



Aermec adheres to the EUROVENT Certification Programme. The products concerned appear in the EUROVENT Certified Products Guide.



Features

- Available in 17 different sizes
- Cooling only versions
- All versions are supplied for use with R407C
- Version equipped with partial or total heat recovery is available
- High-reliability twin screw-type compressor
- Version L, A: Sound insulating cover for low noise operation
- Version E: Sound insulating cover for low noise operation and with fan-speed control device
- Modular microprocessor control system
- Multilingual operating parameter display
- Plate-type heat exchangers
- Exchangers electric heater
- Axial flow fan units for extremely quiet operation
- Compact size
- Metallic protective cabinet with rustproof polyester paint

Accessories

- **AER485P2:** RS-485 interface for supervision systems with MODBUS protocol.
- **AVX:** Spring anti-vibration mounts. Select the AVX model by using the compatibility table.
- **DCPX:** Low temperature device for operation of outdoor units at ambient temperatures from less than 19 °C down to - 10 °C. **Standard on versions D and E.**
- **GP:** Safety grille: protects external coils from accidental impact and hail damage.
- **PRV:** For remote control of all chiller operations.
- **RIF-B:** Current rephaser. Parallel connection with the motor makes the reduction of input current possible. **This can only be installed when the machine is being made and must therefore be specified when the order is placed.**
- **ROMEO:** (Remote Overwatching Modem Enabling Operation) is a device that enables a remote control of a chiller from an ordinary WAP mobile phone. Furthermore it allows to send alarm or pre-alarm SMS messages up to 3 GSM mobile phones which may not be equipped with WAP. **This device includes AER485 accessory, moreover you must add one AER485P2 for each compressor, as well.**
- **SAP:** A large series of storage tanks and pumps is available. As for the dimensions, they are compatible. Please refer to the technical manual.

Compatibility of accessories																	
Mod. RVB	0601	0701	0801	0901	1101	1401	1202	1402	1602	1802	2002	2202	2502	2802	3603	3903	4203
AER485P2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AVX (RVB L)	101	102	103	103	104	106	104	107	107	108	109	110	111	112	113	114	114
AVX (RVB A)	101	103	103	103	116	118	104	107	119	119	120	110	111	112	113	114	114
AVX (RVB E)	101	103	103	104	104	106	116	107	121	122	127	110	111	112	113	114	114
DCPX 37	✓	✓	✓	✓	✓								✓		✓(x2)	✓	
DCPX 36						✓							✓		✓	✓(x2)	✓
DCPX 29							✓	✓	✓	✓	✓	✓					✓(x3)
DCPX 30														✓			
GP 60	✓	✓(L)															
GP 70		✓(*)	✓	✓	✓		✓				✓(x2)	✓(x2)	✓		✓(x2)	✓	
GP 100						✓		✓	✓(L)				✓	✓(x2)	✓	✓(x2)	✓(x3)
GP 180									✓(*)	✓							
PRV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RIF-B	161	161	201	241	241	301	161 (x2)	161 (x2)	201 (x2)	241 (x2)	241 (x2)	241 (x2)	241 + 301	301 (x2)	241(x2) + 301	241 + 301(x2)	301 (x3)
ROMEO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(L) = may be used with silent versions (L) only, cooling only.

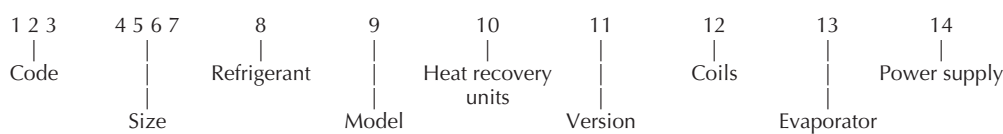
(*) = may be used with all RVB units, excepting silent versions (L), cooling only.

N.B. = the brackets indicated on certain models specify the combination of accessories to be installed;
for example, for the DCPX accessory on model RVB 3603, 2 DCPX 37 and 1 DCPX 36 can be fitted.

Selection

By combining the various options, each model can be configured exactly to match even the most specific system requirements.

Configuration rules:



Code:

RVB

Size:

0601, 0701, 0801, 0901, 1101, 1401
1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802
3603, 3903, 4203

Refrigerant:

° - R407C
Y - R407C with water outlet down to -6 °C

Model:

° - Cooling only

Heat recovery units:

° - Without heat recovery units
D - With desuperheaters
T - With total recovery units

Version:

L - Silenced
A - High temperature
E - Extra-Silenced

Coils:

° - Aluminium
R - Copper
S - Tinned copper
V - Painted copper / aluminium version

Evaporator:

° - To PED standards

Power supply:

° - 3~ 400V 50Hz with fuses
8 - 3~ 400V 50Hz with thermal-magnetic cut-outs
2 - 3~ 230V 50Hz with fuses
4 - 3~ 230V 50Hz with thermal-magnetic cut-outs

Warning:

- standard options are shown by symbol °;
- for cooling only versions, it is possible only the combination between options Y and A (please, contact the Headquarter for particular needs).

Commercial code example: **RVB1402LR8**

This code refers to an RVB unit, size 1402, copper condenser coils, evaporator to PED standards and electrical panel for compressors with 3~ 400V 50Hz motors protected by thermal-magnetic cut-outs.

Note that as each option is precisely identified, it is not necessary to specify standard options (shown with °) in the commercial code.

Technical data

Mod. RVB	Vers.	0601	0701	0801	0901	1101	1401	1202	1402
Cooling capacity (kW)	L	135	159	182	210	264	344	270	318
	A	140	169	190	220	276	358	280	338
	E	122	144	164	193	236	314	244	288
Total input power (kW)	L	54	61	74	83	97	130	109	123
	A	52	60	71	79	93	124	105	118
	E	57	66	77	88	102	139	111	125
Total input current (A)	L	92	102	125	144	163	220	184	209
	A	89	104	120	138	156	210	178	202
	E	96	111	129	151	169	230	186	208
Water flow rate (l/h)	L	23220	27350	31300	36120	45410	59170	46440	54700
	A	24080	29070	32680	37840	47470	61580	48160	58140
	E	20980	24770	28210	33200	40590	54010	41970	49540
Pressure drop (kPa)	L	31	31	29	40	34	35	31	31
	A	34	35	32	43	37	38	34	35
	E	26	26	23	34	27	29	26	26
Compressors (n.)	All	1	1	1	1	1	1	2	2
Partialisation steps (n.)	All	3	3	3	3	3	3	6	6
Total air flow rate (m³/h)	L	39000	39000	82000	82000	80000	110000	80000	112000
	A	36000	79000	75300	75300	72000	108000	73800	118500
	E	25000	34000	44000	44000	57000	68000	50000	62000
♪ Sound pressure (dB A)	L	59,5	61	62,5	62,5	63	64	63	64,5
	A	59,5	61	62	62	62,5	63,5	62,5	63,5
	E	48	50,5	50,5	50,5	51	52	51	52,5
Fans (n. x kW)	L	2 x 1.3	2 x 2.6	4 x 1.3	4 x 1.3	4 x 1.3	6 x 1.4	4 x 1.3	6 x 1.3
	A	2 x 1.3	4 x 1.3	4 x 1.4	4 x 1.4	4 x 1.4	6 x 1.4	4 x 1.4	6 x 1.4
	E	2 x 0.6	4 x 0.3	4 x 0.4	4 x 0.4	4 x 0.8	6 x 0.5	4 x 0.5	6 x 0.4
Fans (Ø mm)	All	800	800	800	800	800	800	800	800
Evaporators (n.)	All	1	1	1	1	1	1	2	2
Water connections (V ⁽¹⁾ - Ø)	All	2"	2"	2"	3"	3"	3"	2"	2"

Mod. RVB	Vers.	1602	1802	2002	2202	2502	2802	3603	3903	4203
Cooling capacity (kW)	L	364	420	474	528	608	688	858	952	1.032
	A	380	440	496	552	634	716	896	992	1.074
	E	328	386	427	472	550	628	772	864	942
Total input power (kW)	L	146	167	180	193	241	261	324	359	394
	A	142	160	172	185	231	249	296	341	374
	E	148	170	185	198	245	268	332	368	402
Total input current (A)	L	245	289	308	326	383	441	548	603	660
	A	240	276	294	311	366	420	524	574	628
	E	246	290	310	331	389	449	545	606	664
Water flow rate (l/h)	L	62610	72240	81530	90820	104580	118340	147580	163740	177500
	A	65360	75680	85310	94940	109050	123150	154110	170620	184730
	E	56420	66390	73440	81180	94600	108020	132780	148610	162020
Pressure drop (kPa)	L	29	40	40	34	35	35	35	35	35
	A	32	43	43	37	38	38	38	38	38
	E	23	34	34	27	29	29	29	29	29
Compressors (n.)	All	2	2	2	2	2	2	3	3	3
Partialisation steps (n.)	All	6	6	6	6	6	6	9	9	9
Total air flow rate (m³/h)	L	111000	162000	162000	160000	190000	220000	270000	300000	330000
	A	154300	148000	148000	144000	180000	216000	252000	288000	320000
	E	78000	88000	100000	114000	125000	136000	182000	215000	240000
♪ Sound pressure (dB A)	L	65	65	65,5	65,5	66	66,5	67	67,5	68
	A	64,5	64,5	65	65	65,5	66	66,5	67	67
	E	53	53	53,5	53,5	54	54,5	65	55,5	55,5
Fans (n. x kW)	L	6 x 1.3	8 x 1.3	8 x 1.3	8 x 1.3	10 x 1.3	12 x 1.3	14 x 1.3	16 x 1.4	18 x 1.4
	A	8 x 1.3	8 x 1.4	8 x 1.3	8 x 1.4	10 x 1.4	12 x 1.4	14 x 1.4	16 x 1.4	18 x 1.4
	E	8 x 0.4	8 x 0.4	8 x 0.5	8 x 0.8	10 x 0.6	12 x 0.5	14 x 0.6	16 x 0.7	18 x 0.7
Fans (Ø mm)	All	800	800	800	800	800	800	800	800	800
Evaporators (n.)	All	2	2	2	2	2	2	3	3	3
Water connections (V ⁽¹⁾ - Ø)	All	2"	3"	3"	3"	3"	3"	3"	3"	3"

Power supply = 3~ 400V 50 Hz.

Performance values refer to the following conditions:

♪ Sound pressure measured in free field conditions at distance of 10 m with direction factor = 2.

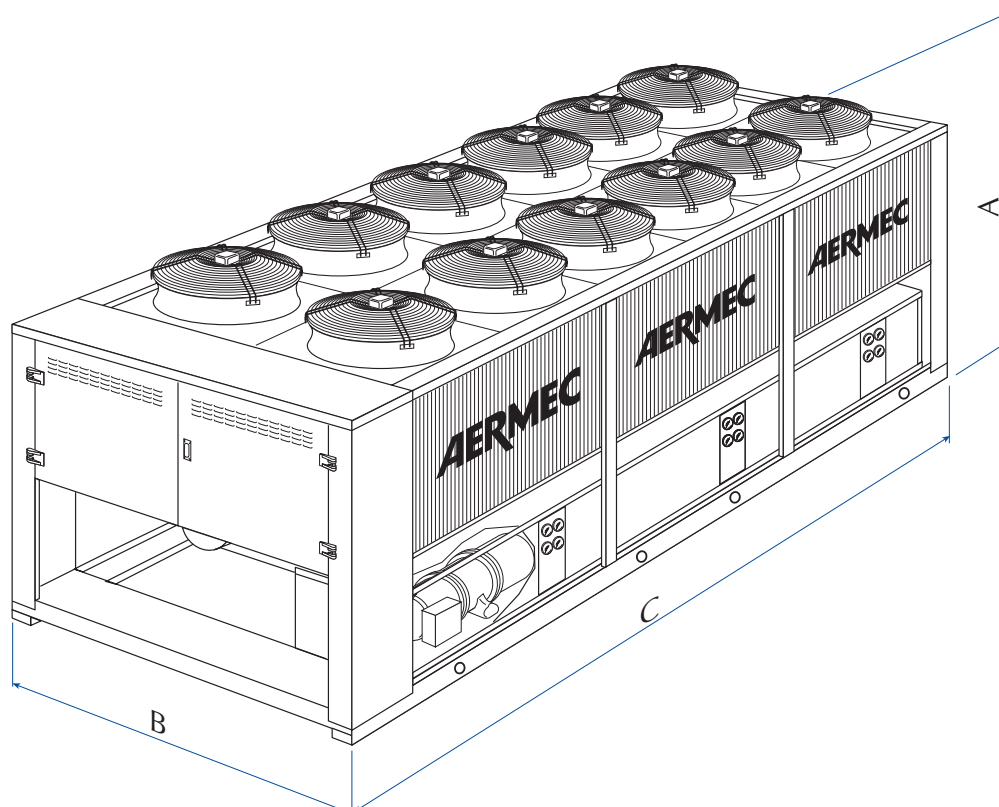
In accordance with ISO 3744 regulations

⁽¹⁾ V = Victaulic connection

■ Cooling:

- water outlet temperature 7 °C;
- ambient air temperature 35 °C;
- Δt = 5 °C.

Dimensions (mm)



Mod. RVB	Vers.	0601	0701	0801	0901	1101	1401	1202	1402
Height (A)	L	2250	2250	2310	2310	2310	2310	2310	2310
	A	2250	2310	2310	2310	2310	2310	2310	2310
	E	2250	2310	2310	2310	2310	2310	2310	2310
Width (B)	L	1550	1550	2200	2200	2200	2200	2200	2200
	A	1550	2200	2200	2200	2200	2200	2200	2200
	E	1550	2200	2200	2200	2200	2200	2200	2200
Depth (C)	L	2700	2700	3250	3250	3250	3850	3250	3850
	A	2700	3250	3250	3250	3250	3850	3250	3850
	E	2700	3250	3250	3250	3250	3850	3250	3850
Weight (kg)	L	1390	1718	2042	2090	2555	3136	2490	3166
	A	1460	2120	2165	2205	2733	3159	2670	3349
	E	1498	2159	2206	2407	2778	3208	2746	3428

Mod RVB	Vers.	1602	1802	2002	2202	2502	2802	3603	3903	4203
Height (A)	L	2310	2325	2325	2325	2325	2325	2325	2325	2325
	A	2325	2325	2325	2325	2325	2325	2325	2325	2325
	E	2325	2325	2325	2325	2325	2325	2325	2325	2325
Width (B)	L	2200	2200	2200	2200	2200	2200	2200	2200	2200
	A	2200	2200	2200	2200	2200	2200	2200	2200	2200
	E	2200	2200	2200	2200	2200	2200	2200	2200	2200
Depth (C)	L	3850	5100	6105	6105	6705	7305	9550	10155	10765
	A	5100	5100	6105	6105	6705	7305	9550	10155	10765
	E	5100	5100	6105	6105	6705	7305	9550	10155	10765
Weight (kg)	L	3414	3850	4585	5050	5457	5782	7996	8527	9058
	A	4001	4080	4878	5407	5819	6149	8536	8752	9128
	E	4192	4384	5125	5496	5912	6246	8674	8894	9274

The technical data in this document are not binding.
Aermec S.p.A. reserves the right to make whatever modifications
it deems necessary to improve the product at any time.

Aermec S.p.A.
Via Roma, 44 - 37040 Bevilacqua (VR) - Italy
Tel. +39 04 42 63 31 11 - Telefax +39 044 29 35 66
www.aermec.com