

WFI

Water cooled heat pump reversible water side

Cooling capacity 291 ÷ 2406 kW
Heating capacity 326 ÷ 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, the structure and the panels are made of galvanized 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.

Mono, bi-tri circuit unit

Unit with 1-2-3 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) with R134a refrigerant.

The R513A (XP10) refrigerant with this type of gas is also available on the configurator. On average, the units have a yield > 2% and an EER < 3% compared to the same size with R134a.

For further details refer to the technical documentation or to the Magelano selection program.

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

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

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

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

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.

PGD1: Allows you to control the unit 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.

ISG: Insulation kit for condensers. Mandatory accessory for machine functioning in heat pump; standard in units with desuperheater or with heat recovery.

ACCESSORIES COMPATIBILITY

Model	Ver	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
AER485P1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AER485P1 x n° 2 (1)	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AER485P1 x n° 3 (1)	°A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AERBACP	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AERNET	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MULTICHILLER_EVO	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PGD1	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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

Antivibration

Version	Set-up	Heat recovery	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201
°	°K,L	°D,T	-	-	-	-	-	-	-	-	-	-	-
A	°	°	AVX680	AVX680	AVX681	AVX687	AVX687	AVX682	AVX685	AVX673	AVX683	AVX674	AVX683
A	K	°	AVX681	AVX681	AVX688	AVX682	AVX682	AVX685	AVX683	Contact us.	AVX683	Contact us.	AVX683
A	L	°	AVX681	AVX681	AVX681	AVX682	AVX682	AVX682	AVX683	AVX674	AVX683	AVX674	AVX683
A	°L	D,T	-	-	-	-	-	-	-	AVX674	-	AVX674	-
A	K	D,T	-	-	-	-	-	-	-	Contact us.	-	Contact us.	-

Version	Set-up	Heat recovery	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	°K,L	°D,T	-	-	-	-	-	-	Contact us.	Contact us.	Contact us.	Contact us.
A	°	°D	AVX679	AVX679	AVX679	AVX678	AVX678	AVX678	Contact us.	Contact us.	Contact us.	Contact us.
A	L	°	AVX679	AVX679	AVX679	AVX678	AVX678	AVX678	Contact us.	Contact us.	Contact us.	Contact us.
A	K	°D,T	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.	Contact us.
A	°	T	AVX679	AVX679	AVX678	AVX678	AVX678	AVX678	Contact us.	Contact us.	Contact us.	Contact us.
A	L	D,T	AVX679	AVX679	AVX678	AVX678	AVX678	AVX678	Contact us.	Contact us.	Contact us.	Contact us.

- not available

Power factor correction

Ver	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201
A	-	-	-	-	-	-	-	RIFWF12502	-	RIFWF12802	-

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

Ver	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	RIFWF16703	RIFWF17203	RIFWF18403	RIFWF19603
A	RIFWF13202	RIFWF13602	RIFWF14202	RIFWF14802	RIFWF15602	RIFWF16402	RIFWF16703	RIFWF17203	RIFWF18403	RIFWF19603

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	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201
A	ISG10	ISG11	ISG12	ISG13	ISG13	ISG14	ISG14	ISG1	ISG15	ISG1	ISG15

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

Ver	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	ISG5	ISG5	ISG6	ISG6
A	ISG2	ISG2	ISG2	ISG3	ISG3	ISG3	ISG7	ISG8	ISG8	ISG8

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

CONFIGURATOR

Field	Description
1,2,3	WFI
4,5,6,7	Size 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 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 field
X	Electronic thermostatic expansion valve (2)
Z	Double electronic thermostatic for low temperature (3)
11	Set-up
°	Standard without hood
K	Super silenced
L	Silenced with hood
12	Heat recovery
°	Without heat recovery
D	With desuperheater (4)
T	With total recovery (4)
13	Evaporator
°	Standard
E	Evaporating unit
14	Power supply
°	400V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers (5)
15	Refrigerant gas
°	R134a
G	R513A (XP10) (6)

(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) Not available for 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2801, 3201 size

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

MODEL PERFORMANCE DATA (°) - FOR TEMPERATURES WATER PRODUCED UP TO +55°C

WFI 1101 - 3201 - model (°) version A - gas R134a

Size		1101	1251	1401	1601	1801	2101	2401	2801	3201
Model: °										
Cooling performance 12 °C / 7 °C - gas R134a (1)										
Cooling capacity	kW	291,4	339,7	388,2	433,5	496,2	552,0	635,3	714,7	783,3
Input power	kW	55,9	66,5	75,6	85,1	98,6	111,6	122,5	138,9	148,8
Cooling total input current	A	95,0	111,0	125,0	140,0	161,0	181,0	199,0	223,0	241,0
EER	W/W	5,21	5,11	5,13	5,09	5,03	4,95	5,19	5,15	5,26
Water flow rate source side	l/h	59350	69394	79271	88730	101760	113566	129637	145972	159590
Pressure drop source side	kPa	42	41	36	32	30	30	33	33	31
Water flow rate system side	l/h	50123	58428	66772	74535	85331	94907	109229	122894	134668
Pressure drop system side	kPa	38	43	45	27	32	24	35	45	26
Heating performances 40 °C / 45 °C - gas R134a (2)										
Heating capacity	kW	326,0	387,7	437,0	490,2	566,3	631,1	707,9	798,2	873,1
Input power	kW	74,3	88,1	97,5	106,3	126,9	143,0	156,9	178,5	189,7
Heating total input current	A	125,0	144,0	158,0	173,0	204,0	230,0	251,0	281,0	305,0
COP	W/W	4,39	4,40	4,48	4,61	4,46	4,41	4,51	4,47	4,60
Water flow rate system side	l/h	56587	67319	75890	85131	98344	109614	122953	138630	151661
Pressure drop system side	kPa	39	39	33	29	28	28	30	29	28
Water flow rate source side	l/h	74024	88235	99938	112439	128897	142918	161620	182106	199956
Pressure drop source side	kPa	83	98	101	61	74	54	76	98	57

(1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI 2502 - 9603 - model (°) version A - gas R134a

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Cooling performance 12 °C / 7 °C - gas R134a (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 performances 40 °C / 45 °C - gas R134a (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 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
 (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI 6703 - 9603 - model (°) version ° - gas R134a

Size		6703	7203	8403	9603
Model: °					
Cooling performance 12 °C / 7 °C - gas R134a (1)					
Cooling capacity	kW		1723,4	1905,7	2327,9
Input power	kW		331,7	366,9	463,6
Cooling total input current	A		522,0	592,0	744,0
EER	W/W		5,20	5,19	5,02
Water flow rate source side	l/h		350768	387913	476493
Pressure drop source side	kPa		73	69	71
Water flow rate system side	l/h		296246	327572	400118
Pressure drop system side	kPa		47	51	46
Heating performances 40 °C / 45 °C - gas R134a (2)					
Heating capacity	kW		1909,4	2114,9	2593,9
Input power	kW		418,2	463,2	581,3
Heating total input current	A		651,0	737,0	922,0
COP	W/W		4,57	4,57	4,46
Water flow rate system side	l/h		331680	367403	450652
Pressure drop system side	kPa		65	62	63
Water flow rate source side	l/h		438855	486287	592236
Pressure drop source side	kPa		103	112	102

(1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
 (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: °																							
SEER - 12/7 (EN14825: 2018) . refrigerant gas R134a (1)																							
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	319,80	319,20	318,20	313,60
	A	%	337,10	343,20	342,80	348,90	348,20	350,10	347,00	339,20	351,20	340,00	355,00	341,70	340,20	337,90	340,30	343,50	344,30	343,10	341,00	340,50	342,50
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,07	8,06	8,03	7,92
	A	W/W	8,50	8,66	8,65	8,80	8,78	8,83	8,75	8,56	8,86	8,58	8,95	8,62	8,58	8,52	8,58	8,66	8,68	8,65	8,60	8,59	8,64
SEPR - (EN 14825: 2018) High temperature - refrigerant gas R134a (2)																							
SEPR	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,60	8,60	8,40	8,40
	A	W/W	9,40	9,40	9,30	8,70	9,30	8,90	9,10	9,10	9,00	9,00	8,90	8,90	8,80	8,90	8,80	8,90	8,90	9,00	8,80	8,60	8,80

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

Electric data

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: °																							
Gas R134a																							
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	862,9	965,5	1077,5	1211,4
	A	A	163,0	189,0	206,0	226,0	262,0	300,0	329,0	354,5	371,0	395,1	405,0	447,5	511,1	576,7	647,2	724,3	824,0	862,9	965,5	1077,5	1211,4
Peak current (LRA)	°	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1176,0	1301,0	1533,0	1744,0
	A	A	23,0	23,0	23,0	23,0	23,0	23,0	506,0	23,0	550,0	23,0	666,0	730,0	889,0	982,0	1179,0	1355,0	1176,0	1301,0	1533,0	1744,0	

MODEL PERFORMANCE DATA (H) - FOR TEMPERATURES WATER PRODUCED UP TO +60°C

WFI 1101 - 3201 - model (H) version A - gas R134a

Size		1101	1251	1401	1601	1801	2101	2401	2801	3201
Model: H										
Cooling performance 12 °C / 7 °C - gas R134a (1)										
Cooling capacity	kW	294,7	338,4	389,7	436,1	479,8	540,5	637,9	703,6	781,8
Input power	kW	57,3	67,1	79,0	87,4	98,3	110,3	127,2	142,1	162,7
Cooling total input current	A	98,0	112,0	129,0	143,0	159,0	177,0	206,0	228,0	262,0
EER	W/W	5,15	5,05	4,94	4,99	4,88	4,90	5,02	4,95	4,80
Water flow rate source side	l/h	60130	69281	80074	89564	98879	111372	130851	144597	161585
Pressure drop source side	kPa	44	41	37	32	30	30	33	32	33
Water flow rate system side	l/h	50692	58217	67029	74994	82505	92934	109677	120988	134409
Pressure drop system side	kPa	39	44	46	26	32	24	35	43	27
Heating performances 40 °C / 45 °C - gas R134a (2)										
Heating capacity	kW	325,5	376,9	434,9	486,7	538,4	604,0	709,5	783,3	871,3
Input power	kW	70,4	82,2	96,5	105,2	119,3	133,5	151,5	168,8	185,2
Heating total input current	A	118,0	135,0	155,0	170,0	190,0	212,0	241,0	265,0	295,0
COP	W/W	4,63	4,58	4,51	4,63	4,51	4,52	4,68	4,64	4,71
Water flow rate system side	l/h	56513	65431	75521	84523	93497	104898	123224	136049	151346
Pressure drop system side	kPa	39	37	33	29	27	27	29	29	29
Water flow rate source side	l/h	74998	86674	99584	111688	122874	137657	163575	180444	200734
Pressure drop source side	kPa	86	97	100	58	71	52	78	97	59

(1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
 (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI 2502 - 9603 - model (H) version A - gas R134a

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Cooling performance 12 °C / 7 °C - gas R134a (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 performances 40 °C / 45 °C - gas R134a (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 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
 (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI 6703 - 9603 - model (H) version ° - gas R134a

Size			6703		7203		8403		9603
Model: H									
Cooling performance 12 °C / 7 °C - gas R134a (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 performances 40 °C / 45 °C - gas R134a (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 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
 (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: H																							
SEER - 12/7 (EN14825: 2018) . refrigerant gas R134a (1)																							
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279,70	281,00	284,80	278,60
	A	%	306,80	310,90	296,50	309,10	297,30	306,60	308,50	298,00	314,60	297,10	315,60	301,30	295,40	301,80	303,60	307,30	298,00	297,80	295,60	296,90	297,50
SEER	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,07	7,10	7,20	7,04
	A	W/W	7,75	7,85	7,49	7,80	7,51	7,74	7,79	7,53	7,94	7,50	7,97	7,61	7,46	7,62	7,67	7,76	7,53	7,52	7,47	7,50	7,51
SEPR - (EN 14825: 2018) High temperature - refrigerant gas R134a (2)																							
SEPR	°	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,40	8,30	8,20	8,10
	A	W/W	9,20	9,10	9,10	8,50	9,00	8,60	8,80	8,80	8,80	8,80	8,70	8,60	8,40	8,60	8,50	8,60	8,60	8,70	8,60	8,40	8,50

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

(2) Calculation performed with VARIABLE water flow rate.

Electric data

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: H																							
Gas R134a																							
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	954,0	1052,0	1180,0	1290,0
	A	A	165,0	190,0	216,0	237,0	274,0	308,0	356,0	378,0	387,0	428,0	418,0	473,0	535,0	616,0	704,0	787,0	864,0	954,0	1357,0	1180,0	1290,0
Peak current (LRA)	°	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1234,0	1357,0	1595,0	1784,0
	A	A	23,0	23,0	23,0	23,0	23,0	23,0	507,0	23,0	560,0	23,0	676,0	742,0	897,0	1009,0	1203,0	1359,0	1234,0	1052,0	1595,0	1784,0	

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

Model performance data (°) - for condensing temperatures up to 55°C

Model output data - model WFI° - AE - gas R134a

Size		1101	1251	1401	1601	1801	2101	2401	2801	3201
Model: °										
Cooling performance 12 °C / 7 °C - gas R134a (1)										
Cooling capacity	kW	261,4	307,5	351,6	393,3	441,4	493,3	571,6	642,9	693,1
Input power	kW	68,4	80,8	90,0	100,3	117,7	133,8	145,8	164,9	178,0
Cooling total input current	A	119,0	139,0	152,0	168,0	197,0	222,0	240,0	269,0	292,0
EER	W/W	3,82	3,81	3,91	3,92	3,75	3,69	3,92	3,90	3,89
Evaporator water flow rate	l/h	44906	52830	60402	67574	75833	84756	98206	110455	119091
Pressure drop evaporator side	kPa	31	36	37	21	27	20	28	36	21
Length of refrigerant lines from/to 0 - 10 m										
Gas line (C1)	Ø	54,0	67,0	67,0	67,0	76,0	76,0	89,0	89,0	89,0
Gas line (C2)	Ø	-	-	-	-	-	-	-	-	-
Gas line (C3)	Ø	-	-	-	-	-	-	-	-	-
Liquid line (C1)	Ø	35,0	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0
Liquid line (C2)	Ø	-	-	-	-	-	-	-	-	-
Liquid line (C3)	Ø	-	-	-	-	-	-	-	-	-

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

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: °													
Cooling performance 12 °C / 7 °C - gas R134a (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
Length of refrigerant lines from/to 0 - 10 m													
Gas line (C1)	Ø	67,0	67,0	67,0	76,0	76,0	88,9	88,9	88,9	76,0	88,9	88,9	88,9
Gas line (C2)	Ø	67,0	67,0	67,0	76,0	76,0	88,9	88,9	88,9	76,0	88,9	88,9	88,9
Gas line (C3)	Ø	-	-	-	-	-	-	-	42,0	76,0	88,9	88,9	88,9
Liquid line (C1)	Ø	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0
Liquid line (C2)	Ø	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0
Liquid line (C3)	Ø	-	-	-	-	-	-	-	-	54,0	54,0	54,0	54,0

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

Model output data - model WFI° - °E - gas R134a

Size		6703	7203	8403	9603
Model: °					
Cooling performance 12 °C / 7 °C - gas R134a (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
Length of refrigerant lines from/to 0 - 10 m					
Gas line (C1)	∅	76,0	88,9	88,9	88,9
Gas line (C2)	∅	76,0	88,9	88,9	88,9
Gas line (C3)	∅	76,0	88,9	88,9	88,9
Liquid line (C1)	∅	54,0	54,0	54,0	54,0
Liquid line (C2)	∅	54,0	54,0	54,0	54,0
Liquid line (C3)	∅	54,0	54,0	54,0	54,0

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

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

Model output data - model WFIH - AE - gas R134a

Size		1101	1251	1401	1601	1801	2101	2401	2801	3201
Model: H										
Cooling performance 12 °C / 7 °C - gas R134a (1)										
Cooling capacity	kW	260,1	304,6	351,5	393,7	432,7	485,1	579,1	638,3	697,1
Input power	kW	65,4	76,0	88,4	97,7	111,1	123,1	143,8	158,6	176,5
Cooling total input current	A	113,0	129,0	148,0	162,0	180,0	200,0	235,0	257,0	290,0
EER	W/W	3,98	4,01	3,98	4,03	3,89	3,94	4,03	4,02	3,95
Evaporator water flow rate	l/h	44694	52328	60399	67637	74335	83339	99495	109670	119762
Pressure drop evaporator side	kPa	31	35	37	21	26	19	29	36	21
Length of refrigerant lines from/to 0 - 10 m										
Gas line (C1)	∅	54,0	67,0	67,0	67,0	76,0	76,0	88,9	88,9	88,9
Gas line (C2)	∅	-	-	-	-	-	-	-	-	-
Gas line (C3)	∅	-	-	-	-	-	-	-	-	-
Liquid line (C1)	∅	35,0	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0
Liquid line (C2)	∅	-	-	-	-	-	-	-	-	-
Liquid line (C3)	∅	-	-	-	-	-	-	-	-	-

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

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Model: H													
Cooling performance 12 °C / 7 °C - gas R134a (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
Length of refrigerant lines from/to 0 - 10 m													
Gas line (C1)	∅	67,0	67,0	67,0	76,0	76,0	88,9	88,9	88,9	76,0	88,9	88,9	88,9
Gas line (C2)	∅	67,0	67,0	67,0	76,0	76,0	88,9	88,9	88,9	76,0	88,9	88,9	88,9
Gas line (C3)	∅	-	-	-	-	-	-	-	42,0	76,0	88,9	88,9	88,9
Liquid line (C1)	∅	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0
Liquid line (C2)	∅	42,0	42,0	42,0	42,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0	54,0
Liquid line (C3)	∅	-	-	-	-	-	-	-	-	54,0	54,0	54,0	54,0

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

Model output data - model WFIH - °E - gas R134a

Size		6703	7203	8403	9603
Model: H					
Cooling performance 12 °C / 7 °C - gas R134a (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
Length of refrigerant lines from/to 0 - 10 m					
Gas line (C1)	∅	76,0	88,9	88,9	88,9
Gas line (C2)	∅	76,0	88,9	88,9	88,9
Gas line (C3)	∅	76,0	88,9	88,9	88,9
Liquid line (C1)	∅	54,0	54,0	54,0	54,0
Liquid line (C2)	∅	54,0	54,0	54,0	54,0
Liquid line (C3)	∅	54,0	54,0	54,0	54,0

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

GENERAL TECHNICAL DATA

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Compressor																							
Type	°A type																				Screw		
Compressor regulation	°A Type	I	I	I	I	I	I	I	I+1	I	I+1	I	I+1	I+1	I+1	I+1	I+1	I+1	I+1	2+I	2+I	2+I	2+I
Number	°A no.	1	1	1	1	1	1	1	2	1	2	1	2	2	2	2	2	2	2	3	3	3	3
Circuits	°A no.	1	1	1	1	1	1	1	2	1	2	1	2	2	2	2	2	2	2	3	3	3	3
Refrigerant	°A type	R134a																					
Refrigerant load circuit 1 (1)	° kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,0	104,0	110,0	120,0
	A kg	59,0	57,0	72,0	66,0	61,0	85,0	81,0	50,0	110,0	53,0	104,0	81,0	71,0	70,0	123,0	124,0	121,0	106,0	104,0	110,0	120,0	
Refrigerant load circuit 2 (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 3 (1)	°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	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.	1	1	1	1	1	1	1	2	1	2	1	2	2	2	2	2	2	2	3	3	3	3
Connections (in/out)	°A Type	Grooved joints																					

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

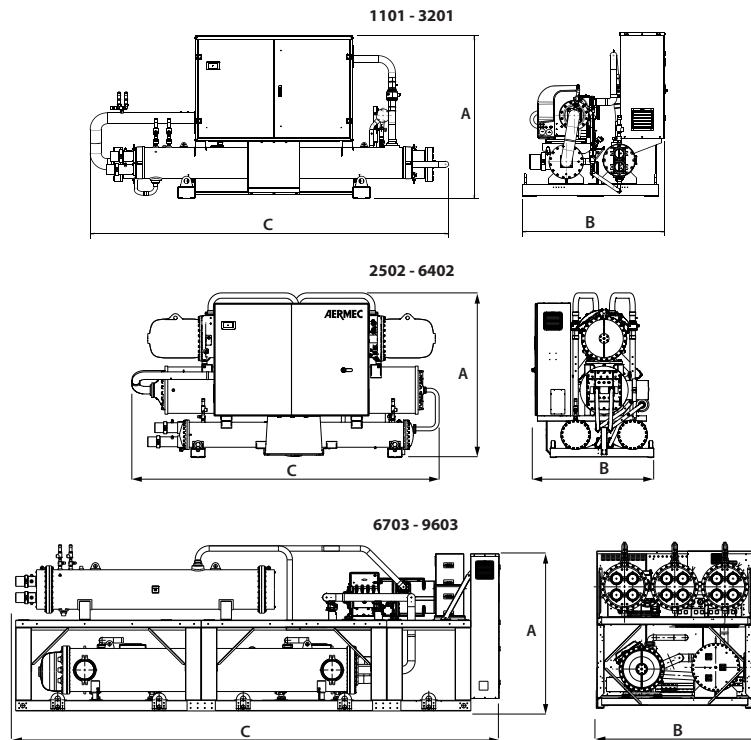
SOUND DATA

Sound data calculated with functioning in cooling mode - R134a gas

Size		1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: °																							
Standard equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,2	98,9	100,0	100,5
	A dB(A)	94,0	95,8	96,1	97,0	97,1	97,2	97,3	96,9	97,3	97,4	98,0	97,9	98,0	98,8	98,8	98,6	98,9	99,2	98,9	100,0	100,5	
Silenced equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92,3	91,3	92,8	93,0
	A dB(A)	86,1	88,0	88,2	89,1	89,2	89,3	89,3	89,3	89,3	89,6	89,8	90,3	90,5	91,5	91,1	91,2	91,3	92,3	91,3	92,8	93,0	
Super silenced equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89,4	88,4	89,8	90,0
	A dB(A)	83,1	85,0	85,3	86,2	86,3	86,4	86,3	86,4	86,7	86,8	87,4	87,5	88,5	88,1	88,2	88,8	89,4	88,4	88,4	89,8	90,0	
Model: H																							
Standard equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,5	100,6	101,0	102,0
	A dB(A)	94,0	95,8	96,1	97,0	97,1	97,2	97,3	97,3	97,7	98,0	98,8	98,8	98,9	98,9	99,3	100,0	99,5	100,6	101,0	101,0	102,0	
Silenced equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94,4	94,6	94,6	94,9
	A dB(A)	86,1	88,0	88,2	89,1	89,2	89,3	89,3	89,5	89,3	90,0	89,8	91,6	91,9	92,7	92,4	92,5	92,6	94,4	94,6	94,6	94,9	
Super silenced equipment																							
Sound power level (1)	° dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91,5	91,6	91,6	91,9
	A dB(A)	83,1	85,0	85,3	86,2	86,3	86,4	86,3	86,5	86,4	87,0	86,8	88,6	89,0	89,7	89,5	89,6	90,0	91,5	91,6	91,6	91,9	

(1) Sound power: calculated in agreement with the Standard UNI EN ISO 9614-2, in compliance with that requested by Eurovent certification.

DIMENSIONS



Unit dimensions and weights °H in standard configuration

Size	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: °, H																						
Dimensions and weights - standard configuration																						
A	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	1720	1790	1865	1865	1865	1887	1887	2131	1920	2131	1920	2195	2195	2340	2455	2440	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1510	1560	1610	1610	1610	1610	1610	1645	1630	1600	1630	1675	1675	1685	1875	1900	1950	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	3460	3463	3585	4100	4100	4140	4240	4320	4290	4345	4290	4380	4395	4500	4580	4580	5650	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8740	9680	9900	10000
	A	kg	2020	2030	2230	2410	2450	2670	3090	3710	3530	3980	3570	5160	5220	5710	6440	6680	6770	9730	11440	11980	12060

Unit dimensions and weights °H in silenced configuration

Size	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603	
Model: °, H																						
Dimensions and weights - quiet configuration																						
A	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	1720	1790	1865	1865	1865	1887	1887	2131	1920	2131	1920	2195	2195	2340	2455	2440	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1525	1560	1610	1610	1610	1615	1615	1645	1630	1600	1630	1675	1675	1685	1875	1900	1950	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	3460	3463	3585	4100	4100	4140	4240	4320	4290	4345	4290	4630	4630	4600	5015	5060	5060	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9270	10240	10510	10610
	A	kg	2180	2190	2390	2570	2610	2830	3280	4020	3720	4290	3760	5500	5560	6050	6810	7080	7170	10260	12000	12590	12670

Supersilenced equipment dimensions and weights

A	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2250	2250	2250	2250
	A	mm	1720	1790	1865	1865	1865	1887	1887	2131	1920	2131	1920	2195	2195	2340	2455	2440	2432	2250	2250	2250	2250
B	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2200	2200	2200	2200
	A	mm	1525	1560	1610	1610	1610	1615	1615	1645	1630	1600	1630	1675	1675	1685	1875	1900	1950	2200	2200	2200	2200
C	°	mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5650	5650	5650	5650
	A	mm	3460	3463	3585	4100	4100	4140	4240	4320	4290	4345	4290	4630	4630	4600	5015	5060	5060	5650	5650	5650
Empty weight	°	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9890	10890	11230	11330
	A	kg	2370	2380	2580	2760	2800	3020	3500	4400	3940	4670	3980	5910	5970	6460	7240	7550	7640	10880	12650	13310	13390

■ 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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