

# MORGUE REFRIGERATION

## Chapter 9



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# Mopec Refrigeration Technology

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End Opening Conveyor Tray System



End Opening Door



End Opening With Telescoping Mechanism Fully Extended

Mopec offers three styles of coolers with a wide variety of models; a telescoping tray system, a conveyor roller system and a walk in morgue refrigerator.

## Telescoping Tray System

The first and most common type of refrigerator is one that contains a telescoping tray system. This style is available in end opening, side opening and roll in configurations. The telescoping tray system is designed to support the body and tray even when fully extended. The entire body is in full view when extended from the refrigerator.

## Conveyor Tray System

The conveyor tray system is available in the end opening, side opening and roll in configurations. The conveyor tray system is designed so that the body tray rolls in/out of the cooler using a conveyor roller mechanism. The conveyor roller mechanism is permanently mounted within the cooler. Only the body tray moves in and out of the refrigerator.

## Walk-In Refrigerator

The third style cooler is the walk in refrigerator/cooler system. The bodies can be stored on individual stretchers and/or multiple body storage racks.

# Mopec Refrigeration Technology

## Intelligently Designed From The Inside Out



Side Opening With Telescoping Mechanism Fully Extended



Custom Built Mortuary Cooler With IE100 Mortuary Rack

### Advanced Refrigeration System

Standard Mopec refrigeration units are equipped with all the refrigeration components — evaporator, compressor and thermostat uniquely located outside the refrigerator for a revolution in maintenance and service convenience.

**Safe Service and Easy Access:** All serviceable components are conveniently located outside the unit. The completely self contained system can be serviced in place or removed for maintenance and repairs.

**Efficient Operation:** The convenient features of Mopec units demonstrate practicality and reliability. The insulated evaporator and ventilated compressor compartments offer greatly reduced noise during operation, making it one of the quietest refrigeration units in the industry.

**Simple to Install:** The advanced design features make our units virtually hassle free to install. With a non-electric condensation vaporizer located inside the system, no drain or pump connection are needed for condensation lines. One easy step for proper installation with one single-point electrical connection.

### Frameless Panel Construction

All Mopec refrigerators are manufactured using **FRAMELESS** panel construction, eliminating the need for the old fashioned wood frame which decomposes and causes condensation. The metal clad panels are fabricated with foamed-in-place structural polyurethane and tongue-n-groove construction provide exceptional strength and insulation value.



Doors and framework are encased with extruded anodized aluminum for superior strength. Stainless steel surface (optional) inside and out for easy cleaning and disinfecting.

### Innovative Design Features

**Superior Door Design:** For guaranteed strength, Mopec provides quality flush doors complete with patented extruded anodized aluminum frames. Each unit's interior and exterior is clad of stainless steel that makes cleaning virtually effortless. The magnetic rubber gaskets give the tightest seal, while a heated perimeter and strike surface eliminate condensation.

**Secure Seals:** The panel structure of each cooler is heavy-duty for the tough day-to-day wear and tear. Embedded within the structural insulation are continuous and unbroken extruded vinyl gaskets that will not deteriorate or come loose.

**Ozone Friendly:** To prevent ozone depletion, the structural insulation foam is expanded using HFC-134a. This method is CFC free and environmentally responsible.

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# Telescoping Tray System

## End Opening, Side Opening and Roll-In Combinations

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KC200  
Side Opening



Dual shock absorbers and safety cables gently lower and support side opening doors



Continuous and unbroken extruded vinyl gaskets, firmly embedded in CFC free insulated foam panels, will not deteriorate or loosen



End Opening  
KA200

### End Opening Refrigerators

End opening telescoping morgue refrigerators are designed with individual door openings measuring 27" W x 22" H (68.6 cm x 55.8 cm). A telescoping mechanism fully supports the body tray. When the door is open and the end of the telescoping mechanism is fully extended, the tray is in full head-to-toe view. The cadaver can be removed alone or with the body tray.

### Side Opening Refrigerators

Side opening telescoping morgue refrigerators are designed with individual doors 83" W x 21" H (210.8 cm x 53.3 cm). A telescoping mechanism fully supports the body tray. When the door is open, the body tray and cadaver are displayed in full side view.

### Roll-In Refrigerators

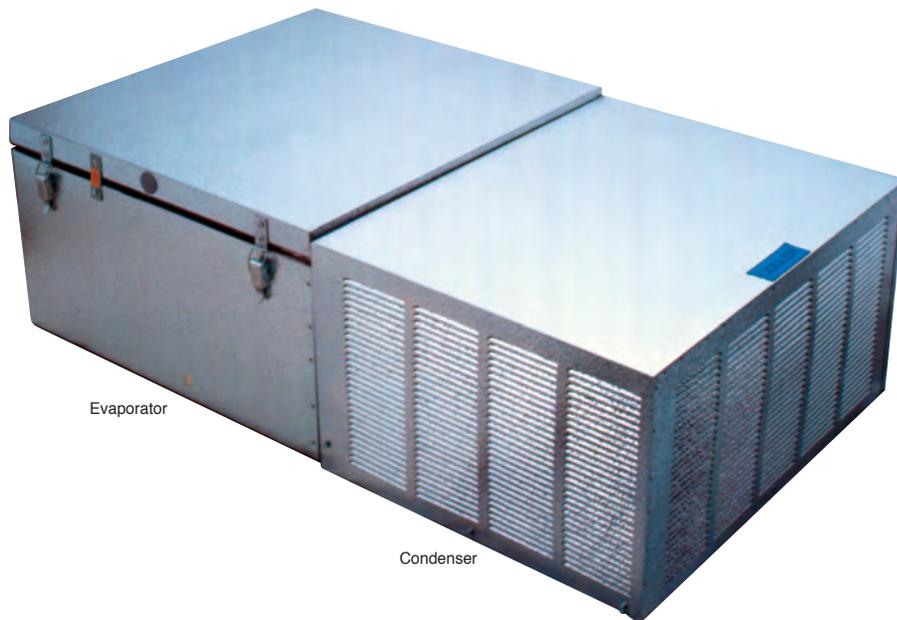
Roll-in morgue refrigerators are designed to be used with a one tier or two tier body carrier. Individual doors are available in two sizes (27.5" W x 51" H or 42" W x 51" H) and open to a compartment that easily accommodates a two tier body carrier.

### Roll-In/End Opening Combination

Roll in/end opening combination morgue refrigerators are designed for use with telescoping mechanisms and a two tier body carrier. One door is 27-1/2" W x 21" H located directly over a roll in door 36" W x 51" H. This cooler combines both the roll in and end opening features. Remove the cadaver by extending the telescoping mechanism or rolling the one tier or two tier body carrier out of the cooler.

# Telescoping Tray System

## End Opening, Side Opening and Roll-In Combinations



Evaporator

Condenser



Interior release latches in case of accidental enclosure



Spring loaded hinges for hands free closure

### Standard Features

**Exterior Metal Finish:** (Front) 20 gauge with #4 satin finish stainless steel.

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

**Interior Metal Finish:** (Floor) Galvanized steel, 14 gauge smooth finish.

**Interior Metal Finish:** (Balance) 26 gauge corrosion resistant stucco embossed coated steel.

**Insulation:** Foamed in place polyurethane insulation. Full 4" thick, UL Class 1 rigid polyurethane with 20 cubic foot density. "K" ≤ .135 BTU/HR, "U" = .033. CFC free and zero ozone depletion.

**Doors:** Fabricated with 22 gauge stainless steel inside and outside. Door frame and door are each fabricated of an extruded aluminum frame with a vinyl thermo breaker.

**Hardware:** (End Opening) Each door is provided with cam lift hinges, pull handles with keylock, magnetic gasket and perimeter frame wire heater.

**Hardware:** (Side Opening) Each door is provided with pull handles with keylock, (two each) motion dampeners, (two each) safety cables, magnetic gasket and perimeter frame wire heater.

**Light:** Vapor proof incandescent light and door controlled light switch.

**Telescoping Mechanism:** Three piece heavy gauge zinc plated steel with nylon rollers.

**Body Tray:** Mopec's JC100 23" W x 77" L stainless steel.

**Capsule Pak Refrigeration System (Mopec Exclusive):** The air cooled, welded hermetic refrigeration system is a self contained unit that simply sets above an opening in the top of the refrigerator compartment. All components are conveniently

located outside the refrigerator. The system can be serviced in place or easily removed for maintenance—your technician need not enter the cooler compartment. No longer does the technician need to expose themselves to potential bacteria within the refrigerated structure.

**Operating Temperature:** 39°F (4°C).

### Optional Features

High/Low, Audio/Visual Temperature Alarm

**Product No. KO001**

Temperature Recorder, 7 Day Chart, 10" Diameter Single Pen

**Product No. KO002**

Low Temperature Refrigeration (freezer)

System Operating Temperature -4°F (-20°C)

### Optional Material Finishes (Interior and Exterior)

20 Gauge stainless steel with a #4 satin finish

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.

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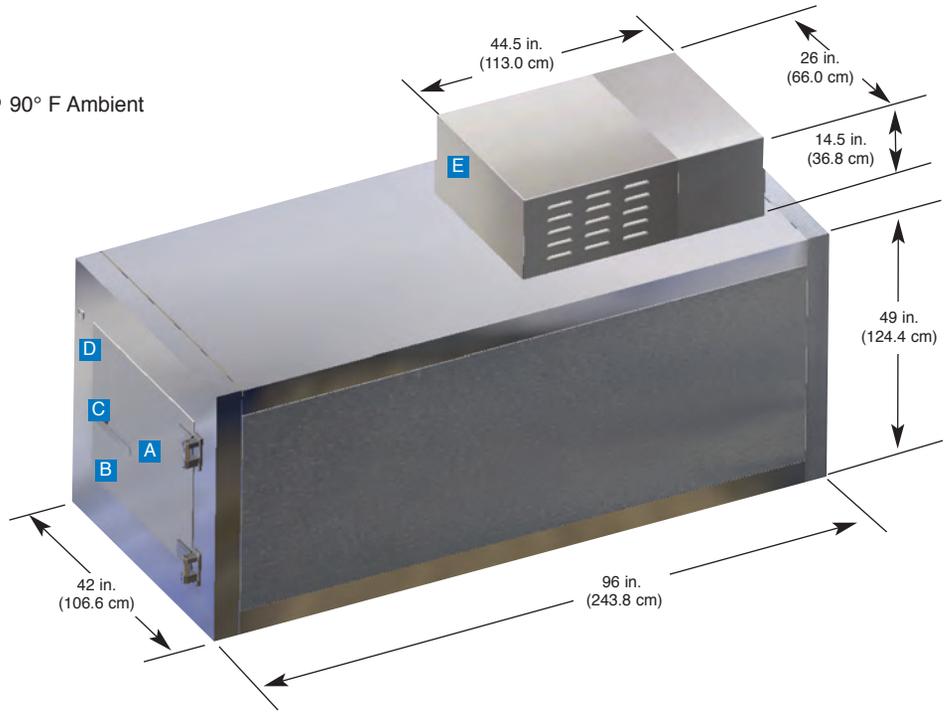
# Telescoping Tray System

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## KA100 End Opening, 1 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Door Opening (27" W x 22" H)
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## End Opening Morgue Refrigerators

End opening morgue refrigerators are designed with individual 27" W x 22" H (68.6 cm x 55.88 cm) doors.

The telescoping mechanism fully supports the body tray containing the cadaver. Maximum weight capacity is 375 pounds. If you need a larger weight capacity, contact Mopec. When the door is open and the end of the telescoping mechanism is fully extended approximately 6'-6", the body and tray are in full head-to-toe view. The cadaver can be removed by itself or with the body tray.

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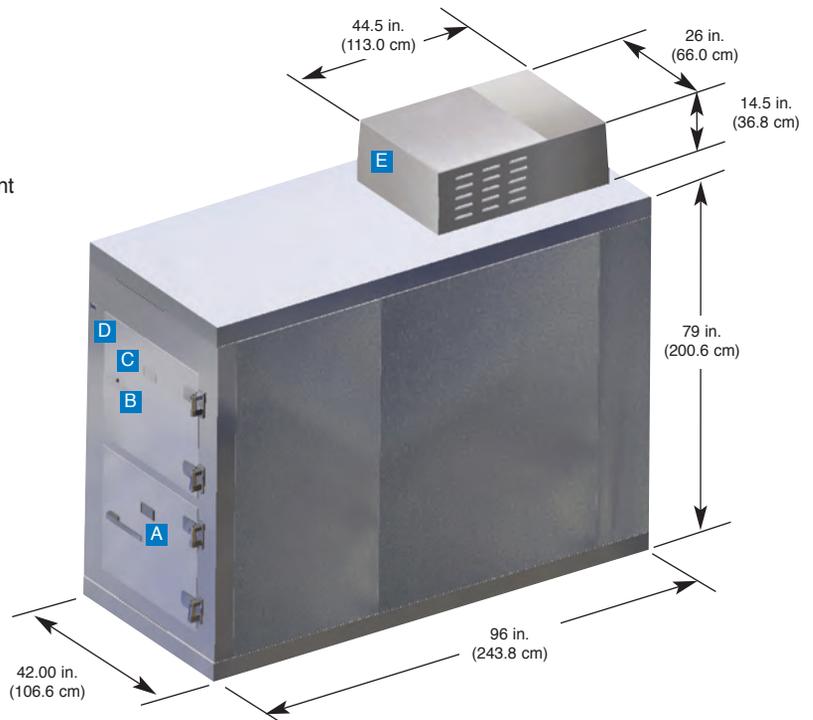
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## KA200 End Opening, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Door Opening (27" W x 22" H)
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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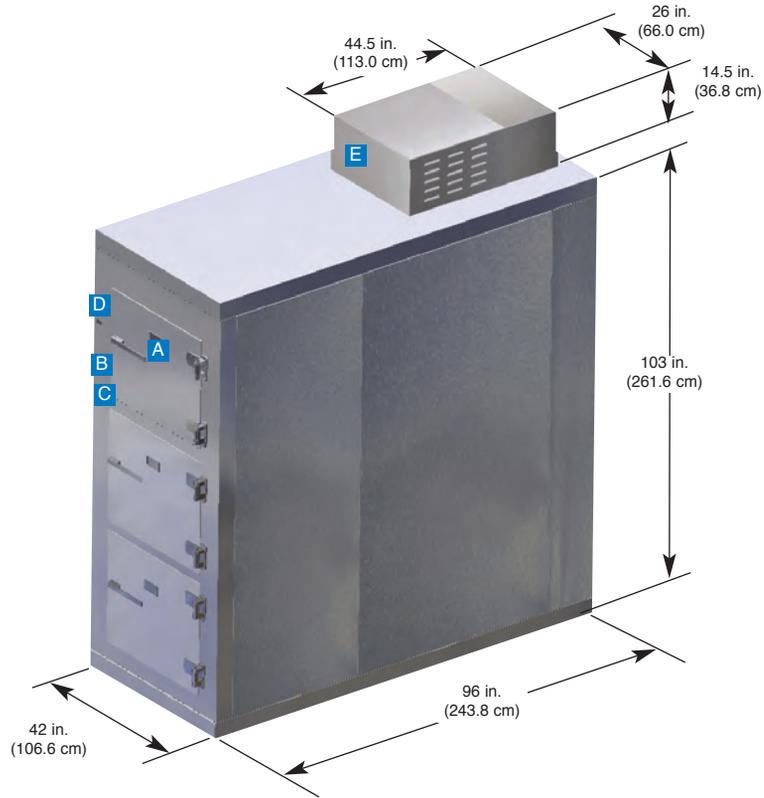
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# Telescoping Tray System

## KA300 End Opening, 3 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

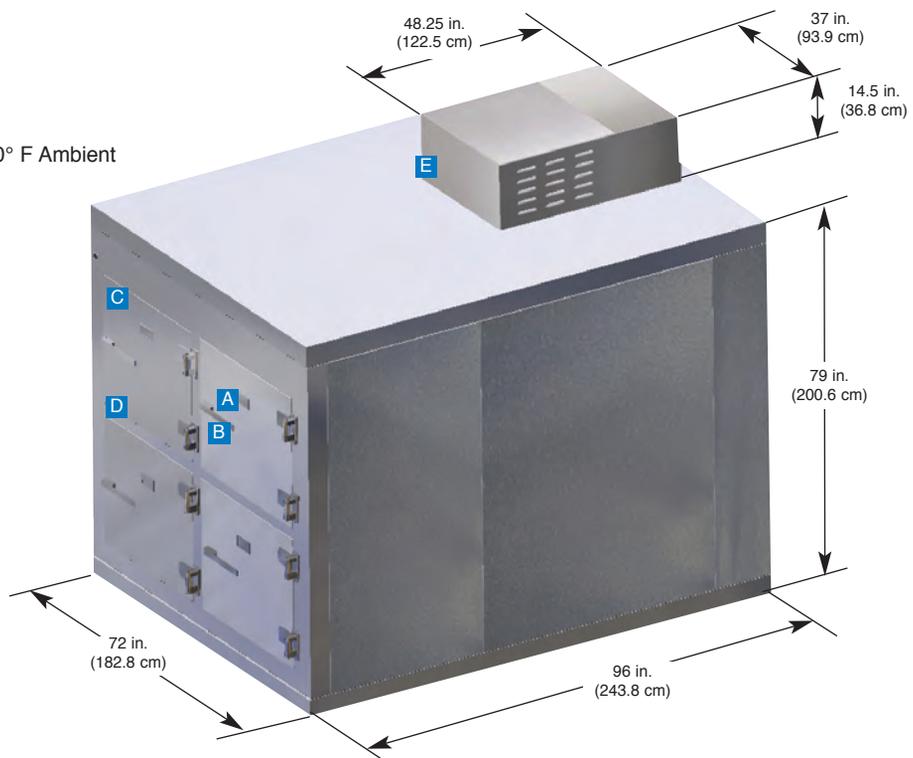
- A** Door Tag
- B** Door Handle
- C** Door Opening (27" W x 22" H)
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## KA400 End Opening, 4 Body (2 x 2)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



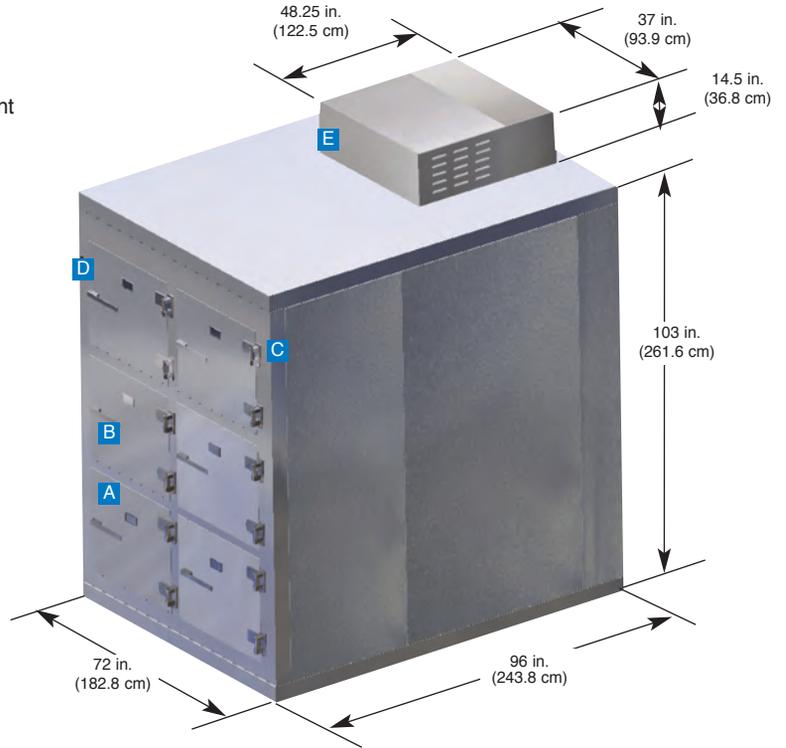
# Telescoping Tray System

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## KA500 End Opening, 6 Body (3 x 2)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



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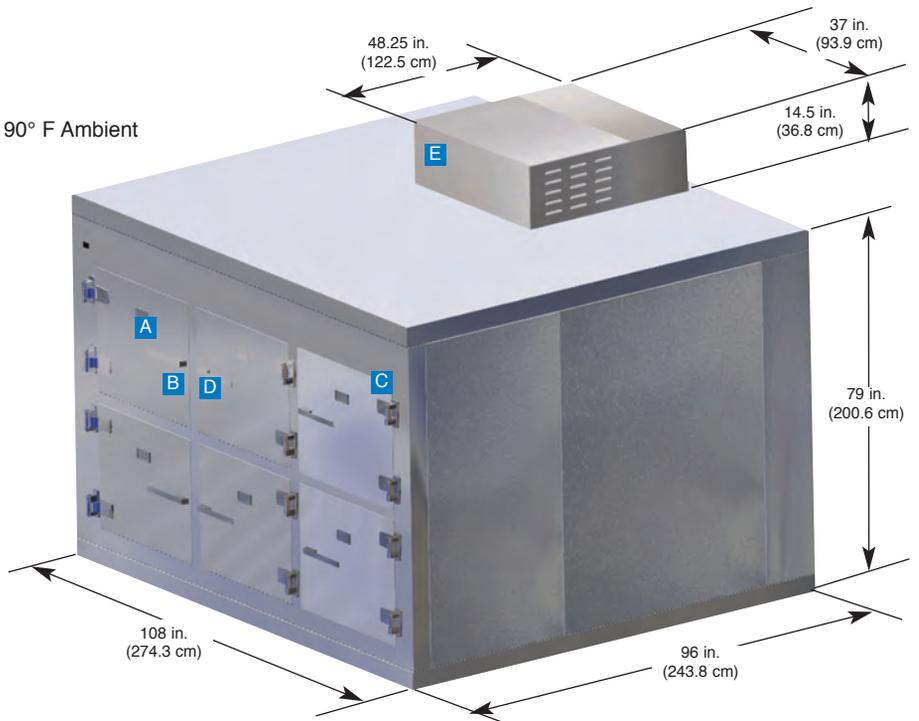
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## KA510 End Opening, 6 Body (2 x 3)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



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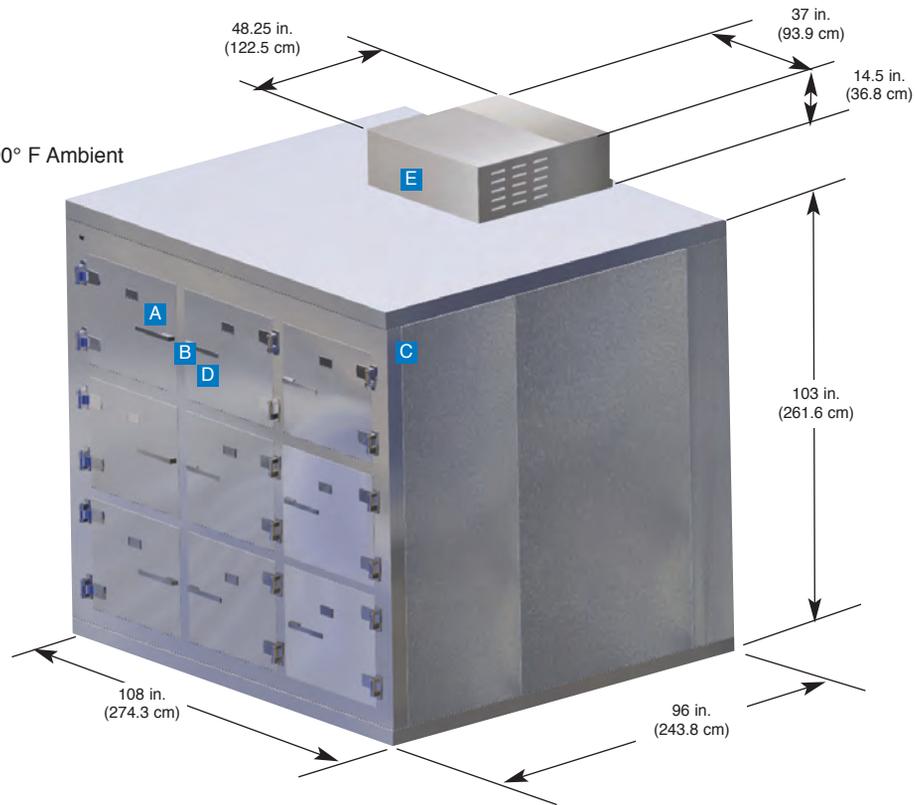
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# Telescoping Tray System

## KA600 End Opening, 9 Body (3 x 3)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

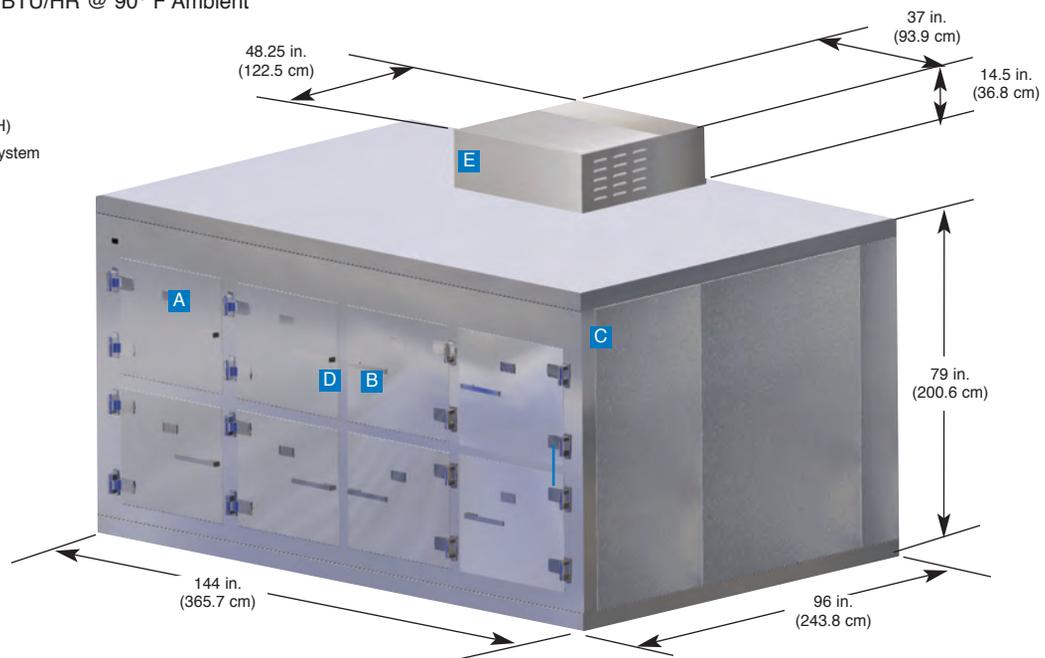
- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



## KA700 End Opening, 8 Body (2 x 4)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



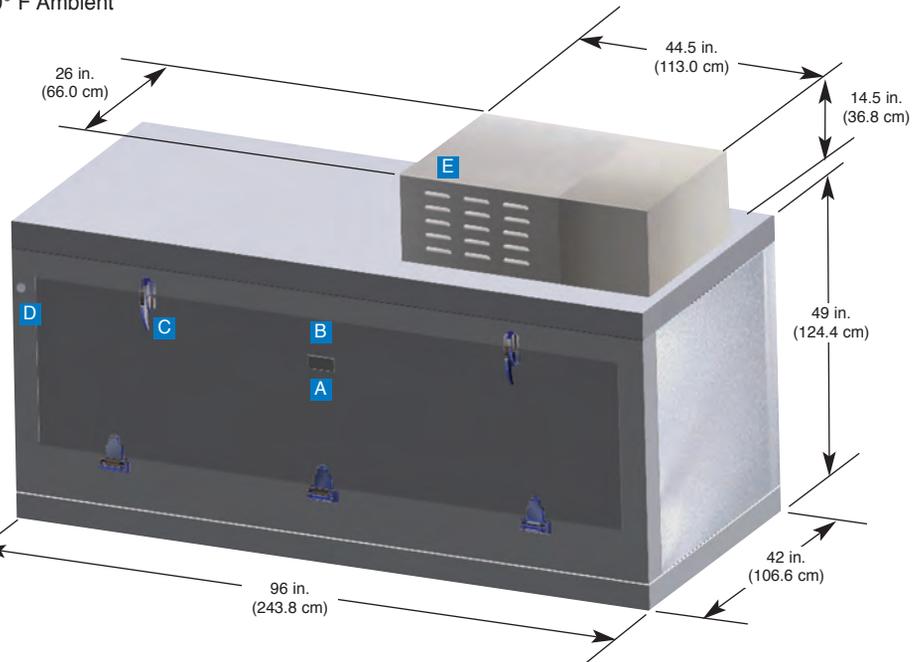
# Telescoping Tray System

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## KC100 Side Opening, 1 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (83" W x 21" H)
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## Side Opening Morgue Refrigerators

Side opening morgue refrigerators are designed with individual 83" W x 21" H (210.8 cm x 53.3 cm) doors.

The telescoping mechanism fully supports a body tray containing the cadaver. Maximum weight capacity is 375 pounds. If you need a larger weight capacity, contact the Customer Service Department at Mopec. When the door is open, the telescoping mechanism, body tray and cadaver are displayed in full side view.

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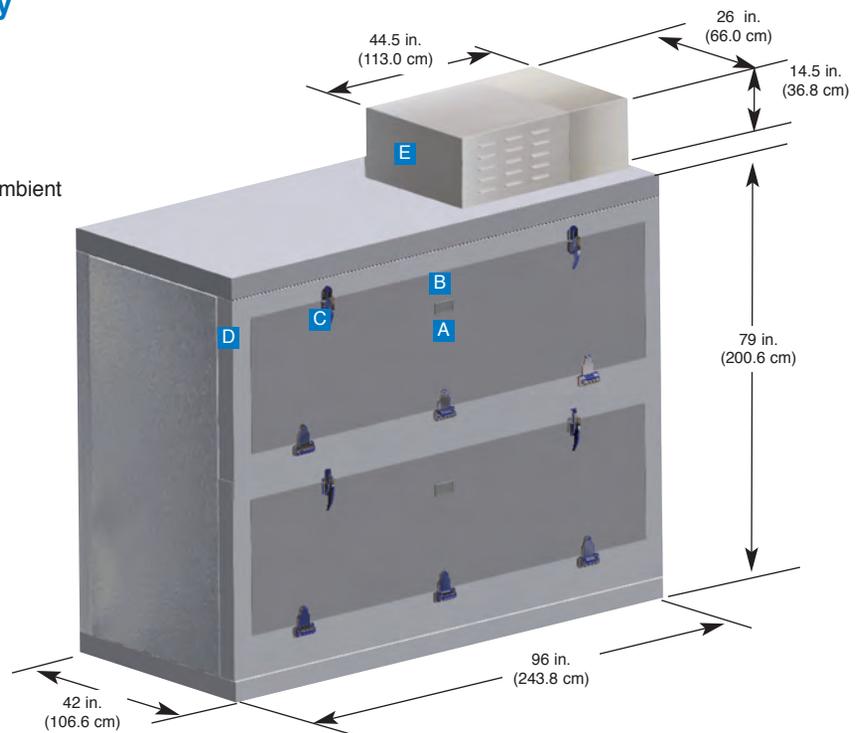
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## KC200 Side Opening, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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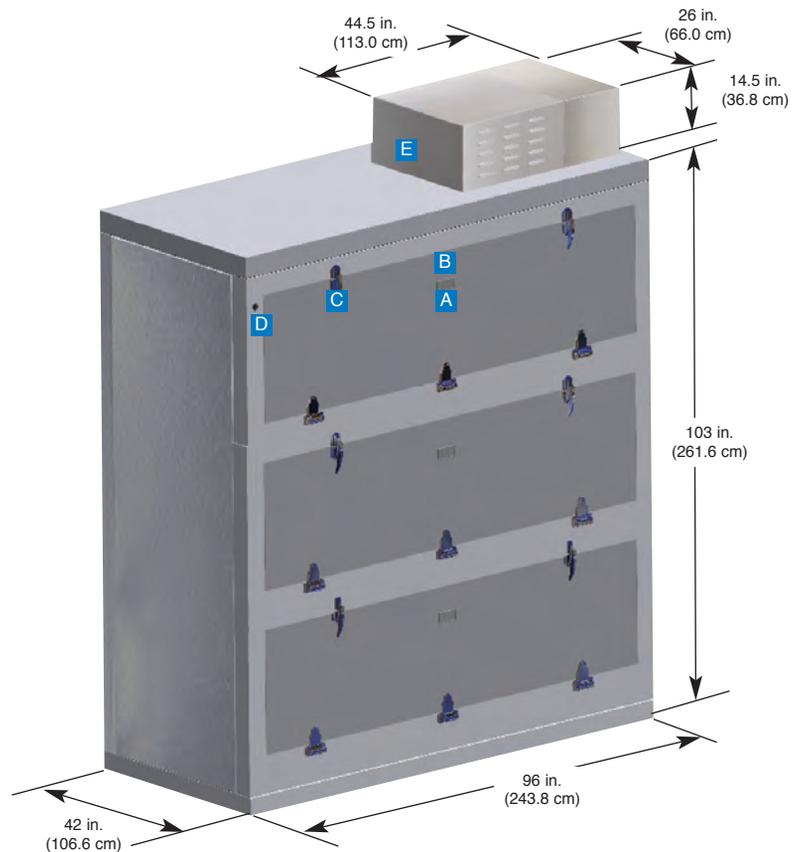
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# Telescoping Tray System

## KC300 Side Opening, 3 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (83" W x 21" H)
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## Side Opening Morgue Refrigerators

Side opening morgue refrigerators are designed with individual 83" W x 21" H (210.82 cm x 53.3 cm) doors.

The telescoping mechanism fully supports a body tray containing the cadaver. Maximum weight capacity is 375 pounds. If you need a larger weight capacity, contact the Customer Service Department at Mopec. When the door is open, the telescoping mechanism, body tray and cadaver are displayed in full side view.



KC200 Side Opening



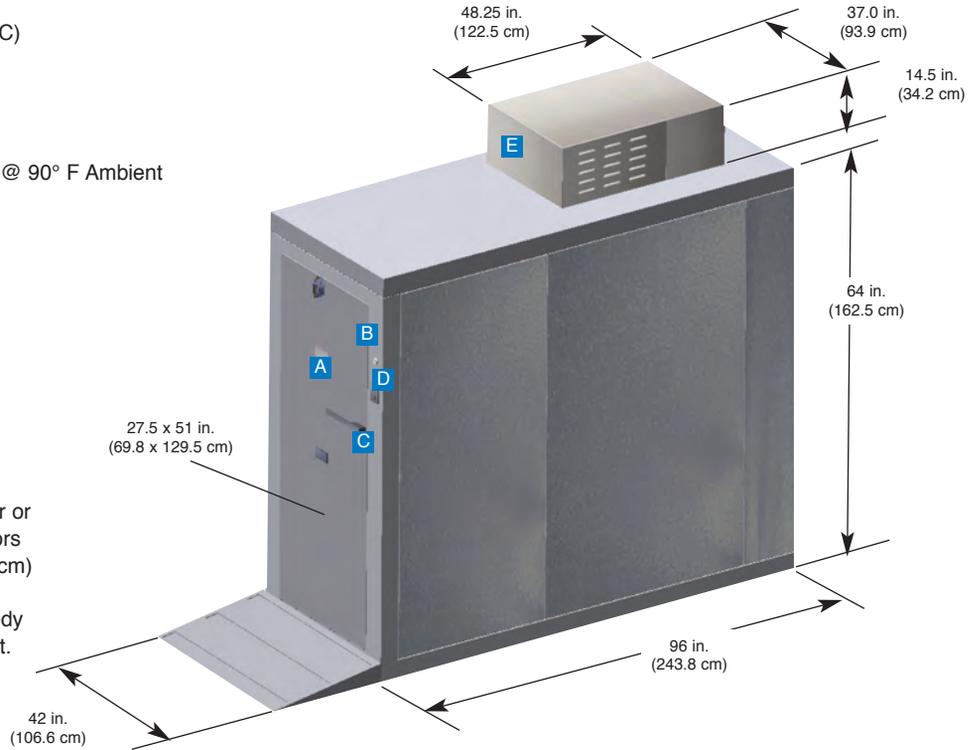
# Roll-In Refrigeration

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## KB100 Roll-In, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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## Roll-In Morgue Refrigerators

Roll-in morgue refrigerators are designed to be used with a one tier or two tier body carrier. Individual doors 27.5" W x 51" H (69.9 cm x 129.5 cm) open to a compartment that easily accommodates a two tier body carrier that is simply rolled in or out. Ramp included.

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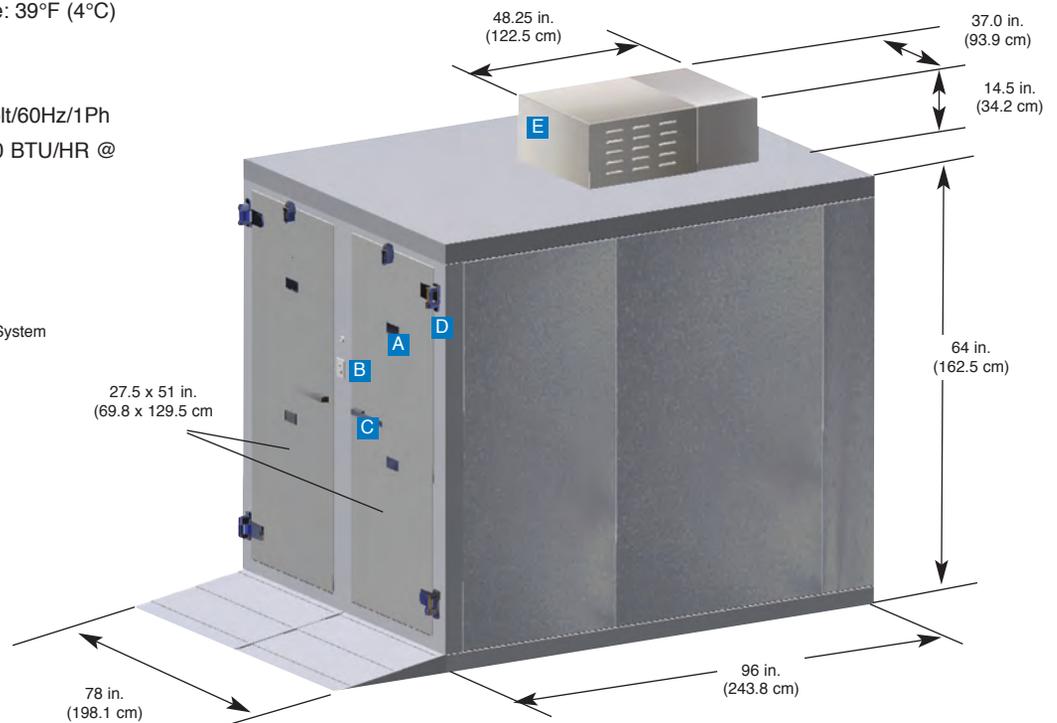
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## KB200 Roll-In, 4 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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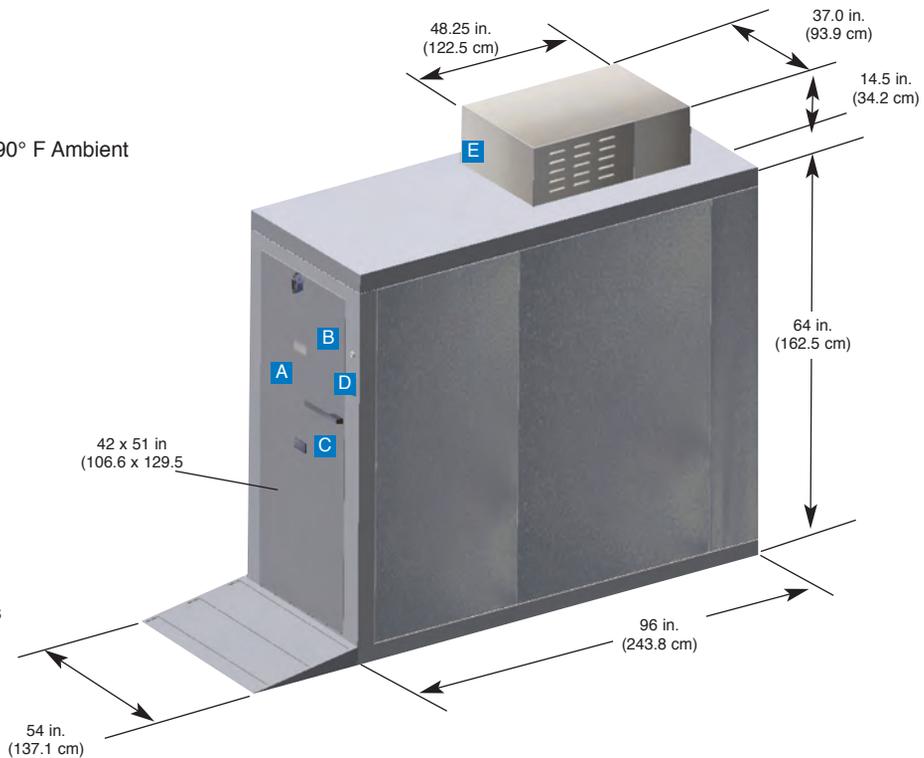
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# Roll-In Refrigeration

## KB300 Roll-In, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



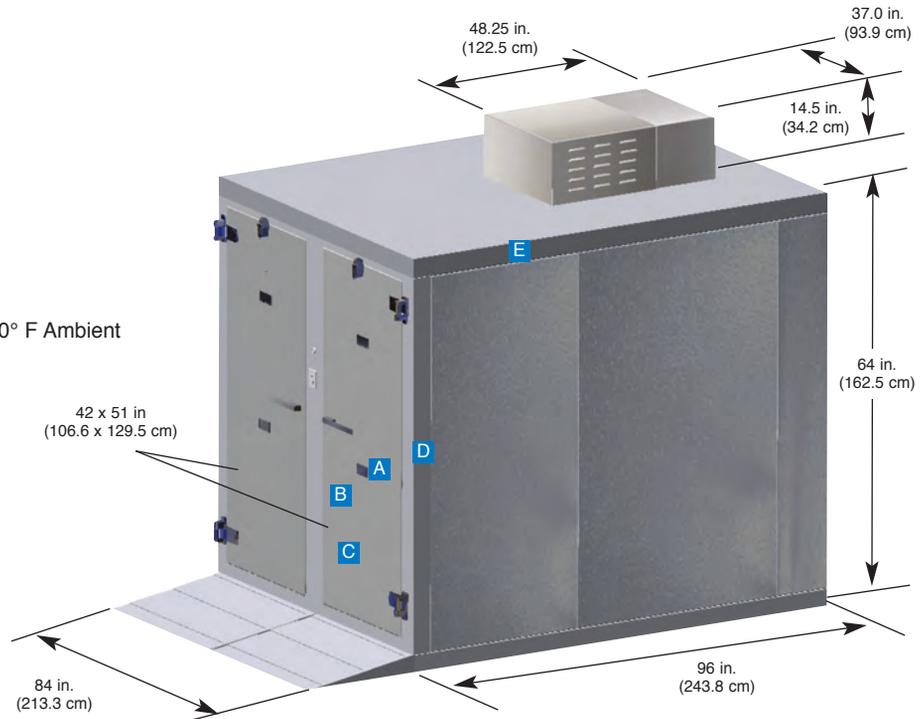
## Roll-In Morgue Refrigerators

Roll-in morgue refrigerators are designed to be used with a one tier or two tier body carrier. Individual doors 42" W x 51" H (106.6 cm x 129.5 cm) open to a compartment that easily accommodates an autopsy cart that is simply rolled in or out. Ramp included.

## KB400 Roll-In, 4 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



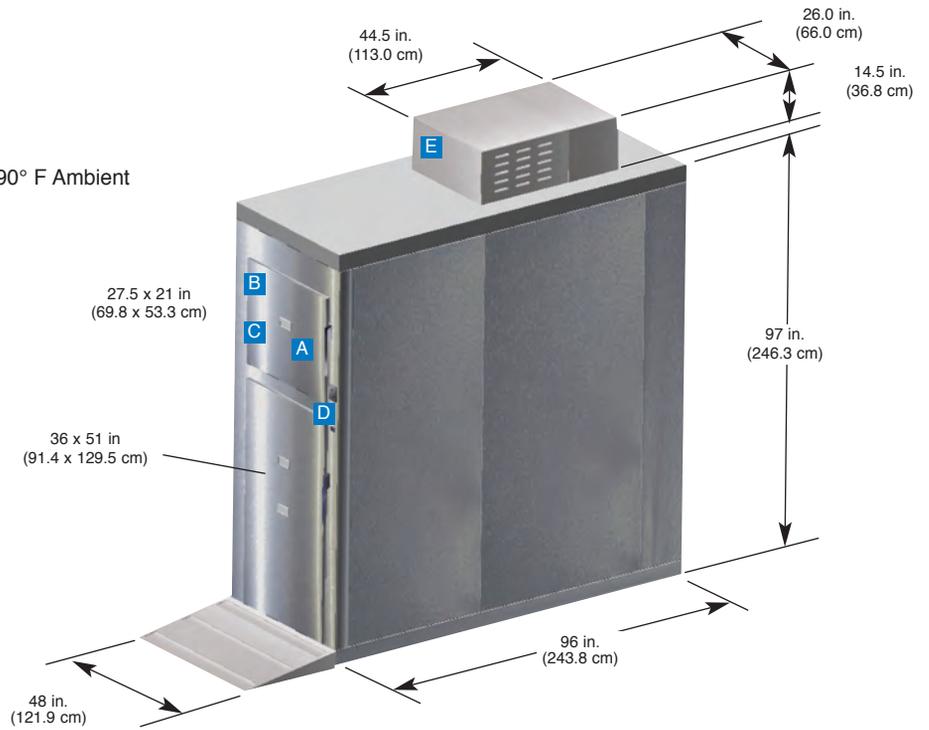
# Telescoping Tray System

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## KD100 End Roll-In, 3 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

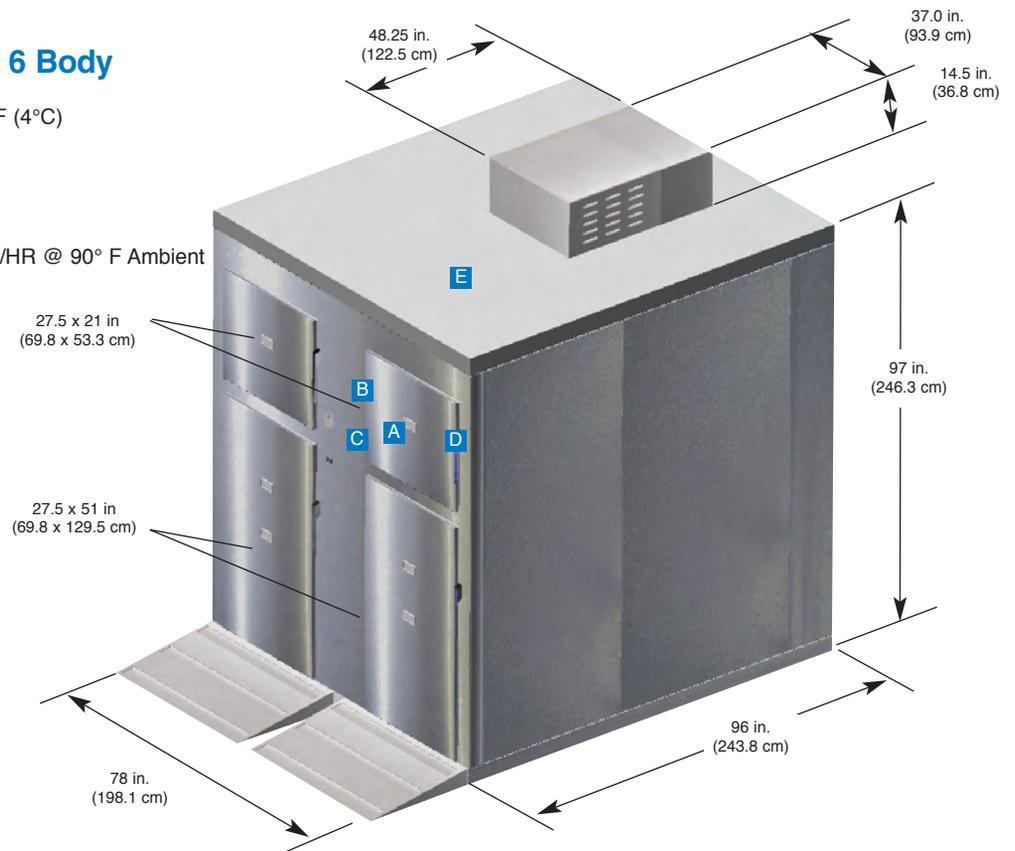
- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## KD200 End Roll-In, 6 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical 208/230-1-60 Volt
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



# Telescoping Tray System Specifications

PRODUCT	KA100	KA200	KA300	KA400	KA500
Type	End Opening	End Opening	End Opening	End Opening	End Opening
Door Style	1 Wide x 1 High	1 Wide x 2 High	1 Wide x 3 High	2 Wide x 2 High	2 Wide x 3 High
Body Capacity	1	2	3	4	6
Dimensions (L, W, H) - in	42 x 96 x 49	42 x 96 x 79	42 x 96 x 103	72 x 96 x 79	72 x 96 x 103
Electrical	115v 1ph 60hz	115v 1ph 60hz	115v 1ph 60hz	208/230v 1ph 60hz	208/230v 1ph 60hz
Refrigerant	R404	R404	R404	R404	R404
Refrigeration System H.P.	1/2 H.P.	1/2 H.P.	1/2 H.P.	3/4 H.P.	3/4 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	3500 BTU/HR	3500 BTU/HR	3500 BTU/HR	5400 BTU/HR	5400 BTU/HR
Door Opening Size (W,H) - in	(1 ea.) 27 x 22	(2 ea.) 27 x 22	(3 ea.) 27 x 22	(4 ea.) 27 x 22	(6 ea.) 27 x 22
<b>*Shipping Weight</b>	1052 lbs.	1232 lbs.	1377 lbs.	1578 lbs.	1754 lbs.

PRODUCT	KA510	KA600	KA700	KB100	KB200
Type	End Opening	End Opening	End Opening	Roll In	Roll In
Door Style	3 Wide x 2 High	3 Wide x 3 High	4 Wide x 2 High	1 Wide	2 Wide
Body Capacity	6	9	8	2	4
Dimensions (L, W, H) - in	108 x 96 x 79	108 x 96 x 103	144 x 96 x 79	42 x 96 x 64	78 x 96 x 64
Electrical	208/230v 1ph 60hz	208/230v 1ph 60hz	208/230v 1ph 60hz	115v 1ph 60hz	208/230v 1ph 60hz
Refrigerant	R404	R404	R404	R404	R404
Refrigeration System H.P.	3/4 H.P.	3/4 H.P.	3/4 H.P.	1/2 H.P.	3/4 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	5400 BTU/HR	5400 BTU/HR	5400 BTU/HR	3500 BTU/HR	5400 BTU/HR
Door Opening Size (W, H) - in	(6 ea.) 27 x 22	(9 ea.) 27 x 22	(8 ea.) 27 x 22	(1) 27-1/2 x 51	(2) 27-1/2 x 51
<b>*Shipping Weight</b>	1948 lbs.	2161 lbs.	2363 lbs.	1187 lbs.	1511 lbs.

PRODUCT	KB300	KB400	KC100	KC200	KC300
Type	KB300	KB400	Side Opening	Side Opening	Side Opening
Door Style	Roll-In	Roll-In	1 Wide x 1 High	1 Wide x 2 High	1 Wide x 3 High
Body Capacity	2	4	1	2	3
Dimensions (L, W, H) - in	54 x 96 x 64	108 x 96 x 64	42 x 96 x 49	42 x 96 x 79	42 x 96 x 103
Electrical	115v 1ph 60hz	208/230v 1ph 60hz	115v 1ph 60hz	115v 1ph 60hz	115v 1ph 60hz
Refrigerant	R404	R404	R404	R404	R404
Refrigeration System H.P.	1/2 H.P.	3/4 H.P.	1/2 H.P.	1/2 H.P.	1/2 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	3500 BTU/HR	5400 BTU/HR	3500 BTU/HR	3500 BTU/HR	3500 BTU/HR
Door Opening Size (W, H) - in	(1 ea.) 42 x 51	(2 ea.) 42 x 51	(1 ea.) 83 x 21	(2 ea.) 83 x 21	(3 ea.) 83 x 21
<b>*Shipping Weight</b>	1302 lbs.	1985 lbs.	1018 lbs.	1314 lbs.	1500 lbs.

PRODUCT	KD100	KD200
Type	End Opening Roll In	End Opening Roll In
Door Style	1 Wide x 2 High	2 Wide x 2 High
Body Capacity	3	6
Dimensions (L, W, H) - in	48 x 96 x 97	78 x 96 x 97
Electrical	115v 1ph 60hz	208/230v 1ph 60hz
Refrigerant	R404	R404
Refrigeration System H.P.	1/2 H.P.	3/4 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	3500 BTU/HR	5400 BTU/HR
Door Opening Size (W, H) - in	(1 ea.) 27 x 22	(2 ea.) 27-1/2 x 21
Door Opening Size (W, H) - in	(1 ea.) 36 x 51	(2 ea.) 27-1/2 x 51
<b>*Shipping Weight</b>	1384 lbs.	1841 lbs.

\* NOTE: Weights do not include telescoping mechanisms or body trays

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# Conveyor Tray System

## End Opening, Side Opening and Roll-In Combinations

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End Opening Conveyor Tray System



Body Tray Loading From JD950 Lift



Body Tray Loading From JD400/JD710 Roller Pallet Lift Combo



Conveyor Mechanism Shown Without Body Tray (End Opening)

### End Opening Conveyor Refrigerators

End opening conveyor style refrigerators are designed with individual door openings measuring 27" W x 22" H (68.6 cm x 55.8 cm). The conveyor tray system is permanently located within the cooler and fully supports the body tray. When the door is open, accessibility is limited to use of a lift with the same conveyor system. The tray can then be rolled out of the cooler and onto the conveyor lift system. The conveyor mechanism system is of a split wheel design which will accommodate body trays with drain holes.

### Side Opening Conveyor Refrigerators

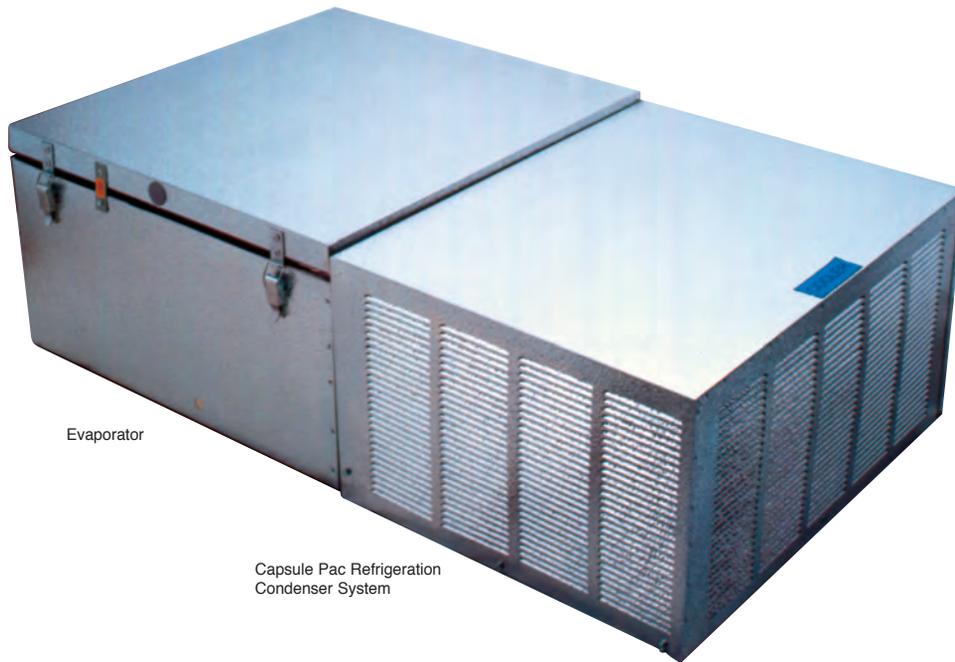
Side opening conveyor style refrigerators are designed with individual doors opening 83" W x 21" H (210.8 cm x 53.3 cm). The conveyor tray system is permanently located within the cooler and attached to each door. When the door is open and the tray is pulled out, it rolls from the interior of the cooler and onto the door. Once the tray is on the door, accessibility is limited to use with a lift with the same conveyor system. The tray can then be rolled across the door and onto the conveyor lift system. The conveyor system is a split wheel design that accommodates body trays with drain holes.

### Roll In/End Opening Combination

Roll in/end opening combination morgue refrigerators are designed to be used in conjunction with the conveyor tray system and a two tier body carrier. One door is 27" W x 22" H located directly over a roll in door 27.5" wide x 51" high. This cooler combines both the roll in and end open conveyor tray system. Remove the cadaver by extending the conveyor mechanism or rolling the one tier or two tier body carrier out of the cooler.

# Conveyor Tray System

## End Opening, Side Opening and Roll-In Combinations



Evaporator

Capsule Pac Refrigeration  
Condenser System



Safety Interior Latch Release



Spring Loaded Hinges  
Provides Assurance Of Door  
Closing

### Standard Features

**Conveyor Mechanism:** Split conveyor roller system with stainless steel frame, nylon guide struts and rubber bumpers.

**Exterior Metal Finish:** (Front) 20 gauge with #4 satin finish stainless steel.

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

**Interior Metal Finish:** (Floor) Galvanized steel, 14 gauge smooth finish.

**Interior Metal Finish:** (Balance) 26 gauge corrosion resistant stucco embossed coated steel.

**Insulation:** Foamed in place polyurethane insulation. Full 4" thick, UL Class 1 rigid polyurethane with 20 cubic foot density. "K" ≤ .135 BTU/HR, "U" = .033. CFC free and zero ozone depletion.

**Doors:** Fabricated with 22 gauge stainless steel inside and outside. Door frame and door are each fabricated of an extruded aluminum frame with a vinyl thermo breaker.

**Hardware:** (End Opening) Each door is provided with cam lift hinges, pull handles with keylock, magnetic gasket and perimeter frame wire heater.

**Hardware:** (Side Opening) Each door is provided with pull handles with keylock, (two each) motion dampeners, (two each) safety cables, magnetic gasket and perimeter frame wire heater.

**Light:** Vapor proof incandescent light and door controlled light switch.

**Body Tray:** Mopec JC100 23" W x 77" L stainless steel.

**Capsule Pak Refrigeration System (Mopec Exclusive):** The air cooled, welded hermetic refrigeration system is a self contained unit that simply sets above an opening in the top of

the refrigerator compartment. All components are conveniently located outside the refrigerator. The system can be serviced in-place or easily removed for maintenance—your technician need not enter the cooler compartment. No longer does the technician need to expose themselves to potential bacteria within the refrigerated structure.

**Operating Temperature:** 39°F (4°C).

### Optional Features

High/Low, Audio/Visual Temperature Alarm, 10" Diameter, Single Pen

**Product No. KO001**

Temperature Recorder, 7 Day Chart

**Product No. KO002**

Low Temperature Refrigeration (freezer)  
System Operating Temperature -4°F (-20°C)

### 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.

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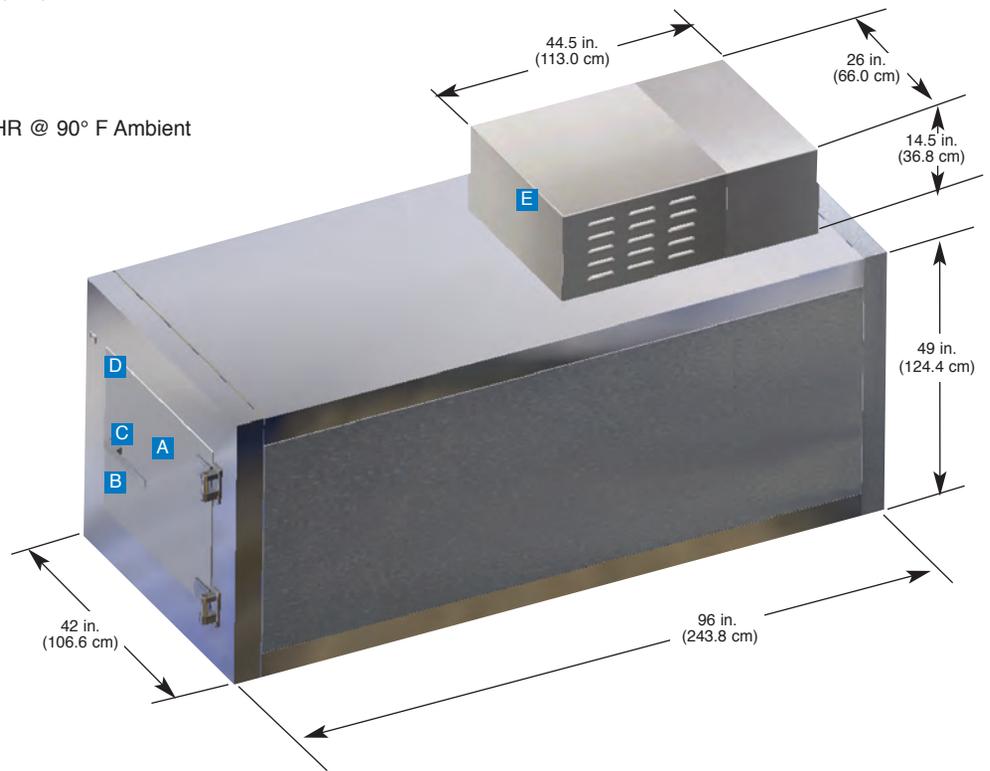
# Conveyor Tray System

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## KH100 End Opening, 1 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (27" W x 22" H)
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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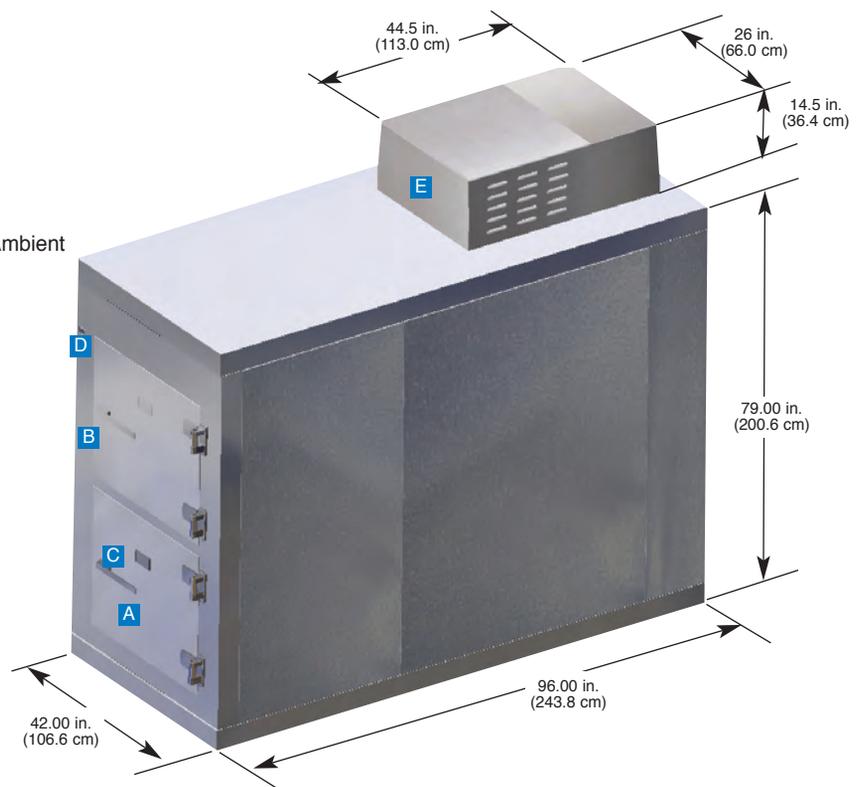
6

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## KH200 End Opening, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (27" W x 22" H)
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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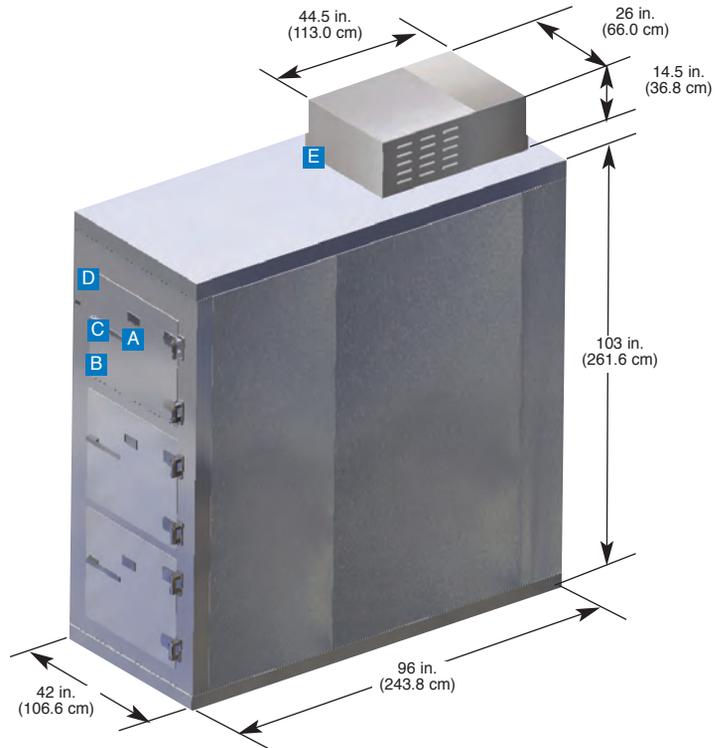
11

# Conveyor Tray System

## KH300 End Opening, 3 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

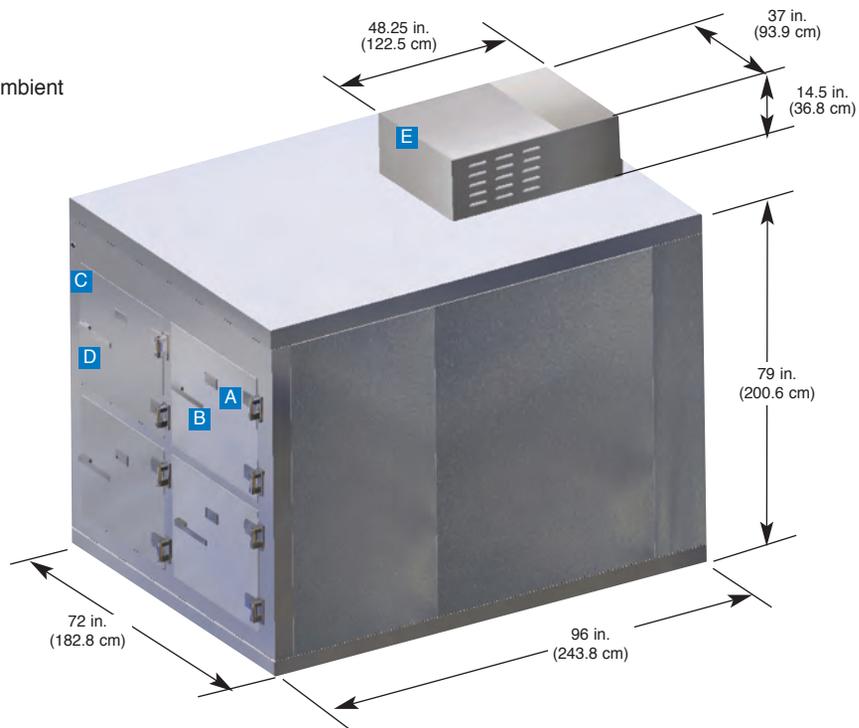
- A** Door Tag
- B** Door Opening (27" W x 22" H)
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



## KH400 End Opening, 4 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



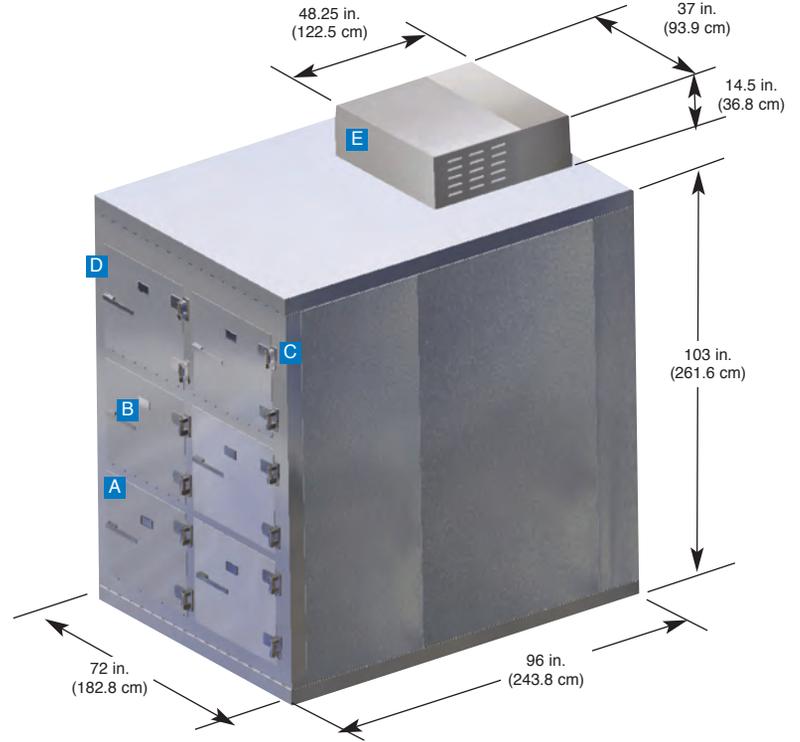
# Conveyor Tray System

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## KH500 End Opening, 6 Body (3 x 2)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



*Transfer of Cadavers is Easier  
with the Slide  
Body Transfer Board*



*See page 89*

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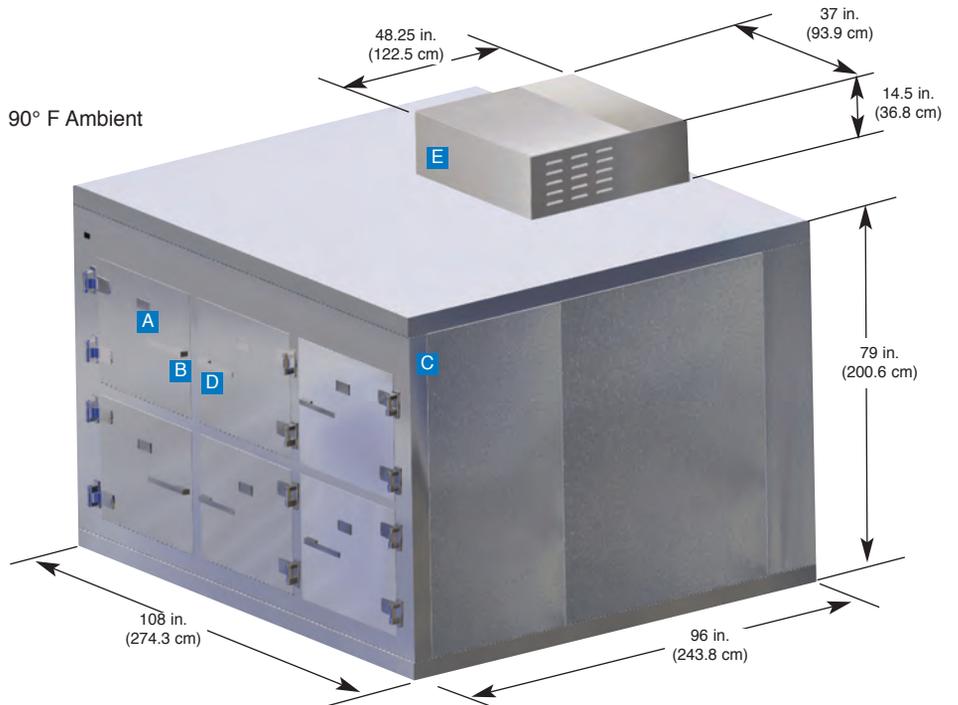
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## KH510 End Opening, 6 Body (2 x 3)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (27" W x 22" H)
- C** Digital Thermometer
- D** Door Handle
- E** Capsule Pak Refrigeration System



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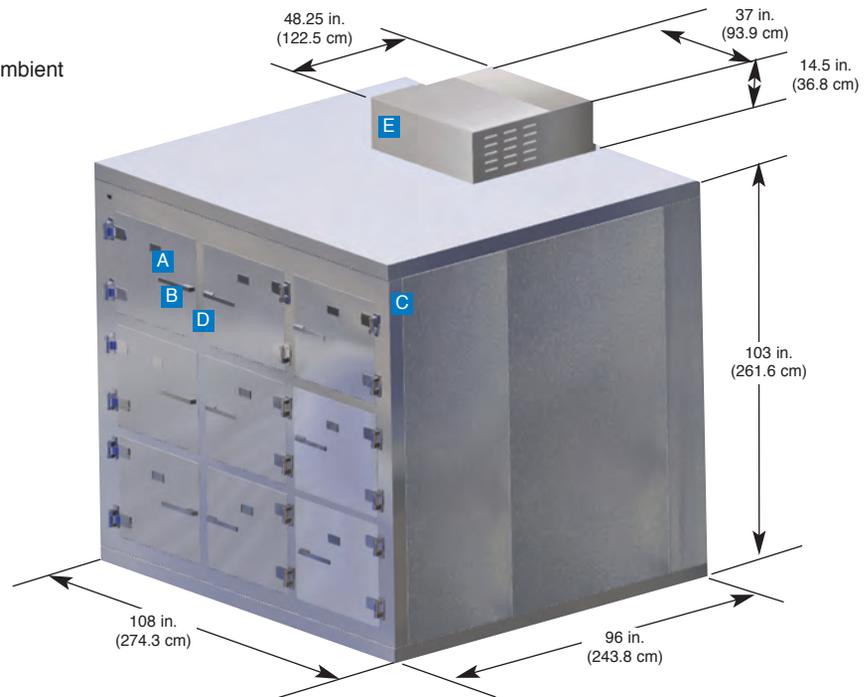
11

# Conveyor Tray System

## KH600 End Opening, 9 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

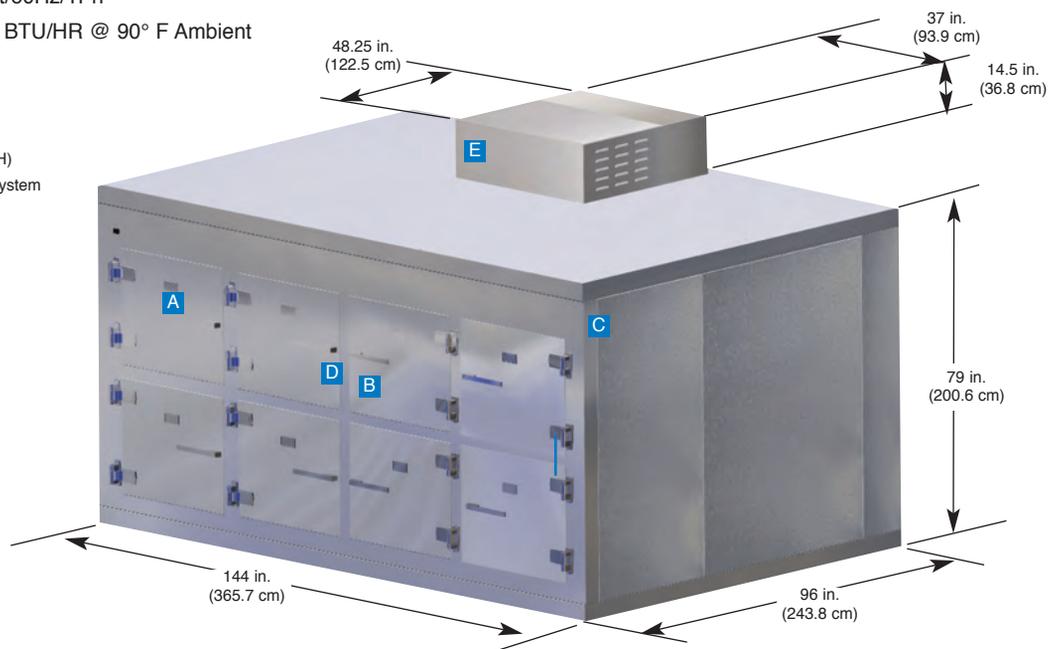
- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



## KH700 End Opening, 8 Body (2 x 4)

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5400 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Handle
- C** Digital Thermometer
- D** Door Opening (27" W x 22" H)
- E** Capsule Pak Refrigeration System



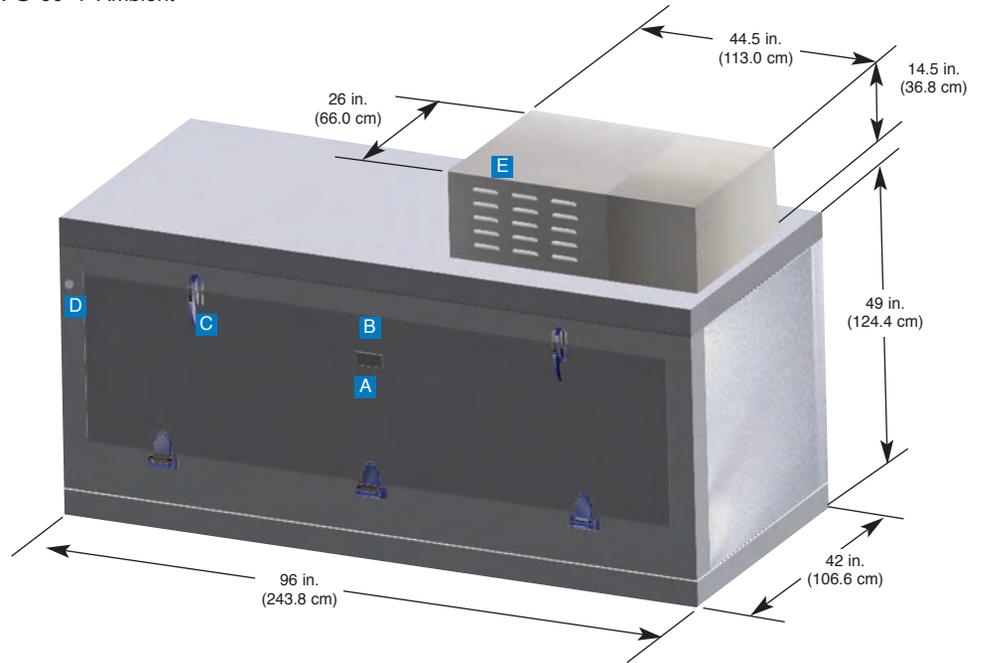
# Conveyor Tray System

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## KI100 Side Opening, 1 Body

- Operating Temperature: 39°F (4°C)
- System Capacity: 3500 BTU/HR @ 90° F Ambient
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph

- A** Door Tag
- B** Door Opening (83" x 21")
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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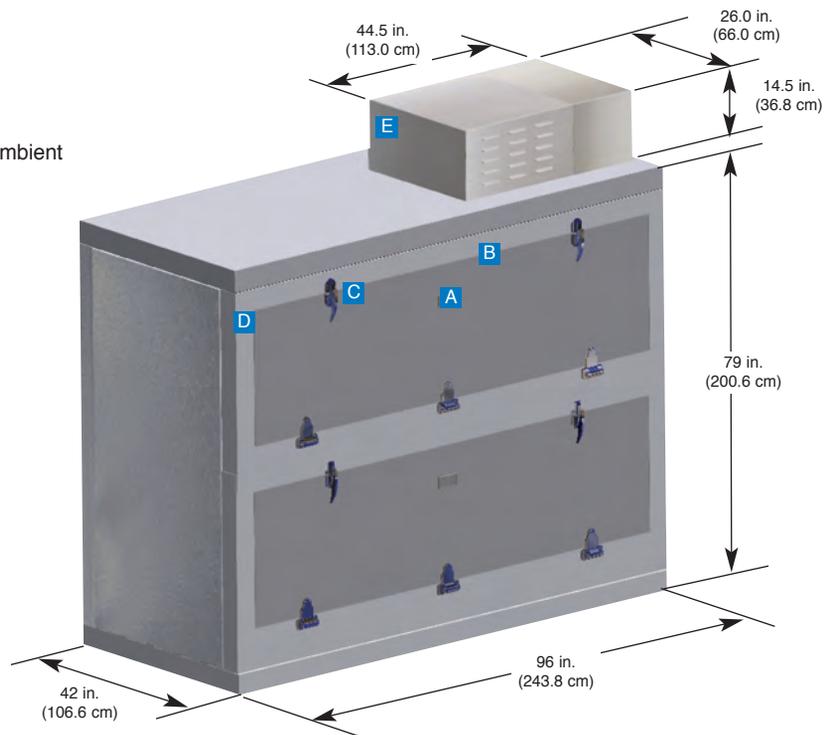
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## KI200 Side Opening, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (83" x 21")
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



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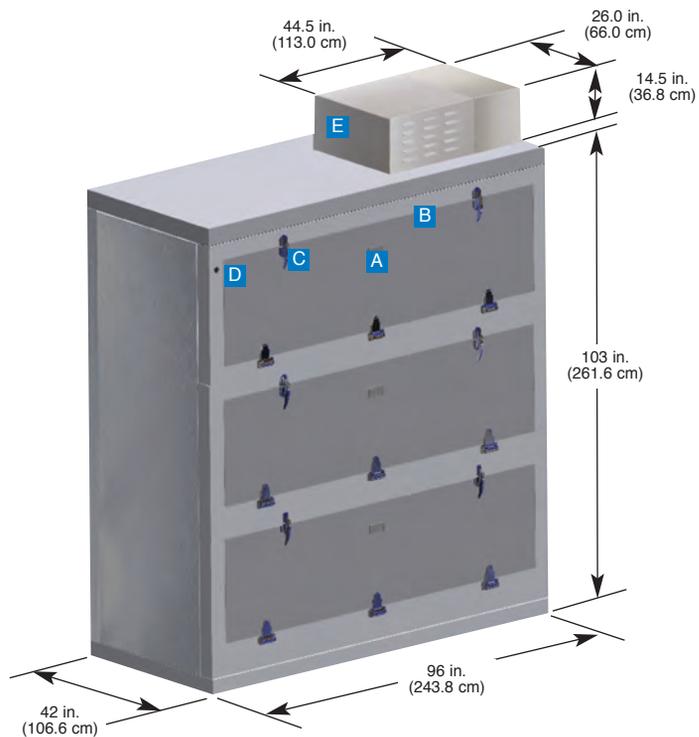
11

# Conveyor Tray System

## KI300 Side Opening, 3 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Door Tag
- B** Door Opening (83" x 21")
- C** Door Latch
- D** Digital Thermometer
- E** Capsule Pak Refrigeration System



*Did You Know That Mopec Offers a Wide Assortment of Body Lifts?*



Conveyor Tray System Side opening, shown opened



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# Conveyor Tray System Specifications

PRODUCT	KH100	KH200	KH300	KH400	KH500
<b>Type</b>	<b>End Opening</b>				
Door Style	1 Wide x 1 High	1 Wide x 2 High	1 Wide x 3 High	2 Wide x 2 High	2 Wide x 3 High
Body Capacity	1	2	3	4	6
Dimensions (L, W, H) - in	42 x 96 x 49	42 x 96 x 79	42 x 96 x 103	72 x 96 x 79	72 x 96 x 103
Electrical	115v 1ph 60hz	115v 1ph 60hz	115v 1ph 60hz	208/230v 1ph 60hz	208/230v 1ph 60hz
Refrigeration System H.P.	1/2 H.P.	1/2 H.P.	1/2 H.P.	3/4 H.P.	3/4 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	3500 BTU/HR	3500 BTU/HR	3500 BTU/HR	5400 BTU/HR	5400 BTU/HR
Door Opening Size (W,H) - in	(1 ea.) 27 x 22	(2 ea.) 27 x 22	(3 ea.) 27 x 22	(4 ea.) 27 x 22	(6 ea.) 27 x 22
<b>*Shipping Weight</b>	1052 lbs.	1232 lbs.	1377 lbs.	1578 lbs.	1754 lbs.

PRODUCT	KH510	KH600	KH700	KI100	KI200
<b>Type</b>	<b>End Opening</b>	<b>End Opening</b>	<b>End Opening</b>	<b>Side Opening</b>	<b>Side Opening</b>
Door Style	3 Wide x 2 High	3 Wide x 3 High	4 Wide x 2 High	1 Wide	2 Wide x 2 High
Body Capacity	6	9	8	1	2
Dimensions (L, W, H) - in	108 x 96 x 79	108 x 96 x 103	144 x 96 x 79	96 x 42 x 49	96 x 42 x 79
Electrical	208/230v 1ph 60hz	208/230v 1ph 60hz	208/230v 1ph 60hz	115v 1ph 60hz	115v 1ph 60hz
Refrigeration System H.P.	3/4 H.P.	3/4 H.P.	3/4 H.P.	1/2 H.P.	1/2 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	5400 BTU/HR	5400 BTU/HR	5400 BTU/HR	3500 BTU/HR	3500 BTU/HR
Door Opening Size (W, H) - in	(6 ea.) 27 x 22	(9 ea.) 27 x 22	(8 ea.) 27 x 22	(1 ea.) 83 x 21	(2 ea.) 83 x 21
<b>*Shipping Weight</b>	1948 lbs.	2161 lbs.	2363 lbs.	1018 lbs.	1314 lbs.

PRODUCT	KI300	KJ100	KJ200
<b>Type</b>	<b>Side Opening</b>	<b>End Opening Roll In</b>	<b>End Opening Roll In</b>
Door Style	1 Wide x 3 High	1 Wide x 2 High	2 Wide x 2 High
Body Capacity	3	3	6
Dimensions (L, W, H) - in	96 x 42 x 103	48 x 96 x 97	78 x 96 x 97
Electrical	115v 1ph 60hz	115v 1ph 60hz	208/230v 1ph 60hz
Refrigeration System H.P.	1/2 H.P.	1/2 H.P.	3/4 H.P.
Compressor Capacity BTU/HR @ 90° F ambient	3500 BTU/HR	3500 BTU/HR	5400 BTU/HR
Door Opening Size (W,H) - in		(1 ea.) 27.5 x 21	(1 ea.) 27.5 x 21
Door Opening Size (W,H) - in	(3 ea.) 83 x 21	(1. ea.) 36 X 51	(2 ea.) 27.5 X 51
<b>*Shipping Weight</b>	1500 lbs.	1384 lbs.	1841 lbs.

\* NOTE: Weights do not include conveyor mechanisms or body trays.

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# Walk-In Refrigerator System

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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 to meet 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

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 that 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 is 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, non-conducting synthetic tapping plates.

**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 jam is constructed of fully covered extruded and welded, structural anodized aluminum, with a rigid frame design for easy cleaning and maintenance. The threshold plate is constructed of extruded aluminum for bearing strength. Aluminum diamond kick plate provided on interior/exterior of door. Anti-condensation heaters surround the full perimeter of the door opening. The complete door section is UL listed and labeled. Other door styles and sizes are available.

# Walk-In Refrigerator System



**Modular Panel Construction:** Wall, ceiling and floor panels are prefabricated modular construction consisting of 100% foamed in place polyurethane insulation a full 4 inches thick. The panels are bonded by an adhesive to the interior and exterior metal pan skins and then heat cured for long life and 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. The panels 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.

**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.

**Pilot Light and Safety Release:** A constant burning pilot light and inside safety release assures a non-panic 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 rail is available to protect the wall surface.



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# Walk-In Refrigerator System

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**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 has 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 a heavy gauge aluminum housing. Units have a drain pan with a suitable drain pipe connection. Evaporators for use at 0° Centigrade (32° Fahrenheit) use an electric defrost and are 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 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
- Bumper rails

## Optional Material Finishes (Interior and Exterior)

20 Gauge stainless steel with a #4 satin finish

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.

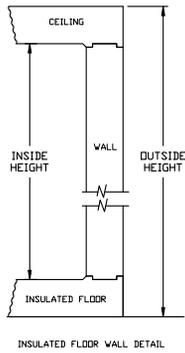


Deadbolt Locking Handle

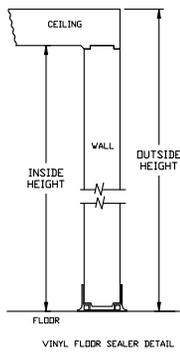


# Walk-In Refrigerator System

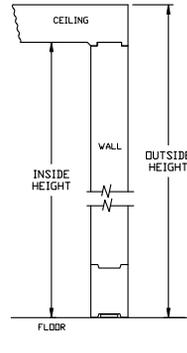
## Walk-In Heights



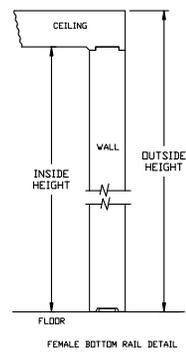
INSULATED FLOOR WALL DETAIL



VINYL FLOOR SEALER DETAIL



FOAM FLOOR SEALER DETAIL



FEMALE BOTTOM RAIL DETAIL

### Heights With Insulated Floor Panel

Outside (O.D.)	Inside (I.D.)
6' 7"	5' 11"
7' 1"	6' 11"
8' 1"	7' 11"
9' 1"	8' 11"
10' 7"	9' 11"
11' 7"	10' 11"

### Heights With Vinyl Floor Sealer

Outside (O.D.)	Inside (I.D.)
6' 3-5/8"	5' 11-5/8"
6' 9-5/8"	6' 11-5/8"
7' 9-5/8"	7' 11-5/8"
8' 9-5/8"	8' 11-5/8"
10' 3-5/8"	9' 11-5/8"
11' 3-5/8"	10' 11-5/8"

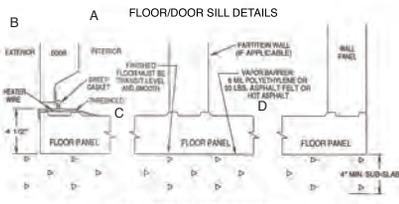
### Heights With Foam Floor Sealer

Outside (O.D.)	Inside (I.D.)
6' 7"	6' 3"
7' 1"	7' 3"
8' 1"	8' 3"
9' 1"	9' 3"
10' 7"	10' 3"
11' 7"	11' 3"

### Heights With Wall Sealer

Outside (O.D.)	Inside (I.D.)
6' 2-5/8"	5' 10-5/8"
7' 2-5/8"	6' 10-5/8"
8' 2-5/8"	7' 10-5/8"
9' 2-5/8"	8' 10-5/8"
10' 2-5/8"	9' 10-5/8"
11' 2-5/8"	10' 10-5/8"

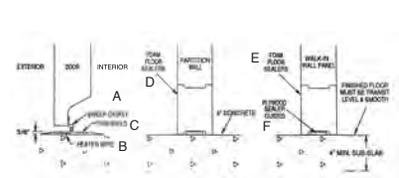
## Walk-In Floor Styles



STD. WITH FLOOR DETAIL

### Insulated Floor (Standard Floor)

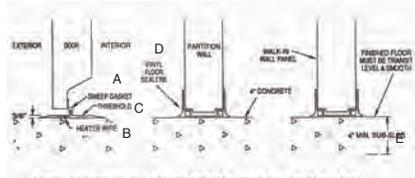
- A Sweep Gasket
- B Heater Wire
- C Threshold
- D Vapor Barrier



FOAM FLOOR SEALERS ON TOP OF UNINSULATED FLOOR

### Foam Floor Sealer (No Insulated Floor)

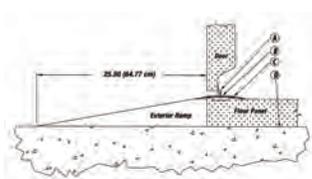
- A Sweep Gasket
- B Heater Wire
- C Threshold
- D Vinyl Floor Sealers
- E 4" Concrete



VINYL FLOOR SEALERS ON TOP OF UNINSULATED FLOOR

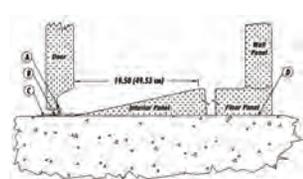
### Vinyl Floor Sealer (No Insulated Floor)

- A Sweep Gasket
- B Heater Wire
- C Threshold
- D Foam Floor Sealer
- E Foam Floor Sealer
- F Plywood Sealer Guides



### Exterior Ramp

- A Sweep Gasket
- B Heater Wire
- C Threshold
- D Vapor Barrier



### Interior Ramp

- A Sweep Gasket
- B Heater Wire
- C Threshold
- D Vapor Barrier



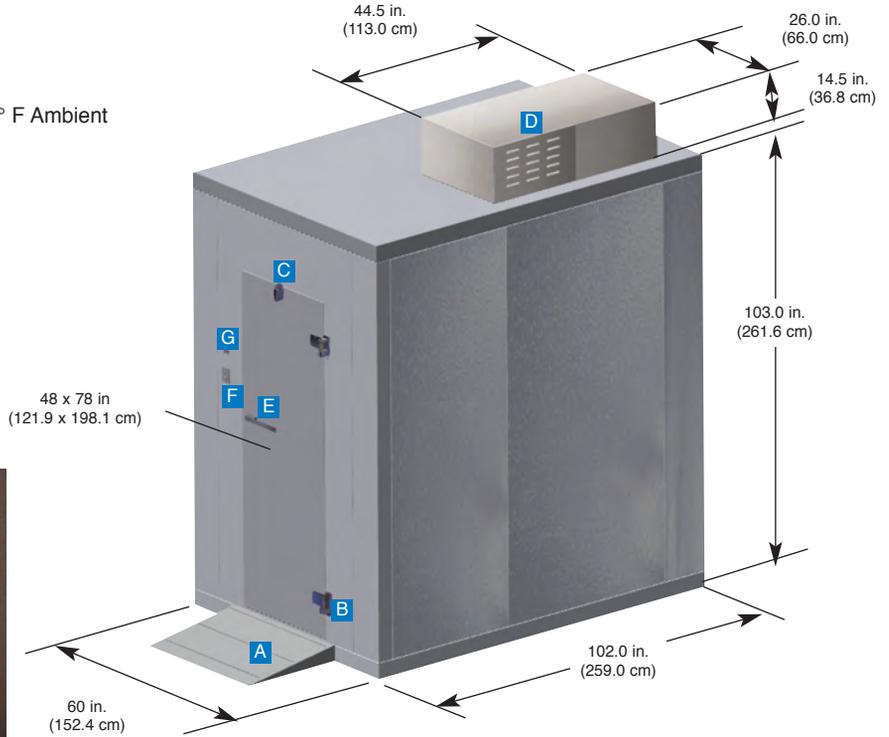
# Walk-In Refrigerator System

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## KE100 Walk-In, 1 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Exterior Ramp (48" x 25.5")
- 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



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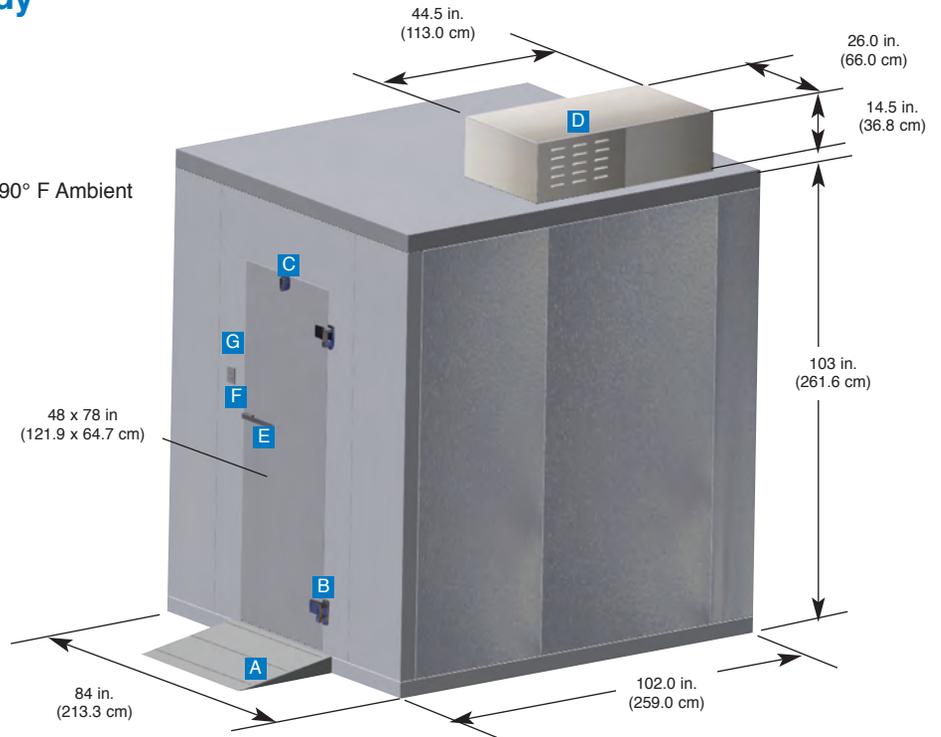
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## KE200 Walk-In, 2 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: 3500 BTU/HR @ 90° F Ambient

- A** Exterior Ramp (48" x 25.5")
- 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



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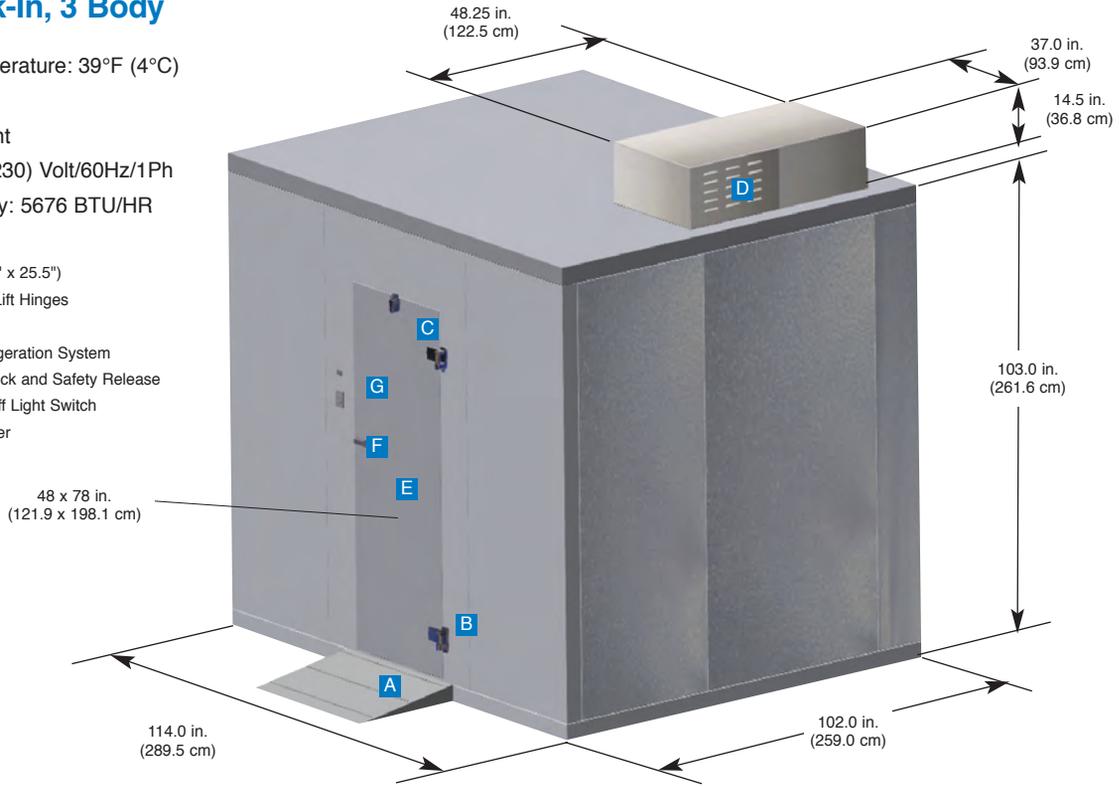
11

# Walk In Refrigerator System

## KE300 Walk-In, 3 Body

- Operating Temperature: 39°F (4°C)
- 3/4 Horsepower
- R404 Refrigerant
- Electrical (208-230) Volt/60Hz/1Ph
- System Capacity: 5676 BTU/HR

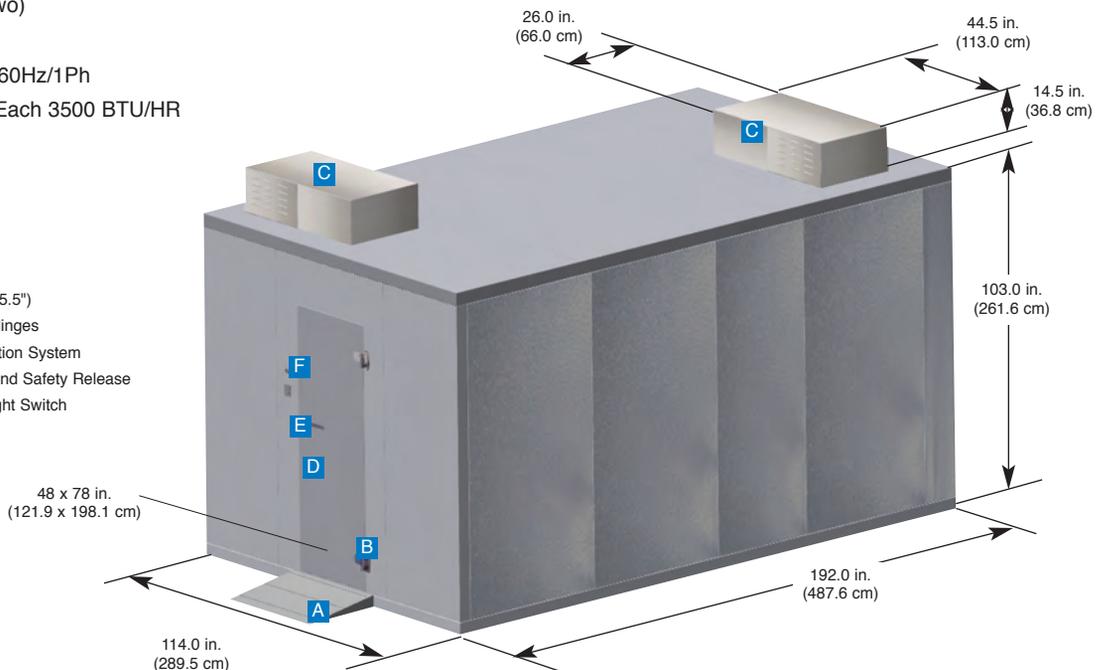
- A** Exterior Ramp (48" x 25.5")
- B** Heavy-Duty Cam-Lift Hinges
- C** Door Closure
- D** Capsule Pak Refrigeration System
- E** Door Latch with Lock and Safety Release
- F** Pilot Lighted On/Off Light Switch
- G** Digital Thermometer



## KE400 Walk-In, 4-5 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower (two)
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: Each 3500 BTU/HR @ 90° F Ambient

- A** Exterior Ramp (48" x 25.5")
- B** Heavy-Duty Cam-Lift Hinges
- C** Capsule Pak Refrigeration System
- D** Door Latch with Lock and Safety Release
- E** Pilot Lighted On/Off Light Switch
- F** Digital Thermometer

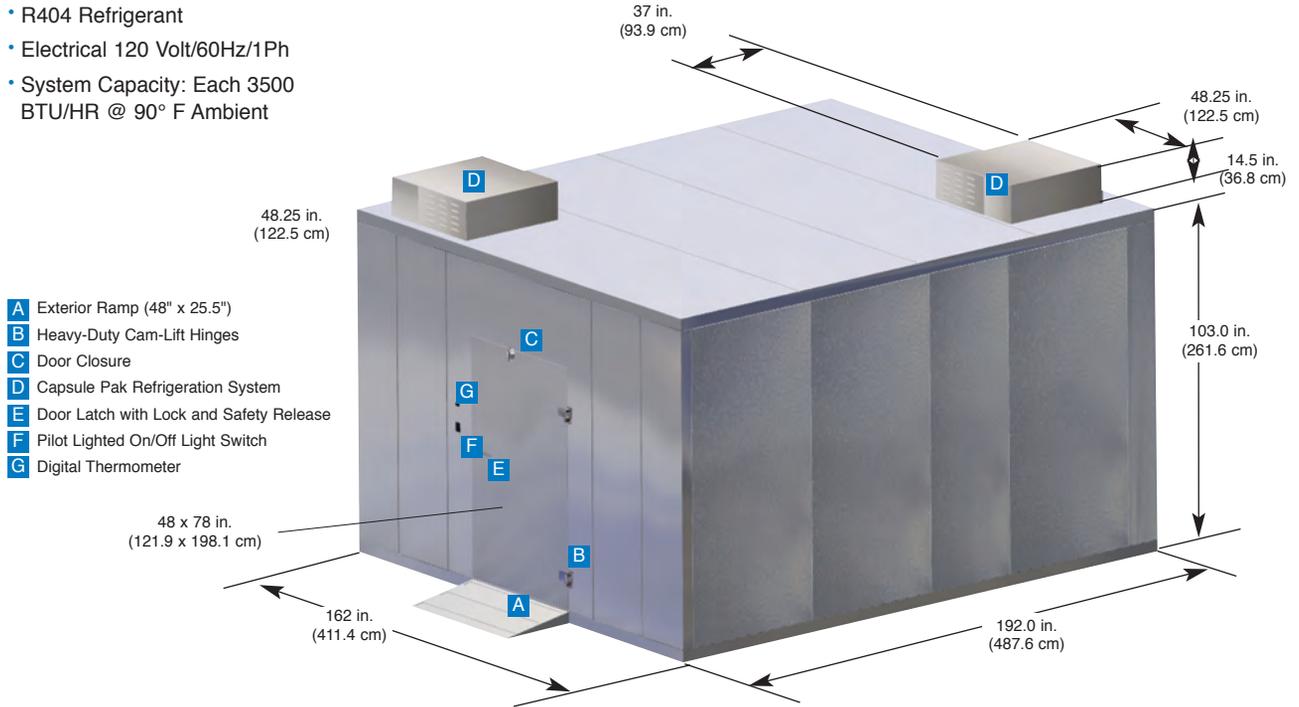


# Walk-In Refrigerator System

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## KE500 Walk-In, 6-7-8 Body

- Operating Temperature: 39°F (4°C)
- 1/2 Horsepower (two)
- R404 Refrigerant
- Electrical 120 Volt/60Hz/1Ph
- System Capacity: Each 3500 BTU/HR @ 90° F Ambient



Mopec's refrigeration systems are designed to achieve and maintain scheduled room temperature requirements

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## Walk-In Refrigerator Specifications

PRODUCT	KE100	KE200	KE300	KE400	KE500
Type	Walk-In	Walk-In	Walk-In	Walk-In	Walk In
Door Style	Walk-In	Walk-In	Walk-In	Walk-In	Walk-In
Body Capacity	1	2	3	4-5	6-7-8
Dimensions (Front x Side x Height)	66" x 102" x 103"	84" x 102" x 103"	114" x 102" x 103"	114" x 192" x 103"	162" x 192" x 103"
Electrical	115v 1ph 60hz	115v 1ph 60hz	208/230-1-60	115v 1ph 60hz	208/230v-1 60hz
Refrigerant	R404	R404	R404	R404	R404
Refrigeration System H.P.	1/2 H.P.	1/2 H.P.	3/4 H.P.	(2) 1/2 H.P.	(2) 3/4 H.P.
Compressor Capacity	3500 BTU/HR	3500 BTU/HR	5400 BTU/HR	3500 BTU/HR x (2)	3500 BTU/HR x (2)
Door Opening Size (W,H) - in	48" x 78"	48" x 78"	48" x 78"	48" x 78"	48" x 78"
Shipping Weight	1765 lbs.	2050 lbs.	2373 lbs.	3909 lbs.	4967 lbs.

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