Explosion Proof HVAC

Heating Ventilation Air-Conditioning System TC Series



















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Features

User friendly HMI

By adopting user friendly HMI(Human Machine Interface), easier maintenance with powerful function and convenient interface was realized.

Various and stable communication

Communication network can be easily built on any site through the VNC Serial (RS-485) and Ethernet communication, realizing remote control of the equipment.

Specialized design to ensure safety

TC series are designed in accordance to EN60079-0, 60079-1, 60079-2 and international standards which is suitable for safety area as well as for Zone2 or Zone1.

Full redundant system

A stable positive pressure inside a shelter is maintained by a full redundant fan system and the motor are protected programmatically through the 24-hour auto changeover system.

Customized design

The dimensions of some parts such as stack, cabinet and also the location of the control panel can be customized.

Real-time data logging

Data can be saved to its memory, SD card, USB memory in CSV file.

Description



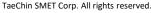


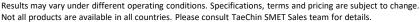




- Zone1 IIB+H2 T3 or T4
- Suitable for hazardous area Zone1(Zone2) according to EN60079-10 standard.
- Power 380~400Vac / 3Ph / 50,60Hz
- Power 440~460Vac / 3Ph / 60Hz
- Heating capacity 1~10kW
- Ambient temperature: -20° C to 50 $^{\circ}$ C or -20° C to 55 $^{\circ}$ C
- HVAC cabinet material_Galvanized steel
- Evaporator fan (Full redundant_option)
- Condenser fan
- HVAC control via PLC (Programmable Logic Controller)
- Refrigerant fluid_R407c or R134a
- Aluminum finned copper tube coils
- High/Low pressure switch for compressor
- High pressure switch for condenser
- Dual Low pressure switch for compressor low purge alarm
- DP switch for shelter positive pressure (option)
- DP switch for evaporator fan fault
- Dust filter in Evaporator inlet (Grade MERV8 only TC66,77)
- Dust filter in stack for fresh air (Grade MERV8)
- Humidity sensor for Dehumidification (option)

Model	Cooling Capacity	Heating Capacity	Type of Protection	Electric Data
TC66	30,000 BTU	1~6KW	Ex d e ia mb px IIB+H2 T3, Zone1 Tamb20℃ to +50℃ ATEX, IECEx, KCs	380~400VAC / 3Ph / 50Hz 460VAC / 3Ph / 60Hz
TC77	50,000 BTU	1~10KW	Ex d e ia mb px IIB+H2 T4, Zone1 Tamb20℃ to +55℃ ATEX, IECEx, KCs	380~400VAC / 3Ph / 50,60Hz 440~460VAC / 3Ph / 60Hz
TC-050CD	50,000 BTU	1~10KW	Ex d e ia mb px IIB+H2 T4, Zone1 Tamb20℃ to +55℃ ATEX, IECEx, KCs	380~400VAC / 3Ph / 50,60Hz 440~460VAC / 3Ph / 60Hz
TC-070CD	70,000 BTU	1~10KW	Ex d e ia mb px IIB+H2 T4, Zone1 Tamb20℃ to +55℃ ATEX, IECEx, KCs	380~400VAC / 3Ph / 50,60Hz 440~460VAC / 3Ph / 60Hz
TC-100CD	100,000 BTU	1~10KW	Ex d e ia mb px IIB+H2 T4, Zone1 Tamb20℃ to +55℃ ATEX, IECEx, KCs	380~400VAC / 3Ph / 50,60Hz 440~460VAC / 3Ph / 60Hz























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Results may vary under different operating conditions. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult TaeChin SMET Sales team for details.

























Optional

- Cabinet material: Stainless steel 304 or 316
- Industrial cabinet coatings
- BLYGOLD anti-corrosion coating on tube coils and fin
- External emergency push button switch
- Location of stack
- Humidity sensor for dehumidification (only TC77 and TC-***CD)

Certificate























Model: TC66 & TC77



Main page

Setting up now temperature by external pushbutton switches.

Checking overall current status for HVAC.



High temperature setting page

Factory setting: 35°C



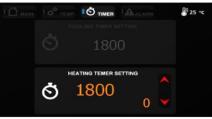
Low temperature setting page

Factory setting: 2°C



Cooling timer setting page

Factory setting: 180s



Heating timer setting page

Factory setting: 180s



Alarm page

You can see major alarms and add alarms by user's request.











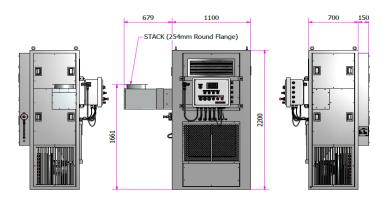




Dimensions

TC66

• 1100 X 700 X 2200mm



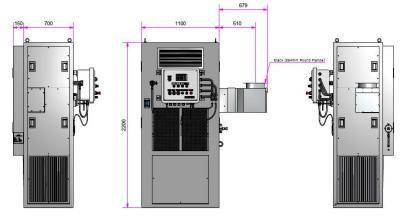
Left view

Front view

Right view

TC77

• 1100 X 700 X 2200mm



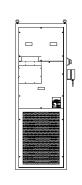
Left view

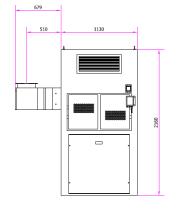
Front view

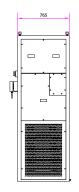
Right view

TC-050CD

- 1130 X 765 X 2160mm **TC-070CD**
- 1130 X 765 X 2160mm **TC-100CD**
- 1180 X 900 X 2350mm







Left view

Front view

Right view

