

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

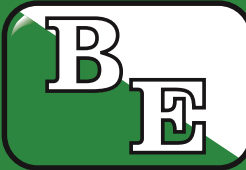
Model WMCH Units are industrial duty heaters that feature powder coated 16 gauge carbon steel or brush finished 304 or 316 grade stainless steel housings, with a copper and aluminum fin tube heating element that can be coated with high temperature silicone for highly corrosive environments.

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:	16 Gauge, Machine Formed
Optional Finish & Material:	Powder Coated Carbon Steel * Brushed 304 Stainless Steel * Brushed 316 Stainless Steel
Back Panel Chassis:	16 Gauge Machine Formed
Optional Chassis Material:	Powder Coated Carbon Steel * 304 Stainless Steel * 316 Stainless Steel
Heating Coil Material:	Copper Tube w/ Aluminum Fins
Heating Element Wire:	High Resistance Copper Wire
Element Core Material:	Magnesium Oxide
Optional Coil Coating:	* Heresite® HT-106 Silicone
Optional Junction Box:	Malleable Iron or Aluminum
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
3.2 & 7.6 kW Widths:	** 58 Inches
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

Technical Bulletin WMCH TB-R0 © 07.06.2019



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)



Bebco Environmental

Hazardous & Industrial Climate Control Solutions

4725 Lawndale • La Marque, Texas 77568

Phone: 1.844.EXP.HVAC • 1.844.397.4822
www.exphvac.com • sales@exphvac.com

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 Bebcos 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°F
Optional External or Remote Thermostat:	See Model CHT Specs below
Optional Control Transformer:	
Available Control Voltages:	24, 120, 208, or 240 VAC
Contactors 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 Bebcos 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:

EC - WMCH - 1 - H - H - R

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

- 1 - 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
- 7 - 30,700 BTU, 9.0 kW, T2A

Operating Voltage & Phase

- H - 208 VAC 1Ø 60 Hz
- J - 208 VAC 3Ø 60 Hz
- N - 240 VAC 1Ø 60 Hz
- O - 240 VAC 3Ø 60 Hz
- M - 480 VAC 1Ø 60 Hz
- L - 480 VAC 3Ø 60 Hz

Heating Element Coating

- H - Heresite HT-106 Silicone *
- C - Custom (as specified by Client) *
- X - Excluded

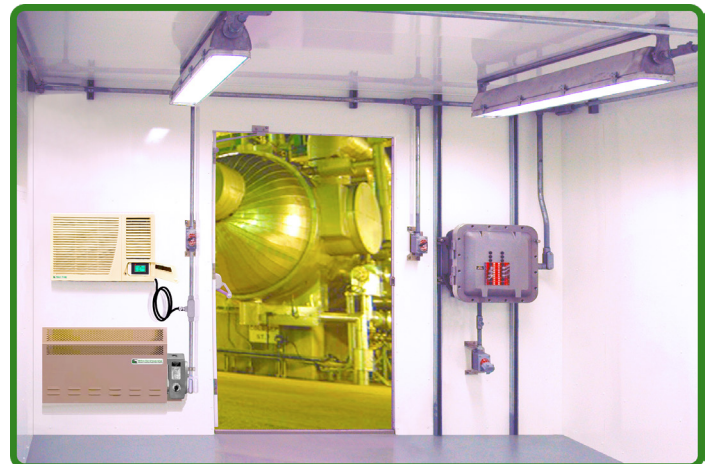
Control Options

- R - 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
- I - 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 Bebcos Sales Associate for more information regarding these options.

Typical Installation Example



IMPORTANT NOTES: All specifications subject to change without notice. Warranty & Liability policies available upon request.