WFN

Water cooled heat pump reversible water side

Cooling capacity 182 ÷ 2349 kW
Heating capacity 205 ÷ 2610 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 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 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 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
°	°, K, L	°, D, T	-	-	-	-	-
A	°, K, L	°	AVX680	AVX680	AVX680	AVX681	AVX681
A	°, K, L	D, T	-	-	-	-	-

Version	Set-up	Heat recovery	1401	1601	1801	2101	2401
°	°, K, L	°, D, T	-	-	-	-	-
A	°	°	AVX681	AVX682	AVX682	AVX683	AVX683
A	K	°	AVX688	AVX683	AVX683	AVX683	AVX683
A	L	°	AVX681	AVX682	AVX685	AVX683	AVX683
A	°, K, L	D, T	-	-	-	-	-

Version	Set-up	Heat recovery	2502	2801	2802	3201	3202
°	°, K, L	°, D, T	-	-	-	-	-
A	°	°	AVX673	AVX683	AVX674	AVX683	AVX679
A	K	°	Contact us.	AVX686	Contact us.	AVX686	Contact us.
A	L	°	AVX674	AVX683	AVX674	AVX683	AVX678
A	°	D	AVX674	-	AVX674	-	AVX679
A	°	T	AVX674	-	AVX674	-	AVX678
A	L	D, T	AVX674	-	AVX674	-	AVX678
A	K	D, T	Contact us.	-	Contact us.	-	Contact us.

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

- not available

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

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

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

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

Isolating kit

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
°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ISG5	ISG5	ISG6	ISG6
A	ISG10	ISG10	ISG10	ISG10	ISG11	ISG12	ISG13	ISG13	ISG14	ISG14	ISG1	ISG15	ISG1	ISG15	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	**WFN**
4,5,6,7	**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
8	**Model**
°	Heat pump reversible on the water side
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**
K	Super silenced
L	Silenced with hood
°	Standard
12	**Heat recovery**
D	With desuperheater (4)
T	With total recovery (4)
°	Without heat recovery

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

(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) The 230V and 500V power supplies are only available for sizes 0701 - 0801 - 0901 - 1101 - 1251 - 1401 - 2502 - 2802

PERFORMANCE SPECIFICATIONS

WFN 0701 - 3201 - version A - gas R134a

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Cooling performance 12 °C / 7 °C (1)													
Cooling capacity	kW	182,1	207,2	232,9	295,9	322,1	370,3	448,8	504,1	579,3	655,9	719,6	788,4
Input power	kW	35,2	40,2	45,6	55,9	60,5	68,8	83,9	95,0	106,4	120,6	136,6	149,7
Cooling total input current	A	63,00	71,00	79,00	91,00	104,00	120,00	138,00	156,00	170,00	200,00	223,00	248,00
EER	W/W	5,18	5,16	5,11	5,30	5,32	5,38	5,35	5,31	5,45	5,44	5,27	5,27
Water flow rate system side	l/h	31.347	35.658	40.063	50.900	55.401	63.688	77.171	86.683	99.596	112.777	123.733	135.542
Pressure drop system side	kPa	40	46	46	40	40	41	28	35	27	37	45	27
Water flow rate source side	l/h	37.125	42.261	47.577	60.109	65.418	75.101	91.161	102.491	117.368	132.862	146.434	160.587
Pressure drop source side	kPa	37	37	34	44	37	33	33	33	33	34	33	32
Heating performance 40 °C / 45 °C (2)													
Heating capacity	kW	204,8	230,6	262,5	327,5	358,1	410,4	494,2	556,2	639,5	733,2	796,8	879,7
Input power	kW	44,4	50,8	57,8	70,4	76,6	87,1	104,0	118,2	131,8	150,4	169,5	188,1
Heating total input current	A	78,00	88,00	98,00	113,00	130,00	149,00	170,00	191,00	209,00	246,00	272,00	308,00
COP	W/W	4,61	4,54	4,54	4,65	4,68	4,71	4,75	4,70	4,85	4,87	4,70	4,68
Water flow rate system side	l/h	35.533	40.021	45.575	56.858	62.177	71.260	85.815	96.600	111.065	127.339	138.391	152.791
Pressure drop system side	kPa	34	33	31	40	33	29	30	29	30	31	29	29
Water flow rate source side	l/h	47.178	52.944	60.295	75.577	82.711	94.940	114.197	128.417	148.521	170.834	184.231	202.358
Pressure drop source side	kPa	90	101	103	88	89	91	61	78	61	85	101	60

(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

WFN 2502 - 9603 - version A - gas R134a

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	208,00	239,00	275,00	310,00	341,00	401,00	447,00	493,00	509,00	598,00	667,00	739,00
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	112.179	128.411	155.723	176.117	200.144	227.870	248.717	273.259	295.856	337.027	369.472	403.784
Pressure drop system side	kPa	51	41	38	29	33	45	32	38	83	55	51	30
Water flow rate source side	l/h	132.175	151.199	183.520	207.646	235.653	268.115	293.728	322.600	348.857	396.964	437.212	478.412
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	260,00	298,00	339,00	381,00	418,00	492,00	545,00	606,00	624,00	733,00	812,00	900,00
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	126.142	143.812	173.923	197.757	222.889	253.571	276.062	314.312	332.129	375.231	412.895	453.465
Pressure drop system side	kPa	45	45	44	45	45	44	43	44	31	28	28	32
Water flow rate source side	l/h	168.271	191.878	232.387	264.585	298.364	339.696	368.017	421.779	444.410	502.013	549.582	603.144
Pressure drop source side	kPa	114	92	85	65	73	101	70	91	97	122	112	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

WFN 6703 - 9603 - version ° - gas R134a

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	505,00	594,00	660,00	733,00
EER		W/W	5,00	5,00	5,00	5,00
Water flow rate system side		l/h	290.696	330.989	364.406	397.041
Pressure drop system side		kPa	46	52	39	46
Water flow rate source side		l/h	343.740	390.980	431.894	471.655
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	619,00	728,00	803,00	893,00
COP		W/W	5,00	5,00	5,00	5,00
Water flow rate system side		l/h	327.527	369.895	408.061	447.398
Pressure drop system side		kPa	64	63	52	62
Water flow rate source side		l/h	436.659	493.020	542.047	593.071
Pressure drop source side		kPa	105	115	86	103

(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	3201
Refrigerant gas: °													
SEER - 12/7 (EN14825: 2018)													
SEER	W/W	6,64	6,87	6,80	6,55	6,76	6,83	6,79	6,85	6,94	6,94	6,62	6,75
Seasonal efficiency	%	262,60	271,70	269,00	259,00	267,50	270,00	268,40	270,90	274,50	274,50	261,70	267,10
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	VWVO/VW
SEPR - (EN 14825: 2018)													
SEPR	W/W	8,10	8,00	8,10	8,10	8,00	8,00	8,00	8,00	8,10	8,00	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	FWVO/FW
Performance in average ambient conditions (average) - 55 °C (2)													
Pdesignh	kW	264,00	294,00	339,00	417,00	-	-	-	-	-	-	-	-
SCOP	W/W	4,58	4,63	4,55	4,73	-	-	-	-	-	-	-	-
ηsh	%	175,00	177,00	174,00	181,00	-	-	-	-	-	-	-	-
Water Regulation (1)	type	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
Refrigerant gas: °														
SEER - 12/7 (EN14825: 2018)														
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	7,31	7,34
Seasonal efficiency	°	%	-	-	-	-	-	-	-	-	272,30	276,20	277,70	270,80
	A	%	279,50	284,60	279,80	286,30	286,50	284,30	277,30	282,40	291,90	294,50	289,50	290,40
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	-	-	-	-	-	-	-	-	8,50	8,50	8,20	8,20
	A	W/W	8,20	8,20	8,30	8,20	8,30	8,30	8,30	8,50	8,60	8,60	8,50	8,40
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

WFN - AE- gas R134a

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Evaporator: E													
Cooling performance 12 °C / 7 °C - gas R134a (1)													
Cooling capacity	kW	162,7	185,3	208,6	264,5	289,4	331,9	398,9	449,2	519,2	588,2	640,8	701,8
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	74,00	83,00	94,00	109,00	124,00	141,00	164,00	185,00	203,00	236,00	263,00	290,00
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	27.948	31.843	35.845	45.444	49.721	57.032	68.528	77.175	89.209	101.057	110.092	120.581
Pressure drop evaporator side	kPa	32	36	37	32	32	33	22	28	22	30	36	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 R134a (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	143,3	163,2	196,5	222,8	249,8	283,2	317,9	349,1	373,7	422,6	474,7	523,3
Cooling total input current	A	246,70	282,20	326,30	368,70	405,50	472,60	525,90	578,30	606,70	705,80	785,60	867,10
EER	W/W	4,08	4,10	4,09	4,09	4,18	4,19	4,04	4,05	4,13	4,16	4,03	3,97
Evaporator water flow rate	l/h	100.443	114.870	138.020	156.649	179.280	203.906	220.716	243.093	265.322	302.189	328.596	356.829
Pressure drop evaporator side	kPa	41	33	30	23	27	36	25	30	35	44	40	23
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

WFN - °E - gas R134a

Size		6703	7203	8403	9603
Evaporator: E					
Cooling performance 12 °C / 7 °C - gas R134a (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	609,00	708,00	786,00	869,00
EER	W/W	4,00	4,02	3,86	3,81
Evaporator water flow rate	l/h	257.735	292.888	314.432	343.357
Pressure drop evaporator side	kPa	36	41	29	35
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	2801	3201
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	389,0	427,0
Peak current (LRA)		A	166,0	195,0	232,0	303,0	317,0	344,0	439,0	468,0	589,0	653,0	808,0	920,0

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Electric data														
Maximum current (FLA)	°	A	-	-	-	-	-	-	-	-	913,0	1.050,0	1.166,0	1.281,0
	A	A	365,0	416,0	486,0	549,0	609,0	700,0	777,0	854,0	913,0	1.050,0	1.166,0	1.281,0
Peak current (LRA)	°	A	-	-	-	-	-	-	-	-	1.198,0	1.353,0	1.585,0	1.774,0
	A	A	500,0	552,0	682,0	743,0	894,0	1.003,0	1.197,0	1.347,0	1.198,0	1.353,0	1.585,0	1.774,0

GENERAL TECHNICAL DATA

WFN - A

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Compressor													
Type	type	Screw											
Compressor regulation	type	On-Off											
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1	1	1	1	1	1	1
Refrigerant	type	R134a											
Refrigerant load circuit 1 (1)	kg	41,0	41,0	38,0	59,0	57,0	72,0	66,0	61,0	85,0	81,0	110,0	104,0
System side heat exchanger													
Type	type	Shell and tube											
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	Type	Grooved joints											
Sizes (in/out)	Ø	4"	4"	4"	4"	5"	6"	6"	6"	6"	6"	8"	8"
Source side heat exchanger													
Type	type	Shell and tube											
Number	no.	1	1	1	1	1	1	1	1	1	1	1	1
Connections (in/out)	Type	Grooved joints											
Sizes (in/out)	Ø	3"	3"	3"	3"	4"	4"	4"	4"	5"	5"	6"	6"

(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			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	R134a											
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											
Sizes (in/out)	°,A	Ø	8"	8"	8"	8"	10"	10"	10"	10"	10"	10"	10"	10"
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											
Sizes (in/out)	°	Ø	-	-	-	-	-	-	-	-	5"	5"	6"	6"
	A	Ø	4"	4"	5"	5"	5"	6"	6"	6"	-	-	-	-

SOUND DATA

Sound data calculated with functioning in cooling mode - R134a gas

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Set-up: K														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	A	dB(A)	78,0	78,2	77,9	79,8	80,4	80,9	81,1	81,5	84,3	82,6	85,1	84,5

(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).

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Set-up: L														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	A	dB(A)	81,0	81,2	80,9	82,8	83,4	83,9	84,1	84,5	87,3	85,5	88,1	87,5

(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).

Size			0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Set-up: °														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	-	-	-	-
	A	dB(A)	87,7	88,0	87,7	89,1	90,3	91,3	90,5	90,7	93,2	92,5	87,4	84,9

(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).

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: K														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	88,1	87,3	89,8	90,3
	A	dB(A)	83,6	83,6	84,5	85,2	86,1	85,6	87,8	88,3	88,1	87,3	89,8	90,3

(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).

Size			2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Set-up: L														
Sound data calculated in cooling mode (1)														
Sound power level	°	dB(A)	-	-	-	-	-	-	-	-	91,1	90,2	92,8	93,3
	A	dB(A)	86,6	86,6	87,5	88,2	89,1	88,5	90,8	91,3	91,1	90,2	92,8	93,3

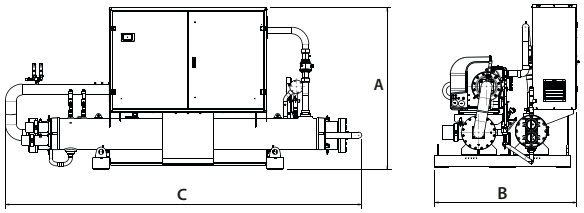
(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

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

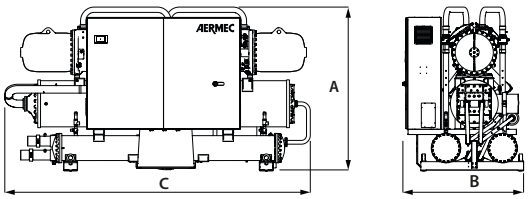
(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS

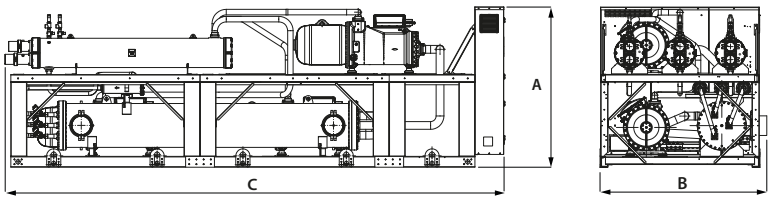
0701 - 3201



2502 - 6402



6703 - 9603



WFN 0701-9603 ver. A

Size		0701	0801	0901	1101	1251	1401	1601	1801	2101	2401	2801	3201
Dimensions and weights - standard configuration													
A	mm	1720	1720	1720	1720	1790	1865	1865	1865	1887	1887	1920	1920
B	mm	1450	1450	1450	1510	1550	1610	1610	1610	1610	1610	1630	1630
C	mm	3480	3480	3480	3470	3445	3560	4100	4100	4140	4252	4290	4290
Empty weight	kg	1.610	1.630	1.630	2.120	2.130	2.350	2.940	2.980	3.260	3.320	3.820	3.870
Dimensions and weights - quiet configuration													
A	mm	1720	1720	1720	1720	1790	1865	1865	1865	1887	1887	1920	1920
B	mm	1450	1450	1450	1540	1600	1610	1610	1610	1630	1630	1645	1645
C	mm	3480	3480	3480	3470	3445	3560	4100	4100	4140	4252	4290	4290
Empty weight	kg	1.770	1.790	1.790	2.280	2.290	2.510	3.120	3.170	3.450	3.510	4.030	4.080
Super silenced equipment dimensions and weights													
A	mm	1720	1720	1720	1720	1790	1865	1865	1865	1887	1887	1920	1920
B	mm	1450	1450	1450	1540	1600	1610	1610	1610	1630	1630	1645	1645
C	mm	3480	3480	3480	3470	3445	3560	4100	4100	4140	4252	4290	4290
Empty weight	kg	1.960	1.980	1.980	2.470	2.480	2.700	3.340	3.390	3.670	3.730	4.280	4.330

Size		2502	2802	3202	3602	4202	4802	5602	6402	6703	7203	8403	9603
Dimensions and weights - standard configuration													
A	mm	2000	2075	2195	2195	2340	2432	2440	2432	2250	2250	2250	2250
B	mm	1500	1500	1575	1575	1585	1845	1800	1800	2200	2200	2200	2200
C	mm	4320	4345	4380	4380	4395	4535	4605	4605	6840	6840	6840	6840
Empty weight	kg	3.810	4.100	5.690	5.750	6.300	6.670	6.970	7.070	10.320	11.670	12.270	12.360
Dimensions and weights - quiet configuration													
A	mm	2000	2075	2195	2195	2340	2432	2440	2432	2250	2250	2250	2250
B	mm	1500	1500	1575	1575	1585	1845	1800	1800	2200	2200	2200	2200
C	mm	4320	4345	4650	4650	4600	5015	5150	5150	6840	6840	6840	6840
Empty weight	kg	4.120	4.410	6.050	6.120	6.670	7.040	7.420	7.490	10.880	12.230	12.950	12.990
Super silenced equipment dimensions and weights													
A	mm	2000	2075	2195	2195	2340	2432	2440	2432	2250	2250	2250	2250
B	mm	1500	1500	1575	1575	1585	1845	1800	1800	2200	2200	2200	2200
C	mm	4320	4345	4650	4650	4600	5015	5150	5150	6840	6840	6840	6840
Empty weight	kg	4.500	4.790	6.480	6.550	7.100	7.470	7.890	7.990	11.530	12.880	13.650	13.740

WFN 6703-9603 ver. °

Size		6703	7203	8403	9603
Dimensions and weights - standard configuration					
A	mm	2250	2250	2250	2250
B	mm	2200	2200	2200	2200
C	mm	5650	5650	5650	5650
Empty weight	kg	9.330	9.910	10.130	10.200
Dimensions and weights - quiet configuration					
A	mm	2250	2250	2250	2250
B	mm	2200	2200	2200	2200
C	mm	5650	5650	5650	5650
Empty weight	kg	9.890	10.470	10.760	10.830
Super silenced equipment dimensions and weights					
A	mm	2250	2250	2250	2250
B	mm	2200	2200	2200	2200
C	mm	5650	5650	5650	5650
Empty weight	kg	10.540	11.120	11.510	11.580

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

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

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