CUH900 SERIES
CUSTOM CABINET UNIT HEATER

IDEAL SPACES
- School Hallways
- Churches
- Transportation Terminals
- Stairwells
- Entrance Ways
- Vestibules
- Lobbies
- Mechanical Rooms

COLORS
- White
- Beige
- Aluminum

DIMENSIONS
- 26-3/8"H x 9-3/4"D (length varies)

TEMP RANGE
- 55° – 85°F

CFM
- 200 – 1000

- BMS-compatible
- 16 air inlet/outlet combinations that are all field-changeable
- One-person maintenance on ceiling applications with hinged front panel
- Cabinet constructed of heavy 16-gauge cold-rolled steel to provide strength and finished with a polyester powder coating for corrosion resistance
- Motors are mounted with automatic thermal overload protection; motor fuse protection is provided on all heaters to meet safety requirements
- Plate fin element - steel fins are copper-brazed to low-watt density, steel-sheathed tubular heating elements
- Element is finished with aluminized paint for corrosion resistance
- Fins and elements are arranged in a uniform grid pattern and fit closely into the discharge area to assure that all outgoing air passes through the heating element
- Thermal safety cutout - installed with direct contact to the heating element. Automatically shuts off the heater in the event of overheating, reactivates the heater when operating temperature returns to normal
- Built-in thermostat* – single-pole, snap-action thermostat with remote bulb sensor located directly in the air intake
- Tamper-resistant, two-position selector switch to select full heat at high fan speed and reduced heat at low fan speed*
- Automatic fan delay eliminates cold drafts on start-up and discharges residual heat from the heater body during shut down
- Front cover interlock de-energizes unit when front cover is removed for added safety
- Disposable air filter mounted in inlet air stream; optional permanent and washable aluminum filters available
- Standard stamped louvered grilles; optional architectural-style grille available; optional aluminum wall louver available, ideal for exterior masonry or panel walls

*Optional feature. Contact sales representative or factory regarding optional features available, including: built-in fan switch; 120V control, electronically controlled outside air damper; inlet and discharge duct collars; dead-front and fused dead-front disconnect switches; built-in night set back relay; and trim kits. See page 39 to find out how to order cabinet unit heaters.

www.berkomep.com
For Technical Services, Call 800-642-4328
ITEM# BFLY_CUHS900_1217-1
CUH900 SERIES
CUSTOM CABINET UNIT HEATER

MODELS & SPECIFICATIONS

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<th>SERIES</th>
<th>KW</th>
<th>BTU/HR</th>
<th>FINAL AIR TEMP (Deg. F)</th>
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<th>208 1 PH 60 HZ</th>
<th>208 3 PH 60 HZ</th>
<th>240 1 PH 60 HZ</th>
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**CUSTOM CABINET UNIT HEATER CUH900 SERIES**

FRONT OUTLET (FIFO)

78 in. (L) CUH978

260 LBS.

68 in. (L) CUH968

200 LBS.

58 in. (L) CUH958

160 LBS.

45 in. (L) CUH945

120 LBS.

35 in. (L) CUH935

NOTE:

RED numbers represent circuit breakers or fused disconnect required. **380V units will operate with a 16% reduction in heating capacity. +Based on 60°F inlet air temperature. *Values shown is high speed.

FINAL AIR TEMPERATURE

- 220°F inlet air temperature.
- 95°F inlet air temperature.
- 74°F inlet air temperature.
- 54°F inlet air temperature.
- 34°F inlet air temperature.

TOP OUTLET (BIFO)

WALL INVERTED

CEILING

ON END

WALL

For Technical Services, Call 800-642-4328

www.berkomep.com

ITEM# BFLY_CUH900_1217-1

BERKO®

A Marley Engineered Products Brand
### ACCESSORIES

<table>
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<tr>
<th>CATALOG NO.</th>
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<th>FUNCTION</th>
<th>SHIP WT. (LBS)</th>
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<td>CU935RTK</td>
<td>Ceiling or Wall Recess Trim Kit</td>
<td>CU935</td>
<td>Provides a neat finish to semi-recessed or full recessed application.</td>
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<td>CU935BK</td>
<td>Floor/Toe-Space Base Kit</td>
<td>CU935</td>
<td>16 gauge, muted black base is recessed from the heater front and sides to provide an attractive and practical floor mounting application.</td>
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<td>CU935AWL</td>
<td>100% Outside Air, Exterior Aluminum Wall Louver</td>
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<td>Used on exterior of masonry or panel walls of 2-3/4” or greater to provide a finished exterior for heaters 100% outside dampers.</td>
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<td>CU935WF</td>
<td>Permanent, Reusable Washable Filter</td>
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<td>Washable filter can be cleaned and replaced.</td>
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### OPTIONAL FACTORY-INSTALLED ACCESSORIES

#### ACCESSORY

- **2-STAGE THERMOSTAT**
  - Built-or Remote
  - Standard: Built-in (or remote-mounted) single-pole, single-stage thermostat that cycles the element(s) and fan. Fan speed and element wattage selected by the built-in HIGH or LOW selector switch.
  - Optional: Built-in (or remote-mounted) two-stage thermostat that cycles 2/3 of the element for during first stage and full heat during second stage. Fan cycles on high speed only.

- **120V CONTROL Internally Generated**
  - Standard: Control supply is internally generated 24V. Field supplied 24V control supply can be applied to heater. (Requires removing only one jumper wire in the control panel.)
  - Optional: 120V internally generated control voltage is available. Field supplied 120V control supply can be applied to heater. (Requires removing only one jumper wire in the control panel.)

- **MANUAL RESET**
  - Standard: Heater is supplied with auto-reset over temperature cutout.
  - Optional: Manual Reset over temperature cutout wired into control circuit. Supplied in addition to auto-reset cutout.

- **DEAD FRONT DISCONNECT SWITCH**
  - Standard: Supply terminal block in the control compartment.
  - Optional: A three pole non-fused disconnect switch disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position.

- **DEAD FRONT FUSED DISCONNECT SWITCH**
  - Standard: Supply terminal block in the control compartment.
  - Optional: A three pole non-fused disconnect switch and circuit breaker(s) sized to the heater load protects heater and disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position.

- **SUMMER FAN SWITCH**
  - Standard: Fan cycles as the heat cycles on and off.
  - Optional: Built-in switch provides continuous fan operation with or without heat, or automatic fan cycling as the heat cycles on and off.

- **ON/OFF SWITCH**
  - Standard: No switch supplied.
  - Optional: Built-in switch provides continuous fan operation with or without heat, or automatic fan cycling as the heat cycles on and off.

- **KEY LOCK FOR FRONT COVER**
  - Standard: Two (2) slotted head spring latches.
  - Optional: Two (2) toothed key lock style spring latches prevent unauthorized adjustment of controls and provides additional safety from injury due to contact with internal components.

- **NIGHT SET-BACK RELAY 24V or 120V**
  - Standard: Heater will not set back at night.
  - Optional: Ability to set-back heater from energy management system that supplies (Specify - 24V or 120V) to relay holding coil for day operation.

- **MOTORIZED 100% OUTSIDE AIR DAMPER**
  - Standard: Return air only.
  - Optional: 24V electronically controlled damper with rear mounted duct collar permits outside air to enter the chamber at 100%. If power is interrupted at the heater, outside damper remains in the open/closed position from the last switch setting. Damper fully opens in less than 2 minutes when selector switch is in the open damper* position. (Available only with heaters having 24V control supply. Cannot be used with 120V control supply or with bottom inlet configuration).

- **INLET OR DISCHARGE DUCT COLLARS**
  - Standard: Slotted louver grilles.
  - Optional: Collars provide easy connection of field supplied duct work. We do not recommend exceeding 0.2 in. wg external static pressure. Heater with duct collars are supplied with a single speed high static motor.

- **ARCHITECTURAL EXTRUDED ALUMINUM GRILLES**
  - Standard: Architectural styled extruded aluminum grille to enhance the appearance of the cabinet unit heater. This option is only available for both inlet and discharge openings ordered at the same time. Can not be ordered separately.

**NOTE:** † Plus price of circuit breaker  *Need to add summer fan switch and heat on/off switch. Allow 4 to 6 weeks for shipment with these options.
### HOW TO ORDER CABINET HEATERS – CUH900

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SERIES</th>
<th>LENGTH</th>
<th>KW</th>
<th>VOLT</th>
<th>PHASE</th>
<th>INLET AIR CONFIG</th>
<th>DISCHARGE AIR CONFIG</th>
<th>THERMOSTAT</th>
<th>CONTROL SUPPLY</th>
<th>CIRCUIT BREAKER</th>
<th>MANUAL RESET</th>
<th>SUMMER FAN SWITCH</th>
<th>DISCONNECT SWITCH</th>
<th>NIGHT SETBACK RELAY</th>
<th>DUCT COLLARS/GRILLES</th>
<th>FILTER</th>
<th>OUTSIDE AIR DAMPER</th>
<th>FRONT COVER DET LOCK</th>
<th>DUCT COLLARS/GRILLES</th>
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**Cabinet Unit Heater**

**900 Series**

- **35** = 35" Cabinet Length
- **45** = 45" Cabinet Length
- **58** = 58" Cabinet Length
- **68** = 58" Cabinet Length
- **78** = 78" Cabinet Length

See Chart (2 kW = 02, 32 kW = 32)

- **20** = 208 Volt Supply Power
- **24** = 240 Volt Supply Power
- **27** = 277 Volt Supply Power
- **34** = 347 Volt Supply Power
- **38** = 380 Volt Supply Power (3-Phase Only)
- **48** = 480 Volt Supply Power (3-Phase Only)
- **60** = 600 Volt Supply Power (3-Phase Only)

- **1** = Single Phase Supply Power
- **3** = Three Phase Supply Power

- **F** = Front Inlet Air Configuration
- **B** = Bottom Inlet Air Configuration

- **F** = Front Discharge Air Configuration
- **B** = Bottom Discharge Air Configuration

- **A** = Architectural Extruded Aluminum Grille
- **0** = Standard Louver Grilles
- **I** = Inlet Duct Collars/Discharge Louver Grille
- **D** = Inlet Duct Collar/Discharge Duct Collar

- **0** = Standard, No Outside Air Damper (must be 0 for bottom inlet)
- **A** = Motorized 100% Outside Air Damper

- **0** = Standard Lock
- **K** = Key Lock

- **0** = Standard, No Night Setback Relay
- **1** = Night Setback Relay (120 Volt Holding Coil)
- **2** = Night Setback Relay (24 Volt Holding Coil)

- **0** = Standard, No Disconnect Switch
- **S** = Disconnect Switch
- **F** = Fused (Circuit Breaker) Disconnect Switch

- **0** = Standard, No Summer Fan Switch
- **S** = Summer Fan Switch

- **0** = Standard, No Manual Reset
- **M** = Manual Reset

- **0** = No Circuit Breaker(s)
- **C** = Circuit Breaker(s), Required or Optional

- **2** = Standard Internal Generated 24 Volt Control
- **1** = Internal Generated 120 Volt Control

- **1B** = Standard Single Pole, Single Stage Built-In Thermostat
- **1R** = Single Pole, Single Stage Remote (Wall Thermostat)
- **2B** = Two Stage Built-In Thermostat
- **2R** = Two Stage Remote (Wall Thermostat)