machinery Directive)
- 2004/108/CE (EMC Directive)
- 2006/95/CE (Low Voltage Directive)

Dimensions



Model/Modello	L	W	H	D
R_IB 0402	2007	921	580	2"
R_IB 0403	2737	921	580	2"
R_IB 0404	3467	921	580	2"
R_IB 0405	4139	921	580	2"
R_IB 0406	4869	921	580	2"
R_IB 0452	2346	921	770	2"
R_IB 0453	3246	921	770	2"
R_IB 0454	4146	921	770	2"
R_IB 0455	5046	921	770	2"
R_IB 0456	5946	921	770	2"
R_IB 0502	2300	818	770	2"
R_IB 0503	3200	818	770	2"
R_IB 0504	4100	818	770	2"
R_IB 0505	5000	818	770	2"
R_IB 0506	5900	818	770	2"

REIB 040

Fluid:	R448A
Air Temperature:	2 °C
Relative Humidity:	88 %
Evaporating Temp.:	-5°C
Casing:	Powder painted galvanized steel RAL 9002
Tubes:	Aluminium
Fins:	Copper
Fans Power Input:	400V/3Ph/50Hz



Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m³/h	m²	dB(A)	mm	RPM	W	A	mm	mm	dm³	kg
Fin Spacing: 4,0 mm												
REIB 0402 D4	11,0	7100	86,5	55	2x400	1440	324	0,53	12	35	9,000	145,00
REIB 0403 D4	16,8	10600	131	57	3x400	1440	486	0,53	12	35	14,000	195,00
REIB 0405 D4	28,2	17700	220	59	5x400	1440	810	0,53	16	42	23,000	275,00
REIB 0403 E4	19,3	10200	163,7	57	3x400	1440	486	0,53	16	42	17,000	205,00
REIB 0405 E4	32,8	17000	274,9	59	5x400	1440	810	0,53	16	42	29,000	295,00
REIB 0403 F4	21,6	9800	196,5	57	3x400	1440	486	0,53	16	42	21,000	215,00
REIB 0405 F4	35,9	16400	329,9	59	5x400	1440	810	0,53	22	42	35,000	315,00
REIB 0406 F4	43,6	19600	396,6	59	6x400	1440	972	0,53	22	42	41,000	365,00
Fin Spacing: 6,0 mm												
REIB 0402 D6	8,8	7300	58,5	55	2x400	1440	324	0,53	12	35	9,000	140,00
REIB 0403 D6	13,4	11000	88,6	57	3x400	1440	486	0,53	12	35	14,000	190,00
REIB 0405 D6	22,4	18300	148,8	59	5x400	1440	810	0,53	16	42	23,000	270,00
REIB 0403 E6	15,7	10700	110,8	57	3x400	1440	486	0,53	16	42	17,000	200,00
REIB 0405 E6	26,8	17800	186	59	5x400	1440	810	0,53	16	42	29,000	290,00
REIB 0403 F6	18,2	10300	133	57	3x400	1440	486	0,53	16	42	21,000	210,00
REIB 0405 F6	29,7	17300	223,2	59	5x400	1440	810	0,53	22	42	35,000	310,00

Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m ³ /h	m ²	dB(A)	mm	RPM	W	A	mm	mm	dm ³	kg
REIB 0406 F6	36,7	20700	268,4	59	6x400	1440	972	0,53	22	42	41,000	360,00
Fin Spacing: 7,0 mm												
REIB 0402 D7	8,0	7400	50,5	55	2x400	1440	324	0,53	12	35	9,000	135,00
REIB 0403 D7	12,2	11100	76,5	57	3x400	1440	486	0,53	12	35	14,000	185,00
REIB 0405 D7	20,4	18500	128,5	59	5x400	1440	810	0,53	16	42	23,000	265,00
REIB 0403 E7	14,1	10800	95,7	57	3x400	1440	486	0,53	16	42	17,000	195,00
REIB 0405 E7	24,6	18000	160,6	59	5x400	1440	810	0,53	16	42	29,000	285,00
REIB 0403 F7	16,8	10500	114,8	57	3x400	1440	486	0,53	16	42	21,000	205,00
REIB 0405 F7	26,9	17500	192,8	59	5x400	1440	810	0,53	22	42	35,000	305,00
REIB 0406 F7	34,0	21000	231,7	59	6x400	1440	972	0,53	22	42	41,000	355,00
Fin Spacing: 8,0 mm												
REIB 0402 D8	7,3	7500	44,6	55	2x400	1440	324	0,53	12	35	9,000	130,00
REIB 0403 D8	11,1	11200	67,5	57	3x400	1440	486	0,53	12	35	14,000	180,00
REIB 0405 D8	18,8	18700	113,3	59	5x400	1440	810	0,53	16	42	23,000	260,00
REIB 0403 E8	12,8	10900	84,3	57	3x400	1440	486	0,53	16	42	17,000	190,00
REIB 0405 E8	22,7	18200	141,6	59	5x400	1440	810	0,53	16	42	29,000	280,00
REIB 0403 F8	15,7	10600	101,2	57	3x400	1440	486	0,53	16	42	21,000	200,00
REIB 0405 F8	24,5	17800	169,9	59	5x400	1440	810	0,53	22	42	35,000	300,00

REIB 045

Fluid:	R448A
Air Temperature:	2 °C
Relative Humidity:	88 %
Evaporating Temp.:	-5 °C
Casing:	Powder painted galvanized steel RAL 9002
Tubes:	Aluminium
Fins:	Copper
Fans Power Input:	400V/3Ph/50Hz



Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m ³ /h	m ²	dB(A)	mm	RPM	W	A	mm	mm	dm ³	kg
Fin Spacing: 4,0 mm												
REIB 0452 D4	17,9	12200	134	53	2x450	1360	880	0,98	12	35	15,000	195,00
REIB 0453 D4	27,1	18300	202,6	55	3x450	1360	1320	0,98	16	42	22,000	255,00
REIB 0455 D4	45,7	30500	339,7	56	5x450	1360	2200	0,98	16	42	36,000	375,00
REIB 0453 E4	31,8	17700	253,2	55	3x450	1360	1320	0,98	16	42	27,000	270,00
REIB 0455 E4	53,4	29500	424,6	56	5x450	1360	2200	0,98	22	42	45,000	400,00
REIB 0453 F4	35,6	17200	303,9	55	3x450	1360	1320	0,98	16	42	33,000	285,00
REIB 0455 F4	59,7	28600	509,5	56	5x450	1360	2200	0,98	28	42	54,000	425,00
REIB 0456 F4	71,0	34400	612,3	57	6x450	1360	2640	0,98	28	42	65,000	495,00
Fin Spacing: 6,0 mm												
REIB 0452 D6	14,3	12600	90,7	53	2x450	1360	880	0,98	12	35	15,000	185,00
REIB 0453 D6	21,8	18900	137,1	55	3x450	1360	1320	0,98	16	42	22,000	245,00
REIB 0455 D6	37,0	31500	229,8	56	5x450	1360	2200	0,98	16	42	36,000	365,00
REIB 0453 E6	26,0	18400	171,3	55	3x450	1360	1320	0,98	16	42	27,000	260,00
REIB 0455 E6	43,8	30600	287,3	56	5x450	1360	2200	0,98	22	42	45,000	390,00
REIB 0453 F6	29,7	17900	205,6	55	3x450	1360	1320	0,98	16	42	33,000	275,00
REIB 0455 F6	49,8	29800	344,8	56	5x450	1360	2200	0,98	28	42	54,000	415,00

Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m ³ /h	m ²	dB(A)	mm	RPM	W	A	mm	mm	dm ³	kg
REIB 0456 F6	60,1	35800	414,3	57	6x450	1360	2640	0,98	28	42	65,000	485,00
Fin Spacing: 7,0 mm												
REIB 0452 D7	13,0	12700	78,3	53	2x450	1360	880	0,98	12	35	15,000	180,00
REIB 0453 D7	19,9	19100	118,4	55	3x450	1360	1320	0,98	16	42	22,000	240,00
REIB 0455 D7	33,9	31800	198,5	56	5x450	1360	2200	0,98	16	42	36,000	360,00
REIB 0453 E7	23,9	18600	148	55	3x450	1360	1320	0,98	16	42	27,000	255,00
REIB 0455 E7	40,3	31000	248,1	56	5x450	1360	2200	0,98	22	42	45,000	385,00
REIB 0453 F7	27,4	18100	177,5	55	3x450	1360	1320	0,98	16	42	33,000	270,00
REIB 0455 F7	46,0	30200	297,7	56	5x450	1360	2200	0,98	28	42	54,000	410,00
REIB 0456 F7	55,8	36300	357,8	57	6x450	1360	2640	0,98	28	42	65,000	480,00
Fin Spacing: 8,0 mm												
REIB 0452 D8	12,0	12800	69	53	2x450	1360	880	0,98	12	35	15,000	175,00
REIB 0453 D8	18,4	19200	104,3	55	3x450	1360	1320	0,98	16	42	22,000	235,00
REIB 0455 D8	31,3	32000	174,9	56	5x450	1360	2200	0,98	16	42	36,000	355,00
REIB 0453 E8	22,1	18800	130,4	55	3x450	1360	1320	0,98	16	42	27,000	250,00
REIB 0455 E8	37,3	31300	218,6	56	5x450	1360	2200	0,98	22	42	45,000	380,00
REIB 0453 F8	25,5	18300	156,5	55	3x450	1360	1320	0,98	16	42	33,000	265,00
REIB 0455 F8	42,8	30600	262,4	56	5x450	1360	2200	0,98	28	42	54,000	405,00

REIB 050

Fluid:	R448A
Air Temperature:	2 °C
Relative Humidity:	88 %
Evaporating Temp.:	-5 °C
Casing:	Powder painted galvanized steel RAL 9002
Tubes:	Aluminium
Fins:	Copper
Fans Power Input:	400V/3Ph/50Hz



Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m ³ /h	m ²	dB(A)	mm	RPM	W	A	mm	mm	dm ³	kg
Fin Spacing: 4,0 mm												
REIB 0502 D4	21,4	14800	160,9	58	2x500	1390	1320	1,41	16	54	17,000	230,00
REIB 0503 D4	32,1	22200	243,1	59	3x500	1390	1980	1,41	16	54	26,000	310,00
REIB 0505 D4	54,9	37000	407,6	61	5x500	1390	3300	1,41	22	64	44,000	490,00
REIB 0503 E4	37,7	21500	303,9	59	3x500	1390	1980	1,41	16	54	33,000	340,00
REIB 0505 E4	64,3	35800	509,5	61	5x500	1390	3300	1,41	28	64	54,000	530,00
REIB 0503 F4	42,4	20900	364,7	59	3x500	1390	1980	1,41	16	54	39,000	390,00
REIB 0505 F4	72,1	34800	611,4	61	5x500	1390	3300	1,41	28	64	65,000	620,00
REIB 0506 F4	85,7	41800	734,8	62	6x500	1390	3960	1,41	28	64	78,000	730,00
Fin Spacing: 6,0 mm												
REIB 0502 D6	16,9	15200	108,8	58	2x500	1390	1320	1,41	16	54	17,000	210,00
REIB 0503 D6	26,3	22800	164,5	59	3x500	1390	1980	1,41	16	54	26,000	280,00
REIB 0505 D6	44,1	38000	275,8	61	5x500	1390	3300	1,41	22	64	44,000	440,00
REIB 0503 E6	31,4	22200	205,6	59	3x500	1390	1980	1,41	16	54	33,000	300,00
REIB 0505 E6	52,6	37100	344,8	61	5x500	1390	3300	1,41	28	64	54,000	470,00
REIB 0503 F6	35,9	21700	246,7	59	3x500	1390	1980	1,41	16	54	39,000	340,00
REIB 0505 F6	60,1	36200	413,7	61	5x500	1390	3300	1,41	28	64	65,000	540,00

Model	Capacity	Air Flow	Surface	Noise Pressure Level at 5m	Fans	Fan Speed	Fans Nominal Power	Fans Nominal Current	Connections IN	Connections OUT	Volume	Weight
	kW	m ³ /h	m ²	dB(A)	mm	RPM	W	A	mm	mm	dm ³	kg
REIB 0506 F6	72,5	43400	497,2	62	6x500	1390	3960	1,41	28	64	78,000	640,00
Fin Spacing: 7,0 mm												
REIB 0502 D7	15,4	15300	94	58	2x500	1390	1320	1,41	16	54	17,000	210,00
REIB 0503 D7	24,1	23000	142	59	3x500	1390	1980	1,41	16	54	26,000	280,00
REIB 0505 D7	40,2	38400	238,1	61	5x500	1390	3300	1,41	22	64	44,000	440,00
REIB 0503 E7	29,0	22500	177,5	59	3x500	1390	1980	1,41	16	54	33,000	300,00
REIB 0505 E7	48,3	37500	297,7	61	5x500	1390	3300	1,41	28	64	54,000	470,00
REIB 0503 F7	33,3	22000	213,1	59	3x500	1390	1980	1,41	16	54	39,000	340,00
REIB 0505 F7	55,5	36600	357,2	61	5x500	1390	3300	1,41	28	64	65,000	540,00
REIB 0506 F7	67,3	44000	429,3	62	6x500	1390	3960	1,41	28	64	78,000	640,00
Fin Spacing: 8,0 mm												
REIB 0502 D8	13,8	15400	82,8	58	2x500	1390	1320	1,41	16	54	17,000	200,00
REIB 0503 D8	22,3	23200	125,2	59	3x500	1390	1980	1,41	16	54	26,000	270,00
REIB 0505 D8	37,0	38600	209,9	61	5x500	1390	3300	1,41	22	64	44,000	410,00
REIB 0503 E8	27,0	22700	156,5	59	3x500	1390	1980	1,41	16	54	33,000	280,00
REIB 0505 E8	44,7	37800	262,4	61	5x500	1390	3300	1,41	28	64	54,000	440,00
REIB 0503 F8	31,1	22200	187,8	59	3x500	1390	1980	1,41	16	54	39,000	320,00
REIB 0505 F8	51,6	37000	314,9	61	5x500	1390	3300	1,41	28	64	65,000	490,00