

WS 0601 - 2802

Water cooled heat pump reversible water side

Cooling capacity 147 ÷ 700 kW
Heating capacity 164 ÷ 778 kW



- High efficiency all in Class A Eurovent
- Optimised for low condenser temperatures
- Optimised for geothermal applications
- Available also R513A (XP10) refrigerant gas



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water from 4 to 16°C, and the possibility to produce negative temperature water (down to -6°C) on the evaporator and hot water (up to 50 °C) on the condenser. (for more information, refer to the technical documentation).

Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop.

They are equipped with screw compressors and system and source side plate heat exchangers.

CONTROL PCO_s

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

Model	Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
AER48SP1	°L	*	*	*	*	*								
AER48SP1 x n° 2 (1)	°L						*	*	*	*	*	*	*	*
AERNET	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
PRV3	°L	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Evaporator: °													
°L	AVX651	AVX651	AVX652	AVX652	AVX656	AVX658	AVX658	AVX658	AVX659	AVX667	AVX661	AVX661	AVX661
Evaporator: E													
°L	AVX651	AVX651	AVX652	AVX652	AVX656	AVX658	AVX658	AVX658	AVX659	AVX667	AVX661	AVX661	AVX661

Power factor correction

Ver	0601	0701	0801	0901	1101	1202	1402
°L	-	RIF161	RIF161	RIF201	RIF241	RIF161 x2	RIF161 x2

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

Ver	1602	1802	2002	2202	2502	2802
°L	RIF161 x2	RIF201 x2	RIF201+RIF241	RIF241 x2	RIF301 x2	RIF301 x2

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Acoustic kit

Ver	0601	0701	0801	0901	1101	1202	1402
L	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

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

Ver	1602	1802	2002	2202	2502	2802
L	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

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CONFIGURATOR

Field	Description
1,2	WS
3,4,5,6	Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802
7	Operating yield
°	Standard mechanic thermostatic valve (1)
X	Electronic thermostatic expansion valve (1)
Y	Low temperature mechanic thermostatic valve (2)
Z	Low temperature electronic thermostatic valve (2)
8	Model
°	Heat pump reversible on the water side
9	Heat recovery
°	Without heat recovery
D	With desuperheater (3)
T	With total recovery (4)
10	Version
°	Standard

Field	Description
L	Standard silenced
11	Evaporator
°	Standard
E	Evaporating unit (5)
12	Power supply
°	400V ~ 3 50Hz with fuses
2	230V ~ 3 50Hz with fuses
4	230V ~ 3 50Hz with magnet circuit breakers
5	500V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers
9	500V ~ 3 50Hz with magnet circuit breakers

(1) Water produced from 4 °C ÷ 16 °C

(2) Water produced from 4 °C ÷ -6 °C; for the availability with the heat recovery we advise you to contact us

(3) In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.

(4) Option not available for condenserless unit.

(5) Shipped with holding charge only.

PERFORMANCE SPECIFICATIONS

WS - °L

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Cooling performance 12 °C / 7 °C (1)															
Cooling capacity	°L	kW	147,7	186,9	212,2	233,8	299,0	308,6	369,1	421,6	469,8	545,6	599,8	654,3	700,4
Input power	°L	kW	29,1	36,6	81,8	46,0	58,7	605,6	72,8	83,2	92,7	106,7	117,2	128,1	136,8
Cooling total input current	°L	A	56,0	67,0	74,0	83,0	95,0	110,0	133,0	149,0	167,0	179,0	190,0	219,0	235,0
EER	°L	W/W	5,08	5,11	5,07	5,08	5,09	5,10	5,07	5,06	5,07	5,11	5,12	5,11	5,12
Water flow rate source side	°L	l/h	30238	38269	43508	47922	61258	63078	75593	86332	96177	111478	122506	133608	142894
Pressure drop source side	°L	kPa	33	23	22	22	25	47	36	39	43	48	52	58	65
Water flow rate system side	°L	l/h	25421	32148	36495	40212	51431	53088	63476	72492	80788	93813	103143	112508	120438
Pressure drop system side	°L	kPa	23	17	15	16	18	33	25	27	30	33	35	39	44
Heating performance 40 °C / 45 °C (2)															
Heating capacity	°L	kW	164,9	208,7	237,3	261,4	334,0	343,7	412,1	470,6	524,2	607,2	667,2	727,6	778,0
Input power	°L	kW	36,8	46,3	52,9	58,1	74,2	76,9	92,2	105,5	117,7	135,5	148,8	162,8	174,1
Heating total input current	°L	A	70,0	84,0	94,0	105,0	120,0	138,0	168,0	188,0	210,0	225,0	240,0	275,0	296,0
COP	°L	W/W	4,48	4,51	4,49	4,50	4,50	4,47	4,47	4,46	4,46	4,48	4,48	4,47	4,47
Water flow rate system side	°L	l/h	28611	36218	41197	45370	57987	59660	71552	81718	91025	105442	115854	126347	135087
Pressure drop system side	°L	kPa	29	21	19	20	23	42	32	35	38	43	46	52	58
Water flow rate source side	°L	l/h	37525	47456	53873	59360	75920	78366	93702	107011	119257	138485	152256	166081	177787
Pressure drop source side	°L	kPa	49	37	33	34	39	73	54	59	65	72	77	85	96

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Performance specifications Evaporating units

WS - E

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Evaporator: E															
Cooling performance 12 °C / 7 °C (1)															
Cooling capacity	°L	kW	134,5	167,9	189,2	216,7	264,4	276,7	333,2	381,0	431,7	489,8	542,5	591,7	629,6
Input power	°L	kW	34,7	42,2	48,2	55,0	67,0	69,3	84,4	96,5	109,9	122,0	134,1	146,8	157,0
Cooling total input current	°L	A	63,0	75,0	85,0	96,0	111,0	127,0	151,0	170,0	192,0	207,0	222,0	252,0	270,0
EER	°L	W/W	3,88	3,98	3,92	3,94	3,94	3,99	3,95	3,95	3,93	4,01	4,05	4,03	4,01
Water flow rate system side	°L	l/h	23108	28849	32512	37238	45248	47546	57251	65458	74169	84147	93212	101661	108175
Pressure drop system side	°L	kPa	18	13	12	12	14	25	19	20	23	25	27	30	34

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
SEER - 12/7 (EN14825: 2018) (1)															
SEER	°L	W/W	5,58	5,80	6,09	6,04	5,96	6,22	6,24	6,39	6,39	6,38	6,38	6,42	6,39
Seasonal efficiency	°L	%	220,2%	229,0%	240,6%	238,6%	235,2%	245,7%	246,6%	252,5%	252,6%	252,1%	252,2%	253,9%	252,7%
SEPR - (EN 14825: 2018) High temperature (2)															
SEPR	°L	W/W	-	-	-	-	7,77	7,97	7,99	8,11	8,01	8,04	8,01	8,05	8,01
UE 813/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ° 400 kW (3)															
Pdesignh	°L	kW	229	290	330	363	-	-	-	-	-	-	-	-	-
SCOP	°L		5,98	6,10	6,30	6,25	-	-	-	-	-	-	-	-	-
ηsh	°L	%	231,0%	236,0%	244,0%	242,0%	-	-	-	-	-	-	-	-	-

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

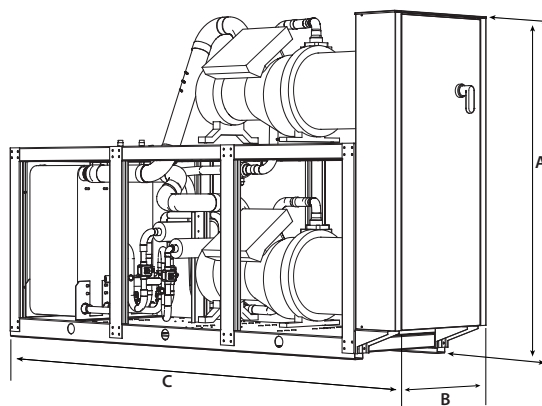
Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Electric data															
Maximum current (FLA)	°L	A	90,7	98,0	112,0	128,0	156,0	168,0	196,0	224,0	256,0	284,0	312,0	354,0	380,0
Peak current (LRA)	°L	A	147,0	140,0	163,0	192,0	246,0	194,1	198,5	228,0	262,6	316,6	324,7	388,1	448,1

GENERAL TECHNICAL DATA

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Compressor															
Type	°L	type	Screw												
Compressor regulation	°L	Type	On-Off												
Number	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Circuits	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Refrigerant	°L	type	R134a												
Refrigerant charge	°L	kg	18,0	22,0	22,0	25,0	38,0	36,0	42,0	44,0	50,0	59,0	68,0	70,0	80,0
System side heat exchanger															
Type	°L	type	Braze plate												
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Source side heat exchanger															
Type	°L	type	Braze plate												
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
System side hydraulic connections															
Connections (in/out)	°L	Type	Grooved joints												
Sizes (in/out)	°L	Ø	3"												
Source side hydraulic connections															
Connections (in/out)	°L	Type	Grooved joints												
Sizes (in/out)	°L	Ø	3"												
Sound data calculated in cooling mode (1)															
Sound power level	°	dB(A)	86,1	86,8	87,1	87,8	87,1	89,1	89,8	90,1	90,8	90,5	90,1	91,3	91,8
	L	dB(A)	78,1	78,8	79,1	79,9	78,1	81,1	81,8	82,1	82,9	82,1	81,1	83,4	84,1
Sound pressure level (10 m)	°	dB(A)	54,3	55,0	55,3	56,0	55,3	57,2	57,9	58,3	59,0	58,6	58,2	59,3	59,9
	L	dB(A)	46,3	47,0	47,3	48,1	46,3	49,2	50,0	50,2	51,0	50,2	49,2	51,5	52,2

(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



Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Dimensions and weights															
A	°	mm	1775	1775	1775	1775	1775	1975	1975	1975	2005	1985	2065	2065	2065
	L	mm	1775	1775	1775	1775	1775	2120	2120	2120	2120	2120	2120	2120	2120
B	°L	mm	810	810	810	810	810	810	810	810	810	810	810	810	810
C	°L	mm	2960	2960	2960	2960	3360	2960	2960	2960	2960	3360	3360	3360	3360
Empty weight	°	kg	1101	1251	1301	1357	1788	1738	2071	2140	2212	2648	3050	3131	3131
	L	kg	1229	1379	1429	1485	1934	1966	2299	2368	2440	2905	3307	3388	3388

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.

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Heating capacity 165 ÷ 778 kW

- High efficiency all in Class A Eurovent
- Unit optimised for high condenser temperatures.
- Optimised for geothermal applications
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Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

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FEATURES

Operating field

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Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop. They are equipped with screw compressors and system and source side plate heat exchangers.

Integral acoustic enclosure

For all versions, if required, it is available the integral acoustic enclosure, which can further reduce the sound level.

CONTROL PCO_s

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages. Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

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PRV3: Allows you to control the chiller at a distance.

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FACTORY FITTED ACCESSORIES

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ACCESSORIES COMPATIBILITY

Model	Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
AER48SP1	°L	*	*	*	*	*								
AER48SP1 x n° 2 (1)	°L						*	*	*	*	*	*	*	*
AERNET	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
PRV3	°L	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Version	Heat recovery	Evaporator	0601	0701	0801	0901	1101	1202	1402
°	°	°	AVX651	AVX651	AVX652	AVX652	AVX656	AVX658	AVX658
°	°D	E	-	AVX668	AVX668	AVX668	AVX669	-	AVX670
°	D	°	-	AVX651	AVX652	AVX652	AVX654	AVX658	AVX658
°	T	°	-	AVX652	AVX655	AVX655	AVX657	-	AVX662
°	T	E	-	-	-	-	-	-	-
L	°	°	AVX651	AVX651	AVX652	AVX652	AVX656	AVX658	AVX658
L	°D	E	-	AVX668	AVX668	AVX668	AVX669	-	AVX670
L	D	°	-	AVX651	AVX652	AVX652	AVX654	AVX658	AVX658
L	T	°	-	AVX652	AVX655	AVX655	AVX657	-	AVX662
L	T	E	-	-	-	-	-	-	-

Version	Heat recovery	Evaporator	1602	1802	2002	2202	2502	2802
°	°	°	AVX658	AVX659	AVX667	AVX661	AVX661	AVX661
°	°	E	AVX670	AVX670	AVX671	AVX672	AVX672	AVX672
°	D,T	°E	-	-	-	-	-	-
L	°	°	AVX658	AVX659	AVX667	AVX661	AVX661	AVX661
L	°	E	AVX670	AVX670	AVX671	AVX672	AVX672	AVX672
L	D,T	°E	-	-	-	-	-	-

Power factor correction

Ver	0601	0701	0801	0901	1101	1202	1402
°L	-	RIF161	RIF161	RIF201	RIF241	-	RIF161 x2

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Ver	1602	1802	2002	2202	2502	2802
°L	RIF161 x2	RIF201 x 2	RIF201+RIF241	RIF241 x2	RIF301 x2	RIF301 x2

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Acoustic kit

Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
L	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

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CONFIGURATOR

Field	Description
1,2,3	HWS
4,5,6,7	Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802
8	Operating yield
°	Standard mechanic thermostatic valve
X	Electronic thermostatic expansion valve
9	Model
°	Heat pump reversible on the water side
10	Heat recovery
°	Without heat recovery
D	With desuperheater (1)
T	With total recovery (2)
11	Version
°	Standard
L	Standard silenced

Field	Description
12	Evaporator
°	Standard
E	Evaporating unit (3)
13	Power supply
°	400V ~ 3 50Hz with fuses
2	230V ~ 3 50Hz with fuses
4	230V ~ 3 50Hz with magnet circuit breakers
5	500V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers
9	500V ~ 3 50Hz with magnet circuit breakers

- (1) In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet. The desuperheater is not available for size for 0601 to 1202 and from 1602 to 2802.
 (2) The desuperheater and total recovery are not available for sizes 0601 and 1202 and size up 1602 to 2802; T are not compatible with E
 (3) Shipped with holding charge only. Option not available for size 0601 and 1202.

PERFORMANCE SPECIFICATIONS

HWS - °L

Size			0601	0701	0801	0901	1101	1202	1402
Cooling performance 12 °C / 7 °C (1)									
Cooling capacity	°L	kW	146,7	178,8	212,7	233,7	293,7	293,7	356,6
Input power	°L	kW	31,7	38,0	43,2	49,2	59,7	63,5	76,8
Cooling total input current	°L	A	56,0	66,0	74,0	82,0	101,0	112,0	132,0
EER	°L	W/W	4,63	4,70	4,92	4,75	4,92	4,62	4,64
Water flow rate source side	°L	l/h	30474	37085	43795	48419	60454	60948	73996
Pressure drop source side	°L	kPa	40	27	27	26	31	53	50
Water flow rate system side	°L	l/h	25256	30754	36596	40204	50513	50513	61337
Pressure drop system side	°L	kPa	29	20	20	19	23	38	36
Heating performance 40 °C / 45 °C (2)									
Heating capacity	°L	kW	163,9	199,3	234,8	260,1	324,0	327,5	397,5
Input power	°L	kW	38,0	45,4	51,6	58,8	71,4	76,3	92,2
Heating total input current	°L	A	66,0	78,0	88,0	97,0	120,0	133,0	157,0
COP	°L	W/W	4,31	4,39	4,55	4,42	4,54	4,29	4,31
Water flow rate source side	°L	l/h	36968	45016	53566	58847	73936	73936	89780
Pressure drop source side	°L	kPa	62	43	43	41	49	81	77
Water flow rate system side	°L	l/h	28421	34581	40752	45134	56255	56843	69010
Pressure drop system side	°L	kPa	35	23	23	23	27	46	43

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Size			1602	1802	2002	2202	2502	2802
Heating performance 40 °C / 45 °C (1)								
Heating capacity	°L	kW	465,7	522,8	584,8	646,9	730,9	799,6
Input power	°L	kW	104,0	121,3	133,2	145,1	165,9	181,5
Heating total input current	°L	A	176,0	195,0	218,0	241,0	277,0	280,0
COP	°L	W/W	4,48	4,31	4,39	4,46	4,41	4,40
Water flow rate source side	°L	l/h	106378	118198	133036	147873	166735	182932
Pressure drop source side	°L	kPa	86	88	96	103	114	137
Water flow rate system side	°L	l/h	80851	90770	101543	112315	126902	138328
Pressure drop system side	°L	kPa	48	50	54	58	65	79

(1) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Performance specifications Evaporating units

HWS - E

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Evaporator: E															
Cooling performance 12 °C / 7 °C (1)															
Cooling capacity	°L	kW	-	163,0	192,0	212,0	263,0	-	326,0	385,0	428,0	481,0	539,0	601,0	676,0
Input power	°L	kW	-	41,0	47,0	54,0	66,0	-	82,0	93,0	108,0	120,0	132,0	146,0	159,0
Cooling total input current	°L	A	-	72,0	81,0	90,0	113,0	-	144,0	162,0	180,0	204,0	226,0	254,0	272,0
EER	°L	W/W	-	3,98	4,09	3,93	3,98	-	3,98	4,14	3,96	4,01	4,08	4,12	4,25
Water flow rate system side	°L	l/h	-	28005	32988	36424	45186	-	56011	66147	73535	82641	92606	103259	116144
Pressure drop system side	°L	kPa	-	20	20	19	23	-	36	40	41	45	48	53	62

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size			0601	0701	0801	0901	1101	1202	1402
SEER - 12/7 (EN14825: 2018) (1)									
SEER	°L	W/W	5,01	5,28	5,57	5,43	5,59	5,36	5,42
Seasonal efficiency	°L	%	197,4%	208,2%	219,8%	214,2%	220,6%	211,4%	213,6%
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ° 400 kW (2)									
Pdesignh	°L	kW	215	257	293	330	-	-	-
SCOP	°L		4,55	4,60	4,73	4,58	-	-	-
ηsh	°L	%	174,0%	176,0%	181,0%	175,0%	-	-	-

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

(2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

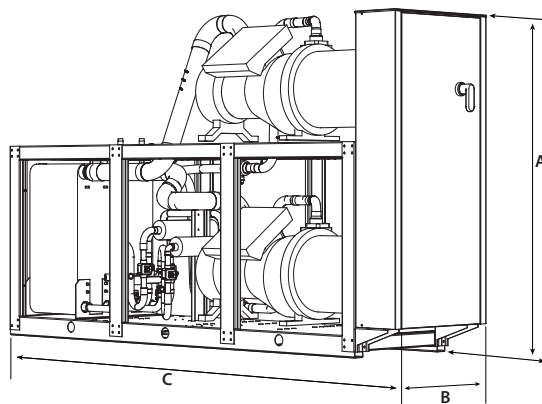
Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Electric data															
Maximum current (FLA)	°L	A	105,0	124,0	144,0	162,0	182,0	210,0	248,0	288,0	324,0	344,0	364,0	430,0	430,0
Peak current (LRA)	°L	A	180,0	163,0	192,0	229,0	300,0	285,0	287,0	336,0	391,0	462,0	482,0	575,0	575,0

GENERAL TECHNICAL DATA

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Compressor															
Type	°L	type							Screw						
Compressor regulation	°L	Type							On-Off						
Number	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Circuits	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Refrigerant	°L	type							R134a						
System side heat exchanger															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Source side heat exchanger															
Type	°L	type							Brazed plate						
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
System side hydraulic connections															
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø							3"						
Source side hydraulic connections															
Connections (in/out)	°L	Type							Grooved joints						
Sizes (in/out)	°L	Ø							3"						
Sound data calculated in cooling mode (1)															
Sound power level	°	dB(A)	85,0	86,0	86,0	86,0	92,0	88,0	89,0	89,0	89,0	93,0	95,0	95,0	95,0
	L	dB(A)	77,0	78,0	78,0	78,0	84,0	80,0	81,0	81,0	81,0	85,0	87,0	87,0	87,0
Sound pressure level (10 m)	°	dB(A)	53,2	54,2	54,2	54,2	60,2	56,2	57,2	57,2	57,2	61,1	63,1	63,1	63,1
	L	dB(A)	45,2	46,2	46,2	46,2	52,2	48,1	49,1	49,1	49,1	53,1	55,1	55,1	55,1

(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



Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Dimensions and weights															
A	°	mm	1775	1775	1775	1775	1775	1975	1975	1975	2005	1985	2065	2065	2065
	L	mm	1775	1775	1775	1775	1775	2120	2120	2120	2120	2120	2120	2120	2120
B	°L	mm	810	810	810	810	810	810	810	810	810	810	810	810	810
C	°L	mm	2960	2960	2960	2960	3360	2960	2960	2960	2960	3360	3360	3360	3360
Empty weight	°L	kg	1101	1251	1301	1357	1788	1738	2028	2097	2169	2598	3000	3095	3095

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HWSG

Water cooled heat pump reversible water side

Cooling capacity 110 ÷ 396 kW
Heating capacity 122 ÷ 595 kW

- Use of the new ecological gas R1234ze
- Unit optimised for high condenser temperatures.
- Production of hot water from condenser up to 65° C.



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Production of chilled water up to 4°C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 65°C.

Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop.

They are equipped with screw compressors and system and source side plate heat exchangers dedicated to use of the new HFO R1234ze gas.

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430, with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL

pCO⁵ control type

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

ACCESSORIES COMPATIBILITY

Model	Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
AER48SP1	°L	*	*	*	*	*								
AER48SP1 x n° 2 (1)	°L						*	*	*	*	*	*	*	*
AERNET	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°L	*	*	*	*	*	*	*	*	*	*	*	*	*
PRV3	°L	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
°L	AVX651	AVX651	AVX652	AVX652	AVX656	AVX658	AVX658	AVX658	AVX659	AVX667	AVX661	AVX661	AVX661

CONFIGURATOR

Field	Description
1,2,3,4	HWSG
5,6,7,8	Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802
9	Operating yield
X	Electronic thermostatic expansion valve (1)
10	Model
°	Optimised for high condenser temperatures
11	Heat recovery (2)
°	Without heat recovery
D	With desuperheater
T	With total recovery
12	Version
°	Standard
L	Standard silenced
13	Evaporator
°	Standard
14	Power supply
°	400V ~ 3 50Hz with fuses

(1) Water produced from 4 °C ÷ 16 °C

(2) Order management

PERFORMANCE SPECIFICATIONS

HWSG - °/L

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002
Cooling performance 12 °C / 7 °C (1)												
Cooling capacity	°L	kW	110,5	135,1	156,5	176,0	215,8	221,7	271,4	315,9	354,9	396,8
Input power	°L	kW	23,2	27,7	31,3	35,6	43,2	46,2	57,0	63,9	73,6	80,7
Cooling total input current	°L	A	48,0	55,0	61,0	66,0	82,0	96,0	111,0	122,0	132,0	149,0
EER	°L	W/W	4,77	4,87	5,00	4,94	4,99	4,80	4,76	4,94	4,82	4,92
Water flow rate system side	°L	l/h	19007	23236	26907	30255	37102	38143	46690	54329	61030	68240
Pressure drop system side	°L	kPa	16	11	10	11	12	24	32	21	23	25
Water flow rate source side	°L	l/h	22875	27903	32183	36261	44378	45808	56089	64986	73289	81668
Pressure drop source side	°L	kPa	23	16	15	15	17	34	47	31	34	36
Heating performance 40 °C / 45 °C (2)												
Heating capacity	°L	kW	122,8	149,7	172,4	194,4	237,8	245,8	301,0	348,2	393,1	437,6
Input power	°L	kW	27,7	33,1	37,3	42,5	51,6	55,2	68,3	76,4	88,0	96,5
Heating total input current	°L	A	58,0	65,0	72,0	78,0	97,0	114,0	131,0	145,0	157,0	176,0
COP	°L	W/W	4,43	4,52	4,62	4,57	4,61	4,45	4,41	4,56	4,47	4,53
Water flow rate system side	°L	l/h	21319	25989	29942	33756	41288	42668	52248	60463	68263	75995
Pressure drop system side	°L	kPa	20	14	13	13	15	29	41	27	30	31
Water flow rate source side	°L	l/h	27820	34012	39384	44285	54307	55832	68342	79522	89331	99885
Pressure drop source side	°L	kPa	35	24	22	23	26	50	69	46	50	54

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Size			2202	2502	2802
Heating performance 40 °C / 45 °C (1)					
Heating capacity	°L	kW	488,6	540,8	595,5
Input power	°L	kW	106,1	119,3	131,9
Heating total input current	°L	A	196,0	225,0	240,0
COP	°L	W/W	4,60	4,53	4,52
Water flow rate system side	°L	l/h	84852	93902	103410
Pressure drop system side	°L	kPa	34	37	45
Water flow rate source side	°L	l/h	112042	123541	136133
Pressure drop source side	°L	kPa	58	62	75

(1) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002
SEER - 12/7 (EN14825: 2018) (1)												
Seasonal efficiency	°L	%	205,9%	214,4%	222,6%	221,7%	221,9%	210,8%	211,5%	228,3%	223,0%	226,4%
SEER	°L	W/W	5,22	5,44	5,64	5,62	5,62	5,35	5,36	5,78	5,65	5,74
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ° 400 kW (2)												
Pdesignh	°L	kW	155	188	217	245	299	309	379	-	-	-
SCOP	°L		4,52	4,62	4,72	4,69	4,69	4,63	4,60	-	-	-
ηsh	°L	%	173.0%	177.0%	181.0%	179.0%	181.0%	177.0%	176.0%	-	-	-

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

(2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Electric data															
Maximum current (FLA)	°L	A	75,6	95,6	104,4	115,9	143,2	151,2	191,2	208,8	231,8	259,1	286,4	323,8	352,0
Peak current (LRA)	°L	A	180,0	163,0	192,0	229,0	267,0	255,6	258,6	296,4	344,9	372,2	410,2	475,9	490,0

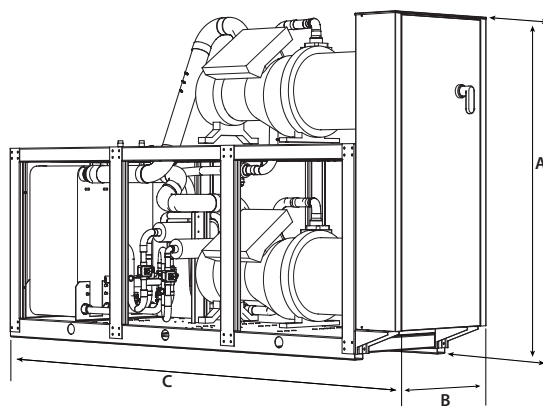
GENERAL TECHNICAL DATA

Size															
Compressor															
Type	°L	type	Screw												
Compressor regulation	°L	Type	On/Off												
Number	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Circuits	°L	no.	1	1	1	1	1	2	2	2	2	2	2	2	2
Refrigerant	°L	type	R1234ze												
Refrigerant load circuit 1	°L	kg	18,0	20,0	22,0	25,0	38,0	18,0	20,5	21,5	25,0	25,0	33,0	35,0	39,0
Refrigerant load circuit 2	°L	kg	-	-	-	-	-	18,0	20,0	22,0	25,0	30,0	18,0	20,5	21,5
System side heat exchanger															
Type	°L	type	Brazen plate												
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
Source side heat exchanger															
Type	°L	type	Brazen plate												
Number	°L	no.	1	1	1	1	1	1	1	1	1	1	1	1	1
System side hydraulic connections															
Connections (in/out)	°L	Type	Grooved joints												
Size (in) (1)	°L	Ø	3"												
Size (out) (1)	°L	Ø	3"												
Source side hydraulic connections															
Connections (in/out)	°L	Type	Grooved joints												
Size (in)	°L	Ø	3"												
Size (out)	°L	Ø	3"												
Sound data calculated in cooling mode (2)															
Sound power level	°	dB(A)	87,0	86,0	86,0	86,0	92,0	89,0	90,0	89,0	89,0	93,0	95,0	95,0	95,0
	L	dB(A)	78,9	78,0	78,0	78,0	84,0	81,0	81,9	81,0	81,0	85,0	87,0	87,0	87,0
Sound pressure level (10 m)	°	dB(A)	55,2	54,2	54,2	54,2	60,2	57,2	58,1	57,2	57,2	61,1	63,1	63,1	63,1
	L	dB(A)	47,1	46,2	46,2	46,2	52,2	49,1	50,0	49,1	49,1	53,1	55,1	55,1	55,1

(1) Diametro

(2) 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



Size			0601	0701	0801	0901	1101	1202	1402	1602	1802	2002	2202	2502	2802
Dimensions and weights															
A	°	mm	1775	1775	1775	1775	1775	1975	1975	1975	2005	1985	2065	2065	2065
	L	mm	1775	1775	1775	1775	1775	2120	2120	2120	2120	2120	2120	2120	2120
B	°L	mm	810	810	810	810	810	810	810	810	810	810	810	810	810
C	°L	mm	2960	2960	2960	2960	3360	2960	2960	2960	2960	3360	3360	3360	3360
Empty weight	°	kg	1101	1251	1301	1357	1788	1738	2028	2097	2169	2598	3000	3095	3095
	L	kg	1229	1379	1429	1485	1934	1966	2256	2325	2397	2855	3257	3352	3352

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WSH

Reversible water-cooled heat pump, gas side

Cooling capacity 165,8 ÷ 269,7 kW
Heating capacity 183,3 ÷ 300,3 kW

- Reversing valve
- Optional electronic expansion valve which allows: cooling down to -6 °C
- Modulating capacity control 25-100%



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

High-efficiency screw compressors, with silent functioning and with cooling capacity adjustment via continuous modulation from 40 to 100%. (25-100% with electronic valve OPTION which is to be requested when placing the order)

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water 4-16 °C, and the possibility to produce also negative temperature water down to -6 °C for the evaporator and hot water for the condenser up to 55 °C.

(for more information, refer to the technical documentation).

CONTROL PCO_s

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

ACCESSORIES COMPATIBILITY

Model	Ver	0701	0801	0901	1101
AER485P1	°L	•	•	•	•
AERNET	°L	•	•	•	•
MULTICHILLER_EVO	°L	•	•	•	•
PRV3	°L	•	•	•	•

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

Antivibration

Ver	0701	0801	0901	1101
°L	AVX665	AVX665	AVX665	AVX666

Power factor correction

Ver	0701	0801	0901	1101
°L	RIF161	RIF161	RIF201	RIF241

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

Acoustic kit

Ver	0701	0801	0901	1101
L	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

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

CONFIGURATOR

Field	Description
1,2,3	WSH
4,5,6,7	Size 0701, 0801, 0901, 1101
8	Operating yeld
°	Standard mechanic thermostatic valve (1)
X	Low temperature electronic thermostatic valve (2)
9	Model
°	Reversible heat pump, gas side
10	Heat recovery
°	Without heat recovery
D	With desuperheater (3)
11	Version
°	Standard
L	Standard silenced
12	Condenser
°	PED regulation
13	Power supply
°	400V ~ 3 50Hz
2	230V ~ 3 50Hz with fuses
4	230V ~ 3 50Hz with magnet circuit breakers
5	500V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers
9	500V ~ 3 50Hz with magnet circuit breakers

(1) Water produced up to +4 °C

(2) Water produced up to +4 °C. For different temperature please contact the factory.

(3) In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.

PERFORMANCE SPECIFICATIONS

WSH - °L

Size			0701	0801	0901	1101
Cooling performance 12 °C / 7 °C (1)						
Cooling capacity	°L	kW	165,8	195,7	216,7	269,7
Input power	°L	kW	37,1	42,3	48,3	58,8
Cooling total input current	°L	A	65,0	73,0	81,0	100,0
EER	°L	W/W	4,47	4,63	4,48	4,59
Water flow rate source side	°L	l/h	34669	40687	45310	56133
Pressure drop source side	°L	kPa	30	31	30	36
Water flow rate system side	°L	l/h	28521	33675	37283	46389
Pressure drop system side	°L	kPa	23	24	22	27
Heating performance 40 °C / 45 °C (2)						
Heating capacity	°L	kW	183,3	210,3	237,3	300,3
Input power	°L	kW	45,4	51,6	58,7	74,4
Heating total input current	°L	A	81,0	91,0	101,0	131,0
COP	°L	W/W	4,04	4,08	4,05	4,03
Water flow rate source side	°L	l/h	40419	46517	52342	66297
Pressure drop source side	°L	kPa	42	42	39	51
Water flow rate system side	°L	l/h	31805	36498	41190	52140
Pressure drop system side	°L	kPa	24	23	23	29

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size			0701	0801	0901	1101
SEER - 12/7 (EN14825: 2018) (1)						
SEER	°L	W/W	5,04	5,47	5,29	5,11
Seasonal efficiency	°L	%	198,6%	215,8%	208,6%	201,3%
UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ° 400 kW (2)						
Pdesignh	°L	kW	249	285	322	-
SCOP	°L		4,20	4,25	4,23	-
ηsh	°L	%	160.0%	162.0%	161.0%	-

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

(2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

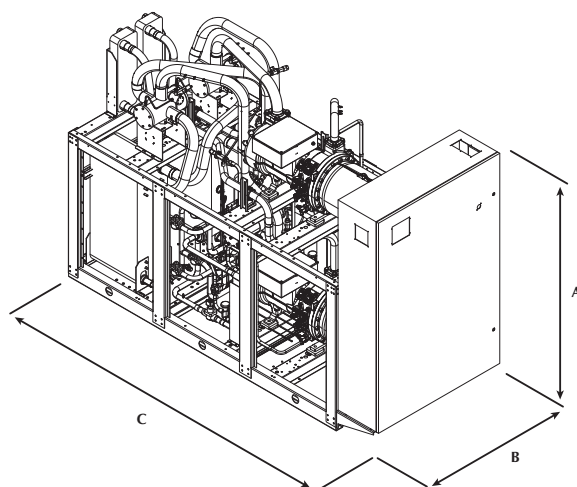
Size			0701	0801	0901	1101
Electric data						
Maximum current (FLA)	°L	A	124,0	144,0	162,0	182,0
Peak current (LRA)	°L	A	163,0	192,0	229,0	300,0

GENERAL TECHNICAL DATA

Size			0701	0801	0901	1101
Compressor						
Type	°L	type			Bi-vite	
Compressor regulation	°L	Type			On-Off	
Number	°L	no.	1	1	1	1
Circuits	°L	no.	1	1	1	1
Refrigerant	°L	type			R134a	
System side heat exchanger						
Type	°L	type			Brazed plate	
Number	°L	no.	1	1	1	1
Connections (in/out)	°L	Type			Grooved joints	
Sizes (in/out)	°L	Ø			3"	
Source side heat exchanger						
Type	°L	type			Brazed plate	
Number	°L	no.	1	1	1	1
Connections (in/out)	°L	Type			Grooved joints	
Sizes (in/out)	°L	Ø			3"	
Sound data calculated in cooling mode (1)						
Sound power level	°	dB(A)	86,0	86,0	86,0	92,0
	L	dB(A)	78,0	78,0	78,0	84,0
Sound pressure level (10 m)	°	dB(A)	54,1	54,1	54,1	60,1
	L	dB(A)	46,1	46,1	46,1	52,1

(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



Size			0701	0801	0901	1101
Dimensions and weights						
A	°	mm	2050	2050	2050	2050
	L	mm	2120	2120	2120	2120
B	°L	mm	809	809	809	809
	°L	mm	2960	2960	2960	3360
Empty weight	°	kg	1391	1443	1506	1946
	L	kg	1622	1674	1737	2206

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.

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WFGI

Water cooled heat pump reversible water side

Cooling capacity 670 ÷ 2406 kW
Heating capacity 741 ÷ 2664 kW

- Production of hot water from condenser up to 65° C.
- Production of chilled water down to -8° C.



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 20 °C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 65 °C depending on the model.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Bi-tri circuit unit

Unit with 2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

All units are equipped with an inverter compressor combined with an on-off compressor (two-circuit sizes) or two on/off compressors (three-circuit sizes).

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

IS: Condenser isolating valves. Mandatory accessory for units operating in heat pump mode. Factory fitted only.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

Model	Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
AER48SP1 x n° 2 (1)	A	*	*	*	*	*	*	*	*				
AER48SP1 x n° 3 (1)	°,A												
AERNET	°									*	*	*	*
AERSET	A	*	*	*	*	*	*	*	*	*	*	*	*
	°									*	*	*	*
MULTICHILLER_EVO	A	*	*	*	*	*	*	*	*	*	*	*	*
	°									*	*	*	*
PRV3	A	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	AVX (1)	AVX (1)	AVX (1)	AVX (1)
A	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

Power factor correction

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	RIF (1)	RIF (1)	RIF (1)	RIF (1)
A	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)

(1) Contact the factory

The accessory cannot be fitted on the configurations indicated with -

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

For the size of the units with the RIF accessory we ask you to contact the headquarters.

Isolating kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	IS (1)	IS (1)	IS (1)	IS (1)
A	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

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

Acoustic kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	AKW (1)	AKW (1)	AKW (1)	AKW (1)
A	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

The accessory cannot be fitted on the configurations indicated with -

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

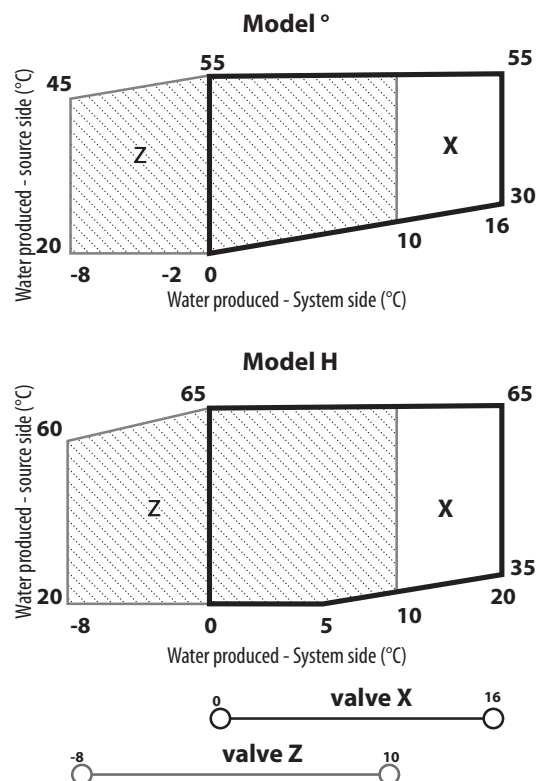
CONFIGURATOR

Field	Description
1,2,3,4	WFGI
5,6,7,8	Size 2502, 2802, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603
9	Model
°	Standard condensation
H	Optimised for high condensation
10	Version
°	Standard (1)
A	High efficiency
11	Operating field
X	Electronic thermostatic expansion valve
Z	Double electronic thermostatic for low temperature
12	Set-up

Field	Description
°	Standard without hood
L	Silenced with hood
13	Heat recovery
°	Without heat recovery
D	With desuperheater
T	With total recovery
14	Evaporator
°	Standard
E	Evaporating unit
15	Power supply
°	400V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers

(1) Only for sizes from 6703 to 9603

OPERATING LIMITS



MODEL PERFORMANCE DATA (°) - FOR CONDENSING TEMPERATURES UP TO 55°C

WFGI - model (°) version A

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	506,3	571,0	664,9	737,9	869,3	989,2	1096,6	1223,1	1323,2	1463,2	1605,2	1765,9
Input power	kW	96,8	107,6	125,2	143,4	166,7	185,8	206,7	234,8	238,3	265,7	299,4	337,5
Cooling total input current	A	171,0	192,0	215,0	245,0	273,0	311,0	346,0	396,0	407,0	468,0	519,0	591,0
EER	W/W	5,23	5,31	5,31	5,15	5,22	5,32	5,30	5,21	5,55	5,51	5,36	5,23
Water flow rate source side	l/h	102932	115945	135099	150773	177155	200809	223021	249142	267794	296179	326287	360505
Pressure drop source side	kPa	61	55	46	30	45	50	36	51	11	24	23	22
Water flow rate system side	l/h	87066	98181	114326	126885	149451	170077	188509	210265	227441	251516	275910	303500
Pressure drop system side	kPa	45	35	33	41	32	44	34	43	26	31	29	17
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	564,4	631,4	731,6	821,0	966,2	1093,4	1212,3	1370,1	1454,7	1611,8	1770,0	1960,8
Input power	kW	124,9	136,1	155,8	181,8	211,1	235,7	260,5	299,0	300,1	334,7	374,9	420,6
Heating total input current	A	218,0	241,0	264,0	306,0	343,0	390,0	431,0	498,0	507,0	582,0	643,0	732,0
COP	W/W	4,52	4,64	4,70	4,52	4,58	4,64	4,65	4,58	4,85	4,82	4,72	4,66
Water flow rate system side	l/h	97998	109633	127054	142602	167814	189909	210585	237978	252762	280014	307509	340678
Pressure drop system side	kPa	56	50	41	27	41	45	32	46	10	22	20	20
Water flow rate source side	l/h	129450	145407	168838	187634	221376	252011	278815	314719	336930	373381	407768	449226
Pressure drop source side	kPa	99	76	73	89	70	96	73	96	56	69	63	37

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI - model (°) version °

Size		6703	7203	8403	9603
Model: °					
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1309,2	1445,9	1559,4	1729,0
Input power	kW	242,2	267,6	299,6	340,9
Cooling total input current	A	396,0	475,0	525,0	588,0
EER	W/W	5,40	5,40	5,20	5,07
Water flow rate source side	l/h	265488	293277	318297	354161
Pressure drop source side	kPa	44	39	34	41
Water flow rate system side	l/h	225045	248539	268020	297184
Pressure drop system side	kPa	27	29	22	26
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1443,5	1597,2	1729,1	1928,5
Input power	kW	304,0	336,2	373,6	425,5
Heating total input current	A	493,0	592,0	650,0	729,0
COP	W/W	4,75	4,75	4,63	4,53
Water flow rate system side	l/h	250744	277455	300382	335030
Pressure drop system side	kPa	39	35	30	37
Water flow rate source side	l/h	333379	368962	396107	439877
Pressure drop source side	kPa	59	64	49	58

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
SEER - 12/7 (EN14825: 2018) (1)													
Seasonal efficiency	°	%	-	-	-	-	-	-	-	335,7%	337,9%	329,7%	326,0%
	A	%	340,8%	345,4%	342,7%	347,3%	346,2%	347,8%	355,7%	349,1%	355,8%	354,5%	349,3%
SEER	°	W/W	-	-	-	-	-	-	-	8,47	8,52	8,32	8,23
	A	W/W	8,60	8,71	8,64	8,76	8,73	8,77	8,97	8,80	8,97	8,94	8,81

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

Electric data

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Electric data													
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	682,4	765,6	849,2	957,6
	A	A	309,0	331,4	368,6	408,3	456,2	523,3	582,2	663,0	682,4	765,4	849,2
Peak current (LRA)	°	A	-	-	-	-	-	-	-	1063,0	1177,0	1391,0	1583,0
	A	A	498,0	592,0	641,0	689,0	837,0	934,0	1124,0	1287,0	1063,0	1177,0	1391,0

MODEL PERFORMANCE DATA (H) - FOR CONDENSING TEMPERATURES UP TO 65 °C**WFGI - model (H) version A**

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	511,3	581,3	664,4	741,3	869,2	988,5	1083,6	1218,4	1312,3	1450,5	1588,3	1759,4
Input power	kW	100,0	114,5	129,9	146,9	170,3	191,3	214,6	243,5	249,2	279,2	314,2	360,4
Cooling total input current	A	182,0	205,0	225,0	248,0	291,0	326,0	370,0	411,0	449,0	491,0	556,0	651,0
EER	W/W	5,11	5,08	5,11	5,04	5,10	5,17	5,05	5,00	5,27	5,20	5,06	4,88
Water flow rate source side	l/h	104337	118851	135775	151933	177734	201586	222077	249762	267707	296196	325814	363151
Pressure drop source side	kPa	61	55	46	30	45	50	36	51	11	24	23	22
Water flow rate system side	l/h	87940	99961	114232	127463	149434	169953	186288	209453	225564	249326	273015	302384
Pressure drop system side	kPa	45	35	33	41	32	44	34	43	26	31	29	17
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	563,1	641,8	731,2	822,8	961,9	1089,6	1200,8	1381,7	1445,1	1599,5	1759,3	1964,0
Input power	kW	120,6	137,4	154,1	177,9	203,8	229,4	255,3	289,7	297,6	333,6	372,8	425,2
Heating total input current	A	216,0	243,0	263,0	295,0	344,0	385,0	434,0	479,0	530,0	579,0	651,0	763,0
COP	W/W	4,67	4,67	4,75	4,63	4,72	4,75	4,70	4,77	4,86	4,79	4,72	4,62
Water flow rate system side	l/h	97770	111434	126975	142910	167067	189246	208586	239997	251090	277882	305657	341230
Pressure drop system side	kPa	54	49	41	26	40	44	31	47	10	22	20	20
Water flow rate source side	l/h	130239	148043	169179	189222	222144	252647	276929	320765	334856	370130	405298	448896
Pressure drop source side	kPa	99	76	73	90	70	96	74	100	56	69	64	37

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI - model (H) version °

Size		6703	7203	8403	9603
Model: H					
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1298,6	1433,8	1544,1	1739,6
Input power	kW	252,7	280,5	312,9	362,4
Cooling total input current	A	449,0	491,0	553,0	649,0
EER	W/W	5,14	5,11	4,93	4,80
Water flow rate source side	l/h	265376	293300	317856	359510
Pressure drop source side	kPa	44	39	34	41
Water flow rate system side	l/h	223228	246460	265406	299001
Pressure drop system side	kPa	27	29	22	26
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1433,5	1584,7	1718,0	1945,1
Input power	kW	300,7	334,3	369,6	428,4
Heating total input current	A	530,0	579,0	649,0	761,0
COP	W/W	4,77	4,74	4,65	4,54
Water flow rate system side	l/h	249013	275290	298460	337909
Pressure drop system side	kPa	39	35	30	36
Water flow rate source side	l/h	331388	365876	394002	443875
Pressure drop source side	kPa	59	64	49	58

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
SEER - 12/7 (EN14825: 2018) (1)													
Seasonal efficiency	°	%	-	-	-	-	-	-	-	287.7%	286.9%	287.6%	281.6%
	A	%	294.9%	295.7%	300.5%	291.4%	301.0%	304.5%	309.3%	298.9%	302.4%	302.9%	295.0%
SEER	°	W/W	-	-	-	-	-	-	-	7,27	7,25	7,27	7,12
	A	W/W	7,45	7,47	7,59	7,36	7,60	7,69	7,81	7,55	7,64	7,52	7,65

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

Electric data

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Electric data													
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	853,0	939,0	1047,0	1178,0
	A	A	343,0	389,0	422,0	488,0	559,0	644,0	719,0	797,0	853,0	939,0	1047,0
Peak current (LRA)	°	A	-	-	-	-	-	-	-	1179,0	1297,0	1527,0	1737,0
	A	A	494,0	545,0	661,0	730,0	885,0	1002,0	1198,0	1357,0	1179,0	1297,0	1527,0

GENERAL TECHNICAL DATA

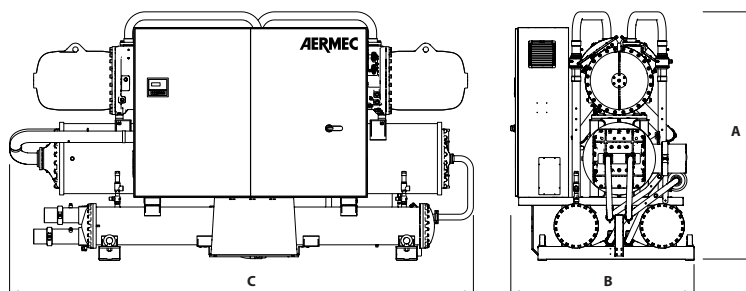
Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Compressor														
Type	°A	type	Screw											
Compressor regulation	°A	Type	Inverter+On/Off											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Circuits	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Refrigerant	°A	type	R1234ze											
Refrigerant load circuit 1	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 2	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 3	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
System side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°A	Type	Grooved joints											
Source side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Connections (in/out)	°A	Type	Grooved joints											

SOUND DATA

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Sound data calculated in cooling mode (1)													
Sound power level	°												
	A	dB(A)	-	-	-	-	-	-	-	99,2	98,9	100,0	100,5
	°												
	A	dB(A)	96,9	97,4	97,9	98,0	98,8	98,8	98,6	98,9	99,2	98,9	100,5
Model: H													
Sound data calculated in cooling mode (1)													
Sound power level	°												
	A	dB(A)	-	-	-	-	-	-	-	99,5	100,6	101,0	102,0
	°												
	A	dB(A)	97,3	97,7	98,8	98,8	98,9	98,9	99,3	100,0	99,5	100,6	101,0

(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



Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Dimensions and weights - standard configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4500	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	8740	9680	9900	10000
	A	kg	3710	3980	5160	5220	5710	6440	6680	6770	9730	11440	12060
Dimensions and weights - quiet configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	9270	10240	10510	10610
	A	kg	4020	4290	5500	5560	6050	6810	7080	7170	10260	12000	12590
Model: H													
Dimensions and weights - standard configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4500	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	8740	9680	9900	10000
	A	kg	3710	3980	5160	5220	5710	6440	6680	6770	9730	11440	12060
Dimensions and weights - quiet configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	9270	10240	10510	10610
	A	kg	4020	4290	5500	5560	6050	6810	7080	7170	10260	12000	12590

■ For the sizes of D-T-E versions please contact the factory.

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.

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WFGN

Water cooled heat pump reversible water side

Cooling capacity 489 ÷ 1455 kW
Heating capacity 545 ÷ 1601 kW



- Production of hot water up to 55°C.
- Production of chilled water down to -8°C.



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16 °C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 55 °C.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Bi-tri circuit unit

Unit with 2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

They are equipped with screw compressors and system and source side shell and tube heat exchangers dedicated to use of the new HFO R1234ze gas.

HFO R1234ze refrigerant gas

HFO R1234ze characterized by:

ODP = 0 e GWP (Global Warming Potential) = 7

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

IS: Condenser isolating valves. Mandatory accessory for units operating in heat pump mode. Factory fitted only.

ACCESSORIES COMPATIBILITY

Model	Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
AER48SP1 x n° 2 (1)	°A	*	*	*	*	*	*	*	*				
AER48SP1 x n° 3 (1)	°A									*	*	*	*
AERNET	°A									*	*	*	*
MULTICHILLER_EVO	°A	*	*	*	*	*	*	*	*	*	*	*	*
PRV3	°A	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°A	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)

(1) Contact us.

Power factor correction

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°A	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)

(1) Contact the factory

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

For the size of the units with the RIF accessory we ask you to contact the headquarters.

Isolating kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°A	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)

(1) Contact us.

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

CONFIGURATOR

Field	Description
1,2,3,4	WFGN
5,6,7,8	Size 2502, 2802, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603
9	Operating yeld
X	Electronic thermostatic expansion valve
Z	Double electronic thermostatic for low temperature
10	Set-up
°	Standard
L	Silenced with hood
11	Heat recovery
°	Without heat recovery
D	With desuperheater
T	With total recovery
12	Evaporator
°	Standard
E	Evaporating unit
13	Power supply
°	400V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit
8	400V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit

PERFORMANCE SPECIFICATIONS

WFGN - °

Size		6703	7203	8403	9603
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1300,7	1439,0	1554,8	1692,4
Input power	kW	239,3	265,4	297,1	329,6
Cooling total input current	A	396,0	475,0	525,0	588,0
EER	W/W	5,44	5,42	5,23	5,13
Water flow rate system side	l/h	223578	247357	267235	290895
Pressure drop system side	kPa	26	29	22	26
Water flow rate source side	l/h	263609	291721	317119	346049
Pressure drop source side	kPa	39	39	33	39
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1444,7	1588,0	1725,3	1890,3
Input power	kW	296,0	328,4	364,3	404,7
Heating total input current	A	485,0	583,0	639,0	716,0
COP	W/W	4,88	4,83	4,74	4,67
Water flow rate system side	l/h	250963	275857	299728	328385
Pressure drop system side	kPa	36	35	29	35
Water flow rate source side	l/h	335840	368447	397507	434518
Pressure drop source side	kPa	59	65	48	58

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGN - A

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	489,1	556,6	675,8	750,2	879,3	995,4	1100,3	1217,3	1315,3	1454,9	1594,7	1727,0
Input power	kW	91,4	103,5	125,1	138,3	159,8	180,3	202,1	225,0	236,7	262,9	296,7	326,6
Cooling total input current	A	166,0	192,0	214,0	237,0	261,0	312,0	346,0	388,0	386,0	466,0	515,0	577,0
EER	W/W	5,35	5,38	5,40	5,42	5,50	5,52	5,45	5,41	5,56	5,53	5,38	5,29
Water flow rate system side	l/h	84115	95704	116204	128995	151168	171142	189154	209277	226089	250084	274117	296820
Pressure drop system side	kPa	42	33	34	42	35	44	33	41	25	31	30	17
Water flow rate source side	l/h	99161	112842	136932	152026	177654	200961	222817	246414	266044	294386	324122	352026
Pressure drop source side	kPa	53	50	49	31	51	51	42	62	19	18	18	21
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	545,1	618,4	747,2	833,5	967,0	1093,6	1204,7	1333,7	1457,0	1601,3	1761,4	1921,0
Input power	kW	116,1	130,9	155,9	173,0	198,3	224,8	248,9	277,7	293,3	326,6	365,9	400,0
Heating total input current	A	208,0	240,0	264,0	291,0	320,0	383,0	421,0	473,0	473,0	571,0	627,0	702,0
COP	W/W	4,70	4,73	4,79	4,82	4,88	4,87	4,84	4,80	4,97	4,90	4,81	4,80
Water flow rate system side	l/h	94650	107376	129767	144768	167936	189943	209256	231650	253135	278220	306025	333765
Pressure drop system side	kPa	49	45	44	28	45	46	37	55	17	16	16	19
Water flow rate source side	l/h	126174	143007	173413	193793	225352	255129	279883	310087	339613	372508	407744	443369
Pressure drop source side	kPa	95	74	77	96	79	98	73	91	56	70	66	37

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
SEER - 12/7 (EN14825:2018) (1)													
SEER	°	W/W	-	-	-	-	-	-	-	7,11	7,14	7,03	6,94
	A	W/W	6,94	7,01	6,90	7,11	7,08	7,08	6,92	6,89	7,36	7,36	7,18
Seasonal efficiency	°	%	-	-	-	-	-	-	-	281.3%	282.5%	278.3%	274.40
	A	%	274.5%	277.40%	272.8%	281.4%	280.2%	280.3%	273.7%	272.7%	291.3%	287.4%	284.3%

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

GENERAL TECHNICAL DATA

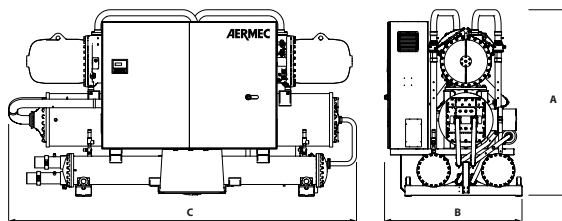
Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Compressor														
Type	°A	type	Screw											
Compressor regulation	°A	Type	On-Off											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Circuits	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Refrigerant	°A	type	R1234ze											
Refrigerant load circuit 1	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 2	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 3	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
System side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°A	Type	Grooved joints											
Source side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Connections (in/out)	°A	Type	Grooved joints											

SOUND DATA

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: °														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	97,0	97,2	99,5	100,0
	A	dB(A)	93,5	94,0	94,0	94,5	95,0	95,5	97,5	98,0	97,0	97,2	99,5	100,0

(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



Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: °														
Dimensions and weights														
A	°	mm	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2432	2432	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1500	1500	1530	1530	1585	1775	1775	1775	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4535	4690	4690	5650	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	9330	9910	10130	10200
	A	kg	3810	4100	5690	5750	6300	6670	7000	7070	10320	11670	12320	12360
Set-up: L														
Dimensions and weights														
A	°	mm	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2432	2432	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1500	1500	1530	1530	1585	1775	1775	1775	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	9900	10470	10760	10830
	A	kg	4120	4410	6050	6120	6670	7040	7420	7490	10880	12230	12950	12990

■ For the sizes of D-T-E versions please contact the factory.

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WFI

Water cooled heat pump reversible water side

Cooling capacity 670 ÷ 2406 kW
Heating capacity 741 ÷ 2664 kW

- Condenser side hot water production up to 60°C.
- Production of chilled water down to -8°C.
- Available also R513A refrigerant gas



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16°C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 60°C depending on the model.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Bi-tri circuit unit

Unit with 2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

All units are equipped with an inverter compressor combined with an on-off compressor (two-circuit sizes) or two on/off compressors (three-circuit sizes).

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

IS: Condenser isolating valves. Mandatory accessory for units operating in heat pump mode. Factory fitted only.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

Model	Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
AER48SP1 x n° 2 (1)	A	*	*	*	*	*	*	*	*				
AER48SP1 x n° 3 (1)	°,A									*	*	*	*
AERNET	A	*	*	*	*	*	*	*	*	*	*	*	*
MULTICHILLER_EVO	°									*	*	*	*
PRV3	A	*	*	*	*	*	*	*	*		*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	AVX (1)	AVX (1)	AVX (1)	AVX (1)
A	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

Power factor correction

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	RIF (1)	RIF (1)	RIF (1)	RIF (1)
A	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)

(1) Contact the factory

The accessory cannot be fitted on the configurations indicated with -

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

For the size of the units with the RIF accessory we ask you to contact the headquarters.

Isolating kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	IS (1)	IS (1)	IS (1)	IS (1)
A	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

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

Acoustic kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: L												
°	-	-	-	-	-	-	-	-	AKW (1)	AKW (1)	AKW (1)	AKW (1)
A	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

The accessory cannot be fitted on the configurations indicated with -

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

CONFIGURATOR

Field	Description
1,2,3	WFI
4,5,6,7	Size 2502, 2802, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603
8	Model
°	Standard condensation
H	Optimised for high condensation
9	Version
°	Standard (1)
A	High efficiency
10	Operating yield
X	Electronic thermostatic expansion valve (2)
Z	Double electronic thermostatic for low temperature (3)
11	Set-up
°	Standard without hood
L	Silenced with hood
12	Heat recovery (4)
°	Without heat recovery
D	With desuperheater
T	With total recovery
13	Evaporator
°	Standard
E	Evaporating unit
14	Power supply
°	400V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers
15	Refrigerant gas
°	R134a
G	RS13A (XP10) (5)

(1) Only for sizes from 6703 to 9603

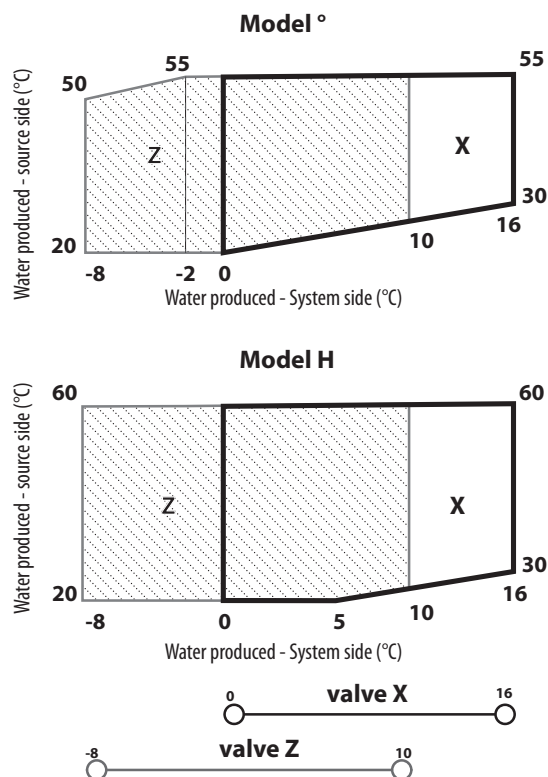
(2) Water produced from 0 °C ÷ 16 °C

(3) Water produced from -8 °C up to 10 °C

(4) Not available for the condenserless "E"

(5) For further details refer to the technical documentation or to the Magellano selection program.

OPERATING LIMITS



MODEL PERFORMANCE DATA (°) - FOR CONDENSING TEMPERATURES UP TO 50°C

WFI - model (°) version A

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	670,0	757,4	889,1	1002,3	1143,6	1304,6	1441,8	1621,2	1771,2	1940,6	2167,0	2406,5
Input power	kW	127,4	144,9	168,9	192,8	218,4	244,5	275,3	309,9	327,6	362,0	410,0	458,2
Cooling total input current	A	214,0	244,0	277,0	315,0	351,0	399,0	446,0	497,0	527,0	597,0	667,0	751,0
EER	W/W	5,26	5,23	5,26	5,20	5,24	5,34	5,24	5,23	5,41	5,36	5,29	5,25
Water flow rate source side	l/h	136129	154084	180866	204404	232973	264813	293658	330152	359034	393872	440716	490182
Pressure drop source side	kPa	55	58	48	46	44	47	48	48	38	31	32	40
Water flow rate system side	l/h	115215	130225	152866	172295	196591	224275	247834	278670	304461	333577	372486	413608
Pressure drop system side	kPa	53	43	38	27	31	44	31	39	45	54	57	33
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	746,2	839,5	979,7	1112,5	1270,4	1441,8	1597,0	1815,3	1951,6	2145,2	2391,0	2664,3
Input power	kW	165,1	183,8	210,4	242,5	276,5	310,2	346,1	394,1	414,4	459,6	518,3	573,6
Heating total input current	A	273,0	305,0	341,0	394,0	441,0	499,0	556,0	624,0	656,0	743,0	826,0	931,0
COP	W/W	4,52	4,57	4,66	4,59	4,59	4,65	4,61	4,61	4,71	4,67	4,61	4,64
Water flow rate system side	l/h	129578	145788	170162	193225	220670	250442	277422	315345	339051	372698	415418	462891
Pressure drop system side	kPa	50	51	42	41	40	42	43	44	34	28	28	36
Water flow rate source side	l/h	171302	192864	225753	254786	291203	332319	366559	417106	451025	495203	550498	612203
Pressure drop source side	kPa	118	95	82	60	67	97	69	88	98	118	125	73

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI - model (°) version °

Size		6703	7203	8403	9603
Model: °					
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1723,4	1905,7	2114,5	2327,9
Input power	kW	331,7	366,9	409,8	463,6
Cooling total input current	A	522,0	592,0	659,0	744,0
EER	W/W	5,20	5,19	5,16	5,02
Water flow rate source side	l/h	350768	387913	431371	476493
Pressure drop source side	kPa	73	69	58	71
Water flow rate system side	l/h	296246	327572	363441	400118
Pressure drop system side	kPa	47	51	39	46
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1909,4	2114,9	2342,8	2593,9
Input power	kW	418,2	463,2	513,0	581,3
Heating total input current	A	651,0	737,0	817,0	922,0
COP	W/W	4,57	4,57	4,57	4,46
Water flow rate system side	l/h	331680	367403	407019	450652
Pressure drop system side	kPa	65	62	52	63
Water flow rate source side	l/h	438855	486287	537130	592236
Pressure drop source side	kPa	103	112	85	102

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
SEER - 12/7 (EN14825: 2018) (1)													
Seasonal efficiency	°	%	-	-	-	-	-	-	-	319.8%	319.2%	318.2%	313.6%
	A	%	339.2%	340.0%	341.7%	340.2%	337.9%	340.3%	343.5%	344.3%	343.1%	341.0%	340.5%
SEER	°	W/W	-	-	-	-	-	-	-	8,07	8,06	8,03	7,92
	A	W/W	8,56	8,58	8,62	8,58	8,52	8,58	8,66	8,68	8,65	8,60	8,59

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

Electric data

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Electric data													
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	862,9	965,5	1077,5	1211,4
	A	A	354,5	395,1	447,5	511,1	576,7	647,2	724,3	824,0	862,9	965,5	1077,5
Peak current (LRA)	°	A	-	-	-	-	-	-	-	1176,0	1301,0	1533,0	1744,0
	A	A	506,0	550,0	666,0	730,0	889,0	982,0	1179,0	1355,0	1176,0	1301,0	1533,0

MODEL PERFORMANCE DATA (H) - FOR CONDENSING TEMPERATURES UP TO 60°C

WFI - model (H) version A

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	672,4	770,8	886,7	999,1	1145,7	1305,1	1454,0	1620,1	1770,6	1939,2	2161,5	2375,7
Input power	kW	132,4	153,1	173,5	195,9	224,6	254,6	288,9	327,3	340,1	376,7	435,1	482,5
Cooling total input current	A	226,0	257,0	285,0	316,0	364,0	415,0	475,0	543,0	567,0	621,0	715,0	806,0
EER	W/W	5,08	5,04	5,11	5,10	5,10	5,13	5,03	4,95	5,21	5,15	4,97	4,92
Water flow rate source side	l/h	137384	157768	181226	204349	234273	266548	297970	332858	360998	396033	443977	488997
Pressure drop source side	kPa	53	55	48	48	49	48	50	46	36	32	32	38
Water flow rate system side	l/h	115641	132532	152452	171756	196959	224366	249941	278496	304349	333335	371531	408313
Pressure drop system side	kPa	54	44	36	27	32	44	32	40	46	54	51	30
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	741,6	852,1	975,8	1106,1	1267,8	1441,2	1611,1	1842,1	1948,7	2138,6	2398,1	2642,8
Input power	kW	160,3	184,4	206,0	235,2	268,6	305,3	343,0	388,6	408,5	453,9	520,2	571,4
Heating total input current	A	268,0	305,0	334,0	376,0	431,0	490,0	558,0	633,0	669,0	732,0	838,0	945,0
COP	W/W	4,63	4,62	4,74	4,70	4,72	4,72	4,70	4,74	4,77	4,71	4,61	4,62
Water flow rate system side	l/h	128783	147970	169486	192116	220216	250335	279872	320004	338539	371554	416652	459154
Pressure drop system side	kPa	47	48	42	42	44	43	44	42	32	28	29	33
Water flow rate source side	l/h	171266	196282	225782	254976	292792	333536	371554	426498	451814	494844	551546	606152
Pressure drop source side	kPa	118	96	80	60	71	97	71	93	101	118	113	66

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI - model (H) version °

Size		6703	7203	8403	9603
Model: H					
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1706,6	1904,2	2109,2	2298,6
Input power	kW	343,5	381,7	434,3	486,5
Cooling total input current	A	561,0	616,0	705,0	796,0
EER	W/W	4,97	4,99	4,86	4,72
Water flow rate source side	l/h	349811	390073	434460	475234
Pressure drop source side	kPa	73	70	59	70
Water flow rate system side	l/h	293360	327313	362530	395080
Pressure drop system side	kPa	47	51	38	46
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1891,1	2108,3	2348,6	2571,3
Input power	kW	411,1	457,6	515,2	578,0
Heating total input current	A	662,0	727,0	826,0	933,0
COP	W/W	4,60	4,61	4,56	4,45
Water flow rate system side	l/h	328503	366257	408016	446727
Pressure drop system side	kPa	64	62	52	62
Water flow rate source side	l/h	435501	485905	538185	586506
Pressure drop source side	kPa	104	112	85	101

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
SEER - 12/7 (EN14825:2018) (1)													
Seasonal efficiency	°	%	-	-	-	-	-	-	-	279.7%	281.0%	284.8%	278.6%
	A	%	298.0%	297.1%	301.3%	295.4%	301.8%	303.6%	307.3%	298.0%	297.8%	295.6%	296.9%
SEER	°	W/W	-	-	-	-	-	-	-	7,07	7,10	7,20	7,04
	A	W/W	7,53	7,50	7,61	7,46	7,62	7,67	7,76	7,53	7,52	7,47	7,51

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

Electric data

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Electric data													
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	954,0	1052,0	1180,0	1290,0
	A	A	378,0	428,0	473,0	535,0	616,0	704,0	787,0	864,0	954,0	1357,0	1180,0
Peak current (LRA)	°	A	-	-	-	-	-	-	-	1234,0	1357,0	1595,0	1784,0
	A	A	507,0	560,0	676,0	742,0	897,0	1009,0	1203,0	1359,0	1234,0	1052,0	1595,0

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

Model performance data (°) - for condensing temperatures up to 50°C

WFI° - AE

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	603,1	688,5	797,4	899,3	1008,4	1169,8	1287,8	1439,2	1558,1	1742,4	1896,4	2110,0
Input power	kW	152,9	171,4	198,1	229,9	259,8	287,4	323,9	364,6	386,3	431,2	481,0	540,3
Cooling total input current	A	261,4	292,5	330,2	380,6	424,7	476,4	532,4	600,3	631,3	709,7	792,6	891,2
EER	W/W	3,94	4,02	4,03	3,91	3,88	4,07	3,98	3,95	4,03	4,04	3,94	3,91
Evaporator water flow rate	l/h	103615	118287	137003	154508	173247	200980	221262	247268	267705	299365	325826	362526
Pressure drop evaporator side	kPa	43	35	29	22	25	35	25	31	35	43	39	24

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WFI° - °E

Size			6703		7203		8403		9603
Model: °									
Cooling performance 12 °C / 7 °C (1)									
Cooling capacity	kW		1515,4		1689,7		1833,1		2021,9
Input power	kW		387,7		429,0		481,0		541,3
Cooling total input current	A		633,0		713,0		793,0		893,0
EER	W/W		3,91		3,94		3,81		3,74
Evaporator water flow rate	l/h		260358		290307		314947		347392
Pressure drop evaporator side	kPa		37		40		29		35

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model performance data (H) - for condensing temperatures up to 60°C

WFIH - AE

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	602,3	690,5	794,5	897,8	1009,4	1177,8	1297,5	1436,1	1566,5	1750,8	1908,3	2101,3
Input power	kW	147,9	170,4	193,3	218,4	248,4	284,6	324,0	361,7	383,8	424,1	485,5	536,4
Cooling total input current	A	256,5	291,2	322,9	358,5	412,8	473,1	536,1	602,7	646,0	707,3	806,6	899,1
EER	W/W	4,07	4,05	4,11	4,11	4,06	4,14	4,01	3,97	4,08	4,13	3,93	3,92
Evaporator water flow rate	l/h	103477	118635	136501	154254	173418	202354	222930	246737	269151	300804	327864	361031
Pressure drop evaporator side	kPa	43	35	29	22	25	36	26	31	36	44	40	24

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WFIH - °E

Size			6703		7203		8403		9603
Model: H									
Cooling performance 12 °C / 7 °C (1)									
Cooling capacity	kW		1524,4		1698,4		1844,7		2016,4
Input power	kW		383,7		425,2		483,3		533,7
Cooling total input current	A		645,8		709,0		803,3		895,1
EER	W/W		3,97		3,99		3,82		3,78
Evaporator water flow rate	l/h		261912		291802		316947		346444
Pressure drop evaporator side	kPa		38		40		29		35

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

GENERAL TECHNICAL DATA

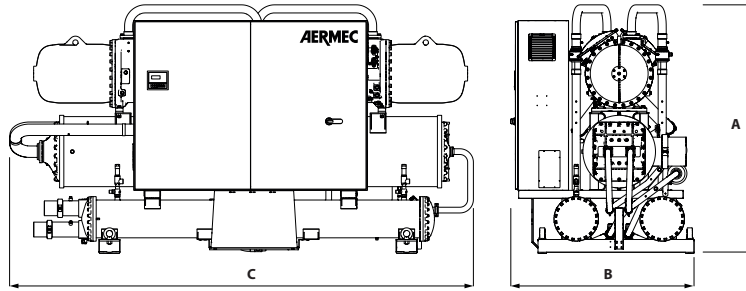
Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Compressor														
Type	°A	type	Screw											
Compressor regulation	°A	Type	Inverter+On/Off											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Circuits	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Refrigerant	°A	type	R134a											
Refrigerant load circuit 1	°	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 2	°	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
Refrigerant load circuit 3	°A	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
System side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°A	Type	Grooved joints											
Source side heat exchanger														
Type	°A	type	Shell and tube											
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Connections (in/out)	°A	Type	Grooved joints											

SOUND DATA

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Sound data calculated in cooling mode (1)													
Sound power level	°												
	A	dB(A)	-	-	-	-	-	-	-	99,2	98,9	100,0	100,5
	°												
	A	dB(A)	96,9	97,4	97,9	98,0	98,8	98,8	98,6	98,9	99,2	98,9	100,5
Model: H													
Sound data calculated in cooling mode (1)													
Sound power level	°												
	A	dB(A)	-	-	-	-	-	-	-	99,5	100,6	101,0	102,0
	°												
	A	dB(A)	97,3	97,7	98,8	98,8	98,9	98,9	99,3	100,0	99,5	100,6	101,0

(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



Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Dimensions and weights - standard configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4500	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	8740	9680	9900	10000
	A	kg	3710	3980	5160	5220	5710	6440	6680	6770	9730	11440	12060
Dimensions and weights - quiet configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	9270	10240	10510	10610
	A	kg	4020	4290	5500	5560	6050	6810	7080	7170	10260	12000	12590
Model: H													
Dimensions and weights - standard configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4500	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	8740	9680	9900	10000
	A	kg	3710	3980	5160	5220	5710	6440	6680	6770	9730	11440	12060
Dimensions and weights - quiet configuration													
A	°	mm	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2440	2432	2432	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1600	1600	1630	1630	1685	1875	1875	1875	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	9270	10240	10510	10610
	A	kg	4020	4290	5500	5560	6050	6810	7080	7170	10260	12000	12590

■ For the sizes of D-T-E versions please contact the factory.

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WFN

Water cooled heat pump reversible water side

Cooling capacity 652÷ 2349 kW
Heating capacity 726÷ 2610 kW

- Production of hot water up to 55°C.
- Production of chilled water down to -8°C.



DESCRIPTION

Units for internal installation offering chilled/hot water, designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16 °C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 55 °C.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Bi-tri circuit unit

Unit with 2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

They are equipped with screw compressors and system and source side shell and tube heat exchangers.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

IS: Condenser isolating valves. Mandatory accessory for units operating in heat pump mode. Factory fitted only.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

Model	Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
AER485P1 x n° 2 (1)	A	*	*	*	*	*	*	*	*				
AER485P1 x n° 3 (1)	°,A									*	*	*	*
AERNET	°									*	*	*	*
	A	*	*	*	*	*	*	*	*	*	*	*	*
	°									*	*	*	*
MULTICHILLER_EVO	A	*	*	*	*	*	*	*	*	*	*	*	*
	°									*	*	*	*
PRV3	A	*	*	*	*	*	*	*	*	*	*	*	*

(1) x Indicates the quantity of accessories to match.

Antivibration

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: °, L												
°	-	-	-	-	-	-	-	-	AVX (1)	AVX (1)	AVX (1)	AVX (1)
A	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)	AVX (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

Power factor correction

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	RIF (1)	RIF (1)	RIF (1)	RIF (1)
A	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)	RIF (1)

(1) Contact the factory

The accessory cannot be fitted on the configurations indicated with -

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

For the size of the units with the RIF accessory we ask you to contact the headquarters.

Isolating kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	IS (1)	IS (1)	IS (1)	IS (1)
A	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)	IS (1)

(1) Contact us.

The accessory cannot be fitted on the configurations indicated with -

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

Acoustic kit

Ver	2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: L												
°	-	-	-	-	-	-	-	-	AKW (1)	AKW (1)	AKW (1)	AKW (1)
A	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)	AKW (1)

(1) Available only in low noise version

The accessory cannot be fitted on the configurations indicated with -

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

CONFIGURATOR

Field	Description
1,2,3	WFN
4,5,6,7	Size 2502, 2802, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603
8	Model
°	Heat pump reversible on the water side
9	Version
°	Standard (1)
A	High efficiency
10	Operating yield
X	Electronic thermostatic expansion valve (2)
Z	Double electronic thermostatic for low temperature (3)
11	Set-up
°	Standard
L	Silenced with hood
12	Heat recovery (4)
°	Without heat recovery
D	With desuperheater
T	With total recovery
13	Evaporator

Field	Description
°	Standard
E	Evaporating unit
14	Power supply (5)
°	400V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit
2	230V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit
4	230V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit
5	500V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit
8	400V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit
9	500V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit
15	Refrigerant gas
°	R134a
G	R513A (XP10)

(1) Only for sizes from 6703 to 9603

(2) Water produced from 0 °C ÷ 16 °C

(3) Water produced from -8 °C up to 10 °C

(4) Not available for the condenserless "E"

(5) Only for 2502 and 2802 sizes

PERFORMANCE SPECIFICATIONS

WFN - °

Size		6703	7203	8403	9603
Cooling performance 12 °C / 7 °C (1)					
Cooling capacity	kW	1691,1	1925,6	2120,1	2310,0
Input power	kW	322,4	364,9	407,2	452,6
Cooling total input current	A	505,0	594,0	660,0	733,0
EER	W/W	5,00	5,00	5,00	5,00
Water flow rate system side	l/h	290696	330989	364406	397041
Pressure drop system side	kPa	46	52	39	46
Water flow rate source side	l/h	343740	390980	431894	471655
Pressure drop source side	kPa	70	70	58	69
Heating performance 40 °C / 45 °C (2)					
Heating capacity	kW	1885,5	2129,2	2348,8	2575,2
Input power	kW	401,0	454,4	501,6	558,6
Heating total input current	A	619,0	728,0	803,0	893,0
COP	W/W	5,00	5,00	5,00	5,00
Water flow rate system side	l/h	327527	369895	408061	447398
Pressure drop system side	kPa	64	63	52	62
Water flow rate source side	l/h	436659	493020	542047	593071
Pressure drop source side	kPa	105	115	86	103

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFN - A

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	652,3	746,8	905,7	1024,5	1164,3	1325,5	1446,9	1589,7	1721,1	1960,7	2149,5	2349,3
Input power	kW	121,4	137,8	167,7	189,5	213,7	242,9	270,4	296,6	317,6	359,9	406,3	445,4
Cooling total input current	A	208,0	239,0	275,0	310,0	341,0	401,0	447,0	493,0	509,0	598,0	667,0	739,0
EER	W/W	5,37	5,42	5,40	5,41	5,45	5,46	5,35	5,36	5,42	5,45	5,29	5,28
Water flow rate system side	l/h	112179	128411	155723	176117	200144	227870	248717	273259	295856	337027	369472	403784
Pressure drop system side	kPa	51	41	38	29	33	45	32	38	43	55	51	30
Water flow rate source side	l/h	132175	151199	183520	207646	235653	268115	293728	322600	348857	396964	437212	478412
Pressure drop source side	kPa	49	50	49	49	50	49	48	46	34	32	32	36
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	726,4	828,1	1001,4	1138,6	1283,2	1459,8	1589,2	1809,3	1911,8	2159,8	2376,5	2610,0
Input power	kW	154,8	174,8	209,3	234,9	264,8	302,9	332,5	371,1	396,0	450,7	504,3	547,7
Heating total input current	A	260,0	298,0	339,0	381,0	418,0	492,0	545,0	606,0	624,0	733,0	812,0	900,0
COP	W/W	4,69	4,74	4,78	4,85	4,85	4,82	4,78	4,88	4,83	4,79	4,71	4,77
Water flow rate system side	l/h	126142	143812	173923	197757	222889	253571	276062	314312	332129	375231	412895	453465
Pressure drop system side	kPa	45	45	44	45	45	44	43	44	31	28	28	32
Water flow rate source side	l/h	168271	191878	232387	264585	298364	339696	368017	421779	444410	502013	549582	603144
Pressure drop source side	kPa	114	92	85	65	73	101	70	91	97	122	112	66

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
SEER - 12/7 (EN14825:2018) (1)													
SEER	°	W/W	-	-	-	-	-	-	-	6,88	6,98	7,02	6,85
	A	W/W	7,06	7,19	7,07	7,23	7,24	7,18	7,01	7,14	7,37	7,44	7,34
Seasonal efficiency	°	%	-	-	-	-	-	-	-	272.3%	276.2%	277.7%	270.8%
	A	%	279.5%	284.6%	279.8%	286.3%	286.5%	284.3%	277.3%	282.4%	291.9%	289.5%	290.4%

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

WFN - AE

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Evaporator: E													
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	584,6	668,6	803,3	911,8	1043,5	1186,8	1284,6	1414,9	1544,3	1758,8	1912,5	2076,9
Input power	kW	41,4	47,2	53,8	65,8	71,8	81,7	98,8	111,7	125,2	141,5	158,8	175,4
Cooling total input current	A	73,5	82,9	93,6	108,8	123,6	141,3	164,0	184,9	203,1	236,1	262,8	290,4
EER	W/W	3,93	3,92	3,88	4,02	4,03	4,06	4,04	4,02	4,15	4,16	4,03	4,00
Evaporator water flow rate	l/h	27948	31843	35845	45444	49721	57032	68528	77175	89209	101057	110092	120581
Pressure drop evaporator side	kPa	32	37	37	32	32	33	22	28	22	30	36	21

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WFN - °E

Size			6703		7203		8403		9603
Evaporator: E									
Cooling performance 12 °C / 7 °C (1)									
Cooling capacity	kW		1500,1		1704,7		1830,1		1998,5
Input power	kW		375,4		424,4		474,7		524,9
Cooling total input current	A		609,0		708,0		786,0		869,0
EER	W/W		4,00		4,02		3,86		3,81
Evaporator water flow rate	l/h		257735		292888		314432		343357
Pressure drop evaporator side	kPa		36		41		29		35

(1) Service side water 12 °C / 7 °C; Condensing temperature 45 °C

GENERAL TECHNICAL DATA

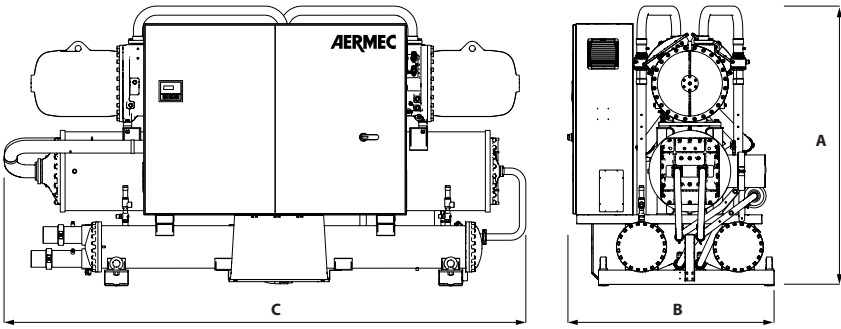
Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Compressor														
Type	°A	type												
Compressor regulation	°A	Type												
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Circuits	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Refrigerant	°A	type												
	°													
Refrigerant load circuit 1	A	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
Refrigerant load circuit 2	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
Refrigerant load circuit 3	A	kg	50,0	53,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0
	°	kg	-	-	-	-	-	-	-	-	107,0	115,0	136,0	157,0
	A	kg	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
System side heat exchanger														
Type	°A	type												
Number	°A	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°A	Type												
Sizes (in/out)	°A	Ø												
Source side heat exchanger														
Type	°A	type												
Number	°A	no.	2	2	2	2	2	2	2	2	3	3	3	3
Connections (in/out)	°A	Type												
Sizes (in/out)	°A	Ø												

SOUND DATA

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	97,0	97,2	99,5	100,0
	A	dB(A)	93,5	94,0	94,0	94,5	95,0	95,5	97,5	98,0	97,0	97,2	99,5	100,0

(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



Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: °														
Dimensions and weights														
A	°	mm	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2432	2432	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1500	1500	1530	1530	1585	1775	1775	1775	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4380	4400	4535	4690	4690	5650	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	9330	9910	10130	10200
	A	kg	3810	4100	5690	5750	6300	6670	7000	7070	10320	11670	12320	12360
Set-up: L														
Dimensions and weights														
A	°	mm	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	2000	2075	2195	2195	2340	2432	2432	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1500	1500	1530	1530	1585	1775	1775	1775	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	4320	4345	4380	4405	4400	4610	4690	4690	5650	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	9900	10470	10760	10830
	A	kg	4120	4410	6050	6120	6670	7040	7420	7490	10880	12230	12950	12990

■ For the sizes of D-T-E versions please contact the factory.

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