

## WMX

## Water-water chiller

Cooling capacity 280,1 ÷ 324,2 kW

- High efficiency also at partial loads  
ESEER 8,4
- Compact design
- Extremely flexible and reliable



### DESCRIPTION

Indoor unit for the production of chilled water, equipped with magnetic levitation centrifugal compressors and system side, flooded source heat exchangers that guarantee a 50% reduction of the refrigerant load in comparison to conventional flooded heat exchangers.

The base the structure and the panels are made of steel treated with polyester paint RAL 9003.

The technological choices made, always oriented to the highest quality and efficiency can reach 5.71 EER values (class A for the working conditions Eurovent).

### EFFICIENCY

**A** High efficiency

**U** Very high efficiency

**Both units can be silenced.**

### FEATURES

- 5 times lighter than an equivalent screw compressor.
- Extremely compact wide to allow access through a standard doorway.
- High efficiency with generously sizes heat exchanger.

### Two-stage, oil-free centrifugal compressor with latest-generation magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

Provided with inverter technology that permits capacity modulation down to 30% A version.

**Built-in device to reduce starting current (only 6 Amps!)**

### Operating field

Water produced from 20 °C up to 45 °C on Condenser side and from 5 °C up to 20 °C on Evaporator side.

### Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

### CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

### ACCESSORIES

**AER485P1:** RS-485 interface for supervision systems with MODBUS 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.

**PTW:** Allows you to control the unit at a distance.

## CONFIGURATOR

| Field | Description     |
|-------|-----------------|
| 1,2,3 | WMX             |
| 4,5,6 | Size<br>300     |
| 7     | Efficiency      |
| A     | High efficiency |

| Field | Description          |
|-------|----------------------|
| U     | Very high efficiency |
| 8     | Version              |
| °     | Standard             |
| L     | Silenced             |

## PERFORMANCE SPECIFICATIONS

|                                      |     |     |       |
|--------------------------------------|-----|-----|-------|
| Size                                 | 300 |     |       |
| Efficiency: A                        |     |     |       |
| Cooling performance 12 °C / 7 °C (1) |     |     |       |
| Cooling capacity                     | °L  | kW  | 324,2 |
| Input power                          | °L  | kW  | 60,3  |
| Cooling total input current          | °L  | A   | 94,0  |
| EER                                  | °L  | W/W | 5,37  |
| Water flow rate system side          | °L  | l/h | 55761 |
| Pressure drop system side            | °L  | kPa | 34    |
| Water flow rate source side          | °L  | l/h | 65750 |
| Pressure drop source side            | °L  | kPa | 41    |
| Efficiency: U                        |     |     |       |
| Cooling performance 12 °C / 7 °C (1) |     |     |       |
| Cooling capacity                     | °L  | kW  | 280,1 |
| Input power                          | °L  | kW  | 48,9  |
| Cooling total input current          | °L  | A   | 78,0  |
| EER                                  | °L  | W/W | 5,72  |
| Water flow rate system side          | °L  | l/h | 48180 |
| Pressure drop system side            | °L  | kPa | 25    |
| Water flow rate source side          | °L  | l/h | 56338 |
| Pressure drop source side            | °L  | kPa | 30    |

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

## ENERGY INDICES (REG. 2016/2281 EU)

| Size                                         | 300 |     |        |
|----------------------------------------------|-----|-----|--------|
| SEER - 12/7 (EN14825: 2018) (1)              |     |     |        |
| SEER                                         | A   | W/W | 8,99   |
|                                              | U   | W/W | 9,04   |
| Seasonal efficiency                          | A   | %   | 356,6% |
|                                              | U   | %   | 358,5% |
| SEPR - (EN 14825: 2018) High temperature (2) |     |     |        |
| SEPR                                         | A   | W/W | 9,70   |
|                                              | U   | W/W | 10,35  |

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Calculation performed with FIXED water flow rate.

## ELECTRIC DATA

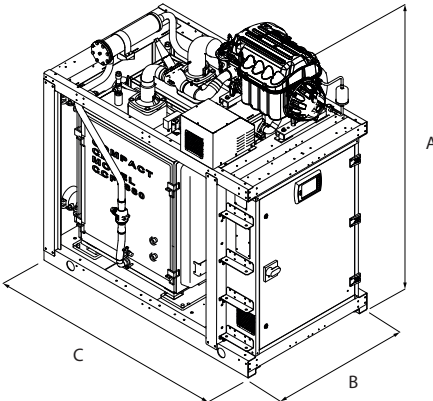
|                       |     |   |       |
|-----------------------|-----|---|-------|
| Size                  | 300 |   |       |
| Efficiency: A, U      |     |   |       |
| Electric data         |     |   |       |
| Maximum current (FLA) | °L  | A | 135,0 |
| Peak current (LRA)    | °L  | A | 6,0   |

GENERAL TECHNICAL DATA

|                                           |    |       |                                                    |
|-------------------------------------------|----|-------|----------------------------------------------------|
| Size                                      |    |       | 300                                                |
| Efficiency: A, U                          |    |       |                                                    |
| Compressor                                |    |       |                                                    |
| Type                                      | °L | type  | Centrifugal                                        |
| Compressor regulation                     | °L | Type  | Inverter                                           |
| Number                                    | °L | no.   | 1                                                  |
| Circuits                                  | °L | no.   | 1                                                  |
| Refrigerant                               | °L | type  | R134a                                              |
| Source side heat exchanger                |    |       |                                                    |
| Type                                      | °L | type  | Shell and tube - flooded compact                   |
| Number                                    | °L | no.   | 1                                                  |
| Connections (in/out)                      | °L | Type  | Grooved joints                                     |
| Sizes (in/out)                            | °L | Ø     | 4"                                                 |
| System side heat exchanger                |    |       |                                                    |
| Type                                      | °L | type  | Shell and tube - flooded compact with Spray system |
| Number                                    | °L | no.   | 1                                                  |
| Connections (in/out)                      | °L | Type  | Grooved joints                                     |
| Sizes (in/out)                            | °L | Ø     | 4"                                                 |
| Size                                      |    |       | 300                                                |
| Efficiency: A                             |    |       |                                                    |
| Sound data calculated in cooling mode (1) |    |       |                                                    |
| Sound power level                         | °  | dB(A) | 90,0                                               |
|                                           | L  | dB(A) | 84,0                                               |
| Efficiency: U                             |    |       |                                                    |
| Sound data calculated in cooling mode (1) |    |       |                                                    |
| Sound power level                         | °  | dB(A) | 85,0                                               |
|                                           | L  | dB(A) | 78,0                                               |

(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



|                        |    |    |      |
|------------------------|----|----|------|
| Size                   |    |    | 300  |
| Efficiency: A, U       |    |    |      |
| Dimensions and weights |    |    |      |
| A                      | °  | mm | 1905 |
|                        | L  | mm | 1942 |
| B                      | °L | mm | 1041 |
|                        | °L | mm | 1770 |
| Empty weight           | °  | kg | 2025 |
|                        | L  | kg | 2210 |

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## WMG

## Water-water chiller

Cooling capacity 282,3 ÷ 312,4 kW

- High efficiency also at partial loads  
ESEER 8,4
- Compact design
- Extremely flexible and reliable



### DESCRIPTION

Indoor unit for the production of chilled water, equipped with magnetic levitation centrifugal compressors and system side, flooded source heat exchangers that guarantee a 50% reduction of the refrigerant load in comparison to conventional flooded heat exchangers.

The base the structure and the panels are made of steel treated with polyester paint RAL 9003.

The technological choices made, always oriented to the highest quality and efficiency can reach 5.71 EER values (class A for the working conditions Eurovent).

### EFFICIENCY

**A** High efficiency

**U** Very high efficiency

**Both units can be silenced.**

### FEATURES

- 5 times lighter than an equivalent screw compressor.
- Extremely compact wide to allow access through a standard doorway.
- High efficiency with generously sizes heat exchanger.

### HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

**da ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430;**

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

### Two-stage, oil-free centrifugal compressor with latest-generation magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

Provided with inverter technology that permits capacity modulation down to 30% A version.

**Built-in device to reduce starting current (only 6 Amps!)**

### Operating field

Water produced from 20 °C up to 55 °C on Condenser side and from 5 °C up to 20 °C on Evaporator side.

### Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

### CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

### ACCESSORIES

**AER485P1:** RS-485 interface for supervision systems with MODBUS 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.

**PTW:** Allows you to control the unit at a distance.

## CONFIGURATOR

| Field | Description     |
|-------|-----------------|
| 1,2,3 | WMG             |
| 4,5,6 | Size<br>300     |
| 7     | Efficiency      |
| A     | High efficiency |

| Field | Description          |
|-------|----------------------|
| U     | Very high efficiency |
| 8     | Version              |
| °     | Standard             |
| L     | Silenced             |

## PERFORMANCE SPECIFICATIONS

|                                      |     |     |       |
|--------------------------------------|-----|-----|-------|
| Size                                 | 300 |     |       |
| Efficiency: A                        |     |     |       |
| Cooling performance 12 °C / 7 °C (1) |     |     |       |
| Cooling capacity                     | °L  | kW  | 312,4 |
| Input power                          | °L  | kW  | 57,6  |
| Cooling total input current          | °L  | A   | 85,0  |
| EER                                  | °L  | W/W | 5,42  |
| Water flow rate system side          | °L  | l/h | 53731 |
| Pressure drop system side            | °L  | kPa | 31    |
| Water flow rate source side          | °L  | l/h | 63303 |
| Pressure drop source side            | °L  | kPa | 36    |
| Efficiency: U                        |     |     |       |
| Cooling performance 12 °C / 7 °C (1) |     |     |       |
| Cooling capacity                     | °L  | kW  | 282,3 |
| Input power                          | °L  | kW  | 49,1  |
| Cooling total input current          | °L  | A   | 74,0  |
| EER                                  | °L  | W/W | 5,75  |
| Water flow rate system side          | °L  | l/h | 48548 |
| Pressure drop system side            | °L  | kPa | 25    |
| Water flow rate source side          | °L  | l/h | 56739 |
| Pressure drop source side            | °L  | kPa | 29    |

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

## ENERGY INDICES (REG. 2016/2281 EU)

|                                              |     |     |        |
|----------------------------------------------|-----|-----|--------|
| Size                                         | 300 |     |        |
| SEER - 12/7 (EN14825:2018) (1)               |     |     |        |
| SEER                                         | A   | W/W | 8,88   |
|                                              | U   | W/W | 8,91   |
| Seasonal efficiency                          | A   | %   | 352,0% |
|                                              | U   | %   | 353,4% |
| SEPR - (EN 14825: 2018) High temperature (2) |     |     |        |
| SEPR                                         | A   | W/W | 9,96   |
|                                              | U   | W/W | 10,37  |

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Calculation performed with FIXED water flow rate.

## ELECTRIC DATA

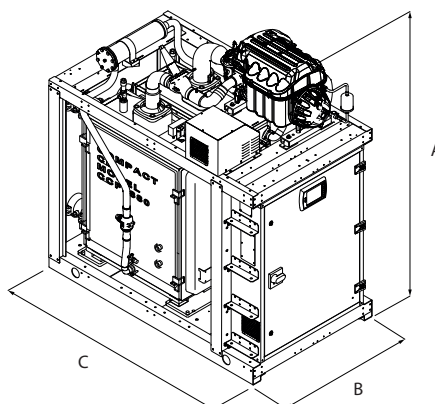
|                       |    |   |       |
|-----------------------|----|---|-------|
| Size                  |    |   | 300   |
| Efficiency: A, U      |    |   |       |
| Electric data         |    |   |       |
| Maximum current (FLA) | °L | A | 150,0 |
| Peak current (LRA)    | °L | A | 6,0   |

## GENERAL TECHNICAL DATA

|                                                  |    |       |                                                    |
|--------------------------------------------------|----|-------|----------------------------------------------------|
| <b>Size</b>                                      |    |       | <b>300</b>                                         |
| <b>Efficiency: A, U</b>                          |    |       |                                                    |
| <b>Compressor</b>                                |    |       |                                                    |
| Type                                             | °L | type  | Centrifugal                                        |
| Compressor regulation                            | °L | Type  | Inverter                                           |
| Number                                           | °L | no.   | 1                                                  |
| Circuits                                         | °L | no.   | 1                                                  |
| Refrigerant                                      | °L | type  | R1234ze                                            |
| <b>Source side heat exchanger</b>                |    |       |                                                    |
| Type                                             | °L | type  | Shell and tube - flooded compact                   |
| Number                                           | °L | no.   | 1                                                  |
| Connections (in/out)                             | °L | Type  | Grooved joints                                     |
| Sizes (in/out)                                   | °L | Ø     | 4"                                                 |
| <b>System side heat exchanger</b>                |    |       |                                                    |
| Type                                             | °L | type  | Shell and tube - flooded compact with Spray system |
| Number                                           | °L | no.   | 1                                                  |
| Connections (in/out)                             | °L | Type  | Grooved joints                                     |
| Sizes (in/out)                                   | °L | Ø     | 4"                                                 |
| <b>Size</b>                                      |    |       | <b>300</b>                                         |
| <b>Efficiency: A</b>                             |    |       |                                                    |
| <b>Sound data calculated in cooling mode (1)</b> |    |       |                                                    |
| Sound power level                                | °  | dB(A) | 90,0                                               |
|                                                  | L  | dB(A) | 85,0                                               |
| <b>Efficiency: U</b>                             |    |       |                                                    |
| <b>Sound data calculated in cooling mode (1)</b> |    |       |                                                    |
| Sound power level                                | °  | dB(A) | 84,0                                               |
|                                                  | L  | dB(A) | 78,0                                               |

(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



|                               |    |    |            |
|-------------------------------|----|----|------------|
| <b>Size</b>                   |    |    | <b>300</b> |
| <b>Efficiency: A, U</b>       |    |    |            |
| <b>Dimensions and weights</b> |    |    |            |
| A                             | °  | mm | 1905       |
|                               | L  | mm | 1942       |
| B                             | °L | mm | 1041       |
|                               | °L | mm | 1770       |
| Empty weight                  | °  | kg | 2065       |
|                               | L  | kg | 2250       |

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## TW110

## Water cooled modular chiller with refrigerant R134a

Cooling capacity 285,0 kW

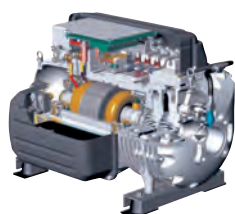
- Compact dimensions
- Extraordinary efficiency at part load



### CHARACTERISTICS

- Cooling only version
- New generation two-stage oil free centrifugal compressor with magnetic levitation friction free bearings
- Plate heat exchangers optimised for use with refrigerant R134a
- Extremely compact: only 805 mm wide to allow access through a standard doorway
- Component layout designed to enable several units to be positioned side by side in restricted plant rooms. Ideal when standby is required or when cooling duty is to be increased at a later date
- High efficiency with generously sized heat exchanger
- Extraordinary efficiency at part load (**up to 30% higher IPLV when compared with standard chillers**)
- Electronic expansion valve

### Compressor features



**HERCULES**

- Operates without oil as bearings are magnetic levitation type. Vibration free and very quiet
- Provided with inverter technology that permits capacity modulation down to 25%
- Integrated controller that reduces starting current to 6 A only
- 5 times lighter than an equivalent screw compressor
- Electronic controller for monitoring and proactive controls

### Control

- Microprocessor control system
- LCD user interface: colour touch-screen with simple and intuitive graphical menu

### Acoustic enclosure

Heavy gauge galvanized sheet steel with internal acoustic insulation.

### ACCESSORIES

**AER485P1TW:** RS-485 interface for supervision systems with MODBUS protocol.

**PTW:** Remote control of chiller operating functions.

**MULTICHILLER\_EVO:** Control system to command, activate and deactivate the individual chillers in a system in which several units are installed in parallel, always ensuring constant delivery to the evaporators. (When this accessory is present, **the AER485P1TW is factory fitted as standard**).

## PERFORMANCE SPECIFICATIONS

| Size                            | 110       |
|---------------------------------|-----------|
| <b>Cooling performances (1)</b> |           |
| Cooling capacity                | kW 285,0  |
| Total input power               | kW 56,4   |
| Cooling total input current     | A 88      |
| EER                             | 5,05      |
| Water flow rate system side     | l/h 48966 |
| Pressure drop system side       | kPa 30    |
| Water flow rate source side     | l/h 58632 |
| Pressure drop source side       | kPa 43    |

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

## ENERGY INDICES (REG. 2016/2281 EU)

| Size                                   | 110      |
|----------------------------------------|----------|
| <b>SEER - 12/7 (EN14825: 2018) (1)</b> |          |
| SEER                                   | W/W 7,48 |
| $\eta_{sc}$                            | % 296,0% |

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

## ELECTRIC DATA

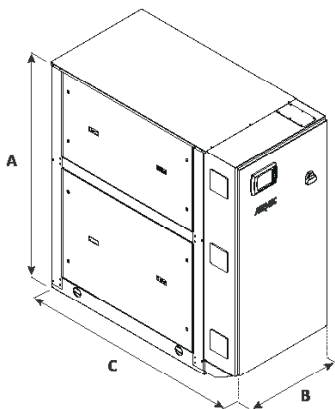
| Size                  | 110          |
|-----------------------|--------------|
| <b>Electric data</b>  |              |
| Power supply          | 400V 3~ 50Hz |
| Maximum current (FLA) | A 134,0      |
| Peak current (LRA)    | A 6,0        |

## GENERAL TECHNICAL DATA

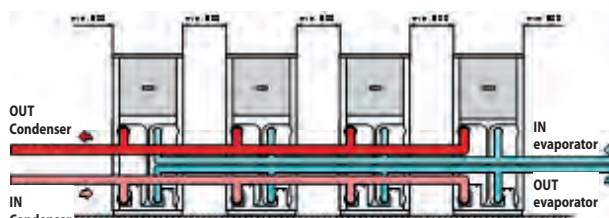
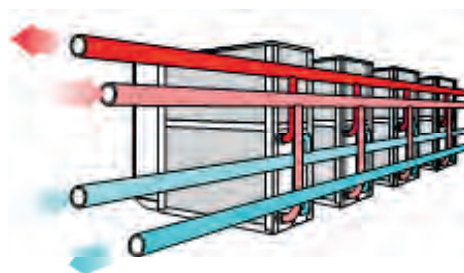
| Size                                     | 110                 |
|------------------------------------------|---------------------|
| <b>Source side hydraulic connections</b> |                     |
| Connections (in/out)                     | type Grooved joints |
| Sizes (in/out)                           | Ø 3"                |
| <b>System side hydraulic connections</b> |                     |
| Connections (in/out)                     | type Grooved joints |
| Sizes (in/out)                           | Ø 3"                |
| <b>Sound data (1)</b>                    |                     |
| Sound power                              | dB(A) 77            |
| Sound pressure                           | dB(A) 49            |

(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



| Size                          | 110     |
|-------------------------------|---------|
| <b>Dimensions and weights</b> |         |
| A                             | mm 1727 |
| B                             | mm 805  |
| C                             | mm 1653 |
| Weight                        | kg 960  |



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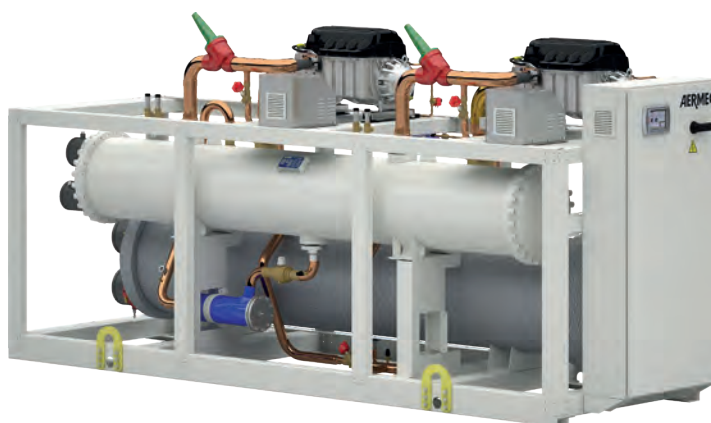


## WTX

## Water-water chiller

Cooling capacity 222,9 ÷ 1958,4 kW

- High efficiency ESEER up to 9
- Extended operating range
- Possibility of selecting between heat exchangers with 1 or 2 passes on water side



### DESCRIPTION

Indoor unit producing chilled water equipped with magnetic levitation centrifugal compressors and shell & tube heat exchangers. The base the structure and the panels are made of steel treated with polyester paint RAL 9003. The technological choices made always focus on maximum quality and efficiency, thereby achieving EER > 6 values (class A for Eurovent operating conditions).

### EFFICIENCY

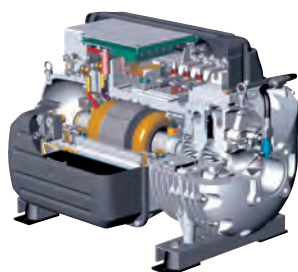
**A** High efficiency  
**U** Very high efficiency  
**Both units can be silenced.**

### FEATURES

#### Two-stage, oil-free centrifugal compressor with latest-generation magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise. The compressor is equipped with an inverter for continuous load modulation by varying rpm (from 30% to 100%).

**Built-in device to reduce starting current (only 6 Amps!)**



### Operating field

Water produced from 15 °C up to 50 °C on Condenser side and from 5 °C up to 25 °C on Evaporator side.

### Flooded Evaporator with subcooler

#### Subcooler effect

- Superheats compressor gas intake;
- Subcools thermostatic valve fluid intake;
- Increases chiller yield and ensures gas suction from compressor.

#### Condenser

- With refrigerant on shell side and water on pipe side

### Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

### CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

### ACCESSORIES

**AER485P1:** RS-485 interface for supervision systems with MODBUS protocol.

**FL:** Flow switch.

**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.

**AVX:** Spring anti-vibration supports.

ACCESSORIES COMPATIBILITY

| Model            | Ver | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------------------|-----|------|------|------|------|------|------|------|------|------|
| AER485P1         | A,U | •    | •    | •    | •    | •    | •    | •    | •    | •    |
| FL               | A,U | •    | •    | •    | •    | •    | •    | •    | •    | •    |
| MULTICHILLER_EVO | A,U | •    | •    | •    | •    | •    | •    | •    | •    | •    |

■ With the MULTICHILLER\_EVO accessory, it is necessary to add AER485P1 for each connected unit.

Antivibration

| Ver | 1300    | 1350    | 2300    | 2350    | 3300    | 3325    | 3350    | 4325    | 4350    |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,U | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) |

(1) Contact us.

CONFIGURATOR

| Field   | Description                                                  |
|---------|--------------------------------------------------------------|
| 1,2,3   | WTX                                                          |
| 4,5,6,7 | Size<br>1300, 1350, 2300, 2350, 3300, 3325, 3350, 4325, 4350 |
| 8       | E <sup>ff</sup> ciency                                       |
| A       | High efficiency                                              |
| U       | Very high efficiency                                         |
| 9       | Exchanger                                                    |
| 1       | One pass on water side (1)                                   |

| Field | Description                                                              |
|-------|--------------------------------------------------------------------------|
| 2     | Two passes on water side                                                 |
| 10    | Version                                                                  |
| °     | Standard                                                                 |
| L     | Silenced                                                                 |
| 11    | Power supply                                                             |
| °     | 400V ~ 3 50Hz with circuit breakers on compressors and auxiliary circuit |

(1) Option available only for size from 3300 to 4350.

EXCHANGERS

Over-sized tube core exchangers ensure excellent performances at full and partial loads.

**Flooded evaporator:** with level adjustment through an electronic valve controlled by a level sensor.

**Backflow condenser:** with refrigerant on shell side and water on tube side.

■ From size 1300 to 2350, heat exchangers have 2 passes on the water side

**Starting from size WTX 3300, heat exchangers are available as versions with one or two passes on the water side**, to meet any plant installation requirement.

**The dimensions of the two configurations ensure similar performances** (same approach to heat exchangers). **The difference is that the version with two passes on the water side due offers the convenience of water connections all on the same side**, against a generally higher but nonetheless limited drop in pressure compared to the version with one pass on the water side.



## PERFORMANCE SPECIFICATIONS

### WTX - A

| Size                                        |     | 1300 | 1350 | 2300 | 2350 | 3300   | 3325   | 3350   | 4325       | 4350       |
|---------------------------------------------|-----|------|------|------|------|--------|--------|--------|------------|------------|
| <b>Exchanger: 1</b>                         |     |      |      |      |      |        |        |        |            |            |
| <b>Cooling performance 12 °C / 7 °C (1)</b> |     |      |      |      |      |        |        |        |            |            |
| Cooling capacity                            | kW  | -    | -    | -    | -    | 1054,4 | 1214,3 | 1466,1 | 1716,2 (2) | 1955,0 (2) |
| Input power                                 | kW  | -    | -    | -    | -    | 211,4  | 219,9  | 281,6  | 315,3      | 375,1      |
| Cooling total input current                 | A   | -    | -    | -    | -    | 317,0  | 356,0  | 435,0  | 503,0      | 580,0      |
| EER                                         | W/W | -    | -    | -    | -    | 4,99   | 5,52   | 5,21   | 5,44       | 5,21       |
| Water flow rate system side                 | l/h | -    | -    | -    | -    | 181266 | 208751 | 252017 | 294970     | 336022     |
| Pressure drop system side                   | kPa | -    | -    | -    | -    | 32     | 39     | 31     | 24         | 31         |
| Water flow rate source side                 | l/h | -    | -    | -    | -    | 218376 | 247239 | 301544 | 350417     | 402059     |
| Pressure drop source side                   | kPa | -    | -    | -    | -    | 31     | 38     | 31     | 42         | 31         |

### Exchanger: 2

|                                             |     |       |        |        |        |        |        |        |            |            |
|---------------------------------------------|-----|-------|--------|--------|--------|--------|--------|--------|------------|------------|
| <b>Cooling performance 12 °C / 7 °C (1)</b> |     |       |        |        |        |        |        |        |            |            |
| Cooling capacity                            | kW  | 351,3 | 488,5  | 702,8  | 899,4  | 1054,3 | 1215,9 | 1466,0 | 1715,9 (2) | 1958,4 (2) |
| Input power                                 | kW  | 70,8  | 94,3   | 141,8  | 164,1  | 212,6  | 220,6  | 283,8  | 318,8      | 380,0      |
| Cooling total input current                 | A   | 106,0 | 145,0  | 212,0  | 255,0  | 317,0  | 356,0  | 435,0  | 503,0      | 580,0      |
| EER                                         | W/W | 4,96  | 5,18   | 4,96   | 5,48   | 4,96   | 5,51   | 5,17   | 5,38       | 5,15       |
| Water flow rate system side                 | l/h | 60422 | 84006  | 120844 | 154630 | 181266 | 209053 | 252017 | 294970     | 336647     |
| Pressure drop system side                   | kPa | 32    | 30     | 40     | 33     | 54     | 77     | 54     | 60         | 82         |
| Water flow rate source side                 | l/h | 72792 | 100515 | 145584 | 183481 | 218376 | 247235 | 301544 | 350417     | 402062     |
| Pressure drop source side                   | kPa | 31    | 33     | 35     | 28     | 28     | 35     | 33     | 41         | 53         |

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

(2) Sizes 4325 and 4350 not included in the EUROVENT certification programme because Cooling capacity > 1500 kW

### WTX - U

| Size                                        |     | 1300 | 1350 | 2300 | 2350 | 3300   | 3325   | 3350   | 4325   | 4350   |
|---------------------------------------------|-----|------|------|------|------|--------|--------|--------|--------|--------|
| <b>Exchanger: 1</b>                         |     |      |      |      |      |        |        |        |        |        |
| <b>Cooling performance 12 °C / 7 °C (1)</b> |     |      |      |      |      |        |        |        |        |        |
| Cooling capacity                            | kW  | -    | -    | -    | -    | 669,0  | 869,6  | 1002,7 | 1179,6 | 1336,9 |
| Input power                                 | kW  | -    | -    | -    | -    | 112,2  | 144,9  | 166,9  | 195,3  | 222,3  |
| Cooling total input current                 | A   | -    | -    | -    | -    | 180,0  | 237,0  | 273,0  | 316,0  | 364,0  |
| EER                                         | W/W | -    | -    | -    | -    | 5,96   | 6,00   | 6,01   | 6,04   | 6,01   |
| Water flow rate system side                 | l/h | -    | -    | -    | -    | 115004 | 149476 | 172333 | 202737 | 229777 |
| Pressure drop system side                   | kPa | -    | -    | -    | -    | 12     | 18     | 14     | 10     | 14     |
| Water flow rate source side                 | l/h | -    | -    | -    | -    | 135049 | 175273 | 202156 | 237660 | 269542 |
| Pressure drop source side                   | kPa | -    | -    | -    | -    | 12     | 17     | 13     | 17     | 13     |

### Exchanger: 2

|                                             |     |       |       |       |        |        |        |        |        |        |
|---------------------------------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| <b>Cooling performance 12 °C / 7 °C (1)</b> |     |       |       |       |        |        |        |        |        |        |
| Cooling capacity                            | kW  | 222,9 | 334,1 | 445,9 | 559,7  | 669,0  | 840,1  | 1006,1 | 1191,4 | 1342,6 |
| Input power                                 | kW  | 37,5  | 55,9  | 75,1  | 94,3   | 112,5  | 140,7  | 167,2  | 198,4  | 223,4  |
| Cooling total input current                 | A   | 60,0  | 91,0  | 120,0 | 158,0  | 180,0  | 237,0  | 273,0  | 316,0  | 364,0  |
| EER                                         | W/W | 5,95  | 5,98  | 5,94  | 5,93   | 5,95   | 5,97   | 6,02   | 6,01   | 6,01   |
| Water flow rate system side                 | l/h | 38335 | 57444 | 76669 | 96214  | 115004 | 144425 | 172942 | 204799 | 230804 |
| Pressure drop system side                   | kPa | 12    | 13    | 16    | 12     | 21     | 32     | 24     | 26     | 37     |
| Water flow rate source side                 | l/h | 45016 | 67385 | 90033 | 113067 | 135049 | 169344 | 202690 | 240041 | 270255 |
| Pressure drop source side                   | kPa | 12    | 14    | 13    | 10     | 10     | 15     | 14     | 18     | 23     |

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

## ENERGY INDICES (REG. 2016/2281 EU)

| Size                                                |   | 1300 | 1350   | 2300   | 2350   | 3300   | 3325   | 3350   | 4325   | 4350   |
|-----------------------------------------------------|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Exchanger: 1</b>                                 |   |      |        |        |        |        |        |        |        |        |
| <b>SEER - 12/7 (EN14825: 2018) (1)</b>              |   |      |        |        |        |        |        |        |        |        |
| SEER                                                | A | W/W  | -      | -      | -      | -      | 8,25   | 8,64   | 8,78   | 8,76   |
|                                                     | U | W/W  | -      | -      | -      | -      | 9,70   | 9,54   | 9,85   | 9,59   |
| Seasonal efficiency                                 | A | %    | -      | -      | -      | -      | 326,8% | 342,6% | 348,2% | 347,2% |
|                                                     | U | %    | -      | -      | -      | -      | 384,8% | 378,4% | 390,8% | 380,6% |
| <b>SEPR - (EN 14825: 2018) High temperature (2)</b> |   |      |        |        |        |        |        |        |        |        |
| SEPR                                                | A | W/W  | -      | -      | -      | -      | 8,75   | 9,92   | 9,33   | 9,71   |
|                                                     | U | W/W  | -      | -      | -      | -      | 11,80  | 11,36  | 11,44  | 11,49  |
| <b>Exchanger: 2</b>                                 |   |      |        |        |        |        |        |        |        |        |
| <b>SEER - 12/7 (EN14825: 2018) (1)</b>              |   |      |        |        |        |        |        |        |        |        |
| SEER                                                | A | W/W  | 8,40   | 8,59   | 8,19   | 8,76   | 8,03   | 8,34   | 8,45   | 8,32   |
|                                                     | U | W/W  | 9,69   | 9,07   | 9,47   | 9,73   | 9,54   | 9,31   | 9,66   | 9,28   |
| Seasonal efficiency                                 | A | %    | 332,9% | 340,6% | 324,5% | 347,3% | 318,1% | 330,4% | 334,9% | 329,8% |
|                                                     | U | %    | 384,4% | 359,9% | 375,6% | 386,3% | 378,6% | 369,5% | 383,5% | 368,1% |
| <b>SEPR - (EN 14825: 2018) High temperature (2)</b> |   |      |        |        |        |        |        |        |        |        |
| SEPR                                                | A | W/W  | 8,26   | 9,17   | 8,25   | 9,70   | 8,64   | 9,75   | 9,17   | 9,48   |
|                                                     | U | W/W  | 11,65  | 11,34  | 11,62  | 11,17  | 11,70  | 11,20  | 11,37  | 11,30  |

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Calculation performed with FIXED water flow rate.

## ELECTRIC DATA

| Size                  |     |   | 1300  | 1350  | 2300  | 2350  | 3300  | 3325  | 3350  | 4325  | 4350  |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Electric data</b>  |     |   |       |       |       |       |       |       |       |       |       |
| Maximum current (FLA) | A,U | A | 135,0 | 210,0 | 270,0 | 420,0 | 405,0 | 405,0 | 630,0 | 630,0 | 630,0 |
| Peak current (LRA)    | A,U | A | 6,0   | 6,0   | 141,0 | 216,0 | 276,0 | 276,0 | 426,0 | 426,0 | 426,0 |

## GENERAL TECHNICAL DATA

| Size                  |     |      | 1300 | 1350 | 2300 | 2350 | 3300                   | 3325 | 3350 | 4325 | 4350 |
|-----------------------|-----|------|------|------|------|------|------------------------|------|------|------|------|
| <b>Compressor</b>     |     |      |      |      |      |      |                        |      |      |      |      |
| Type                  | A,U | type |      |      |      |      | Centrifugal - Oil Free |      |      |      |      |
| Compressor regulation | A,U | Type |      |      |      |      | Inverter               |      |      |      |      |
| Number                | A,U | no.  | 1    | 1    | 2    | 2    | 3                      | 3    | 3    | 4    | 4    |
| Circuits              | A,U | no.  | 1    | 1    | 1    | 1    | 1                      | 1    | 1    | 1    | 1    |
| Refrigerant           | A,U | type |      |      |      |      | R134a                  |      |      |      |      |

| Size |  |  | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------|--|--|------|------|------|------|------|------|------|------|------|
|------|--|--|------|------|------|------|------|------|------|------|------|

### Exchanger: 1

#### System side heat exchanger

|                      |     |      |   |   |   |   |                |                |                |                |                |
|----------------------|-----|------|---|---|---|---|----------------|----------------|----------------|----------------|----------------|
| Type                 | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number               | A,U | no.  | - | - | - | - | 1              | 1              | 1              | 1              | 1              |
| Connections (in/out) | A,U | Type | - | - | - | - | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out)       | A,U | Ø    | - | - | - | - | 6"             | 10"            | 10"            | 6"             | 8"             |

#### Source side heat exchanger

|                      |     |      |   |   |   |   |                |                |                |                |                |
|----------------------|-----|------|---|---|---|---|----------------|----------------|----------------|----------------|----------------|
| Type                 | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number               | A,U | no.  | - | - | - | - | 1              | 1              | 1              | 1              | 1              |
| Connections (in/out) | A,U | Type | - | - | - | - | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out)       | A,U | Ø    | - | - | - | - | 6"             | 6"             | 10"            | 8"             | 8"             |

### Exchanger: 2

#### System side heat exchanger

|                      |     |      |                |                |                |                |                |                |                |                |                |
|----------------------|-----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Type                 | A,U | type | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number               | A,U | no.  | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Connections (in/out) | A,U | Type | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out)       | A,U | Ø    | 5"             | 5"             | 5"             | 6"             | 6"             | 10"            | 6"             | 8"             | 8"             |

#### Source side heat exchanger

|                      |     |      |                |                |                |                |                |                |                |                |                |
|----------------------|-----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Type                 | A,U | type | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number               | A,U | no.  | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              | 1              |
| Connections (in/out) | A,U | Type | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out)       | A,U | Ø    | 5"             | 5"             | 6"             | 6"             | 6"             | 6"             | 8"             | 8"             | 8"             |

## SOUND DATA

| Size |  | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------|--|------|------|------|------|------|------|------|------|------|
|------|--|------|------|------|------|------|------|------|------|------|

### Efficiency: A

#### Sound data calculated in cooling mode (1)

|                   |   |       |      |      |      |      |      |      |      |      |       |
|-------------------|---|-------|------|------|------|------|------|------|------|------|-------|
| Sound power level | ° | dB(A) | 90,0 | 91,0 | 93,0 | 93,5 | 96,0 | 95,5 | 97,0 | 98,5 | 100,0 |
|                   | L | dB(A) | 84,0 | 85,0 | 87,0 | 87,5 | 90,0 | 89,5 | 91,0 | 92,5 | 94,0  |

### Efficiency: U

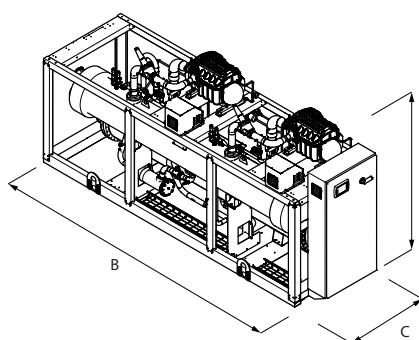
#### Sound data calculated in cooling mode (1)

|                   |   |       |      |      |      |      |      |      |      |      |      |
|-------------------|---|-------|------|------|------|------|------|------|------|------|------|
| Sound power level | ° | dB(A) | 87,0 | 88,0 | 90,0 | 88,0 | 90,0 | 91,0 | 94,0 | 94,0 | 97,0 |
|                   | L | dB(A) | 81,0 | 82,0 | 84,0 | 82,0 | 84,0 | 85,0 | 88,0 | 88,0 | 91,0 |

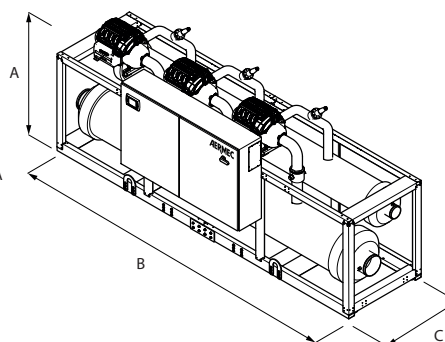
(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

## DIMENSIONS

WTX 1300 - 2350



WTX 3300 - 4350



| Size |  | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------|--|------|------|------|------|------|------|------|------|------|
|------|--|------|------|------|------|------|------|------|------|------|

### Exchanger: 1

#### Dimensions and weights

|                    |     |    |   |   |   |   |      |      |      |      |      |
|--------------------|-----|----|---|---|---|---|------|------|------|------|------|
| A                  | A,U | mm | - | - | - | - | 1970 | 2010 | 2010 | 2010 | 2280 |
| B                  | A,U | mm | - | - | - | - | 4966 | 4966 | 4966 | 4966 | 4966 |
| C                  | A,U | mm | - | - | - | - | 1640 | 1640 | 1640 | 1640 | 1732 |
| Empty weight       | A,U | kg | - | - | - | - | 4090 | 4430 | 5120 | 5690 | 6640 |
| Weight functioning | A,U | kg | - | - | - | - | 4430 | 4810 | 5620 | 6250 | 7450 |

### Exchanger: 2

#### Dimensions and weights

|                    |     |    |      |      |      |      |      |      |      |      |      |
|--------------------|-----|----|------|------|------|------|------|------|------|------|------|
| A                  | A,U | mm | 1850 | 1950 | 1970 | 2010 | 2240 | 2280 | 2280 | 2280 | 2280 |
| B                  | A,U | mm | 3040 | 3040 | 3340 | 3440 | 3990 | 3990 | 3990 | 4966 | 4966 |
| C                  | A,U | mm | 1000 | 1000 | 1240 | 1240 | 1732 | 1732 | 1836 | 1836 | 1836 |
| Empty weight       | A,U | kg | 2190 | 2370 | 2770 | 3390 | 5440 | 5730 | 6630 | 7200 | 7380 |
| Weight functioning | A,U | kg | 2350 | 2560 | 3010 | 3740 | 6170 | 6480 | 7540 | 8160 | 8400 |

Aermec reserves the right to make any modifications deemed necessary.  
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