# Through Wall Air Conditioner **Optional Accessory**

#### WMCH Introduction

Bebco Model WMCH Wall Mount Convection Heaters are an excellent solution to primary or auxiliary building or room heating needs. They are UL and CSA Listed for Class I & II, Division 1 & 2, Group B, C & D Hazardous (Classified) Locations, to provide 5,500 BTUs (1.6 kW) to 30,700 BTUs (9 kW) heating forces at T2A (280°F) or T3A (365°F) temperature codes. These Units are suitable for stand-alone use, or as an auxiliary device that is assisted by a Bebco air conditioner. For example, as shown on page 2, the fan only mode of Bebco Model TAC Through Wall Air Conditioners can efficiently distribute heated air, if mounted above the Model WMCH.

### **WMCH Construction**

Model WMCH Units are industrial duty heaters that feature powder coated 16 gauge carbon steel or brush finished 304 or 316 grade stainless steel housings, with a copper and aluminum fin tube heating element that can be coated with high temperature silicone for highly corrosive environments.

The units feature a sloped top to discourage and prevent the placement of objects on top of these units, which can restrict airflow and prevent proper operation. They feature a back panel chassis with keyhole mounting slots, and are available with integrated heater controls or a remote mount thermostat.

# **WMCH Specifications**

Housing Case:

Optional Finish & Material:

\* Brushed 316 Stainless Steel Back Panel Chassis: 16 Gauge Machine Formed Powder Coated Carbon Steel Optional Chassis Material:

\* 304 Stainless Steel \* 316 Stainless Steel

16 Gauge, Machine Formed Powder Coated Carbon Steel

\* Brushed 304 Stainless Steel

Heating Coil Material: Heating Element Wire: Element Core Material:

Copper Tube w/ Aluminum Fins High Resistance Copper Wire Magnesium Oxide \* Heresite® HT-106 Silicone Optional Coil Coating: Malleable Iron or Aluminum

Optional Junction Box: T3A Rated Heaters:

5,500 (1.6 kW) BTU, 11,000 (3.2 kW)

BTU & 13,600 (4.0 kW) BTU T2A Rated Heaters:

6,156 (1.8 kW) BTU, 12,900 (3.6 kW) BTU, 24,000 (7.6 kW) BTU

& 30,700 (9.0 kW) BTU

Power Ratings: 208, 240 or 480 VAC 1 or 3 Phase, 50/60 Hz

Common Overall Depth: 9 Inches Common Overall Height: 20 Inches 1.6, 1.8 & 3.6 kW Widths: \*\* 34 Inches \*\* 58 Inches 3.2 & 7.6 kW Widths 4.0, 4.5 & 9.0 kW Widths: \*\* 70 Inches

Mounting Provisions: Multi-Point Wall Surface Mount Certifications: UL & CSA Listed for US & Canada

Heresite is a registered trademark of Heresite Protective Coatings, LLC

Not covered by certifications - see rear cover for more information

\*\* Dimensions exclude Optional Conduit Tee



**Model WMCH Wall Mount Convection Heaters** 

Class I, Division 2, Groups B, C & D **Radiant Heating Units** 

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# **Model WMCH** 12,900 BTU Wall Mount Convection Heaters

(shown with and without Integrated Heater Control Unit)





UL and CSA Listed for Class I or II, Group B, C & D Division 1 & 2 Hazardous (Classified) Locations

Available with Integrated Heater Control Unit featuring Internal, External or Remote Thermostat!



**Model IHC Integrated Heater Control Unit** 

(shown w/ internal thermostat)



**Model CHT Convection Heater Thermostat** 

(for external or remote mounting)

# **Model IHC Integrate Heater Control Unit**

Model IHC features an explosion proof enclosure and optional control devices that is mounted to the heater and pre-wired to the heating elements. The Unit provides all required contactors, transformers and optional temperature control devices to reduce field installation costs.

This unit may be provided with an external, internal or remotely mounted thermostat, or may be excluded if clients prefer to provide or integrate special power and temperature control devices with other climate control equipment at time of installation.

The external or internal thermostats are pre-wired to the heater controls, and are ideal for small spaces, where air circulation is either not highly critical or is provided by another device, such as a Bebco Through Wall Air Conditioner or Heat Pump.

The remote thermostat is shipped loose for field installation and wiring to the control unit, and is ideal for larger spaces when it is preferred to place the thermostat in another location where it can better sense and regulate room temperature evenly.

## **Specifications**

Housing Material: Cast Aluminum

Optional Internal Thermostat:

Temperature Adjustment: Calibrated Dial w/ Temp Scale
Temperature Range: 40°F to 90°F
Temperature Sensor: Hydraulic Action Thermal Element

Switching Action Differential: 3°

Optional External or Remote Thermostat: See Model CHT Specs below

Optional Control Transformer:

Available Control Voltages: 24, 120, 208, or 240 VAC

Contactor Rating: Sized to Match Heater kW Rating

Certifications: UL & CSA Listed for Class I, Division 1 & 2 Areas

Group Ratings: w/ Internal Thermostat: Groups B, C & D

w/ External Thermostat: Groups C & D

w/ Remote Thermostat: Groups C & D

#### Model CHT Convection Heater Thermostat

Model CHT is a snap-action thermostat intended for comfort and space heating applications in Hazardous (Classified) Locations. It ships loose for field installation and wiring when the IHC Unit with Remote Thermostat Control Option is selected, or it will be pre-wired and mounted to the Model IHC Unit enclosure if the IHC Unit with External Thermostat Control Option is selected.

The Model RMT hydraulic action sensor is impervious to vibration, and level mounting is also therefore not critical to proper operation. Contact a Bebco Sales Associate for more information or to gain their insights as to which options may be best for your particular application.

### **Specifications**

Housing Material: Malleable Iron

Temperature Adjustment: Calibrated Dial w/ Temp Scale
Temperature Range: 50°F to 90°F

Temperature Sensor: Hydraulic Action Thermal Element Switching Action Differential: 3°F

Switch Type: SPST Line Voltage Positive Snap Action Contact Ratings: 25 Amps (3000 Watts) @ 120 VAC

22 Amps (3000 Watts) @ 208-240 VAC 125 Volt/Amps @ 480 VAC

Dimensions: 5" Wide x 9" Tall x 6" Deep

Conduit Connection: 1/2" Female Pipe Thread

Certifications: UL & CSA Listed for Class I, Division 1 & 2, Groups C & D

## **Model Number Designations**

## Typical Model Number: <u>EC - WMCH - 1 - H -</u>

### Case Style

**EC** - Powder Coated Carbon Steel

ES - Brushed 304 Grade Stainless Steel \*

**EX** - Brushed 304 Grade Stainless Steel \*

#### Series Model Number -

WMCH - Wall Mount Convection Heater

#### **Heater Ratings**

5,500 BTU, 1.6 kW, T3A

**2** - 11,000 BTU, 3.2 kW, T3A

**3** - 13,600 BTU, 4.0 kW, T3A

4 - 6,156 BTU, 1.8 kW, T2A

5 - 12,900 BTU, 3.6 kW, T2A

6 - 24,000 BTU, 7.6 kW, T2A

- 30,700 BTU, 9.0 kW, T2A

#### Operating Voltage & Phase

H - 208 VAC 1Ø 60 Hz

208 VAC 3Ø 60 Hz

N - 240 VAC 1Ø 60 Hz

O - 240 VAC 3Ø 60 HzM - 480 VAC 1Ø 60 Hz

L - 480 VAC 3Ø 60 Hz

#### **Heating Element Coating**

Heresite HT-106 Silicone \*

C - Custom (as specified by Client) \*

X - Excluded

#### **Control Options**

IHC Unit with Remote Thermostat (Model CHT shipped loose)
 Rated Class I, Division 1, Groups C & D

E - IHC Unit with External Thermostat (Model CHT mounted to IHC)
Rated Class I, Division 1, Groups C & D

- IHC Unit with Internal Thermostat

Rated Class I, Division 1, Groups B, C & D

C - Custom Controls

Custom controls as specified by Client

X - Heater Unit only w/ No IHC Unit or Thermostat
Requires thermostat and contactor provided by others

Please contact us regarding additional heater ratings and voltages

\* These options are not recognized by UL or CSA and void third party certification of the heater. Labels are therefore removed from the heater housing upon selection of these options. HOWEVER, the integrated heater control unit and convection heater thermostat bear separate UL and CSA certification markings that are not affected by selection of these options. Please consult your authority having jurisdiction (AHJ) or contact a Bebco Sales Associate for more information regarding these options.

## Typical Installation Example

