CADDY CORPORATION

Food Service Equipment Air Systems

Utility Distribution Systems

CADDY Air Systems

ITEM NO:

PROJECT:

LOCATION:

Utility Distribution Systems

Equipment Specifications

General Specifications

Caddy Corporation of America Energy Distribution and Management System, which shall be (select one).

- ☐ Island
- ☐ Wall
- ☐ Conveyor
- ☐ Ceiling
- ☐ Counter
- ☐ Interlink

mounted, pre-wired (pre-plumbed) to one final connection point for (select any of the following)

- ☐ Electric
- ☐ Gas
- ☐ Hot Water
- ☐ Cold Water
- ☐ Steam
- ☐ Condensate Return
- ☐ Compressed Air
- ☐ Filter Water

service, to support the following equipment items as shown on drawing or architectural plan:

ITEM NOS: _____

_____

Compliance:

System to by Underwriters Laboratories (U.L.) Listed Utility Distribution System (wet location) or Commercial Appliance Outlet Centers (dry location), as a complete system manufactured in accordance with the latest edition of NEC,NFPA Pamphlet NO. 96 and No. 54, ANSI, ASME, Uniform Plumbing Code, NEMA, and OSHA using only Underwriters Laboratories tested, Bureau of Mines rated I.A.P.M.O. and A.G.A. certified components. System shall be in compliance with N.S.F. standards and local building codes.

Construction:

The Caddy System shall be _____ft x _____in. long. Completely modular with fixed but removable riser and pedestal sections. End caps and exterior panels shall be constructed of #16 gauge Type No 304 stainless steel with a No 4 mill finish, and all removable riser and pedestal panels shall be constructed of #18 gauge stainless steel. The pedestal shall be secured to the floor with unexposed stainless steel angle interior reinforcing flange. The plumbing compartment shall be isolated and weatherproof sealed from the electrical compartment by a #16 gauge stainless steel divider. When system is specified for in a wet location all electrical access panels, doors and field joints shall be fully sealed or gasketed. All electrical compartments shall be NEMA Type 4 or NEMA 12 enclosures, and all receptacles, switches and circuit breakers shall be provided with a weatherproof cover compatible with and covering the accessible portion of the receptacle face, switch actuator, and circuit breaker actuator.

(Continue specifications selecting as required)

☐ Ceiling mounted system shall be suspended by risers with unexposed stainless steel angle. Final Attachment to overhead support (not by Caddy) to be done with 3/8" steel rods (not by Caddy). Straight drop cord to be furnish with either straight blade or twist lock female connector body.

☐ Island (or Wall) mounted system shall be provided with neoprene bum[er strips and a 6" peak top.

Electrical:

Main electrical feeders in system shall be four conductor solid copper bus bars having balanced loads and phases with branch circuit locations directly behind each connection plat. Bus bars shall be of capacity for full load the entire length of system, mounted on non-conductive insulators spaced 14" to 24" centers, equipped with solid copper connection lugs for main service and system equipment ground. Field joints shall be connected by securing bolts in each bus bar through pre drilled holes. Branch circuit wiring for each electrical connection shall be phase identified and sized according to the circuit breaker rated ampacity.

Safety and Control:

Furnish a Caddy #16 gauge stainless steel gasketed connection plate for each electrical connection, equipped with point-of-use circuit breaker with knob-type watertight actuator and pilot light. On each connection plate furnish a Caddy U.L. tested adjustable trip, 24-volt power sensitive ground fault sensor and relay, which can be adjusted by maintenance personnel in order to eliminate any nuisance tripping should it ever occur. Regardless of voltage, amperage or phase, the equipment connected to the Caddy system which might develop an internal current leakage to ground, or power supply, not detectable by the circuit breaker, will be automatically disconnected from its power source without affecting the operation of any other connected equipment. A ground fault test button shall be provided on each plate to check for proper operation of the device. Connection plate shall be individually grounded to system main frame and shall be equipped with a grounding type receptacle having a specific NEMA polarized configuration. Each connection plate assembly shall bear the U.L. label as having met Underwriters Laboratories branch circuit requirements for voltages up to and including 480 volts.

Furnish Fire-Fuel Shut-Off for (electric) (gas) service for individual pieces of equipment per NFPA No. 96 Gas solenoid valve shall be equipped with a 5-second delay to eliminate instantaneous power interruptions from causing nuisance pilot outages. Shut-Off system shall be pre-wired and pre-plumbed in Caddy system, needing only one final connection by electrical contractor from 120 volt power source in fire extinguishing system relay or micro-switch. Caddy to furnish manual resets for gas and electrical using no external solenoid valves, contactors, relays or shunt trips.

Plates shall be spaced on 12" centers and have a quick-connect and quick-disconnect means for separating each ground fault device, fire-fuel shut-off and all control wiring from the Caddy system to facilitate changing of connection plates for future additions, deletions or changes of equipment. Furnish ____ blank plates for future equipment. Furnish Caddy U.L. tested matching Special Purpose Power Supply Cord and Plug Set for each

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Utility Distribution Systems

Equipment Specifications (continued)

ITEM NO:

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(Continue specifications selecting as required)

connection plate; 125 volt and 250 volt cord sets over 60 amperes and all 480 volt cord sets shall be shielded and non-arcing type. All cords shall be supplied with strain relief grips an the equipment connecting end.

Furnish control panel mounted in each end cap of Island mounted system which shall include a duplex convenience outlet with circuit breaker and equipment status indicator lights numerically coded to indicator lights on each connection plate to show power. A control panel shall also house the following controls, if required by specifier :

Gas fire-fuel shut-off with delay, warning light and solid state whistle

Ventilator light switch with circuit breaker

Exhaust fan switch

Ventilator control panel

Main circuit breaker for systems under 500 Amps

Furnish a System Disconnect Switch which shall shut down the electrical power to all of the equipment on line without the need for accessing the main circuit breaker panel which is generally remote to the Caddy system.

No live electrical parts or wiring in panels shall be accessible unless panels are removed requiring the use of security keys or tools. Permanently lettered metallic labels showing operational procedures and markings in accordance with Underwriters Laboratories, shall be furnished as part of this system.

Plumbing:

Furnish direct reading combination pressure temperature gauges for incoming services for steam supply, hot water, cold water, and chilled water. Furnish quarter turn steel ball type shut-off valves for gas and water main incoming services, and for gas, steam supply and condensate return branch piping outlets. To permit easy cleaning a non-combustible, glass-smooth, color coded plastic coating is to be applied to each gas, steam and water hose supplied with the Caddy system. All piping and disconnects shall be color coded.

(Continue specifications, indicating applicable service)

☐ **HOT AND COLD WATER**

Piping shall be hard temper type "L" copper tubing with copper sweat type solder fittings, wrapped with 1/8" thermal closed cell piping insulation. Each branch outlet shall be furnished with a safe-tested, fully adjustable connector assembly consisting of a stainless steel closed-pitch corrugated hose and stainless steel braided restraining chain, complete with a solid brass two-way quick-disconnect device for instant removal. Furnish_____ capped NPT branch outlets for future equipment connections.

☐ **GAS**

Piping shall be black iron with welded threadlets to branch connection and drip tee on service riser. Each branch outlet shall be furnished with a connector assembly consisting of a fully adjustable stainless steel corrugated hose and stainless steel braided restraining chain, complete with a solid brass quick-disconnect device for instant removal. Connector assembly shall be certified to ANSI-Z-21.24, Metal Connectors for Gas Appliances, and ANSI-Z-21.69, Connectors for Movable Gas Appliances. Furnish_____ capped NPT branch outlets for future equipment connections.

☐ **STEAM SUPPLY AND CONDENSATE RETURN**

Piping shall be black iron with welded threadlets to branch connection and service risers. All steam lines shall be wrapped with 1/8" fiberglass insulation tape (no asbestos). Each branch outlet shall be furnished with a safe-tested, fully adjustable connector assembly consisting of a stainless steel closed-pitch corrugated hose and stainless steel braided restraining chain and a overbraid heat shield (no asbestos). Furnish_____ capped NPT branch outlets for future equipment connections.

Steam piping shall include internal continuous steam purging system consisting of a quarter turn ball type inlet valve, Y-strainer with blow-down valve, trap, check valve and quarter turn ball-type outlet valve. Steam service supply pipe shall be fitted with a Caddy (remote) (integral) motorized steam valve (installed on nearest service branch tee or at boiler by H.C.). A seven-day 24-hour sequential timer having an automatic 12-hour rewind for remote steam valve shall be mounted in Caddy system at factory. All line strainers shall be a two-minute automatic blowdown to prevent clogging by mineral deposits.

Submittal Requirements:

At the time of submittal, in order to receive approval manufacturer must supply a copy of their U.L. Test Report and U.L. Listing Card to show compliance with the electric and plumbing services as required in this project, in addition to U.L. Cards for Ground Fault Sensing and Relaying Equipment, Panelboard Accessories (connection plate assembly), and Cord Sets and Power Supply Cords.

Upon request of specifier, manufacturer must submit samples, drawings and diagrams of the following system assemblies for evaluation and approval prior to the equipment contractor preparing his submittal:

U.L. tested interchangeable connection plate assembly complete with circuit breaker and knob-type watertight actuator, adjustable trip 24-volt ground fault sensor and relay, 24-volt fire-fuel shut-off mechanism, NEMA configuration outlet, 24-volt dual-color LED status indicator light and test button; 5-second gas fire-fuel shut-off delay; internal continuous steam purging system;; A.G.A. gas hose connector certified to ANSI-Z-21.69.

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CADDY Air Systems

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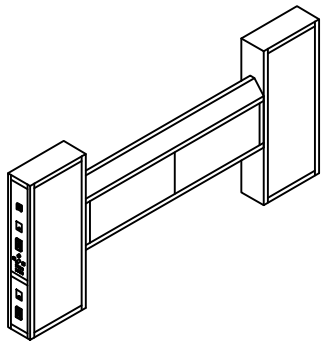
Utility Distribution Systems

ISLAND MOUNTED



FEATURES OF SERIES ID:

- Cantilever supports
- Digital water meters
- Energy saving controls for electric, gas, steam and water
- Equipment cord and plug assemblies
- Fire-fuel interrupters
- Gas shut-off with delay
- Ground fault branch circuit protection
- Hose reels
- Interchangeable connection plates
- Low-level detergent indicator
- Low-voltage control wiring
- Magnetic motor controllers
- Main service shut-offs
- Malfunction alarms
- Modular construction
- Motorized valves
- Point-of-use circuit breakers
- Pot and kettle fillers
- Quick-disconnect hose assemblies
- Steam purging system
- Temperature-pressure gauges
- Timers for 7 day, 24-hour operation
- Ventilator fan an wash-down controls
- Water conditioning systems
- Waterproof receptacle and switch cover
- Water-wash drain assembly

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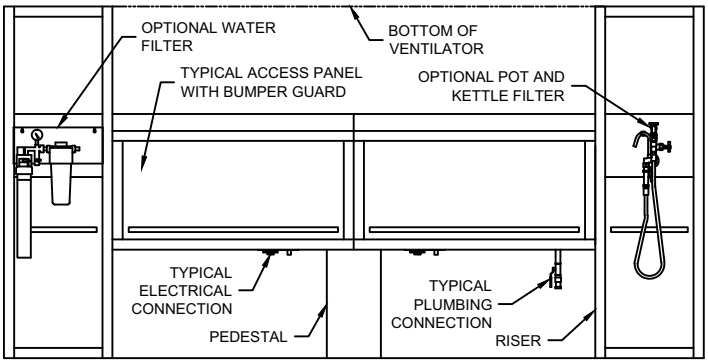
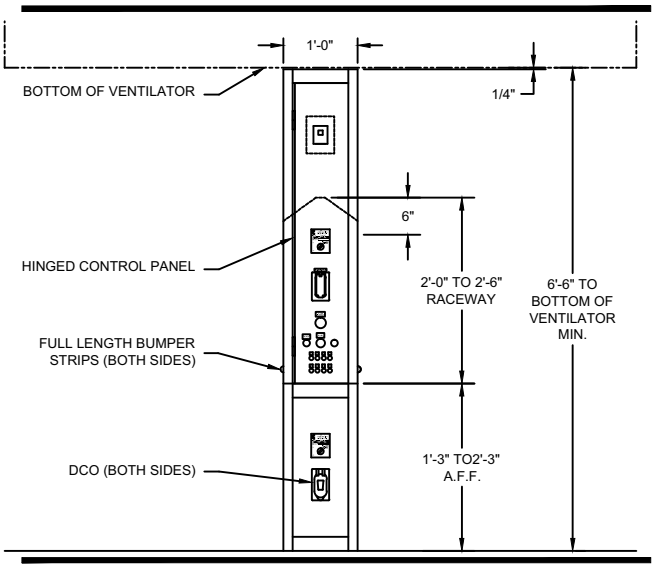


ADVANTAGES:

- The electrical contractor need only bring the main electric service to the Caddy system, which contains the circuit breakers for each equipment item at its connection point, thus eliminating a panel of circuit breakers and the contractor's job is simplified.
- The plumbing contractor connects the gas, steam and water services to the Caddy system, and each equipment item is plugged directly into the system in a matter of minutes.
- By eliminating wires and piping traditionally buried in the walls and the floors, the overall cost to the owner is reduced and the additional benefits allow for ease of cleaning, service and repairs, rearranging and adding equipment in the future.
- Jobs can be bid more accurately. No "unknow field conditions" to be considered.
- All necessary parts and controls are supplied from one source... Caddy Corporation.

General notes:

- Maximum length for raceway is 14'-6" before a filed joint is added.
- Minimum riser depth from end is 24" when ventilator controls are specified, and 18" when more than two services from overhead are in the same riser.
- Minimum riser depth from end is 18" when more than two services from floor are in same riser.
- Electrical systems without plumbing can be 6" wide.
- Electrical point-of-use connection plates are located on 12" centers
- Services from above are recommended to avoid critical fields service locations.



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CADDY Air Systems

ITEM NO:

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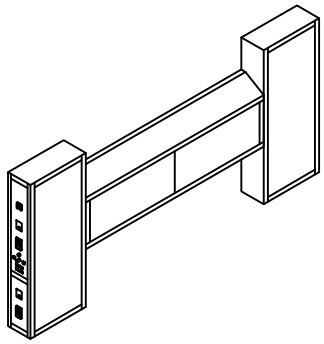
Utility Distribution Systems

WALL MOUNTED



FEATURES OF SERIES WL:

- Cantilever supports
- Digital water meters
- Energy saving controls for electric, gas, steam and water
- Equipment cord and plug assemblies
- Fire-fuel interrupters
- Gas shut-off with delay
- Ground fault branch circuit protection
- Hose reels
- Interchangeable connection plates
- Low-level detergent indicator
- Low-voltage control wiring
- Magnetic motor controllers
- Main service shut-offs
- Malfunction alarms
- Modular construction
- Motorized valves
- Point-of-use circuit breakers
- Pot and kettle fillers
- Quick-disconnect hose assemblies
- Steam purging system
- Temperature-pressure gauges
- Timers for 7 day, 24-hour operation
- Ventilator fan an wash-down controls
- Water conditioning systems
- Waterproof receptacle and switch cover
- Water-wash drain assembly

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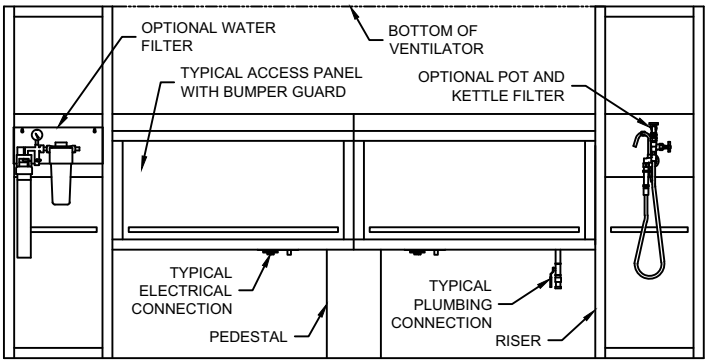

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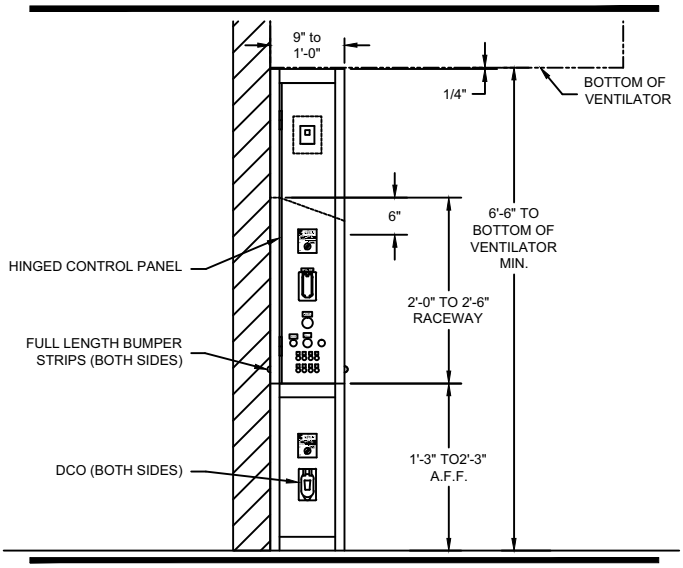
- Minimum riser depth from end is 18" when more than two services from floor are in same riser.
- Electrical systems without plumbing can be 6" wide.
- Electrical point-of-use connection plates are located on 12" centers 18" centers when plumbing and electric is specified.
- Services from above are recommended to avoid critical fields service locations.



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CADDY Air Systems

ITEM NO:

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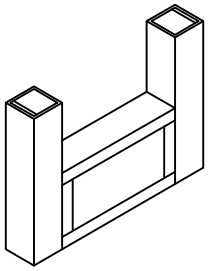
Utility Distribution Systems

CEILING MOUNTED



FEATURES OF SERIES OD:

- Energy saving controls for electric, gas, steam and water
- Equipment cord and plug assemblies
- Fire-fuel interrupters
- Ground fault branch circuit protection
- Integral lighting
- Interchangeable connection plates
- Low-voltage control wiring
- Magnetic motor controllers
- Main service shut-offs
- Malfunction alarms
- Modular construction
- Point-of-use circuit breakers
- Quick-disconnect hose assemblies
- Timers for 7 day, 24-hour operation
- Ventilator fan an wash-down controls
- Waterproof receptacle and switch cover

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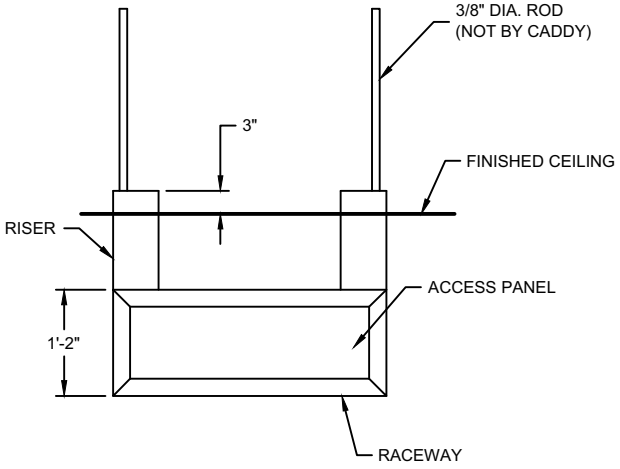

ADVANTAGES:

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General notes:

- Maximum length for raceway is 14'-6" before a filed joint is added.
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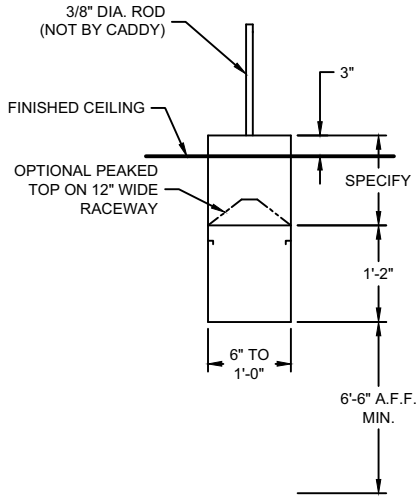
- Minimum riser depth from end is 18" when more than two services from floor are in same riser.
- Electrical systems without plumbing can be 6" wide.
- Electrical point-of-use connection plates are located on 12" centers.
- Extension cords, drop cords and coil cords may be specified.
- Coil cords are available only in 125/1 ϕ and 250/1 ϕ 3-wire, 20-amps or less.



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CADDY Air Systems

ITEM NO:

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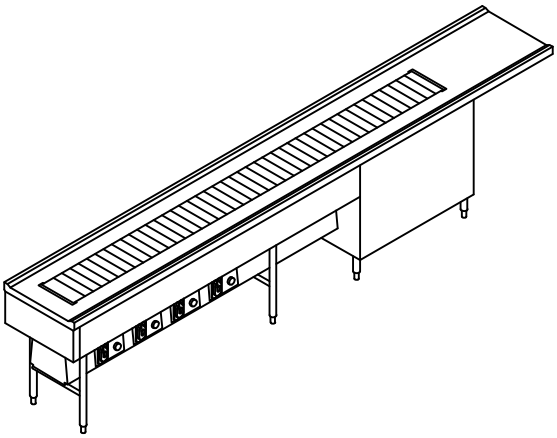
TRAY SLIDE MOUNTED



FEATURES OF SERIES TS:

- Energy saving controls for electric, gas, steam and water
- Equipment cord and plug assemblies
- Fire-fuel interrupters
- Gas shut-off with delay
- Ground fault branch circuit protection
- Interchangeable connection plates
- Low-voltage control wiring
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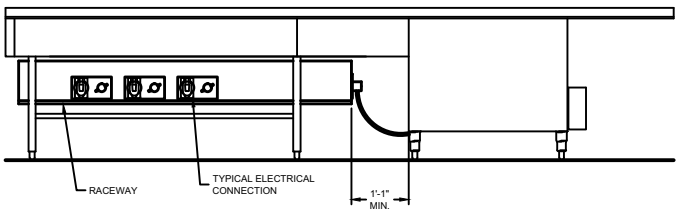

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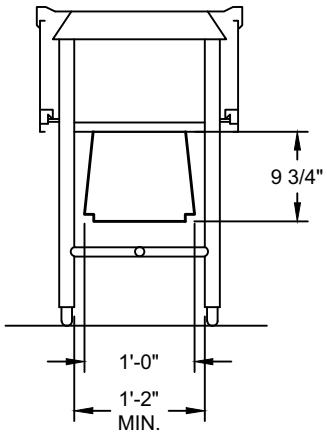

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