



**SUBMITTAL SHEET  
THERMAZONE SERIES  
INDUSTRIAL/COMMERCIAL/  
RESIDENTIAL INFRARED HEATER**

**CAPACITIES**

871W to 6478W, 120-600V, 1Ø or 3Ø  
**Element Type:** Flat Panel Emitter  
**Reflection Angles:** 60° Symmetrical  
**Mounting Types:** Brackets included for ceiling mount and wall mount. Can also be hung by chain or threaded rod.

See Selection Chart for all Options

JOB NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

TAG/ITEM	QTY.	CATALOG NUMBER	HEATER			AMPS	REFLECTION ANGLE	FINISH	MOUNTING
			KW	VOLTS	Ø				

ACCESSORIES AND CONTROLS	TAG/ITEM	QTY.	CATALOG NUMBER	DESCRIPTION

SUBMITTED BY:	DATE

APPROVED BY:	DATE

**THERMAZONE SERIES - INDUSTRIAL/COMMERCIAL/RESIDENTIAL INFRARED HEATER**

THERMAZONE SERIES

# ARCHITECT'S AND ENGINEER'S SPECIFICATIONS\*

The Thermazone electric infrared heater(s) shall be supplied Berko® a Marley Engineered Products® Brand, Bennettsville, SC, USA, and shall be of the kW rating, voltage and phase specified in the schedule. They shall be radiant type, and certified to cULus listed under standard 2021.

**CONSTRUCTION:** The heaters are formed and riveted together out of 16 ga. and 20 ga. CRS or stainless steel. If CRS, the heater must be stainless steel or powder coated with a high temp black finish.

**HEATING ASSEMBLY:** The heating assembly shall be UL listed under standard 2021 and shall consist of single stranded, non-coiled Ni-Chrome wire embedded in vitrified ceramic fiber and backed with high density, low biopersistent Fiberfrax insulation. The emitting surface is covered with a black-coated high temperature fiberglass cloth.

**WIRING:** For connection to the power supply, Thermazone heaters will be prewired with leads housed in a 24 inch flexible metal conduit and connector for j-box mounting.

**MOUNTING:** The heater shall be provided with a mounting kit designed to bear the weight of the heater assembly. The construction and design shall permit it to be ceiling or wall mounted, with the use of the mounting brackets supplied, hung by chain or suspended with threaded rod.

**PERFORMANCE:** All units are engineered to operate at optimal performance with a 60 degree dissipation pattern. Each unit is designed to operate with longwave infrared technology, for the most efficient delivery of heat for the desired space.

**OPTIONAL CONTROLS:** All infrared units are designed for compatibility to a variety of controls offered by Berko. Depending upon the voltage, wattage, and zoning requirements of the job, these controls may include one or a combination of the following: thermostat, timer, % timer, contactor panels, SSR panel, SCR panel, and/or Z-Wave mobile application based systems.

*\*Berko reserves the right to change specifications without prior notice.*

How to Order

Example:

BR	-	STS	-	U	48	-	5954	P	-	SS	-	G
Brand: BR = Berko												
Model: STS = Thermazone Standard												
Heater Listing: U = cULus												
Size: 12 = 12" x 12," 24 = 12" x 24," 48 = 12" x 48"												
Wattage: <i>Shows wattage of specific heater model</i>												
Voltage Code: B = 120/1, V = 208-240/1, N = 277/1, I = 347/1, T = 480/1, P = 240/3, U = 480/3, Z = 600/3												
Finish: B = Powder Coated Black, SS = Stainless Steel												
Optional Grid: G = Stainless Steel Grid												

Models & Specifications:

ITEM INFORMATION		ELECTRICAL DATA			
CATALOG NO.	MODEL	WATTS	PHASE	VOLTS	AMPS
BR-STS-U12-0871B	1X	871	1	120	7.3
BR-STS-U12-1081B	1X	1081	1	120	9.0
BR-STS-U12-1111B	1X	1111	1	120	9.3
BR-STS-U12-1681B	1X	1681	1	120	14.0
BR-STS-U12-1436V	1X	1077	1	208	5.2
		1436		240	6.0
BR-STS-U24-1015V	2X	762	1	208	3.7
		1015		240	4.2
BR-STS-U24-1316B	2X	1316	1	120	11.0
BR-STS-U24-1297V	2X	974	1	208	4.7
		1297		240	5.4
BR-STS-U24-1659B	2X	1659	1	120	13.8
BR-STS-U24-1701V	2X	1276	1	208	6.1
		1701		240	7.1
BR-STS-U24-2192B	2X	2192	1	120	18.3
BR-STS-U24-2001V	2X	1501	1	208	7.2
		2001		240	8.3
BR-STS-U24-1982N	2X	1982	1	277	7.2
BR-STS-U24-2060I	2X	2060	1	347	6.0
BR-STS-U24-2222B	2X	2222	1	120	18.5
BR-STS-U24-2428V	2X	1821	1	208	8.8
		2428		240	10.1
BR-STS-U24-2388N	2X	2388	1	277	8.6
BR-STS-U24-2488I	2X	2488	1	347	7.2
BR-STS-U24-3363B	2X	3363	1	120	28.0
BR-STS-U24-3239V	2X	2429	1	208	11.7
		3239		240	13.5
BR-STS-U24-3008N	2X	3008	1	277	10.9
BR-STS-U24-3176I	2X	3176	1	347	9.2
BR-STS-U24-1992P	2X	1496	3	208	4.2
		1992		240	4.8
BR-STS-U24-2442P	2X	1834	3	208	5.1
		2442		240	5.9
BR-STS-U24-3041P	2X	2284	3	208	6.4
		3041		240	5.9
BR-STS-U48-2030V	4X	1523	1	208	7.3
		2030		240	8.5
BR-STS-U48-2014I	4X	2014	1	347	5.8
BR-STS-U48-2030T	4X	2030	1	480	4.2
BR-STS-U48-2594V	4X	1946	1	208	9.4
		2594		240	10.8
BR-STS-U48-2502I	4X	2502	1	347	7.2
BR-STS-U48-2594T	4X	2594	1	480	5.4
BR-STS-U48-3402V	4X	2552	1	208	12.3
		3402		240	14.2
BR-STS-U48-3206I	4X	3206	1	347	9.2
BR-STS-U48-3402T	4X	3402	1	480	7.1
BR-STS-U48-4002V	4X	3002	1	208	14.5
		4002		240	16.7
BR-STS-U48-3964N	4X	3964	1	277	14.3
BR-STS-U48-4120I	4X	4120	1	347	11.9
BR-STS-U48-4002T	4X	4002	1	480	8.3
BR-STS-U48-4042Y	4X	4042	1	600V	6.7

Models & Specifications (continued):

ITEM INFORMATION		ELECTRICAL DATA			
CATALOG NO.	MODEL	WATTS	PHASE	VOLTS	AMPS
BR-STS-U48-4856V	4X	3642	1	208	17.5
		4856		240	20.2
BR-STS-U48-4776N	4X	4776	1	277	17.2
BR-STS-U48-4976I	4X	4976	1	347	14.4
BR-STS-U48-4856T	4X	4856	1	480	10.1
BR-STS-U48-4878Y	4X	4878	1	600	8.1
BR-STS-U48-6478V	4X	4859	1	208	23.4
		6478		240	27.0
BR-STS-U48-6056N	4X	6056	1	277	21.7
BR-STS-U48-6352I	4X	6352	1	347	18.3
BR-STS-U48-6478T	4X	6478	1	480	13.5
BR-STS-U48-6118Y	4X	6118	1	600	10.2
BR-STS-U48-3971P	4X	2983	3	208	8.3
		3971		240	9.6
BR-STS-U48-3928U	4X	3928	3	480	4.7
BR-STS-U48-3963Z	4X	3963	3	600	3.8
BR-STS-U48-4794P	4X	3601	3	208	10.0
		4794		240	11.5
BR-STS-U48-4838U	4X	4838	3	480	5.8
BR-STS-U48-4797Z	4X	4797	3	600	4.6
BR-STS-U48-5954P	4X	4472	3	208	12.4
		5954		240	14.3
BR-STS-U48-6060U	4X	6060	3	480	7.3
BR-STS-U48-5982Z	4X	5982	3	600	5.8

Optional Accessories:

CATALOG NO.	DESCRIPTION	COMPATIBLE WITH
03-104	12" x 24" SS Grid	All 12" x 24" Heaters
		All 1P 12" x 48" Heaters*
03-105	12" x 12" SS Grid	All 12" x 12" Heaters
03-106	12" x 16" SS Grid	All 3P 12" x 48" Heaters**

\* Requires quantity of 2. \*\* Requires quantity of 3.

Optional Local Controls:

CATALOG NO.	DESCRIPTION	SUPPLY VOLTAGE	PHASE	AMP RATING	SUITABLE WITH		
					CONTACTOR PANEL	STAND ALONE	SSR PANEL
TZ-REM-PT	Fixed Cycle Controller w/ Adjustable Output	120/24	1	NA	—	—	Yes
TZ-PCT	Adjustable Cycle Controller w/ Adjustable Output	120/240	1	28	Yes	Yes	Yes
TZ-TIMER	0-60 Min Heavy Duty In-Wall On/Off Timer	120/240	1	28	Yes	Yes	Yes
TZ-TIMER2HR	0-120 Min Heavy Duty In-Wall On/Off Timer	120/240	1	20	Yes	Yes	Yes
TZ-HUB	App Based Z-Wave Wireless Connection Hub	120	1	NA	Yes	Yes	Yes
TZ-SWITCH	App Based Z-Wave Wireless Junction Box	120/240	1	40	Yes	Yes	Yes
TZ-REMOTE	Z-Wave Compatible Wireless Switch/Wall Remote	Battery	—	NA	—	—	—

Optional controls suitable for isolated control of your heater(s), or to be paired with Berko's line of control panels to operate banks of heaters together. Options range from adjustable output cycle timers with fixed and adjustable cycle times, to standard on/off timer control, and introducing market leading Z-Wave app based control for easy operation from your phone.

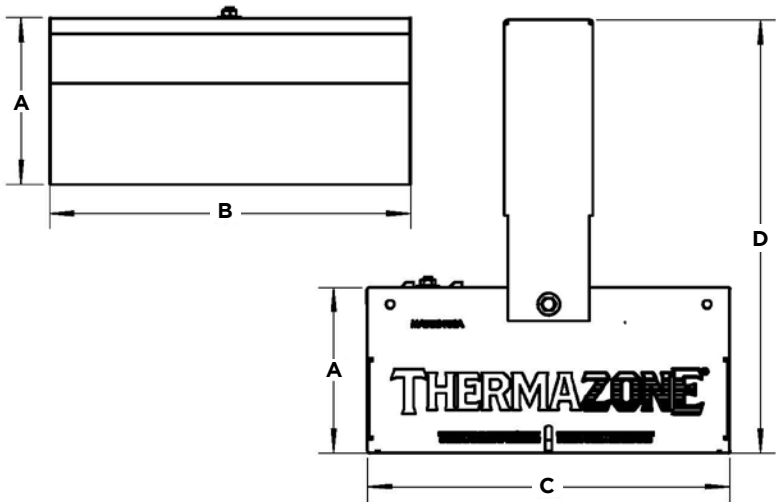
**Dimensions:**

Model	A	B	C	D*
1X	5 ½"	12"	12"	14 ½"
2X	5 ½"	24"	12"	14 ½"
4X	5 ½"	48"	12"	14 ½"

\*If using attached bracket

**Clearances:**

	Between Heaters	To Side Walls	To Ceiling
Wall Mounted	36"	4"	4"
Ceiling Mounted Vertical	36"	36"	4"
Ceiling Mounted Angled Away	36"	4"	4"
Ceiling Mounted Angled Toward	36"	72"	4"



**Wall Mounting**

Do not install the section closer than

- 4 inches to a horizontal surface
- 12 inches to an adjacent vertical surface
- 36 inches to another heater
- 6 feet from the floor

For angle positioning, the heater should not be directed toward any vertical surface closer than 6 feet.

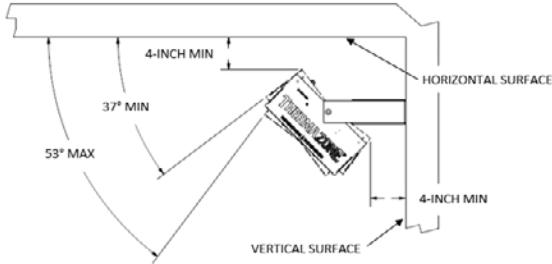
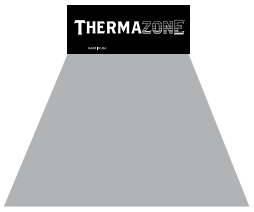


Fig. 1a – WALL MOUNTING

**Reflection Angle:**



60° Symmetrical

**Ceiling Mounting**

Do not install the section closer than

- 36 inches to a vertical surface for vertical mounting
- 4 inches to a vertical surface for angled ceiling mounting
- 12 inches to an adjacent vertical surface
- 36 inches to another heater
- 6 feet from the floor

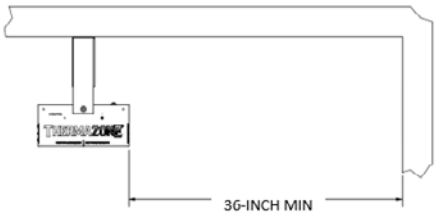


Fig. 2 – CEILING MOUNTING VERTICAL

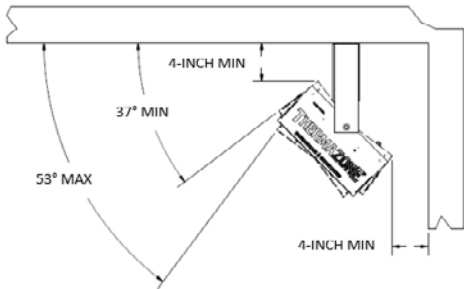


Fig. 3 – CEILING MOUNTING ANGLED AWAY FROM VERTICAL SURFACE

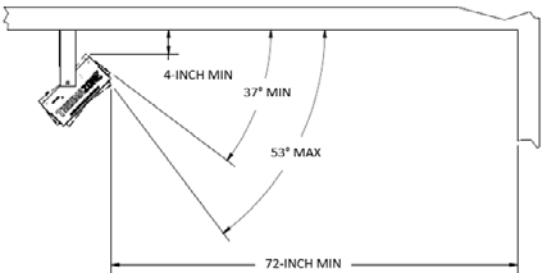


Fig. 4 – CEILING MOUNTING ANGLED TOWARDS VERTICAL SURFACE

Reference product instruction manual for additional information on proper mounting, wiring, and installation.

No matter the industry or application, Marley Engineered Products has a robust portfolio of innovative, reliable, high-performance comfort heating and ventilation solutions for all your heating needs.

For more information or assistance on your next project, contact Technical Services at 800-642-4328

Scan the QR code to access additional specs and features



Approvals: \_\_\_\_\_