

Walk In Refrigerator System



Mopec walk in refrigerator insulated panels and refrigeration systems are manufactured as a system. Mopec walk in morgue refrigerators are designed to accept all types of Mopec morgue equipment. The panels are designed with cam lock latches for easy assembly and future expansion. Refrigeration systems are preassembled with all controls factory tested prior to delivery.

All refrigerator panels are specifically designed UL#723 Panel Flame Spread, FM#E84 Burn Test, and ISO9001 certifications. Standard and custom sizes are available. Standard warranty includes 18 months parts and labor, 5 years compressor and 15 year walk-in panel.

Refrigerator Finishes

Exterior Metal Finish: (Walls) 26 gauge corrosion resistant stucco embossed coated steel.

Exterior Metal Finish: (Floor and Ceiling) 26 gauge corrosion resistant stucco embossed coated steel.

Interior Metal Finish: (Walls and Ceiling) 26 gauge corrosion resistant stucco embossed coated steel.

Interior Metal Finish: (Floor) 14 gauge smooth galvanized steel.

Insulation: Insulation is a full 4 inches thick, UL Class 1 rigid foamed in place polyurethane with a 2.0 cubic foot density ($\pm 10\%$). Foam polyurethane is injected into the panels by a high output, high impingement, froth mixer. Poured in place foam injection is not acceptable. The "K" factor will not be more than 0.135 BTU per hour per square foot, per inch thickness, per degree Fahrenheit of temperature difference. Heat transfer "U" factor will not exceed .033. The "R" value is a minimum of 30.00. Insulation has a 95% closed cell structure and a flame spread rating according to ASTM E-84/UL 723 will be 25 or less. Polyurethane foam is expanded with HCFC-134-A. The use of R-12 as a blowing agent being specifically prohibited.

Hardware: Hardware is high pressure die cast zinc with a polished chrome finish. Hardware includes a hydraulic piston driven door closer, cam lift hinges, key/padlock handle with bumpers and inside safety release. All hardware is attached to extra large 1/2 thick, nonconducting synthetic tapping plates.

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Door Construction: Entrance door will be a flush design with a minimum opening of 48" wide by 78" high. The door section provides a full 4 inches of foamed in place polyurethane insulation. Construction and finish are the same as adjoining wall panels. The door incorporates a heavy-duty, molded ABS breaker strip, which is permanently foamed in place. The bottom of the door is sealed with an adjustable double sweep gasket, uniquely designed to provide a complete seal between door, threshold and door jamb. Door jamb is constructed of fully covered extruded and welded, structural anodized aluminum, with a rigid frame design for easy cleaning and maintenance. The provided threshold plate is constructed of extruded aluminum for bearing strength. Aluminum diamond kick plate provided on interior/exterior of door. Anti-condensation heaters provided surround the full perimeter of the door opening. The complete door section is UL listed and labeled. Other door styles and sizes are available.

Modular Panel Construction: Wall, ceiling and floor panels are prefabricated modular constructions consisting of 100% foamed in place polyurethane insulation a full 4 inches thick. They are bonded by an adhesive to the interior and exterior metal pan skins and then heat cured for long life stability. Each wall panel skin is formed using a double 90° bend on each edge to add strength and rigidity. Panel joints

are precisely formed male and female tongue and groove shapes fabricated to force the male edge to contact the female edge, providing an additional seal. Mechanical panel fasteners have wings which provide the necessary strength to support the cam action of the locking mechanism when the panels are drawn together. Panels are manufactured in widths of 6 inches to a maximum of 48 inches. All panels are UL and NSF listed.

Floor Construction: Floor panels are a full 4 inches thick with one piece foamed in place edge caps. They are designed to withstand uniformly distributed loads of 600 pounds per square foot. Additional support is provided by using 1/2"(3/4") APA rated plywood backing, permanently foamed within prefabricated floor panel. The junction between the wall and floor is formed with a 45° cone built into the floor panel allowing for an easily cleaned junction and meeting NSF requirements.

Cam Lock Panel Fasteners: The panels incorporate cam lock fasteners as joining devices for the adjacent tongue and groove panels. Each device consists of a cam action locking arm and a steel rod in the adjoining panel so that by rotating the locking arm, the hook engages over the rod and the cam action draws the panels together. The panel joints are sealed by a foamed in place, continuous one-piece gasket.

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Cam Lock fasteners join the tongue-n-groove panels. The cam-locking arm is rotated to hook over a steel rod in the adjoining panel and continued rotation draws the panels together. Panel joints are sealed by a foamed in place, continuous, one piece gasket.

Panel Gaskets: Panel gaskets provided around the outer perimeter of the panel are continuous without cuts or braces at corner. The gaskets are foamed in place and cannot fall off during shipping or installation.

Pilot Light and Safety Release: A constant burning pilot light and inside safety release assures a nonpanic exit even if the door is locked from the outside and the light is turned off.

Interior Panel Bumpers: A full perimeter stainless steel bumper is provided to protect the wall surface.

Refrigeration System: The refrigeration system is specifically designed, engineered and manufactured to achieve and maintain the scheduled room temperature requirements and performance. The system includes high/low pressure controls, receiver, sight glass, liquid line dryer, suction accumulator, vibration eliminators, expansion valves and other equipment required to achieve the specified performance. Refrigeration systems are available in wall mount, ceiling mount or remote applications and can be located indoors or outdoors.

Condensing Unit: The condensing unit uses an air cooled, welded hermetic compressor, designed for industrial use. Condensing unit is factory assembled and UL listed. Outdoor units if requested have all weather hoods, crankcase heaters and head pressure controls.

Evaporator Coil: The evaporator coil is a copper tube aluminum fin design having 6 fins per inch. Evaporators are UL listed and are forced air type designed for ceiling installation. Fan motors, guards, multi-fin and tube-type coils are housed in heavy gauge aluminum housing. Units have drain pan with a suitable drain pipe connection. Evaporators for use at 0° Centigrade (32° Fahrenheit) shall use an electric defrost and be time initiated and temperature terminated.

Refrigeration System: The refrigeration system will be completely factory assembled and pre-charged, ready for field installation, using quick connect refrigerant line fittings and interconnecting wiring harness for single point electrical connection. All quick connect systems include an evaporator mounting kit, sight glass, expansion valve, liquid line filter drier and control. Outdoor units if requested have all low ambient controls factory installed. Other systems are available. Contact a Mopec representative.

Available Options

- Outdoor controls for condensing unit
- Low temperature refrigeration systems operating temperature, -4°F (-20°C)
- Water cooled condensing units
- Back up refrigeration systems
- Temperature chart recorder
- Temperature alarm: High/Low/Audio/Visual
- Control Panels: P.C. based micro process controller

Optional Material Finishes (Interior and Exterior)

20 Gauge stainless steel with a #4 satin finish

26 Gauge embossed galvanized with aluminum coating

20 Gauge embossed aluminum with a white epoxy finish.
Additional colors available.

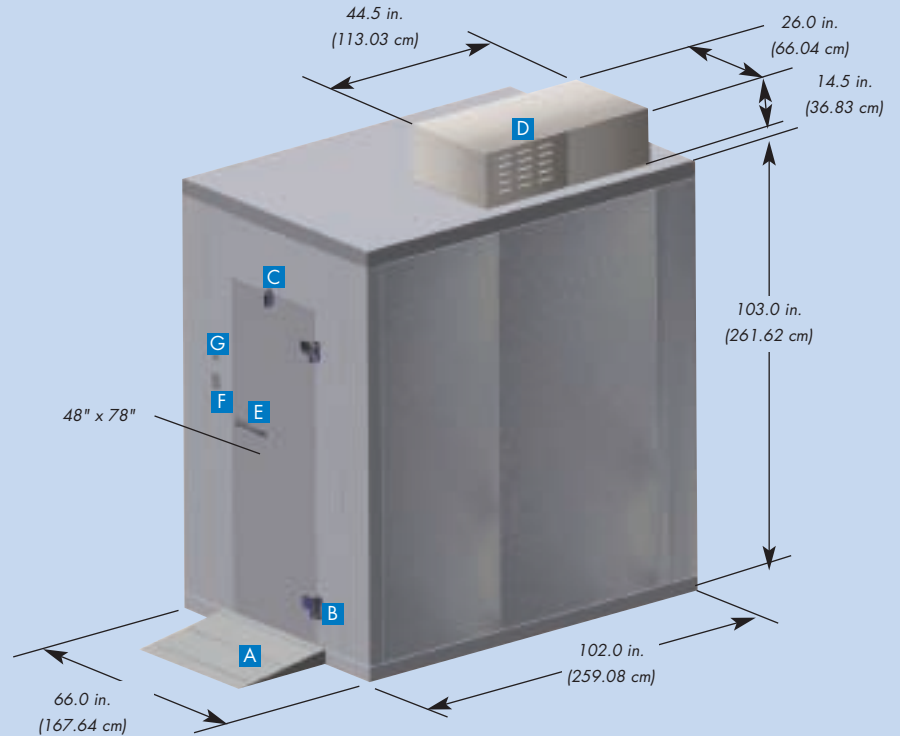
20 Gauge smooth pre-primed steel with a white epoxy finish. Additional colors available.

Walk In Refrigerator System

KE100 Walk In, 1 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 115/1/60 Volt
- System Capacity: 3500 BTU/HR

- A** Exterior Ramp
- B** Heavy-Duty Cam-Lift Hinges
- C** Door Closure
- D** Capsule Pak Refrigeration System
- E** Door Latch with Lock and Safety Release
- F** Pilot Lighted On/Off Light Switch
- G** Digital Thermometer



KE200 Walk In, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 115/1/60 Volt
- System Capacity: 3500 BTU/HR

- A** Exterior Ramp
- B** Heavy-Duty Cam-Lift Hinges
- C** Door Closure
- D** Capsule Pak Refrigeration System
- E** Door Latch with Lock and Safety Release
- F** Pilot Lighted On/Off Light Switch
- G** Digital Thermometer

