

Side-Mount Chiller WAL

Industrial Chiller Catalog



nVent.com/HOFFMAN

WALA5

Side-Mount Water Chillers



LIQUID CIRCUIT

The non-ferrous pressurized closed liquid with a vent valve and expansion vessel is composed of a stainless steel centrifugal electric pump, pressure gauge, flow switch, fluid heater, low pressure fluid switch, high pressure safety valve, and regulation sensor.

ELECTRICAL PANEL

The electrical panel is UL508A certified, with a main disconnect switch, magnetothermic motors protection, phase sequence relays, stepped heater power. There are dry contacts for alarms for external connections.

MANAGEMENT AND CONTROL

The TX350C control unit manages the operation of the chiller and provides complete operator alarm diagnostics. An on-off contact allows the machine to be switched on remotely. Illuminated control selector. RS485 connection. Possibility of remote display for machine regulation.

PAINT/COATING

Standard color: RAL 7035 textured.

DIMENSIONS

COOLING CAPACITY

14000 W

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panel. Two installation modes on the door: full or partially recessed.

COMPRESSOR

Inverter-protected hermetic scroll compressor for energy efficiency, cooled by the refrigerant. Crankcase heater already installed in case of low ambient temperature.

REFRIGERATION CIRCUIT

Complete with charging port, liquid receiver, drier filter, electronic thermostatic valve, high- and low-pressure switch, and high-side pressure transducer.

EVAPORATOR

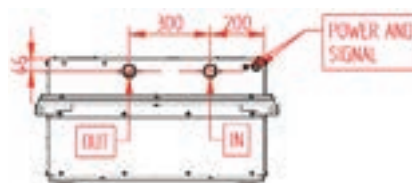
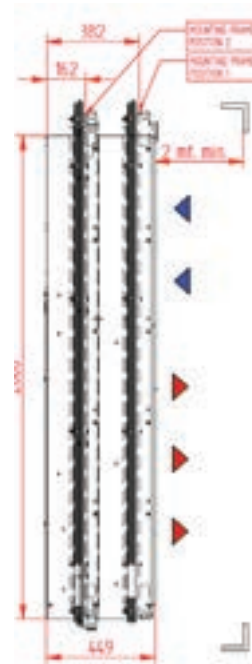
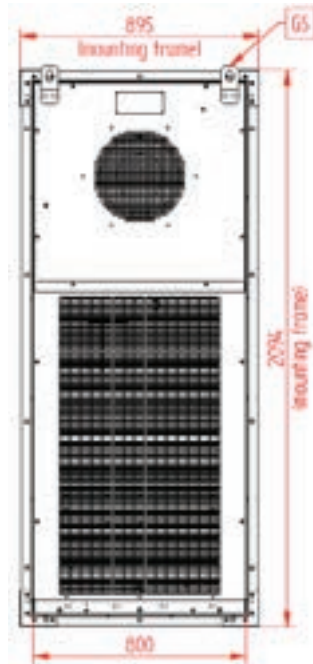
Brazed stainless-steel plate model.

AIR CONDENSER

Microchannel condensing coil, complete with safety grille.

CENTRIFUGAL FAN

Variable speed EC centrifugal fan and safety grille.



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Side-Mount Water Chillers

| Model | (Metric) | WALA5 |
|--------------------------------------|----------|---------------------------|
| Rated Cooling Capacity* | W | 14000 |
| Ambient temperature operating limits | °C | -30 - +50 |
| Settable fluid temperature range | °C | +20 - +25 |
| Fluid type | | Water/Glycol |
| Temperature precision | K | +/-2 |
| Refrigerant gas | HFC | R513a |
| Power supply | | |
| Supply voltage | V ph Hz | 400 V/460 V 3 ph 50/60 Hz |
| Secondary supply voltage | VAC | 230 - 24 |
| Digital thermostat | | TX350C |
| Compressor | | |
| Compressor type | | Scroll - Inverter |
| Quantity - Number of circuits | no. | 1 - 1 |
| Nominal power draw | kW | 3.86 |
| Condenser Fan | | |
| Fan type | | Centrifugal |
| Quantity | no. | 1 |
| Air flow rate | m³/h | 6300 |
| Available head | Pa | 120 |
| Standard Pump | | |
| Pump type | | Centrifugal |
| Quantity | no. | 1 |
| Nominal/max fluid flow rate | l/min | 100 |
| Nominal available head | bar | 1.7 |
| IN/OUT liquid connections | in | 1 1/4" BSP Female |
| Net weight | kg | 240 |
| Width - Depth - Height | mm | 800 x 449 x 2000 |
| Sound Pressure Level** | dB(A) | 73 |

* Data relates to operation under the following conditions: inlet/outlet temperature 20/15 °C, water without glycol, ambient temperature 32 °C.

** Sound pressure level, measured in a free parallelepiped field at a distance of 1 m, per ISO 3746.

The electrical data refer to $\cos \varphi = 0.8$.

| Correction factors for calculating the cooling power (Metric) | | | | | | | | | | | | |
|---|----|--------|----------|------|------|------|------|-----------|-----------|------|------|-----|
| Water outlet temperature | Fw | °C | | | | 8 | 10 | 15 | 20 | 25 | | |
| | | factor | | | | 0.77 | 0.83 | 1 | 1.2 | 1.41 | | |
| Ambient temperature | Fa | °C | | | | 15 | 20 | 25 | 32 | 35 | 40 | 45 |
| | | factor | | | | 1.27 | 1.2 | 1.13 | 1 | 0.95 | 0.86 | 0.8 |
| Percentage glycol by weight | Fg | % | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | | |
| | | factor | 1 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 | 0.9 | 0.88 | | |

Cooling power = Nominal cooling power x Fw x Fa x Fg

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