

# HWF 2512-5612

## Water-water heat pumps only

Heating capacity 697,7 ÷ 1576,8 kW

- Optimised for high condenser temperatures for example units operating in heating mode
- Maximum condenser leaving water temperature: 60°C
- Electronic thermostatic as standard



### DESCRIPTION

Indoor unit for producing hot water, designed and built to meet air conditioning needs on residential / commercial sites. 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 -8°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.

#### Dual-circuit unit

Unit with 2 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.

#### 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<sup>5</sup> 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 x n° 2:** 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	2512	2812	3212	3612	4212	4812	5612
AER485P1 x n° 2 (1)	°A	.	.	.	.	.	.	.
AERNET	°A	.	.	.	.	.	.	.
MULTICHILLER_EVO	°A	.	.	.	.	.	.	.
PRV3	°A	.	.	.	.	.	.	.

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

### Antivibration

Ver	2512	2812	3212	3612	4212	4812	5612
<b>Set-up: °</b>							
°	AVX673	AVX673	AVX673	AVX674	AVX674	AVX674	AVX675
A	AVX673	AVX673	AVX674	AVX675	AVX675	AVX675	AVX676
<b>Set-up: L</b>							
°	AVX673	AVX673	AVX674	AVX674	AVX674	AVX674	AVX675
A	AVX674	AVX674	AVX675	AVX675	AVX675	AVX675	AVX676

### RIF: Power factor correction

Ver	2512	2812	3212	3612	4212	4812	5612
°A	RIFHWF2512	RIFHWF2812	RIFHWF3212	RIFHWF3612	RIFHWF4212	RIFHWF4812	RIFHWF5612

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.**

### IS: Isolating kit

Ver	2512	2812	3212	3612	4212	4812	5612
°	IS1 (1)	IS1 (1)	IS1 (1)	IS1 (1)	IS1 (1)	IS1 (1)	IS2 (1)
A	IS1 (1)	IS1 (1)	IS2 (1)	IS2 (1)	IS2 (1)	IS2 (1)	IS3 (1)

(1) Mandatory accessory for heating mode operation

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

### Acoustic kit

Ver	2512	2812	3212	3612	4212	4812	5612
<b>Set-up: L</b>							
°A	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

## CONFIGURATOR

Field	Description
<b>1,2,3</b>	<b>HWF</b>
<b>4,5,6,7</b>	<b>Size</b> 2512, 2812, 3212, 3612, 4212, 4812, 5612
<b>8</b>	<b>Model</b>
°	Optimised for high condenser temperatures
<b>9</b>	<b>Version</b>
°	Standard
A	High efficiency
<b>10</b>	<b>Set-up</b>
°	Standard
L	Silenced
<b>11</b>	<b>Heat recovery</b>
°	Without heat recovery
<b>12</b>	<b>Evaporator</b>
°	Standard
<b>13</b>	<b>Power supply</b>
°	400V ~ 3 50Hz with fuses
5	500V ~ 3 50Hz with fuses
8	400V ~ 3 50Hz with magnet circuit breakers
9	500V ~ 3 50Hz with magnet circuit breakers

## PERFORMANCE SPECIFICATIONS

### HWF - °

Size		2512	2812	3212	3612	4212	4812	5612
<b>Heating performance 40 °C / 45 °C (1)</b>								
Heating capacity	kW	697,4	792,2	934,8	1050,2	1211,3	1393,4	1572,5
Input power	kW	151,1	171,3	201,0	227,2	261,7	299,8	340,2
Heating total input current	A	269,0	303,0	340,0	374,0	450,0	507,0	580,0
COP	W/W	4,62	4,62	4,65	4,62	4,63	4,65	4,62
Water flow rate system side	l/h	121208	137688	162463	182522	210527	242177	273304
Pressure drop system side	kPa	14,0	14,0	15,0	13,0	15,0	20,0	16,0
Water flow rate source side	l/h	158554	180198	212916	238838	275582	317360	357628
Pressure drop source side	kPa	88	120	114	94	88	129	139

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

### HWF - A

Size		2512	2812	3212	3612	4212	4812	5612
<b>Heating performance 40 °C / 45 °C (1)</b>								
Heating capacity	kW	706,1	802,7	939,7	1061,0	1217,2	1371,7	1575,9
Input power	kW	146,3	166,5	195,1	220,1	252,2	284,3	327,1
Heating total input current	A	263,0	296,0	331,0	364,0	437,0	485,0	560,0
COP	W/W	4,83	4,82	4,82	4,82	4,83	4,82	4,82
Water flow rate system side	l/h	122715	139500	163314	184400	211554	238401	273893
Pressure drop system side	kPa	56,0	57,0	59,0	57,0	58,0	62,0	67,0
Water flow rate source side	l/h	162329	184476	215935	243871	279861	315346	362158
Pressure drop source side	kPa	94	129	122	88	127	86	90

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

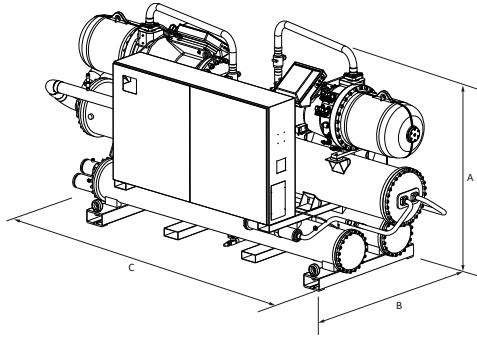
## ELECTRIC DATA

Size		2512	2812	3212	3612	4212	4812	5612
<b>Electric data</b>								
Maximum current (FLA)	A	370,0	418,0	468,0	516,0	612,0	690,0	776,0
Peak current (LRA)	A	545,0	613,0	670,0	723,0	892,0	995,0	1193,0

## GENERAL TECHNICAL DATA

Size		2512	2812	3212	3612	4212	4812	5612
<b>Compressor</b>								
Type	°A type							Screw
Compressor regulation	°A Type							On-Off
Number	°A no.	2	2	2	2	2	2	2
Circuits	°A no.	2	2	2	2	2	2	2
Refrigerant	°A type							R134a
<b>System side heat exchanger</b>								
Type	°A type							Shell and tube
Number	°A no.	1	1	1	1	1	1	1
<b>Source side heat exchanger</b>								
Type	°A type							Shell and tube
Number	°A no.	2	2	2	2	2	2	2
<b>System side hydraulic connections</b>								
Connections (in/out)	°A Type							Grooved joints
Sizes (in/out)	°A Ø	6"	6"	6"	8"	8"	8"	8"
	A Ø	8"	8"	8"	10"	10"	10"	10"
<b>Source side hydraulic connections</b>								
Connections (in/out)	°A Type							Grooved joints
Sizes (in/out)	°A Ø	5"	5"	5"	5"	5"	5"	6"
	A Ø	4"	4"	5"	5"	5"	5"	6"
Size		2512	2812	3212	3612	4212	4812	5612
<b>Set-up: °</b>								
<b>Sound data</b>								
Sound power level	°A dB(A)	97,3	95,5	94,6	93,7	93,5	94,0	93,6
Sound pressure level (10 m)	° dB(A)	65,1	63,4	62,5	61,6	61,4	62,0	61,6
	A dB(A)	65,0	63,3	62,4	61,5	61,3	61,9	61,5
<b>Set-up: L</b>								
<b>Sound data</b>								
Sound power level	°A dB(A)	85,5	86,2	87,0	87,9	90,2	89,8	91,0
Sound pressure level (10 m)	° dB(A)	53,5	54,2	54,9	55,8	58,1	57,7	58,8
	A dB(A)	53,4	54,1	54,8	55,7	58,0	57,6	58,7

## DIMENSIONS



Size			2512	2812	3212	3612	4212	4812	5612
<b>Dimensions and weights</b>									
A	°	mm	2100	2100	2050	2120	2140	2140	2210
	A	mm	2180	2180	2190	2340	2340	2340	2380
B	°	mm	1470	1470	1470	1520	1550	1550	1600
	A	mm	1470	1470	1537	1695	1695	1695	1700
C	°	mm	3690	3690	4030	4030	4370	4370	4610
	A	mm	4330	4330	4330	4370	4550	4550	4800
Empty weight	°	kg	3570	3650	4470	4750	5050	5180	6030
	A	kg	4080	4140	5470	5950	6240	6440	7230

Aermec si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto con eventuale modifica dei relativi dati tecnici.

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