CTE SERIES

Cabinet Top External Evaporator / Air or Water Cooled
Vertical or Horizontal Evaporator Unit
with Digital Controller

SYSTEM INFORMATION

The Cabinet Top External Unit (CTE) Systems are small units designed for medium to large size humidity controlled spaces such as wine cabinets/walls, fur cabinets and tobacco humidors. .

CTE Units can be installed horizontally or vertically outside the cabinet to maximize storage capacity.

CT Evaporators are available in capacities from 2,513 to 3,547 BTU per hour and can be used with R22, R134a or R404a refrigerants. Chilled water models are available by special order.

FEATURES

- Very low noise
- Provides consistent humidity by maintaining a steady coil temperature, reducing the need for expensive temperature and humidity controls in most applications*
- Extra insulation prevents sweating at higher ambient room temperatures
- Rust-proof aluminum housing with flat black powder coated finish. Other colors available.
- Constant pressure expansion valve standard.
- Thermally protected, PSC motorized impeller.
- High performance staggered coils with copper tubing mechanically expanded into aluminum fins.
- Each unit pressure tested to eliminate leaks.
- Factory wired for simple field installation.
- Coil and drain pan dipped and baked with anti-corrosion coating.
- ETL certified

AVAILABLE OPTIONS

- Copper coils and/or stainless steel cabinets for special applications.
- Chilled water coils.
- Pre-charged, custom or OEM units made to order.

Visit www.uscellarsystems.com for installation and maintenance data, as well as wiring diagrams.

Our Application Engineers can help you design the system you need. Call us today, (562) 513-3017 and we'll help you get the right product for your project.

Due to continuing engineering improvements, specifications are subject to change without notice.

US Cellar Systems / 3070 Golden Ave, Long Beach, CA 90806 / www.uscellarsystems.com
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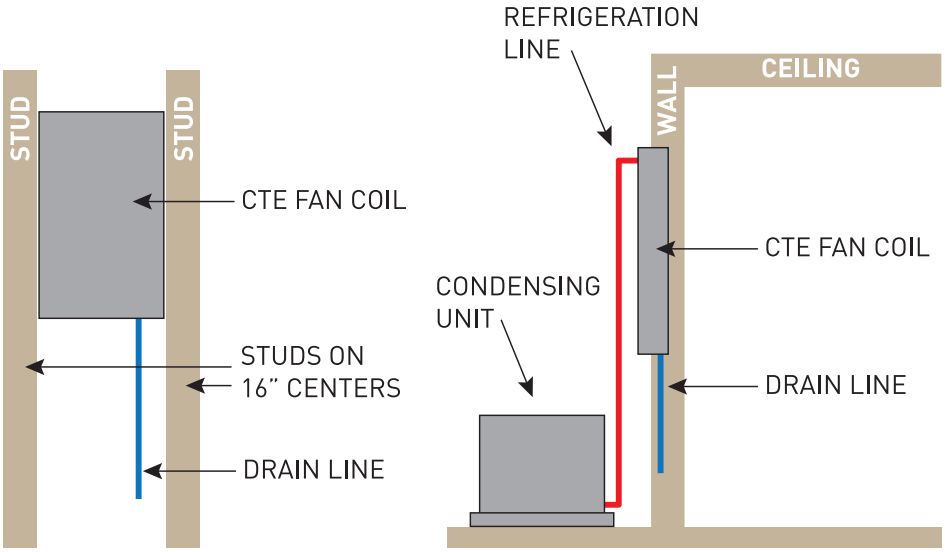
CTE VERTICAL SERIES

CTE COOLING SYSTEM TYPICAL VERTICAL INSTALLATION

- Keep line sets as short as possible.
- Excessive number of turns will cause refrigerant flow problems. This could cause early compressor failure. Suction line accumulators are recommended. Required if working lower than the normal 55-65° operating range from wine cellar
- Drain line must always flow downhill to drain or pump
- The system is controlled by a pump down control system. There is no control wiring between thermostat and condensing unit
- The line connections at Fan Coil and Condensing Unit may not be the same as the required line sizes
- Standard line sets should be 50' or less. Extended runs may require larger line sizes and 3oz. oil must be added for every 10' over 35'



WIRING DIAGRAMS

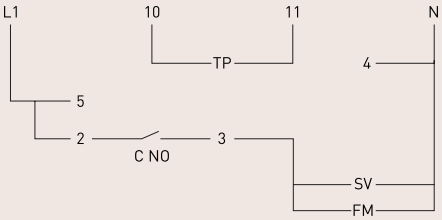
Field Wiring

L1	115 V Line Voltage
N	Neutral
SV	Solenoid Valve
FM	Fan Motor
TP	Temperature Probe

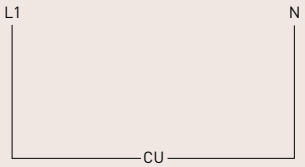
Back of Controller Connections

10	Temperature Probe
11	Temperature Probe
4	Neutral
5	115V Line Voltage
2	Jumper from 5
3	Switch Leg to Fan Coil
C NO	Internal normally open contact

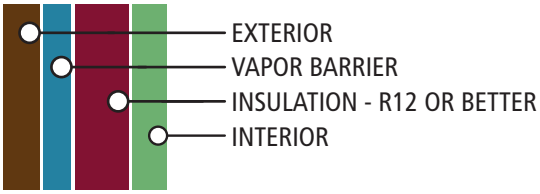
Single Fan Coil Wiring



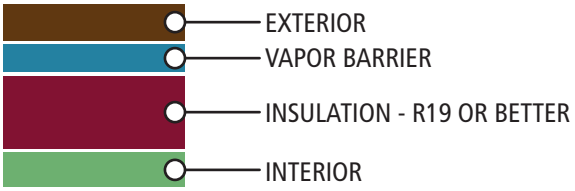
Condensing Unit Wiring



WALL CONSTRUCTION



CEILING CONSTRUCTION



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CTE HORIZONTAL SERIES

CTE COOLING SYSTEM TYPICAL HORIZONTAL INSTALLATION

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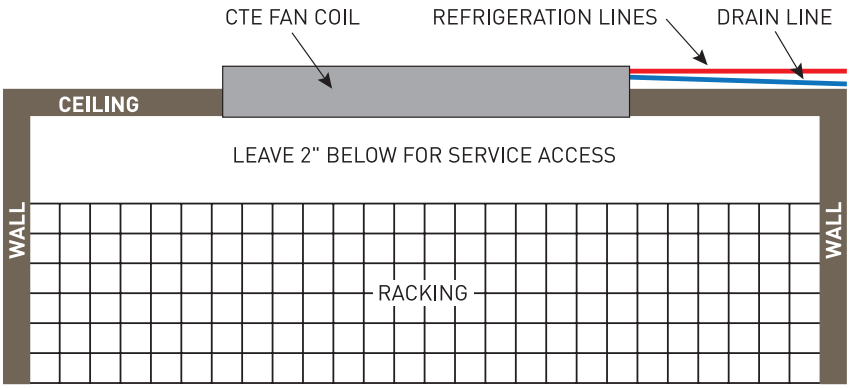

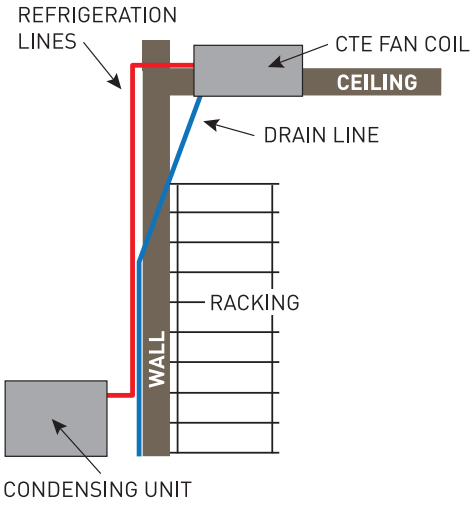

WIRING DIAGRAMS

Field Wiring

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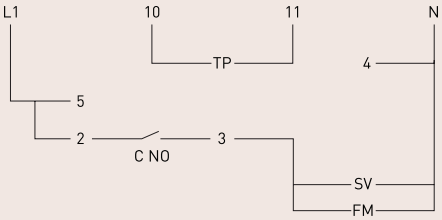
N Neutral
SV Solenoid Valve
FM Fan Motor
TP Temperature Probe

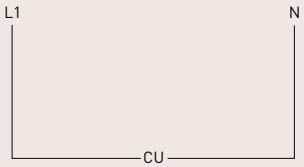
Back of Controller Connections

10 Temperature Probe
11 Temperature Probe
4 Neutral
5 115V Line Voltage
2 Jumper from 5
3 Switch Leg to Fan Coil
C NO Internal normally open contact

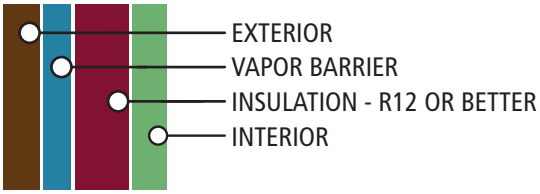
Single Fan Coil Wiring



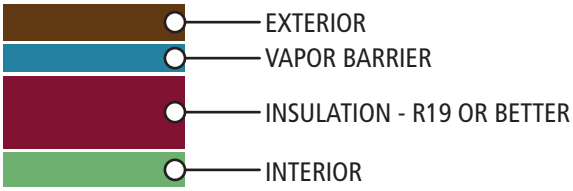
Condensing Unit Wiring



WALL CONSTRUCTION



CEILING CONSTRUCTION



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