WFGN

Water cooled heat pump reversible water side

Cooling capacity 136 ÷ 1727 kW
Heating capacity 153 ÷ 1921 kW

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

DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit 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 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.

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.
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 (A2L).
The R515B refrigerant with this type of gas is also available on the configurator. Performances do not vary when the refrigerant gas available on the configurator varies.
For further details refer to the technical documentation or to the Magellano 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 PCO_5

Microprocessor adjustment, with 4.3", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.
Adjustment includes complete management of the alarms and their log.
The possibility to controll several units in Master - Slave parallel mode up to a maximum of 4 compressors.
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 supervising systems with MODBUS protocol. 1 accessory is provided for each unit control board.
AERBAC-ONE: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols, HTTPS protocol for web interface, encrypted communication protocols and access credential management in accordance with the latest standards. One accessory is provided for each unit control board.
AERBACP: Ethernet communication interface for Bacnet/IP and Modbus TCP/IP protocols. 1 accessory is provided for each unit control board.
AERNET: The device remotely controls, manages and remotely monitors a chiller/heat pump using a PC, smartphone or table via a Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 control cards. The connection is made via cable and/or USB key. Wi-Fi connectivity is not available. It is also possible to save a log file with all the data from the connected units to your terminal with a simple click for possible post-analysis. With the purchase of the Router, the Customer benefits from a 24-month free period during which he can use the Aernet Service at no additional cost. At the end of this initial period, the Service may be renewed by subscribing to a 1, 2 or 3 year subscription. For further details on costs and renewal methods, please contact our office or consult the technical documentation available on our website. www.aermec.com.
MULTICHILLER-EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel (max. no. 9), always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.
SGD: Electronic board designed to receive external signals from the electricity grid or energy suppliers, converting them into Modbus commands for our units. This system allows you to vary the operation of our generators to optimise consumption based on electricity prices, grid load or the availability of renewable sources. The key principle of the standard is demand response: shifting consumption from peak demand times to times when energy is cheaper and more environmentally sustainable.

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	0701	0801	0901	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 no. 2	A											•		•		•	•	•	•	•	•				
AER485P1 x no. 3	°,A																					•	•	•	•
AERBAC-ONE	A	•	•	•	•	•	•	•	•	•	•		•		•										
AERBAC-ONE x no. 2	A											•		•		•	•	•	•	•	•				
AERBAC-ONE x no. 3	°,A																					•	•	•	•
AERBACP	A	•	•	•	•	•	•	•	•	•	•		•		•										
AERBACP x no. 2	A											•		•		•	•	•	•	•	•				
AERBACP x no. 3	°,A																					•	•	•	•
AERNET	°																					•	•	•	•
	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MULTICHILLER-EVO	°																					•	•	•	•
	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PGD1	°																					•	•	•	•
	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SGD	°																					•	•	•	•
	A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Antivibration

Version	Set-up	Heat recovery	0701	0801	0901	1101	1251
°	°, L	°, D, T	-	-	-	-	-
A	°, L	°	AVX680	AVX680	AVX680	AVX681	AVX681
A	°, L	D, T	-	-	-	-	-

Version	Set-up	Heat recovery	1401	1601	1801	2101	2401
°	°, L	°, D, T	-	-	-	-	-
A	°	°	AVX681	AVX682	AVX682	AVX683	AVX683
A	L	°	AVX681	AVX682	AVX685	AVX683	AVX683
A	°, L	D, T	-	-	-	-	-

Version	Set-up	Heat recovery	2502	2801	2802	3201	3202
°	°, L	°, D, T	-	-	-	-	-
A	°	°	AVX673	AVX683	AVX674	AVX683	AVX679
A	L	°	AVX674	AVX683	AVX674	AVX683	AVX678
A	°	D	AVX674	-	AVX674	-	AVX679
A	°	T	AVX674	-	AVX674	-	AVX678
A	L	D, T	AVX674	-	AVX674	-	AVX678

Version	Set-up	Heat recovery	3602	4202	4802	5602	6402
°	°, L	°, D, T	-	-	-	-	-
A	°	°, D	AVX679	AVX678	AVX678	AVX678	AVX678
A	°	T	AVX678	AVX678	AVX678	AVX678	AVX678
A	L	°, D	AVX678	AVX678	AVX678	AVX678	AVX678
A	L	T	AVX678	AVX678	AVX676	AVX676	AVX676

Version	Set-up	Heat recovery	6703	7203	8403	9603
°	°, L	°, D, T	Contact us.	Contact us.	Contact us.	Contact us.
A	°, L	°, D, T	Contact us.	Contact us.	Contact us.	Contact us.

Power factor correction

Ver	0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801
A	RIFWFN0701	RIFWFN0801	RIFWFN0901	RIFWFN1101	RIFWFN1251	RIFWFN1401	RIFWFN1601	RIFWFN1801	RIFWFN2101	RIFWFN2401	RIFWFN2502	RIFWFN2801

Ver	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	RIFWFN6703	RIFWFN7203	RIFWFN8403	RIFWFN9603
A	RIFWFN2802	RIFWFN3201	RIFWFN3202	RIFWFN3602	RIFWFN4202	RIFWFN4802	RIFWFN5602	RIFWFN6402	RIFWFN6703	RIFWFN7203	RIFWFN8403	RIFWFN9603

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

Isolating kit

Ver	0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801
A	ISG10	ISG10	ISG10	ISG10	ISG11	ISG12	ISG13	ISG13	ISG14	ISG14	ISG1	ISG15

Ver	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
°	-	-	-	-	-	-	-	-	ISG5	ISG5	ISG6	ISG6
A	ISG1	ISG15	ISG2	ISG2	ISG2	ISG3	ISG3	ISG3	ISG7	ISG8	ISG8	ISG8

CONFIGURATOR

Field	Description
1,2,3,4	**WFGN**
5,6,7,8	**Size** 0701, 0801, 0901, 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603
9	**Model**
°	Heat pump reversible on the water side
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**
K	Super low noise with hood (2)
L	Silenced with hood
°	Standard
13	**Heat recovery**
D	With desuperheater (3)
T	With total recovery (3)
°	Without heat recovery
14	**Evaporator**
E	Evaporating unit
°	Standard
15	**Power supply**
2	230V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (4)
4	230V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit (4)
5	500V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (4)
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 (4)
°	400V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit
16	**Refrigerant gas (5)**
G	R515B
°	R1234ze

(1) Only for sizes from 6703 to 9603
(2) Only for units with R515B
(3) Not available for the condenserless "E"
(4) The 230V and 500V power supplies are only available for sizes 0701 - 0801 - 0901 - 1101 - 1251 - 1401 - 2502 - 2802
(5) Performances do not vary when the refrigerant gas available on the configurator varies.

PERFORMANCE SPECIFICATIONS

WFGN 0701-3201 - version A - gas R1234ze

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	136,1	154,8	173,8	221,3	239,8	272,3	335,7	370,1	434,3	490,7	545,3	596,9
Input power	kW	26,0	29,7	33,8	41,4	45,0	51,2	61,5	69,0	78,1	88,5	100,0	109,9
Cooling total input current	A	51,60	57,00	63,30	70,30	83,10	96,00	107,10	119,30	130,20	156,20	172,80	193,20
EER	W/W	5,24	5,21	5,15	5,35	5,33	5,32	5,46	5,37	5,56	5,55	5,45	5,43
Water flow rate system side	l/h	23.410	26.632	29.906	38.077	41.247	46.844	57.740	63.636	74.675	84.359	93.748	102.619
Pressure drop system side	kPa	22	25	24	22	21	22	16	20	15	21	25	15
Water flow rate source side	l/h	27.751	31.586	35.551	44.983	48.779	55.416	68.103	75.234	87.855	99.259	110.576	121.174
Pressure drop source side	kPa	21	20	19	24	21	18	18	18	19	19	19	18
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	153,1	172,4	196,2	245,2	267,2	303,2	369,1	408,3	478,4	547,5	601,0	663,0
Input power	kW	32,6	37,2	42,4	51,8	56,4	64,2	76,0	85,4	96,3	109,6	123,2	137,5
Heating total input current	A	64,10	70,70	78,60	87,30	103,40	119,40	131,50	146,50	159,50	191,50	210,40	240,30
COP	W/W	4,69	4,63	4,63	4,74	4,73	4,73	4,86	4,78	4,97	4,99	4,88	4,82
Water flow rate system side	l/h	26.569	29.919	34.065	42.555	46.384	52.636	64.078	70.908	83.096	95.098	104.400	115.170
Pressure drop system side	kPa	20	18	17	22	19	16	16	16	17	18	17	17
Water flow rate source side	l/h	35.233	39.544	45.008	56.537	61.580	69.831	85.443	94.274	111.358	127.787	139.586	153.205
Pressure drop source side	kPa	49	55	55	48	47	48	34	44	34	48	57	34

(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

WFGN 2502-9603 - version A - gas R1234ze

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	166,00	191,80	214,20	237,20	261,20	312,30	345,60	387,90	386,20	465,60	515,20	576,70
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	84.115	95.704	116.204	128.995	151.168	171.142	189.154	209.277	226.089	250.084	274.117	296.820
Pressure drop system side	kPa	42	33	34	42	35	44	33	41	25	31	30	17
Water flow rate source side	l/h	99.161	112.842	136.932	152.026	177.654	200.961	222.817	246.414	266.044	294.386	324.122	352.026
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	207,50	239,70	263,80	291,10	320,20	383,10	421,00	472,60	473,30	570,60	627,40	702,00
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	94.650	107.376	129.767	144.768	167.936	189.943	209.256	231.650	253.135	278.220	306.025	333.765
Pressure drop system side	kPa	49	45	44	28	45	46	37	55	17	16	16	19
Water flow rate source side	l/h	126.174	143.007	173.413	193.793	225.352	255.129	279.883	310.087	339.613	372.508	407.744	443.369
Pressure drop source side	kPa	95	74	77	96	79	98	73	91	56	70	66	37

(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

WFGN 6703-9603 - version ° - gas R1234ze

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	396,00	475,00	525,00	588,00
EER		W/W	5,44	5,42	5,23	5,13
Water flow rate system side		l/h	223.578	247.357	267.235	290.895
Pressure drop system side		kPa	26	29	22	26
Water flow rate source side		l/h	263.609	291.721	317.119	346.049
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	485,00	583,00	639,00	716,00
COP		W/W	4,88	4,83	4,74	4,67
Water flow rate system side		l/h	250.963	275.857	299.728	328.385
Pressure drop system side		kPa	36	35	29	35
Water flow rate source side		l/h	335.840	368.447	397.507	434.518
Pressure drop source side		kPa	59	65	48	58

(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		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801
SEER - 12/7 (EN14825: 2018)												
SEER	W/W	6,71	6,96	6,87	6,43	6,80	6,79	6,69	6,69	7,01	6,99	6,58
Seasonal efficiency	%	265,30	275,30	271,70	254,00	269,00	268,40	264,60	264,70	277,20	276,70	260,30
Water Regulation (1)	type	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW
SEPR - (EN 14825: 2018)												
SEPR	W/W	8,20	8,00	8,20	8,00	8,00	8,00	8,00	7,90	8,10	8,10	8,10
Water Regulation (1)	type	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW
Performance in average ambient conditions (average) - 55 °C (2)												
Pdesignh	kW	197,00	219,00	253,00	312,00	339,00	384,00	-	-	-	-	-
SCOP	W/W	4,65	4,70	4,65	4,75	5,00	4,98	-	-	-	-	-
ηsh	%	178,00	180,00	178,00	182,00	192,00	191,00	-	-	-	-	-
Water Regulation (1)	type	FWVO/FW	FWVO/FW	FWVO/FW	FWVO/FW	FWVO/FW	FWVO/FW	-	-	-	-	-

(1) VW/VO - variable water flow rate/variable outlet temperature; FW/VO - fixed water flow rate/variable outlet temperature; VW/FO - variable water flow rate/fixed outlet temperature; FW/FO - fixed water flow rate/fixed outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
SEER - 12/7 (EN14825: 2018)														
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	7,26	7,18
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	281,30	282,50	278,30	274,40
	A	%	274,50	277,40	272,80	281,40	280,20	280,30	273,70	272,70	291,30	291,40	287,40	284,30
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW
	A	type	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW	VWVO / VW
SEPR - (EN 14825: 2018)														
SEPR	°	W/W	-	-	-	-	-	-	-	-	8,10	8,20	8,20	8,30
	A	W/W	8,10	8,10	8,20	8,20	8,30	8,30	8,30	8,20	8,30	8,30	8,50	8,50
Water Regulation (1)	°	type	-	-	-	-	-	-	-	-	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW
	A	type	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW	FWVO / FW

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

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

WFGN - version AE - gas R1234ze

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Evaporator: E													
Cooling performance 12 °C / 7 °C - gas R1234ze (1)													
Cooling capacity	kW	121,0	137,5	154,5	196,6	214,1	243,2	297,4	329,0	390,9	442,4	480,9	529,0
Input power	kW	31,4	35,9	40,9	50,0	54,7	62,2	74,1	83,1	93,9	106,2	119,1	131,5
Cooling total input current	A	58,00	65,00	73,00	83,00	97,00	111,00	125,00	140,00	154,00	183,00	203,00	226,00
EER	W/W	3,85	3,83	3,77	3,93	3,92	3,91	4,02	3,96	4,16	4,17	4,04	4,02
Evaporator water flow rate	l/h	20.792	23.621	26.548	33.776	36.780	41.778	51.103	56.534	67.168	76.005	110.092	90.893
Pressure drop evaporator side	kPa	31	35	35	31	31	32	22	29	22	30	35	21
Length of refrigerant lines from/to 0 - 10 m													
Gas line (C1)	Ø	42,0	54,0	54,0	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	28,0	35,0	35,0	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
Evaporator: E													
Cooling performance 12 °C / 7 °C - gas R1234ze (1)													
Cooling capacity	kW	435,2	495,4	598,4	665,6	796,3	895,9	964,3	1068,0	1165,6	1325,4	1443,9	1565,4
Input power	kW	109,2	124,2	148,1	164,9	188,7	212,3	238,2	262,9	279,7	316,3	354,8	392,2
Cooling total input current	A	193,00	222,00	250,00	279,00	310,00	365,00	405,00	451,00	459,00	545,00	603,00	673,00
EER	W/W	3,99	3,99	4,04	4,04	4,22	4,22	4,05	4,06	4,17	4,19	4,07	3,99
Evaporator water flow rate	l/h	74.770	85.110	102.813	114.362	136.819	153.933	165.685	183.500	200.259	227.721	248.077	268.953
Pressure drop evaporator side	kPa	60	48	49	63	50	63	45	56	34	46	43	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

WFGN - version °E - gas R1234ze

Size		6703	7203	8403	9603
Evaporator: E					
Cooling performance 12 °C / 7 °C - gas R1234ze (1)					
Cooling capacity	kW	1129,2	1283,0	1378,4	1504,1
Input power	kW	282,3	319,1	356,8	394,8
Cooling total input current	A	463,00	549,00	606,00	676,00
EER	W/W	4,00	4,02	3,86	3,81
Evaporator water flow rate	l/h	194.017	220.439	236.821	258.428
Pressure drop evaporator side	kPa	35	41	30	36
Length of refrigerant lines from/to 0 - 10 m					
Gas line (C1)	Ø	76,0	88,9	88,9	88,9
Gas line (C2)	Ø	76,0	88,9	88,9	88,9
Gas line (C3)	Ø	76,0	88,9	88,9	88,9
Liquid line (C1)	Ø	54,0	54,0	54,0	54,0
Liquid line (C2)	Ø	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

ELECTRIC DATA

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402
Electric data																					
Maximum current (FLA)	A	106,0	119,0	136,0	162,0	183,0	208,0	243,0	275,0	305,0	350,0	365,0	389,0	416,0	427,0	486,0	549,0	609,0	700,0	777,0	854,0
Peak current (LRA)	A	163	192	229	300	314	341	436	465	586	650	440	805	486	917	601	650	792	890	1070	1210

Size		6703	7203	8403	9603
Electric data					
Maximum current (FLA)	°,A	A 913,0	1.050,0	1.166,0	1.281,0
Peak current (LRA)	°,A	A 998	1129	1334	1502

GENERAL TECHNICAL DATA

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201
Compressor																
Type		type	Screw													
Compressor regulation		type	On-Off													
Number		no.	1	1	1	1	1	1	1	1	1	1	2	1	2	1
Circuits		no.	1	1	1	1	1	1	1	1	1	1	2	1	2	1
Refrigerant		type	R1234ze(E)													
Total refrigerant charge (1)		kg	41,00	41,00	38,00	59,00	57,00	72,00	66,00	61,00	85,00	81,00	100,00	110,00	106,00	104,00
Potential global heating (GWP)			1,37													
Equivalent CO_2		tCO_2eq	0,06	0,06	0,05	0,08	0,08	0,10	0,09	0,08	0,12	0,11	0,14	0,15	0,15	0,14

(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.

Size			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	3	3	3	3
Circuits	°,A	no.	2	2	2	2	2	2	3	3	3	3
Refrigerant	°,A	type	R1234ze(E)									
Total refrigerant charge (1)	°	kg	-	-	-	-	-	-	321,00	345,00	408,00	471,00
	A	kg	162,00	142,00	140,00	246,00	248,00	242,00	318,00	312,00	330,00	360,00
Potential global heating (GWP)	°		-	-	-	-	-	-	1,37	1,37	1,37	1,37
	A		1,37									
Equivalent CO_2	°	tCO_2eq	-	-	-	-	-	-	0,44	0,47	0,56	0,65
	A	tCO_2eq	0,22	0,19	0,19	0,34	0,34	0,33	0,44	0,43	0,45	0,49

(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.

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
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.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	°,A	Type	Grooved joints											

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
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											

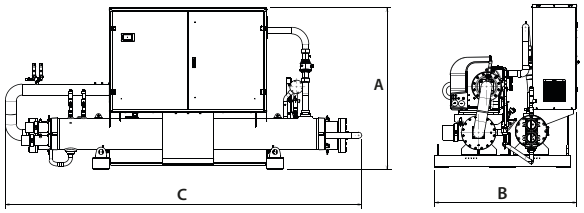
SOUND DATA

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Refrigerant gas: °																										
Standard equipment																										
Sound power level (1)	°	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97,0	97,2	99,5	100,0
	A	dB(A)	87,7	88,0	87,7	89,1	90,3	91,3	90,5	90,7	93,2	92,5	93,5	94,8	94,0	94,2	94,0	94,5	95,0	95,5	97,5	98,0	97,0	97,2	99,5	100,0
Silenced equipment																										
Sound power level (1)	°	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93,0	93,2	95,5	96,0
	A	dB(A)	83,7	84,0	83,7	85,1	86,3	87,3	86,5	86,7	89,2	88,5	89,5	90,8	90,0	90,2	90,0	90,5	91,0	91,5	93,5	94,0	93,0	93,2	95,5	96,0

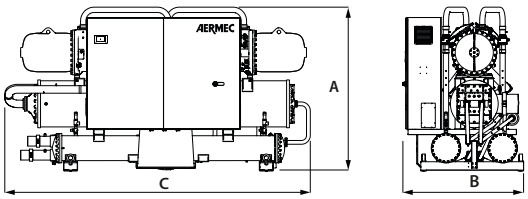
(1) Sound power: calculated in agreement with the Standard UNI EN ISO 9614-2, in compliance with that requested by Eurovent certification.

DIMENSIONS

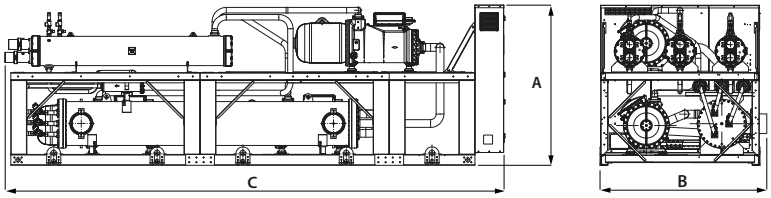
0701 - 3201



2502 - 6402



6703 - 9603



Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402
Set-up: L																					
Dimensions and weights																					
A	mm	1720	1720	1720	1720	1790	1865	1865	1865	1887	1887	2000	1920	2075	1920	2195	2195	2340	2432	2440	2432
B	mm	1450	1450	1450	1540	1600	1610	1610	1610	1630	1630	1500	1645	1500	1645	1575	1575	1585	1775	1775	1820
C	mm	3480	3480	3480	3470	3445	3560	4100	4100	4140	4252	4320	4290	4345	4290	4650	4650	4600	5015	5150	5150
Empty weight	kg	1.770	1.790	1.790	2.280	2.290	2.510	3.120	3.170	3.450	3.510	4.120	4.030	4.410	4.080	6.050	6.120	6.670	7.040	7.420	7.490

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2502	2801	2802	3201	3202	3602	4202	4802	5602	6402
Set-up: °																					
Dimensions and weights																					
A	mm	1720	1720	1720	1720	1790	1865	1865	1865	1887	1887	2000	1920	2075	1920	2195	2195	2340	2432	2440	2432
B	mm	1450	1450	1450	1510	1550	1610	1610	1610	1610	1610	1500	1630	1500	1630	1575	1575	1585	1775	1775	1820
C	mm	3480	3480	3480	3470	3445	3560	4100	4100	4140	4252	4320	4290	4345	4290	4380	4380	4395	4535	4605	4605
Empty weight	kg	1.610	1.630	1.630	2.120	2.130	2.350	2.940	2.980	3.260	3.320	3.810	3.820	4.100	3.870	5.690	5.750	6.300	6.670	6.970	7.070

Size			6703	7203	8403	9603
Set-up: L						
Dimensions and weights						
A	°,A	mm	2250	2250	2250	2250
B	°,A	mm	2200	2200	2200	2200
C	°	mm	5650	5650	5650	5650
	A	mm	6840	6840	6840	6840
Empty weight	°	kg	9.890	10.470	10.760	10.830
	A	kg	10.880	12.230	12.950	12.990

Size			6703	7203	8403	9603
Set-up: °						
Dimensions and weights						
A	°,A	mm	2250	2250	2250	2250
B	°,A	mm	2200	2200	2200	2200
C	°	mm	5650	5650	5650	5650
	A	mm	6840	6840	6840	6840
Empty weight	°	kg	9.330	9.910	10.130	10.200
	A	kg	10.320	11.670	12.270	12.360

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

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