# WFI

## Water cooled heat pump reversible water side

**Cooling capacity 670 ÷ 2406 kW**
**Heating capacity 746 ÷ 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 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 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.**

#### 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.
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 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 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 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.
**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.

**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 | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AER485P1 x n° 2 (1) | A | • | • | • | • | • | • | • | • | | | | |
| AER485P1 x n° 3 (1) | °,A | | | | | | | | | • | • | • | • |
| AERBACP | ° | | | | | | | | | • | • | • | • |
| | A | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | ° | | | | | | | | | • | • | • | • |
| | A | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | ° | | | | | | | | | • | • | • | • |
| | A | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | ° | | | | | | | | | • | • | • | • |
| | A | • | • | • | • | • | • | • | • | • | • | • | • |

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

### *Antivibration*

| Version | Set-up | Heat recovery | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | °,K,L | °,D,T | - | - | - | - | - | - | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| A | ° | ° | AVX673 | AVX674 | AVX679 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | ° | D | AVX674 | AVX674 | AVX679 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | L | ° | AVX674 | AVX674 | AVX679 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | ° | T | AVX674 | AVX674 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | L | D,T | AVX674 | AVX674 | AVX679 | AVX679 | AVX678 | 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. | Contact us. | Contact us. |

- not available

### *Power factor correction*

| Ver | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | - | - | - | - | - | - | - | - | RIFWFI6703 | RIFWFI7203 | RIFWFI8403 | RIFWFI9603 |
| A | RIFWFI2502 | RIFWFI2802 | RIFWFI3202 | RIFWFI3602 | RIFWFI4202 | RIFWFI4802 | RIFWFI5602 | RIFWFI6402 | RIFWFI6703 | RIFWFI7203 | RIFWFI8403 | RIFWFI9603 |

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 | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | - | - | - | - | - | - | - | - | ISG5 | ISG5 | ISG6 | ISG6 |
| A | ISG1 | ISG1 | ISG2 | ISG2 | ISG2 | ISG3 | ISG3 | ISG3 | ISG7 | ISG8 | ISG8 | ISG8 |

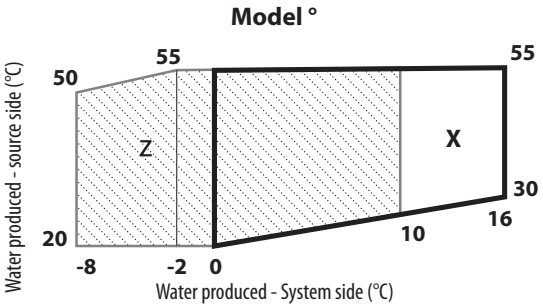
A grey background indicates the accessory must be assembled in the factory

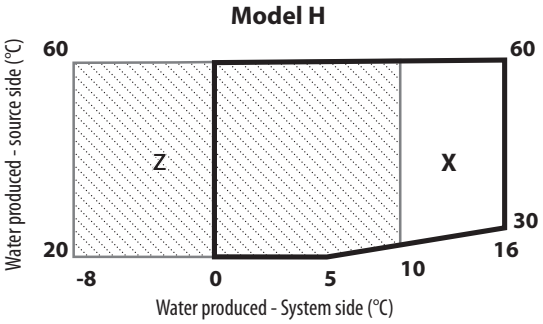
## CONFIGURATOR

| Field | Description |
|---|---|
| **1,2,3** | **WFI** |
| **4,5,6,7** | **Size**<br>2502, 2802, 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 |
| **15** | **Refrigerant gas** |
| ° | R134a |
| G | R513A (XP10) (5) |

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

## OPERATING LIMITS




## MODEL PERFORMANCE DATA (°) - FOR CONDENSING TEMPERATURES UP TO 55°C

### *WFI - 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 (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 performance 40 °C / 45 °C (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 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

### *WFI - model (°) version ° - gas R134a*

| Size | | | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|
| **Model: °** | | | | | | |
| **Cooling performance 12 °C / 7 °C (1)** | | | | | | |
| Cooling capacity | kW | | 1723,4 | 1905,7 | 2114,5 | 2327,9 |
| Input power | kW | | 331,7 | 366,9 | 409,8 | 463,6 |
| Cooling total input current | A | | 522,0 | 592,0 | 659,0 | 744,0 |
| EER | W/W | | 5,20 | 5,19 | 5,16 | 5,02 |
| Water flow rate source side | l/h | | 350768 | 387913 | 431371 | 476493 |
| Pressure drop source side | kPa | | 73 | 69 | 58 | 71 |
| Water flow rate system side | l/h | | 296246 | 327572 | 363441 | 400118 |
| Pressure drop system side | kPa | | 47 | 51 | 39 | 46 |
| **Heating performance 40 °C / 45 °C (2)** | | | | | | |
| Heating capacity | kW | | 1909,4 | 2114,9 | 2342,8 | 2593,9 |
| Input power | kW | | 418,2 | 463,2 | 513,0 | 581,3 |
| Heating total input current | A | | 651,0 | 737,0 | 817,0 | 922,0 |
| COP | W/W | | 4,57 | 4,57 | 4,57 | 4,46 |
| Water flow rate system side | l/h | | 331680 | 367403 | 407019 | 450652 |
| Pressure drop system side | kPa | | 65 | 62 | 52 | 63 |
| Water flow rate source side | l/h | | 438855 | 486287 | 537130 | 592236 |
| Pressure drop source side | kPa | | 103 | 112 | 85 | 102 |

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

## Energy indices (Reg. 2016/2281 EU)

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model: °** | | | | | | | | | | | | | | |
| **SEER - 12/7 (EN14825: 2018) . refrigerant gas R134a (1)** | | | | | | | | | | | | | | |
| Seasonal efficiency | ° | % | - | - | - | - | - | - | - | - | 319.8% | 319.2% | 318.2% | 313.6% |
| | A | % | 339.2% | 340.0% | 341.7% | 340.2% | 337.9% | 340.3% | 343.5% | 344.3% | 343.1% | 341,0% | 340.5% | 342.5% |
| SEER | ° | W/W | - | - | - | - | - | - | - | - | 8,07 | 8,06 | 8,03 | 7,92 |
| | A | W/W | 8,56 | 8,58 | 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 | 9,10 | 9,00 | 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 | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model: °** | | | | | | | | | | | | | | |
| **Electric data** | | | | | | | | | | | | | | |
| Maximum current (FLA) | ° | A | - | - | - | - | - | - | - | - | 862,9 | 965,5 | 1077,5 | 1211,4 |
| | A | A | 354,5 | 395,1 | 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 | 506,0 | 550,0 | 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 CONDENSING TEMPERATURES UP TO 60°C

### *WFI - 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 (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 performance 40 °C / 45 °C (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 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

### *WFI - model (H) version ° - gas R134a*

| Size | | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|
| **Model: H** | | | | | |
| **Cooling performance 12 °C / 7 °C (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 performance 40 °C / 45 °C (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 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

## Energy indices (Reg. 2016/2281 EU)

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model: H** | | | | | | | | | | | | | | |
| **SEER - 12/7 (EN14825: 2018) . refrigerant gas R134a (1)** | | | | | | | | | | | | | | |
| Seasonal efficiency | ° | % | - | - | - | - | - | - | - | - | 279.7% | 281.0% | 284.8% | 278.6% |
| | A | % | 298.0% | 297.1% | 301.3% | 295.4% | 301.8% | 303.6% | 307.3% | 298,0% | 297.8% | 295.6% | 296.9% | 297.5% |
| SEER | ° | W/W | - | - | - | - | - | - | - | - | 7,07 | 7,10 | 7,20 | 7,04 |
| | A | W/W | 7,53 | 7,50 | 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 | 8,80 | 8,80 | 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 | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model: H** | | | | | | | | | | | | | | |
| **Electric data** | | | | | | | | | | | | | | |
| Maximum current (FLA) | ° | A | - | - | - | - | - | - | - | - | 954,0 | 1052,0 | 1180,0 | 1290,0 |
| | A | A | 378,0 | 428,0 | 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 | 507,0 | 560,0 | 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 | | 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) | 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

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

***Model output data - model WFI° - AE - 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 | 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 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) | 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

## GENERAL TECHNICAL DATA

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Compressor** | | | | | | | | | | | | | | |
| Type | °,A | type | Screw | | | | | | | | | | | |
| Compressor regulation | °,A | Type | Inverter+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 | | | | | | | | | | | |
| Refrigerant load circuit 1 (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 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 |
| 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 | | | | | | | | | | | |

(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.

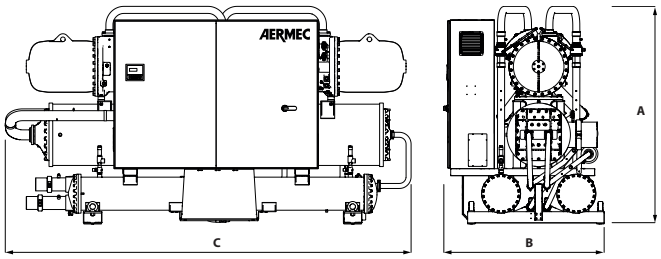
## SOUND DATA

### *Sound data calculated with functioning in cooling mode - R134a gas*

| Size | | | 2502 | 2802 | 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) | 96,9 | 97,4 | 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) | 89,3 | 89,6 | 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) | 86,3 | 86,7 | 87,4 | 87,5 | 88,5 | 88,1 | 88,2 | 88,8 | 89,4 | 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) | 97,3 | 97,7 | 98,8 | 98,8 | 98,9 | 98,9 | 99,3 | 100,0 | 99,5 | 100,6 | 101,0 | 102,0 |
| **Silenced equipment** | | | | | | | | | | | | | | |
| Sound power level (1) | ° | dB(A) | - | - | - | - | - | - | - | - | 94,4 | 94,6 | 94,6 | 94,9 |
| | A | dB(A) | 89,5 | 90,0 | 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) | 86,5 | 87,0 | 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 | | | 2502 | 2802 | 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 | 2131 | 2131 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| B | ° | mm | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| | A | mm | 1645 | 1645 | 1675 | 1675 | 1685 | 1875 | 1875 | 2000 | 2200 | 2200 | 2200 | 2200 |
| C | ° | mm | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| | A | mm | 4320 | 4345 | 4380 | 4380 | 4395 | 4500 | 4580 | 4580 | 5650 | 5650 | 5650 | 5650 |
| Empty weight | ° | kg | - | - | - | - | - | - | - | - | 8740 | 9680 | 9900 | 10000 |
| | A | kg | 3710 | 3980 | 5160 | 5220 | 5710 | 6440 | 6680 | 6770 | 9730 | 11440 | 11980 | 12060 |

### *Unit dimensions and weights °/H in silenced configuration*

| Size | | | 2502 | 2802 | 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 | 2131 | 2131 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| B | ° | mm | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| | A | mm | 1645 | 1645 | 1675 | 1675 | 1685 | 1875 | 1875 | 2000 | 2200 | 2200 | 2200 | 2200 |
| C | ° | mm | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| | A | mm | 4320 | 4345 | 4630 | 4630 | 4600 | 5015 | 5060 | 5060 | 5650 | 5650 | 5650 | 5650 |
| Empty weight | ° | kg | - | - | - | - | - | - | - | - | 9270 | 10240 | 10510 | 10610 |
| | A | kg | 4020 | 4290 | 5500 | 5560 | 6050 | 6810 | 7080 | 7170 | 10260 | 12000 | 12590 | 12670 |
| **Super silenced equipment dimensions and weights** | | | | | | | | | | | | | | |
| A | ° | mm | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| | A | mm | 2131 | 2131 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| B | ° | mm | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| | A | mm | 1645 | 1645 | 1675 | 1675 | 1685 | 1875 | 1875 | 2000 | 2200 | 2200 | 2200 | 2200 |
| C | ° | mm | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| | A | mm | 4320 | 4345 | 4630 | 4630 | 4600 | 5015 | 5060 | 5060 | 5650 | 5650 | 5650 | 5650 |
| Empty weight | ° | kg | - | - | - | - | - | - | - | - | 9890 | 10890 | 11230 | 11330 |
| | A | kg | 4400 | 4670 | 5910 | 5970 | 6460 | 7240 | 7550 | 7640 | 10880 | 12650 | 13310 | 13390 |

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



**Aermec S.p.A.**
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com