



DESCRIPTION

Designed to stabilize the temperature in a second stage of the samples in analyzer systems.

A temperature control unit (TCU) systems are pre-designed available in standard sizes from 3 to 10 tons (others capacities available).

APPLICATIONS

- Stabilization temperature samples in Analyzers Systems.
- Grab Sampling systems.

FEATURES

- Condenser water stainless steel heat exchanger
- Thermostatic valve for regulating the pressure of condensation water
- Self-contained with all necessary controls, pumping and refrigeration systems.
- Local display provides quick operational snapshot.

SPECIFICATIONS

| MODEL | UNITS | WTCU 3TT | WTCU 5TT | WTCU 8TT | WTCU 10TT |
|------------------------------------|---------|----------|------------------------|----------|-----------|
| Nominal Cooling Capacity* | W | 10.900 | 20.100 | 29.000 | 35.800 |
| Ambient temperature limit | °C (°F) | | +15/ +45 (+59 / + 113) | | |
| Range fluid temperature adjustable | °C (°F) | | +8 / +25 (+ 46 / 77) | | |
| Type of fluid | - | | | Water | |
| Temperature accuracy | °C (°F) | | +/- 2 (+/- 3,6) | | |
| Refrigerant | HFC | R134A | | R410A | |

POWER SUPPLY

| | | | | | |
|-----------------------------|---------|--|-------------------------|--------|--|
| Operating voltage | V ph Hz | | 400V (+/- 10%) 3ph 50Hz | | |
| Secondary operating voltage | V | | | 24 Vac | |
| Digital thermostat | - | | | TX200 | |

COMPRESSOR

| | | | | | |
|---------------------------------|----|-----|------|--------|------|
| Type of compressor | - | | | Scroll | |
| Quantity - Refrigerant circuits | nr | | | 1 / 1 | |
| Max absorbed power | kW | 4,6 | 6,6 | 10,1 | 13,3 |
| Max absorbed current | A | 7,5 | 12,5 | 17,3 | 23,0 |

CONDENSER

| | | | | | |
|----------------------------|-----------|-------|-------|------------------------|---------|
| Type of Condenser | - | | | stainless steel plates | |
| Quantity | nr | | | 1 | |
| Minimum refrigeration flow | l/min | 32/50 | 50/80 | 80/150 | 110/150 |
| Cooling water temperature | °C (°F) | | | 25 (77) | |
| Cooling water pressure | Bar (psi) | | | 3 (43,51) | |
| Cooling fluid | - | | | Water | |

| | | | | | |
|-----------------------------|----------|---------------|---------------|---------------|------------|
| Storage tank capacity | L (gal) | 60 (15,85) | 150 (39,63) | 220 (58,12) | |
| Water connections IN/OUT | inch | 3/4" | 1" | 2" | |
| Empty weight (indicative)** | Kg (lbs) | 200 (441) | 300 (661) | 460 (1014) | 520 (1146) |
| Width | mm | 680 (26,77) | 750 (29,53) | 850 (33,47) | |
| Depth | mm | 800 (31,5) | 1.360 (53,54) | 1.760 (69,30) | |
| Height | mm | 1.230 (48,43) | 1.340 (52,76) | 1.480 (58,27) | |
| Sound pressure level** | dB(A) | 60 | 67 | 70 | |
| IP Protection | IP | | | 55 | |

OPTIONS

H - SPECIAL HYDRAULIC PERFORMANCE

| | | | | | |
|---------------------------|-------------|---------------|---------------|----------------|----------------|
| Type of Pump-quantity | - | | | Centrifugal -1 | |
| Flow rate required | l/min (GPH) | 114,0 (30,12) | 189,0 (49,93) | 303,0 (80,05) | 379,0 (100,13) |
| Pressure at required flow | Bar (psi) | | | 3,0 (43,5) | |

N - OPERATING VOLTAGE

V ph Hz 460 V (+/-10%) 3ph 60Hz

QE-IP PROTECTION

IP 55

HR - Heater

KE -BTU/h 5 -17000 10 - 34000

BGC- Temperature precision

+/- 1°C (+/- 1,8 °F)

OM - Outdoor application until ambient temperature of -10°C (-14°F)

TPR - Tropicalized version until ambient temperature of +55°C (+131°F)

INX - Housing in AISI 304 Stainless Steel

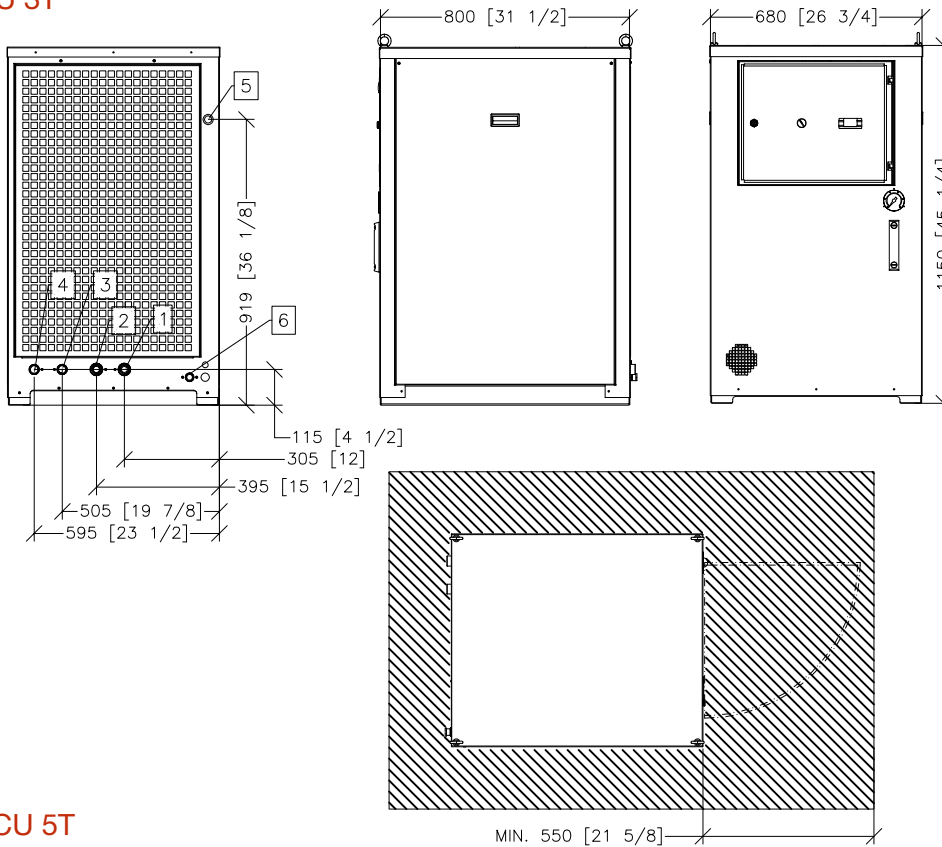
* Referred to following conditions: temperature IN/OUT 20/15°C (68/59 °F) water, condenser water temperature 25°C (77°F). Nominal Cooling power referred to the unit without pump.

** Referred to axial fan models at free conditions, hemispheric field at a distance 1 meter (3.3 ft) from chiller, 1,5 meters (4.92 ft) from ground, norm UNI ISO 3746.

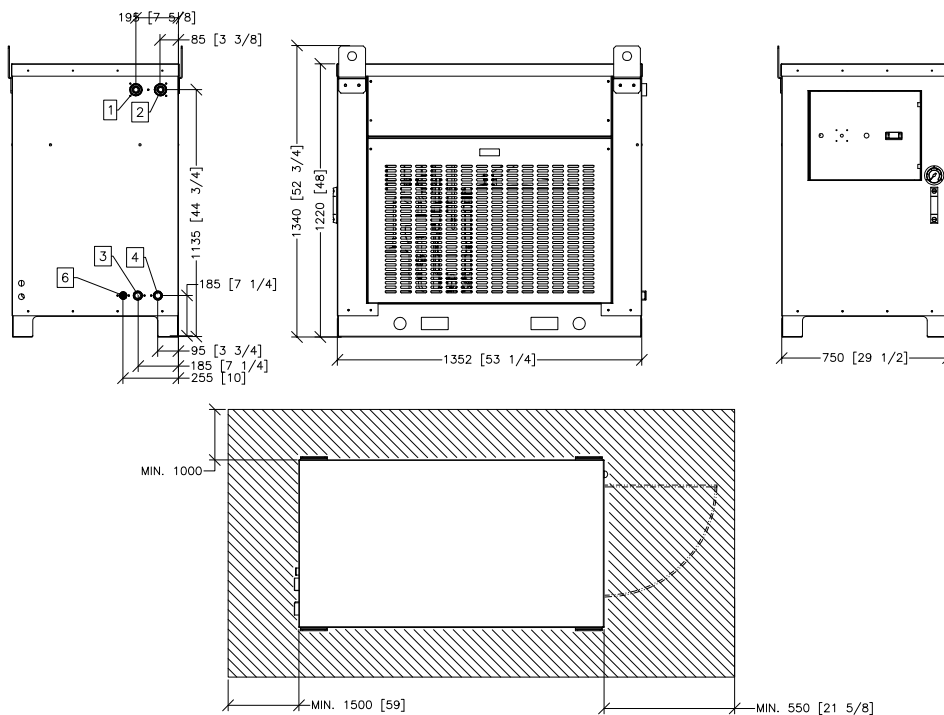
*** Weights include pallet and pack (if present), with refrigerant charge and empty tank.

DIMENSIONS

WTCU 3T

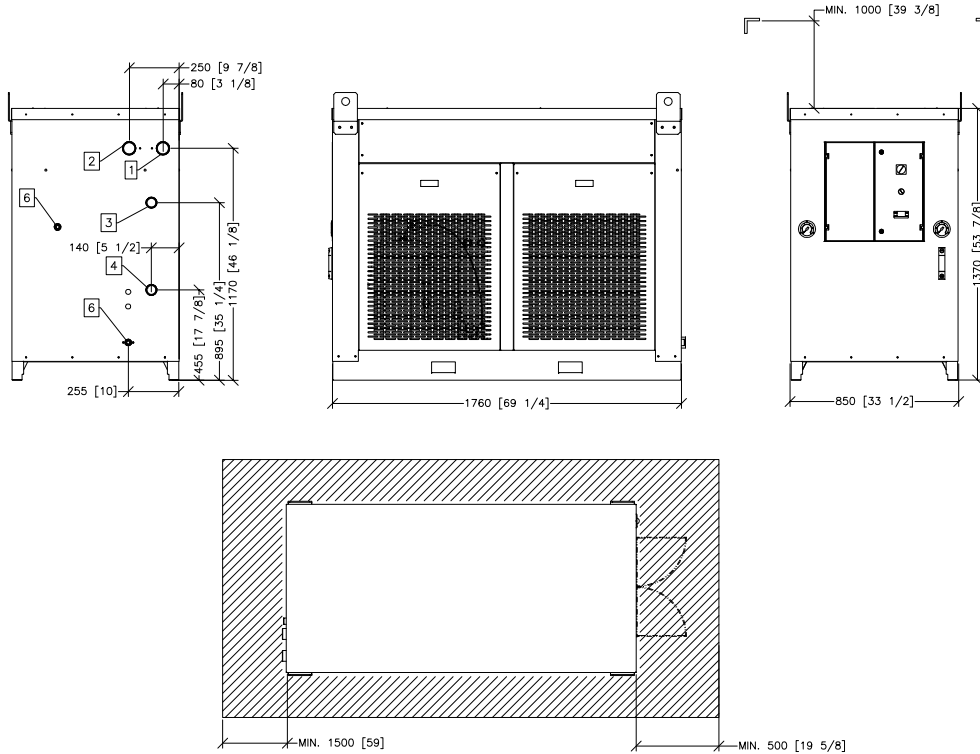


WTCU 5T



DIMENSIONS

WTCU 8T & WTCU 10T



Units: mm [Inches in brackets]

Due to manufacturing reasons dimensions are approximated. Minor changes are allowed

Due to continuous improvements, Manvia reserves the right to change the design and specifications without notice

CONNECTIONS

| ID | CONNECTION |
|----|------------------------|
| 1 | CONDENSER CIRCUIT OUT |
| 2 | CONDENSER CIRCUIT IN |
| 3 | EVAPORATOR CIRCUIT OUT |
| 4 | EVAPORATOR CIRCUIT IN |
| 5 | AUTOMATIC FILLING |
| 6 | DRAIN |

Connections size in specifications

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