



**VMF-CRP:** Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

**PR4:** Remote panel with LCD display and touch keyboard that allows carrying out the basic controls, the programming of time ranges and the signaling of the alarms of a single unit.

■ For the installation of the PR4 remote panel, the MODU-485BL communication interface is indispensable.

**DCPX:** Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

**VT:** Anti-vibration supports.

### FACTORY FITTED ACCESSORIES

**DRE:** Electronic device for peak current reduction.

**RA:** Anti-freeze electric heater for the buffer tank.

**KR:** Anti-freeze electric heater for the plate heat exchanger.

### COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

## ACCESSORIES COMPATIBILITY

### Accessories

Model	Ver	021	026	031	041	050	070	080	090	102	152	202
AERBAC-MODU	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
AERLINK	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
MODU-485BL	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
MULTICONTROL	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
PR3	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
SGD	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
SPLW (1)	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.
VMF-CRP	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.

(1) Probe required for MULTICONTROL to manage the secondary circuit system.

### Remote panel

Model	Ver	021	026	031	041	050	070	080	090	102	152	202
PR4	°A,P	.	.	.	.	.	.	.	.	.	.	.
	N									.	.	.
	Q					.	.	.	.	.	.	.

For the installation of the PR4 remote panel, the MODU-485BL communication interface is indispensable.

### DCPX: Condensation control temperature

Ver	021	026	031	041	050	070	080	090	102	152	202
°A,P	DCPX50	DCPX52	DCPX52	DCPX52							
N	-	-	-	-	-	-	-	-	DCPX52	DCPX52	DCPX52
Q	-	-	-	-	DCPX50	DCPX50	DCPX50	DCPX50	DCPX52	DCPX52	DCPX52

### VT: Antivibration

Ver	021	026	031	041	050	070	080	090	102	152	202
°P	VT9	VT9	VT9	VT9	VT9	VT9	VT9	VT9	VT15	VT15	VT15
A	VT9	VT9	VT9	VT9	VT15						
N	-	-	-	-	-	-	-	-	VT15	VT15	VT15
Q	-	-	-	-	VT15						

### DRE: Device for peak current reduction

Ver	021	026	031	041	050	070	080	090	102	152	202
°A,P,Q	-	-	-	-	DRES (1)	DRES (1)	DRES (1)	DRES (1)	DRES x 2 (1)	DRES x 2 (1)	DRES x 2 (1)
N	-	-	-	-	-	-	-	-	DRES x 2 (1)	DRES x 2 (1)	DRES x 2 (1)

(1) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

### KR: electric heater for the plate heat exchanger

Ver	021	026	031	041	050	070	080	090	102	152	202
° , P	KR2	KR100	KR100	KR100							
A, Q	-	-	-	-	KR2	KR2	KR2	KR2	KR100	KR100	KR100
N	-	-	-	-	-	-	-	-	KR100	KR100	KR100

A grey background indicates the accessory must be assembled in the factory

### RA: electric heater for the buffer tank

Ver	021	026	031	041	050	070	080	090	102	152	202
A	RA	RA100	RA100	RA100							
Q	-	-	-	-	RA	RA	RA	RA	RA100	RA100	RA100

A grey background indicates the accessory must be assembled in the factory

## CONFIGURATOR

Field	Description
<b>1,2,3</b>	<b>ANL</b>
<b>4,5,6</b>	<b>Size</b> 021, 026, 031, 041, 050, 070, 080, 090, 102, 152, 202
<b>7</b>	<b>Model</b>
°	Cooling only
<b>8</b>	<b>Version</b>
°	Standard
A	With storage tank and pump
N	With increased pump (1)
P	With pump
Q	With storage tank and increased pump (2)
<b>9</b>	<b>Heat recovery</b>
D	With desuperheater (3)
°	Without heat recovery
<b>10</b>	<b>Coils</b>
R	Copper pipes-copper fins
V	Copper pipes-Coated aluminium fins
°	Copper-aluminium (4)
<b>11</b>	<b>Operating field</b>
W	Double mechanical thermostat for low temperature (5)
Y	Low temperature mechanic thermostatic valve (6)
Z	Low temperatures mechanic thermostatic valve (7)
°	Standard mechanic thermostatic valve (8)
<b>12</b>	<b>Evaporator</b>
°	Standard
<b>13</b>	<b>Power supply</b>
M	230V ~ 50Hz (9)
°	400V 3N ~ 50Hz (10)

(1) Only for ANL 102 ÷ 202 sizes

(2) Only for ANL 050 ÷ 202 sizes

(3) If the unit is also fitted with one of the low temperature valves in addition to the desuperheater, it is necessary to always guarantee a water temperature of 35°C at the inlet of the heat exchanger. The desuperheater is only available in sizes from 050 to 090 in the version with storage tank "A", and from size 102 to 202 in all versions.

(4) Sizes from 102 to 202 have a micro-channel coil

(5) Water produced from -10 °C to 18 °C; Option available only for sizes starting from 050 to 090 in the °-A-Q versions and from 102 to 202 in all versions

(6) Water produced from 0 °C up to -10 °C

(7) Water produced from +4 °C up to +0 °C

(8) Water produced up to +4 °C

(9) Only for ANL 021 ÷ 041 sizes

(10) For all sizes

## PERFORMANCE SPECIFICATIONS

### ANL - ° (400V 3N ~ 50Hz / 230V ~ 50Hz)

Size		021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>												
<b>Cooling performance 12 °C / 7 °C (1)</b>												
Cooling capacity	kW	5,7	6,2	7,5	9,6	13,4	16,4	20,4	22,2	26,5	32,9	42,8
Input power	kW	1,9	2,0	2,5	3,3	4,1	4,9	6,4	6,8	8,0	10,2	13,5
Cooling total input current	A	3,70	4,20	4,70	6,20	8,70	9,70	12,20	12,80	15,60	18,80	24,70
EER	W/W	3,03	3,04	2,99	2,90	3,26	3,33	3,18	3,28	3,32	3,21	3,18
Water flow rate system side	l/h	979	1.065	1.289	1.649	2.302	2.835	3.522	3.831	4.570	5.670	7.388
Pressure drop system side	kPa	21	21	22	24	30	30	36	50	58	61	68

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

**ANL - P (400V 3N ~ 50Hz / 230V ~ 50Hz)**

Size		021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>												
<b>Cooling performance 12 °C / 7 °C (1)</b>												
Cooling capacity	kW	5,7	6,2	7,6	9,7	13,5	16,6	20,6	22,4	26,8	33,2	43,2
Input power	kW	1,8	2,0	2,5	3,2	4,1	4,9	6,4	6,7	8,1	10,5	13,8
Cooling total input current	A	4,00	4,50	5,10	6,60	9,30	10,40	12,90	13,50	16,70	20,60	26,70
EER	W/W	3,11	3,12	3,07	2,97	3,31	3,38	3,23	3,35	3,32	3,15	3,13
Water flow rate system side	l/h	979	1.065	1.289	1.649	2.302	2.835	3.522	3.831	4.570	5.670	7.388
Useful head system side	kPa	73	73	71	65	76	72	57	52	84	115	90

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

**ANL - N (400V 3N ~ 50Hz)**

Size		021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>												
<b>Cooling performance 12 °C / 7 °C (1)</b>												
Cooling capacity	kW	-	-	-	-	-	-	-	-	26,8	33,3	43,3
Input power	kW	-	-	-	-	-	-	-	-	8,5	10,6	13,8
Cooling total input current	A	-	-	-	-	-	-	-	-	17,70	21,20	27,40
EER	W/W	-	-	-	-	-	-	-	-	3,17	3,15	3,13
Water flow rate system side	l/h	-	-	-	-	-	-	-	-	4.570	5.670	7.388
Useful head system side	kPa	-	-	-	-	-	-	-	-	140	185	159

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

**ANL - A (400V 3N ~ 50Hz / 230V ~ 50Hz)**

Size		021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>												
<b>Cooling performance 12 °C / 7 °C (1)</b>												
Cooling capacity	kW	5,7	6,2	7,6	9,7	13,5	16,6	20,6	22,4	26,8	33,2	43,2
Input power	kW	1,8	2,0	2,5	3,2	4,1	4,9	6,4	6,7	8,1	10,5	13,8
Cooling total input current	A	4,00	4,50	5,10	6,60	9,30	10,40	12,90	13,50	16,70	20,60	26,70
EER	W/W	3,11	3,12	3,07	2,97	3,31	3,38	3,23	3,35	3,32	3,15	3,13
Water flow rate system side	l/h	979	1.065	1.289	1.649	2.302	2.835	3.522	3.831	4.570	5.670	7.388
Useful head system side	kPa	73	73	71	65	76	72	57	52	84	115	90

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

**ANL - Q (400V 3N ~ 50Hz)**

Size		021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>												
<b>Cooling performance 12 °C / 7 °C (1)</b>												
Cooling capacity	kW	-	-	-	-	13,6	16,7	20,7	22,5	26,8	33,3	43,3
Input power	kW	-	-	-	-	4,2	5,0	6,5	6,8	8,5	10,6	13,8
Cooling total input current	A	-	-	-	-	9,70	10,70	13,30	14,00	17,70	21,20	27,40
EER	W/W	-	-	-	-	3,24	3,33	3,19	3,31	3,17	3,15	3,13
Water flow rate system side	l/h	-	-	-	-	2.302	2.835	3.522	3.831	4.570	5.670	7.388
Useful head system side	kPa	-	-	-	-	160	159	144	140	140	185	159

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

**ENERGY INDICES (REG. 2016/2281 EU)**

Size			021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: M</b>													
<b>SEER - 12/7 (EN14825: 2018)</b>													
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-
	A,P	W/W	4,18	4,20	4,17	4,10	-	-	-	-	-	-	-
	N,Q	W/W	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-
	A,P	%	164,00	164,80	163,60	161,00	-	-	-	-	-	-	-
	N,Q	%	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	-	-	-
	A,P	type	FW/VO	FW/VO	FW/VO	FW/VO	-	-	-	-	-	-	-
	N,Q	type	-	-	-	-	-	-	-	-	-	-	-
<b>SEER - 23/18 (EN14825: 2018)</b>													
SEER	°	W/W	4,34	4,35	4,31	4,21	-	-	-	-	-	-	-
	A,P	W/W	4,49	4,51	4,48	4,47	-	-	-	-	-	-	-
	N,Q	W/W	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	170,40	170,90	169,20	165,20	-	-	-	-	-	-	-
	A,P	%	176,70	177,50	176,00	175,60	-	-	-	-	-	-	-
	N,Q	%	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°A,P	type	FW/FO	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-	-
	N,Q	type	-	-	-	-	-	-	-	-	-	-	-
<b>SEPR - (EN 14825: 2018)</b>													
SEPR	°	W/W	5,92	5,92	5,85	5,69	-	-	-	-	-	-	-
	A	W/W	6,56	6,57	6,45	6,21	-	-	-	-	-	-	-
	N,Q	W/W	-	-	-	-	-	-	-	-	-	-	-
	P	W/W	6,56	6,56	6,45	6,21	-	-	-	-	-	-	-
Water Regulation (1)	°A,P	type	FW/FO	FW/FO	FW/FO	FW/FO	-	-	-	-	-	-	-
	N,Q	type	-	-	-	-	-	-	-	-	-	-	-

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

Size			021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: °</b>													
<b>SEER - 12/7 (EN14825: 2018)</b>													
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-
	A,P	W/W	4,18	4,20	4,17	4,10	4,16	4,34	4,19	4,31	4,11	4,11	4,10
	N	W/W	-	-	-	-	-	-	-	-	-	-	-
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-
	A,P	%	164,00	164,80	163,60	161,00	163,40	170,70	164,60	169,40	161,30	161,20	161,10
	N	%	-	-	-	-	-	-	-	-	-	-	-
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	-	-	-
	A,P	type	FW/VO										
	N	type	-	-	-	-	-	-	-	-	-	-	-
SEER - 23/18 (EN14825: 2018)	°	W/W	4,34	4,35	4,31	4,21	4,55	4,68	4,49	4,61	4,83	4,73	4,69
	A,P	W/W	4,49	4,51	4,48	4,47	4,55	4,64	4,57	4,66	4,49	4,25	4,28
	N	W/W	-	-	-	-	-	-	-	-	4,15	4,18	4,23
Seasonal efficiency	°	%	170,40	170,90	169,20	165,20	179,10	184,30	176,60	181,50	190,30	186,00	184,70
	A,P	%	176,70	177,50	176,00	175,60	179,00	182,40	179,80	183,50	176,60	167,00	168,00
	N	%	-	-	-	-	-	-	-	-	163,10	164,20	166,00
Water Regulation (1)	°	type	-	-	-	-	164,30	174,50	171,10	176,70	163,10	164,20	166,00
	°A,P	type	FW/FO										
	N	type	-	-	-	-	-	-	-	-	FW/FO	FW/FO	FW/FO
SEPR - (EN 14825: 2018)	°	W/W	5,92	5,92	5,85	5,69	6,36	6,50	6,21	6,43	6,79	6,58	6,49
	A,P	W/W	6,56	6,57	6,45	6,21	6,74	6,90	6,55	6,78	6,68	6,18	6,17
	N	W/W	-	-	-	-	-	-	-	-	5,91	6,09	6,10
Water Regulation (1)	°	type	-	-	-	-	6,03	6,28	6,08	6,30	5,91	6,09	6,10
	°A,P	type	FW/FO										
	N	type	-	-	-	-	-	-	-	-	FW/FO	FW/FO	FW/FO

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.

## ELECTRIC DATA

Size			021	026	031	041	050	070	080	090	102	152	202
<b>Power supply: M</b>													
<b>Electric data</b>													
Maximum current (FLA)	°	A	13,0	16,0	18,0	22,0	-	-	-	-	-	-	-
	A,P	A	14,0	17,0	19,0	23,0	-	-	-	-	-	-	-
	N,Q	A	-	-	-	-	-	-	-	-	-	-	-
Peak current (LRA)	°	A	64,0	68,0	69,0	100,0	-	-	-	-	-	-	-
	A,P	A	62,0	69,0	70,0	101,0	-	-	-	-	-	-	-
	N,Q	A	-	-	-	-	-	-	-	-	-	-	-
<b>Power supply: °</b>													
<b>Electric data</b>													
Maximum current (FLA)	°	A	5,0	6,0	6,0	9,0	11,0	14,0	16,0	17,0	22,0	26,0	32,0
	A,P	A	6,0	7,0	7,0	10,0	13,0	15,0	18,0	19,0	23,0	28,0	34,0
	N	A	-	-	-	-	-	-	-	-	24,0	28,0	34,0
	Q	A	-	-	-	-	12,0	14,0	17,0	18,0	24,0	28,0	34,0
Peak current (LRA)	°	A	28,0	38,0	39,0	44,0	65,0	75,0	102,0	96,0	76,0	87,0	117,0
	A,P	A	29,0	39,0	40,0	45,0	67,0	77,0	104,0	98,0	77,0	89,0	119,0
	N	A	-	-	-	-	-	-	-	-	78,0	89,0	119,0
	Q	A	-	-	-	-	66,0	76,0	103,0	97,0	78,0	89,0	119,0

## GENERAL TECHNICAL DATA

### Refrigerant circuit

		ANL021	ANL026	ANL031	ANL041	ANL050	ANL070	ANL080	ANL090	ANL102	ANL152	ANL202
<b>Compressor</b>												
Type	type	Scroll										
Compressor regulation	Type	On-Off										
Number	no.	1	1	1	1	1	1	1	1	2	2	2
Circuits	no.	1	1	1	1	1	1	1	1	1	1	1
Refrigerant	type	R410A										
Total refrigerant charge (1)	kg	1,20	1,20	1,20	1,30	2,80	2,80	3,00	3,90	5,90	5,90	5,90
Potential global heating (GWP)		2088										
Equivalent CO <sub>2</sub>	tCO <sub>2</sub> eq	2,51	2,51	2,51	2,71	5,85	5,85	6,26	8,14	12,32	12,32	12,32

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

### System side heat exchanger

		ANL021	ANL026	ANL031	ANL041	ANL050	ANL070	ANL080	ANL090	ANL102	ANL152	ANL202
<b>System side heat exchanger</b>												
Type	type	Braze plate										
Number	no.	1	1	1	1	1	1	1	1	1	1	1
<b>System side hydraulic connections</b>												
Connections (in/out)	Type	Gas-F										
Sizes (in/out)	Ø	1"1/4										

### Fans

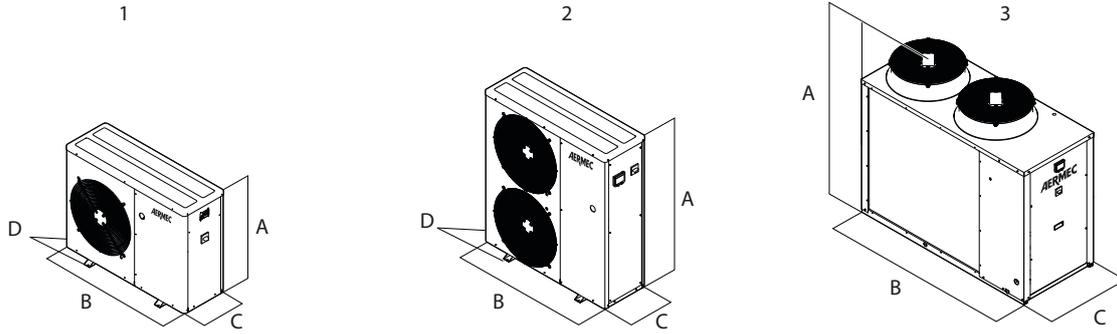
		ANL021	ANL026	ANL031	ANL041	ANL050	ANL070	ANL080	ANL090	ANL102	ANL152	ANL202
<b>Fan</b>												
Type	type	Axial										
Fan motor	type	Asynchronous with phase cut										
Number	no.	1	1	1	1	2	2	2	2	2	2	2
Air flow rate	m <sup>3</sup> /h	2.500	2.500	3.500	3.500	7.200	7.200	7.300	7.200	14.000	13.500	13.500

### Sound data

		ANL021	ANL026	ANL031	ANL041	ANL050	ANL070	ANL080	ANL090	ANL102	ANL152	ANL202
<b>Sound data calculated in cooling mode (1)</b>												
Sound power level	dB(A)	61,0	61,0	68,0	68,0	69,0	69,0	69,0	68,0	76,0	77,0	78,0
Sound pressure level (10 m)	dB(A)	29,8	29,8	36,8	36,8	37,6	37,6	37,6	36,6	44,5	45,5	46,5
Sound pressure level (1 m)	dB(A)	46,6	46,6	53,6	53,6	53,9	53,9	53,9	52,9	59,8	60,8	61,8

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

## DIMENSIONS



- 1 ANL 021-041
- 2 ANL 050-070
- 3 ANL 102-202

Size		021	026	031	041	050	070	080	090	102	152	202	
<b>Dimensions and weights</b>													
A	°P	mm	1.000	1.000	1.000	1.000	1.252	1.252	1.252	1.252	1.450	1.450	1.450
	A	mm	1.015	1.015	1.015	1.015	1.281	1.281	1.281	1.281	1.450	1.450	1.450
	N	mm	-	-	-	-	-	-	-	-	1.450	1.450	1.450
	Q	mm	-	-	-	-	1.281	1.281	1.281	1.281	1.450	1.450	1.450
B	°P	mm	900	900	900	900	1.124	1.124	1.124	1.124	1.750	1.750	1.750
	A	mm	1.124	1.124	1.124	1.124	1.165	1.165	1.165	1.165	1.750	1.750	1.750
	N	mm	-	-	-	-	-	-	-	-	1.750	1.750	1.750
	Q	mm	-	-	-	-	1.165	1.165	1.165	1.165	1.750	1.750	1.750
C	°P	mm	310	310	310	310	384	384	384	384	750	750	750
	A	mm	384	384	384	384	550	550	550	550	750	750	750
	N	mm	-	-	-	-	-	-	-	-	750	750	750
	Q	mm	-	-	-	-	550	550	550	550	750	750	750
D	°P	mm	354	354	354	354	428	428	428	428	-	-	-
	A	mm	428	428	428	428	-	-	-	-	-	-	-
	N	mm	-	-	-	-	-	-	-	-	-	-	-
	Q	mm	-	-	-	-	-	-	-	-	-	-	-
Empty weight	°	kg	86	86	86	86	120	120	120	156	270	293	329
	A	kg	103	103	103	103	147	147	147	183	338	364	400
	N	kg	-	-	-	-	-	-	-	-	338	364	400
	P	kg	91	91	91	91	127	127	163	163	288	314	350
	Q	kg	-	-	-	-	151	151	151	187	338	364	400

Aermec reserves the right to make any modifications deemed necessary.  
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

**Aermec S.p.A.**  
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia  
Tel. 0442633111 - Telefax 044293577  
www.aermec.com