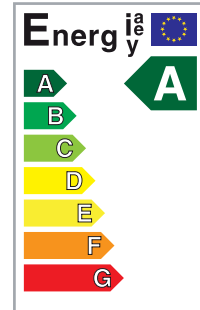


### R134a



Aermecc participates in the EUROVENT Certification Program up to 1500 kW  
 The products of interest figure in the EUROVENT Guide of Certified products.



- **OPTIMISED FOR LOW CONDENSATION TEMPERATURES**  
**for example appliances functioning in cooling mode only with well or tower water or appliances in heat pump mode with water produced at low temperature**
- **STANDARD AND HIGH EFFICIENCY VERSION**
- **CONDENSER WATER OUTLET TEMPERATURE MAXIMUM TEMPERATURE: 50 °C**
- **SHELL AND TUBE HEAT EXCHANGERS**
- **STANDARD ELECTRONIC THERMOSTATIC VALVE, WHICH ALLOWS:**
  - **THE PRODUCTION OF REFRIGERATED WATER UP TO – 6 °C**
  - **ADJUSTMENT OF THE COOLING CAPACITY VIA CONTINUOUS MODULATION 12.5–100%**

#### Features

- 8 sizes
- Two independent cooling circuits
- High efficiency screw compressors optimised for R134a
- Heat exchangers with very large exchange surfaces
- **Electronic thermostatic valve as per standard**
- Compact dimensions
- Suitable for use in heat pump mode with temperature of water produced up to 50 °C (with hydraulic inversion) with well water or geothermic probes. **For functioning in heating mode envision the IS accessory, condensers isolation**
- **Operational limits:**
  - **temperature of the water exiting the condenser up to 50 °C**
  - temperature of the water exiting the evaporator up to -6 °C
- **Available set-ups:**
  - partial heat recovery
  - total heat recovery
  - motor-evaporating
- reduced sound emission owing to compressors enclosed by thick galvanised sheet steel panels with high density sound-absorbent capacity
- **Microprocessor modular adjustment**
  - Redundancy of the components (one microprocessor per circuit)
  - Outlet water temperature control with continuous adjustment of capacity (12.5-100% for each compressor) and dynamic display of the cooling capacity
  - Control boards will numbered cables
  - Condensation control with 0-10Vdc signal for the management of a modulating valve/variable speed pump depending on the pressure
  - Standard amperometric transformer for each compressor
  - "Always Working" Function: in critical conditions, the machine does not stop but can self-adjust
- Automatic compensation of the Set Points with analogue input from 4 to 20 mA or 0 - 10 V or external air probe
- Self-adapting differential work switch to always assure the correct compressor functioning times
- PDC "Pull Down Control" System: prevents the increase in power when the water temperature quickly approaches the set-point
- DL "Demand Limit": allows to limit electrical absorption of the machine in the case of insufficient electrical power (load peaks or start-up of generators).
- Multi-language display of the parameters

#### Accessories

- **AER485P1:** RS-485 interface for supervising systems with MODBUS protocol.
- **PRV3:** Allows to control the chiller at a distance.
- **REF:** Current rephaser. Connected in parallel to the motor, it allows a reduction of the input current (about 10%). It can only be installed in the factory.
- **AVX:** Spring anti-vibration mounts.
- **AERWEB30:** the AERWEB device allows the remote control of a chiller from a common PC by means of a serial connection. By using additional modules the device allows control of the chiller by telephone network, using the **AERMODEM** accessory or GSM network, using the **AERMODEMGSM** accessory. The AERWEB can pilot up to 9 chillers, each of which **must be** equipped with the AER485 or AER485P2 accessory.
- **MULTICHILLER:** Control system for control, switch-on and switch-off of the single chillers in a plant in where multiple units are installed in parallel, always ensuring constant flow to the evaporators.
- **AKW (ACOUSTIC KIT):** Allows to lower the noise further via panelling of the machine optimised with high density ecological material. **Only available in L versions. It can only be installed in the factory.**
- **IS:** Isolation kit for condensers. Mandatory accessory for machine functioning in heat pump mode. **It can only be installed in the factory.**

Accessories compatibility								
Mod	2512	2812	3212	3612	4212	4812	5612	6412
AERWEB30	✓	✓	✓	✓	✓	✓	✓	✓
MULTICHILLER	✓	✓	✓	✓	✓	✓	✓	✓
AER485P1	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)	✓(x2)
PRV3	✓	✓	✓	✓	✓	✓	✓	✓
AVX	✓	✓	✓	✓	✓	✓	✓	✓
RIF	RIFWF 2512	RIFWF 2812	RIFWF 3212	RIFWF 3612	RIFWF 4212	RIFWF 4812	RIFWF 5612	RIFWF 6412
AKW(WF-L)	✓	✓	✓	✓	✓	✓	✓	✓
IS1	°/A	°/A	°	°	°	°	°	°
IS2			A	A	A	A		
IS3							A	A

AVX compatibility								
standard/standard silenced								
Mod WF	2512°	2812°	3212°	3612°	4212°	4812°	5612°	6412°
AVX	673	673	673	674	674	674	675	675
high efficiency/high efficiency silenced								
Mod WF	2512°L	2812°L	3212°L	3612°L	4212°L	4812°L	5612°L	6412°L
AVX	673	673	674	674	674	674	675	675
high efficiency/high efficiency silenced								
Mod WF	2512A	2812A	3212A	3612A	4212A	4812A	5612A	6412A
AVX	673	673	674	675	675	675	676	676
high efficiency/high efficiency silenced								
Mod WF	2512AL	2812AL	3212AL	3612AL	4212AL	4812AL	5612AL	6412AL
AVX	674	674	675	675	675	675	676	676

REF - AKW - IS are accessories installed only in the factory

° = standard version

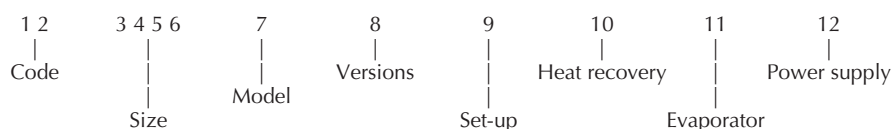
A = high efficiency version

°L/AL = silenced versions

## Choosing the unit

By appropriately combining the variety of options available, it is possible to configure every model in a manner that satisfies all specific implant requirements.

### Fields configurator:



#### Identification:

WF

Size:

2512, 2812, 3212, 3612, 4212, 4812, 5612, 6412

Model:

° - Optimised for low condensations

Versions:

° - Standard

A - High efficiency

Set-up:

° - Standard

L - Silenced

Heat recovery units:

° - Without heat recovery units

D - with partial recovery

T - with total recovery (not available for unit E)

#### Evaporator:

° - Standard

E - Motor-evaporating

Power supply:

° - 400V 3~50Hz with fuses

8 - 400V 3~50Hz with magnet circuit breakers

5 - 500V 3~50Hz with fuses (only for 2512 and 2812)

9 - 500V 3~50Hz with magnet circuit switches (only for 2512 and 2812)

**Caution:** the standard options are represented by the ° symbol;

Example of a sale code: **WF2512A8**

This is a high efficiency WF unit, with size 2512 in Standard version, with PED standard heat exchangers and electric control board for compressors with 400V 3~ 50Hz motors with magnet circuit breakers.

As it has been noted, as every option is represented unmistakably from all others, it is not necessary to indicate the standard options within the marketing brand (identified by °).

## Technical data

Mod WF		2512°	2812°	3212°	3612°	4212°	4812°	5612°	6412°
Cooling capacity	kW	632	723	875	987	1114	1281	1412	1553
Total input power	kW	122	139	169	190	214	246	272	300
Water flow rate at the evaporator	l/h	108704	124356	150500	169764	191608	220332	242864	267116
Pressure drop at the evaporator	kPa	41	58	56	47	43	62	65	75
Water consumption at the condenser	l/h	129688	148264	179568	202444	228416	262644	289648	318716
Pressure drop at the condenser	kPa	16	16	18	16	18	24	17	19
Input current	A	212	243	282	317	349	416	457	506
E.E.R.		5,18	5,20	5,18	5,19	5,21	5,21	5,19	5,18
E.E.R. class (Eurovent)		A	A	A	A	A	A	A	A
E.S.E.E.R.		6,16	6,19	6,16	6,18	6,19	6,20	6,18	6,16
Heating capacity	kW	678	775	939	1059	1194	1372	1514	1667
Total input power	kW	156	178	216	243	274	314	348	384
Water flow rate at the condenser	l/h	116616	133307	161508	182146	205368	235984	260408	286724
Pressure drop at the condenser	kPa	13	13	14	13	14	19	14	15
Water consumption at the evaporator	l/h	89784	102691	124356	140350	158240	181976	200552	220676
Pressure drop at the evaporator	kPa	28	39	38	32	29	43	44	51
Input current	A	271	312	361	406	447	533	585	648
C.O.P.		4,35	4,35	4,35	4,36	4,36	4,37	4,35	4,34
C.O.P. class (Eurovent)		B	B	B	B	B	B	B	B
Electric power supply		400V-3-50HZ							
Maximum current (FLA)	A	294	336	396	446	494	572	636	702
Peak current (LRA)	A	447	528	596	659	712	872	968	1156
Twin screw compressor	n°	2	2	2	2	2	2	2	2
Part load (electronic VT)	%	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100
Shell and tube evaporators	n°	1	1	1	1	1	1	1	1
Evaporator hydraulic connections (victaulic) Ø		6"	6"	6"	8"	8"	8"	8"	8"
Shell and tube condenser	n°	2	2	2	2	2	2	2	2
Condenser hydraulic connections (victaulic) Ø		5"	5"	5"	5"	5"	5"	6"	6"
Sound pressure (1)	db(A)	93,6	94,0	93,5	93,7	94,6	95,5	97,3	97,9
Sound pressure	db(A)	61,6	62,0	61,5	61,7	62,6	63,5	65,3	65,9

Mod WF		2512A	2812A	3212A	3612A	4212A	4812A	5612A	6412A
Cooling capacity	kW	641	728	891	1007	1137	1282	1417	1554
Total input power	kW	115	131	160	180	203	229	258	285
Water flow rate at the evaporator	l/h	110252	125216	153252	173204	195564	220504	243724	267288
Pressure drop at the evaporator	kPa	44	59	62	44	62	42	41	51
Water consumption at the condenser	l/h	130032	147748	180772	204164	230480	259892	288100	316308
Pressure drop at the condenser	kPa	63	64	72	69	69	74	74	77
Input current	A	202	232	268	303	332	392	437	483
E.E.R.		5,57	5,56	5,57	5,59	5,60	5,60	5,49	5,45
E.E.R. class (Eurovent)		A	A	A	A	A	A	A	A
E.S.E.E.R.		6,63	6,61	6,63	6,66	6,67	6,66	6,54	6,49
Heating capacity	kW	676	769	940	1062	1199	1353	1501	1648
Total input power	kW	147	167	204	231	260	293	330	364
Water flow rate at the condenser	l/h	116272	132268	161680	182664	206228	232716	258172	283456
Pressure drop at the condenser	kPa	51	51	58	56	55	59	59	62
Water consumption at the evaporator	l/h	90986	103544	126592	142932	161508	182320	201412	220848
Pressure drop at the evaporator	kPa	30	40	42	30	42	29	28	35
Input current	A	258	297	343	388	425	501	559	619
C.O.P.	W/W	4,60	4,60	4,61	4,60	4,61	4,62	4,55	4,53
C.O.P. class (Eurovent)		A	A	A	A	A	A	A	A
Electric power supply		400V-3-50Hz							
Maximum current (FLA)	A	294	336	396	446	494	572	636	702
Peak current (LRA)	A	447	528	596	659	712	872	968	1156
Twin screw compressor	n°	2	2	2	2	2	2	2	2
Part load (electronic VT)	%	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100
Shell and tube evaporators	n°	1	1	1	1	1	1	1	1
Evaporator hydraulic connections (victaulic) Ø		8"	8"	8"	10"	10"	10"	10"	10"
Shell and tube condenser	n°	2	2	2	2	2	2	2	2
Condenser hydraulic connections (victaulic) Ø		4"	4"	5"	5"	5"	5"	6"	6"
Sound pressure (1)	db(A)	93,6	94,0	93,5	93,7	94,6	95,5	97,3	97,9
Sound pressure	db(A)	61,6	62,0	61,5	61,7	62,6	63,5	65,3	65,9

(1) Sound pressure measured in free field with directionality factor 2 at 10 m, in agreement with the ISO 3744 Standard.

The performance declares refers to the following conditions:

Cooling:

- Evaporator water (in/out) 12°C/7°C
- Evaporator water (in/out) 30°C/35°C

Heating:

- Evaporator water (in/out) 40°C/45°C
- Evaporator water (in/out) 10°C/5°C

- With isolation of the condensers (mandatory accessory)

## Technical data

Mod WF		2512°E	2812°E	3212° E	3612°E	4212° E	4812°E	5612°E	6412°E
Cooling capacity	kW	547	624	748	842	954	1077	1208	1328
Total input power	kW	143	162	195	221	247	279	313	345
Water flow rate at the evaporator	l/h	94084	107328	128656	144824	164088	185244	207776	228416
Pressure drop at the evaporator	kPa	31	43	41	34	31	44	47	55
Input current	A	242	277	321	363	398	465	516	571
E.E.R.		3,83	3,85	3,84	3,81	3,86	3,86	3,86	3,85
E.E.R. class (Eurovent)		A	A	A	A	A	A	A	A
Electric power supply		400V-3-50Hz							
Maximum current (FLA)	A	294	336	396	446	494	572	636	702
Peak current (LRA)	A	447	528	596	659	712	872	968	1156
Twin screw compressor	n°	2	2	2	2	2	2	2	2
Partialisation (electronic VT)	%	35-100	35-100	35-100	35-100	35-100	35-100	35-100	35-100
Shell and tube evaporators	n°	1	1	1	1	1	1	1	1
Evaporator hydraulic connections (victaulic) Ø		6"	6"	6"	8"	8"	8"	8"	8"
Sound pressure (1)	db(A)	93,6	94	93,5	93,7	94,6	95,5	97,3	97,9
Sound power	db(A)	61,6	62,0	61,5	61,7	62,6	63,5	65,3	65,9

Mod WF		2512AE	2812AE	3212AE	3612AE	4212AE	4812AE	5612AE	6412AE
Cooling capacity	kW	585	665	800	899	1016	1148	1246	1382
Total input power	kW	143	162	195	221	248	280	313	346
Water flow rate at the evaporator	l/h	100620	114380	137600	154628	174752	197456	214312	237704
Pressure drop at the evaporator	kPa	36	49	50	35	49	34	31	40
Input current	A	242	277	321	363	400	465	518	573
E.E.R.		4,09	4,10	4,10	4,07	4,10	4,10	3,98	3,99
E.E.R. class (Eurovent)		A	A	A	A	A	A	A	A
Electric power supply		400V-3-50Hz							
Maximum current (FLA)	A	294	336	396	446	494	572	636	702
Peak current (LRA)	A	447	528	596	659	712	872	968	1156
Twin screw compressor	n°	2	2	2	2	2	2	2	2
Part load (electronic VT)	%	35-100	35-100	35-100	35-100	35-100	35-100	35-100	35-100
Shell and tube evaporators	n°	1	1	1	1	1	1	1	1
Evaporator hydraulic connections (victaulic) Ø		8"	8"	8"	10"	10"	10"	10"	10"
Sound pressure (1)	db(A)	93,6	94	93,5	93,7	94,6	95,5	97,3	97,9
Sound power	db(A)	61,6	62,0	61,5	61,7	62,6	63,5	65,3	65,9

(1) Sound pressure measured in free field with directionality factor 2 at 10 m, in agreement with the ISO 3744 Standard.

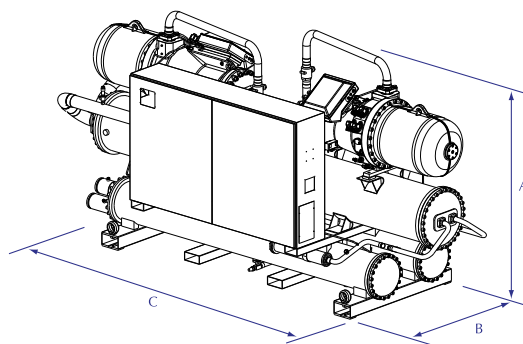
The performance refers to the following conditions:

Cooling:  
Evaporator water (in/out) = 12 °C/7°C  
Condensation T. = 45°C

## Dimensional data (mm)

Mod WF		2512°	2812°	3212°	3612°	4212°	4812°	5612°	6412°
Height (A)	mm	2100	2100	2050	2120	2140	2140	2210	2210
Width (B)	mm	1470	1470	1470	1520	1550	1550	1600	1600
Length (C)	mm	3690	3690	4030	4030	4370	4370	4610	4760
Weight	Kg	3570	3650	4470	4750	5050	5180	6030	6260

Mod WF		2512A	2812A	3212A	3612A	4212A	4812A	5612A	6412A
Height (A)	mm	2180	2180	2190	2340	2340	2340	2380	2380
Width (B)	mm	1470	1470	1537	1695	1695	1695	1700	1700
Length (C)	mm	4330	4330	4330	4370	4550	4550	4800	4800
Weight	Kg	4080	4140	5470	5950	6240	6440	7230	7360



**Caution:** For the dimensions of versions D - T - L - E contact the head office