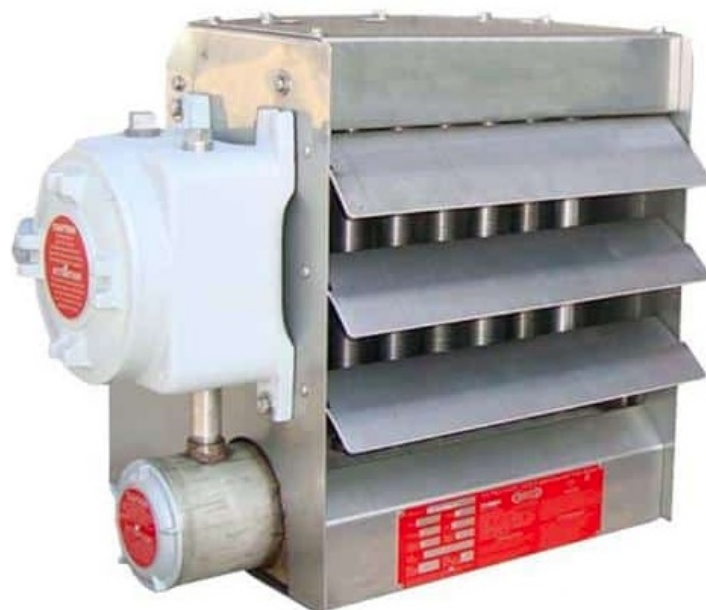


Contents [[hide](#)]

- [1 BerkoMEP RUX Series Explosion-Proof Unit Heater](#)
- [2 ARCHITECT'S AND ENGINEER'S SPECIFICATIONS](#)
- [3 RUX SERIES](#)
- [4 50 Hz Models & Specifications](#)
- [5 Factory Built-in Options](#)
- [6 Dimensions and Clearances](#)
- [7 How to Order](#)
- [8 FAQs](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)



BerkoMEP RUX Series Explosion-Proof Unit Heater



CAPACITIES

- 2.5–35 kW | 208–600V | 1Ø or 3Ø
- Thermostat Range: 50°–90° F
- Air Volume: 550–3850 CFM
- Air Throw Range: 13–75 feet
- Class 1, Divisions 1 & 2, Groups C & D
- Class II, Divisions 1 & 2, Groups F & G
- Class 1, Zones 1 & 2, Groups IIB
- Ignition Temperature Code T3C, 320° F
 - JOB NAME:
 - LOCATION:
 - ARCHITECT:
 - ENGINEER:
 - CONTRACTOR:
 - SUBMITTED BY:
 - DATE

RUX SERIES – EXPLOSION-PROOF UNIT HEATER

[illegible]

ACCESSORIES AND CONTROLS	TAG/ITEM	QTY	CATALOG NUMBER	DESCRIPTION

SUBMITTED BY:	DATE

APPROVED BY:	DATE

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ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

Electric explosion proof unit heater(s) shall be supplied by 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 fan-forced type, certified to cCSAus, and approved for Class I, Divisions 1 and 2, Group C and D; Class II, Divisions 1 and 2, Groups E, F, and G; Class I, Zones 1 and 2, Group IIB; Temperature Code T3C, 320°F (160°C).

- **SAFETY:** Unit heaters shall be outfitted with dual overtemperature protection—both a manual and automatic reset thermal cutout.
- **HEAT EXCHANGER:** Efficient liquid-to-air design utilizes all-welded steel headers and finned tube construction with spiral wound aluminum fins. Industrial-grade heating elements are immersed in a nontoxic, inhibited, propylene glycol heat transfer fluid that provides freeze protection down to -49°F (-45°C). The heat exchanger is hydrostatically tested at 350 psig. A pressure relief valve provides excess pressure protection and is set at 70 psig.
- **ENCLOSURE:** Heat exchanger and components to be enclosed in an industrial-grade, corrosion-resistant cabinet fabricated from polyester powder-coated, 14-gauge steel. Adjustable outlet louvers to have minimum opening safety stops.
- **FAN MOTOR ASSEMBLY:** Unit heaters consist of an explosion-proof motor (60Hz standard, 50hz optional) fitted with an aluminum fan blade. The motor has double shielded, permanently lubricated ball bearings and automatic reset line breaking thermal overload protection. Motors furnished on standard units operate at line voltage and are prewired to the control enclosure so separate field wiring to the motor is not required. The standard motor is rated for Class I, Groups C and D, Class II, Groups F and G. The minimum operating temperature is -14°F (-25°C) and the minimum storage temperature is -49°F (-45°C). Optional motor ratings available.
- **MOUNTING:** The heater shall be provided with an accessory mounting kit designed to bear the weight of heater assembly. Options include a ceiling mounting kit, wall mounting kit, or a pole mounting kit.
- **OPTIONAL BUILT-IN CONTROLS:** Units come standard with a controlling magnetic

contactor and 24 Volt control circuit transformer housed in a NEMA 7, 9 cast aluminum enclosure. The following factory installed and prewired control options are available: adjustable built-in thermostat, disconnect switch with external handle, fan-only switch, 120 Volt control circuit for special external thermostat circuit, “warning” pilot light (to indicate abnormal operation), “Heater On” pilot light

- Berko reserves the right to change specifications without prior notice.

RUX SERIES

60 Hz Models & Specifications

ITEM INFORMATION CATALOG NO.	V O L T S	ELECTRICAL DATA		K W	H P	MOTOR		R I S E* *	AIR FLOW		F R A M E S I Z E	S H I P W T.	
		PHASE	TOTAL AMP S*			RPM	FAN BLADE DIA METER		CFM	THROW			
RUX-233-FA-0036C	208	1	17			1/4	1725	12"	15°F	650	15"	1	130 lbs
RUX-233-FA-0036J	240	1	15			1/4	1725	12"	15°F	650	15"	1	130 lbs
RUX-233-FA-0036D	208	3	10			1/4	1725	12"	15°F	650	15"	1	130 lbs

RUX-233-FA-0036K	24 0	3	9	3. 0	1/ 4	17 25	12"	15 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0036U	48 0	3	5		1/ 4	17 25	12"	15 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0036Z	60 0	3	4		1/ 4	17 25	12"	15 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056C	20 8	1	26	5. 0	1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056J	24 0	1	23		1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056D	20 8	3	16		1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056K	24 0	3	14		1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056U	48 0	3	7		1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs
RUX-233-FA-0056Z	60 0	3	6		1/ 4	17 25	12"	25 °F	6 5 0	15"	1	130 lbs

RUX-233-FA-0086C	20 8	1	38	7. 5	1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0086J	24 0	1	34		1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0086D	20 8	3	23		1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0086K	24 0	3	20		1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0086U	48 0	3	10		1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0086Z	60 0	3	9		1/ 4	17 25	12"	28 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0106J	24 0	1	44	1	1/ 4	17 25	12"	38 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0106D	20 8	3	30		1/ 4	17 25	12"	38 °F	8 5 0	25"	1	130 lbs
RUX-233-FA-0106K	24 0	3	26		1/ 4	17 25	12"	38 °F	8 5 0	25"	1	130 lbs

RUX-233-FA-0106U	480	3	13	0	1/4	1725	12"	38°F	850	25"	1	130 lbs
RUX-233-FA-0106Z	600	3	11		1/4	1725	12"	38°F	850	25"	1	130 lbs
RUX-233-FB-0156D	208	3	44	15	1/4	1725	16"	27°F	1800	45"	2	169 lbs
RUX-233-FB-0156K	240	3	38		1/4	1725	16"	27°F	1800	45"	2	169 lbs
RUX-233-FB-0156U	480	3	19		1/4	1725	16"	27°F	1800	45"	2	169 lbs
RUX-233-FB-0156Z	600	3	16		1/4	1725	16"	27°F	1800	45"	2	169 lbs
RUX-233-FB-0206U	480	3	25	20	1/4	1725	16"	35°F	1800	45"	2	169 lbs

RUX-233-FB-0206Z	60 0	3	21		1/ 4	17 25	16"	35 °F	1 8 0 0	45"	2	169 lbs
RUX-233-FC-0256U	48 0	3	31	2 5	1/ 2	17 25	20"	26 °F	3 1 1 0	65"	3	216 lbs
RUX-233-FC-0256Z	60 0	3	25		1/ 2	17 25	20"	26 °F	3 1 1 0	65"	3	216 lbs
RUX-233-FC-0306U	48 0	3	37	3 0	1/ 2	17 25	20"	25 °F	3 8 5 0	75"	3	216 lbs
RUX-233-FC-0306Z	60 0	3	30		1/ 2	17 25	20"	25 °F	3 8 5 0	75"	3	216 lbs
RUX-233-FC-0356U	48 0	3	43	3 5	1/ 2	17 25	20"	29 °F	3 8 5 0	75"	3	216 lbs
RUX-233-FC-0356Z	60 0	3	35		1/ 2	17 25	20"	29 °F	3 8 5 0	75"	3	216 lbs

50 Hz Models & Specifications

ITEM INFORMATION	VOLTAGE	ELECTRICAL DATA		KWH	HP	MOTOR		RISSE*	AIR FLOW		FRAME SIZE	SHIP WT.
		PHASE	TOTAL AMP S*			RPM	FAN BLADE DIA		CFM	THROW		
CATALOG NO.												

RUX-233-FA-0036E	220	1	14	2.5	1/4	1438	12"	14°F	550	13"	1	130 lbs
RUX-233-FA-0036F	220	3	9		1/4	1438	12"	14°F	550	13"	1	130 lbs
RUX-233-FA-0036G	380	3	6		1/4	1438	12"	14°F	550	13"	1	130 lbs
RUX-233-FA-0036H	400	3	6		1/4	1438	12"	14°F	550	13"	1	130 lbs
RUX-233-FA-0036I	415	3	5		1/4	1438	12"	14°F	550	13"	1	130 lbs

RUX-233-FA-0056E	22 0	1	21	4. 2	1/ 4	14 38	12"	24 °F	5 5 0	13"	1	130 lbs
RUX-233-FA-0056F	22 0	3	13		1/ 4	14 38	12"	24 °F	5 5 0	13"	1	130 lbs
RUX-233-FA-0056G	38 0	3	9		1/ 4	14 38	12"	24 °F	5 5 0	13"	1	130 lbs
RUX-233-FA-0056H	40 0	3	8		1/ 4	14 38	12"	24 °F	5 5 0	13"	1	130 lbs
RUX-233-FA-0056I	41 5	3	7		1/ 4	14 38	12"	24 °F	5 5 0	13"	1	130 lbs
RUX-233-FA-0076E	22 0	1	31	6. 3	1/ 4	14 38	12"	28 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0076F	22 0	3	19		1/ 4	14 38	12"	28 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0076G	38 0	3	12		1/ 4	14 38	12"	28 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0076H	40 0	3	11		1/ 4	14 38	12"	28 °F	7 0 0	22"	1	130 lbs

RUX-233-FA-0076I	41 5	3	10		1/ 4	14 38	12"	28 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0096E	22 0	1	40	8. 4	1/ 4	14 38	12"	38 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0096F	22 0	3	24		1/ 4	14 38	12"	38 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0096G	38 0	3	15		1/ 4	14 38	12"	38 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0096H	40 0	3	13		1/ 4	14 38	12"	38 °F	7 0 0	22"	1	130 lbs
RUX-233-FA-0096I	41 5	3	13		1/ 4	14 38	12"	38 °F	7 0 0	22"	1	130 lbs
RUX-233-FB-0136F	22 0	3	35	1 2.	1/ 4	14 38	16"	26 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0136G	38 0	3	21		1/ 4	14 38	16"	26 °F	1 5 0 0	39"	2	169 lbs

RUX-233-FB-0136H	40 0	3	19	5	1/ 4	14 38	16"	26 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0136I	41 5	3	18		1/ 4	14 38	16"	26 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0176F	22 0	3	46	1 6. 7	1/ 4	14 38	16"	35 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0176G	38 0	3	28		1/ 4	14 38	16"	35 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0176H	40 0	3	25		1/ 4	14 38	16"	35 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FB-0176I	41 5	3	24		1/ 4	14 38	16"	35 °F	1 5 0 0	39"	2	169 lbs
RUX-233-FC-0216G	38 0	3	33		1/ 2	14 38	20"	26 °F	2 6 0 0	57"	3	216 lbs

RUX-233-FC-0216H	40 0	3	32	2 1	1/ 2	14 38	20"	26 °F	2 6 0 0	57"	3	216 lbs
RUX-233-FC-0216I	41 5	3	31		1/ 2	14 38	20"	26 °F	2 6 0 0	57"	3	216 lbs
RUX-233-FC-0256G	38 0	3	39	2 5	1/ 2	14 38	20"	30 °F	2 6 0 0	57"	3	216 lbs
RUX-233-FC-0256H	40 0	3	37		1/ 2	14 38	20"	30 °F	2 6 0 0	57"	3	216 lbs
RUX-233-FC-0256I	41 5	3	36		1/ 2	14 38	20"	30 °F	2 6 0 0	57"	3	216 lbs

Factory Built-in Options

CATAL OG NO.	OPTION N	DESCRIPTION
D	Disconnect Switch	Factory installed on the unit heater above the control enclosure. This is an inexpensive and positive way to meet NEC/CEC requirements for a disconnecting means within sight of the heater.

E	Group E (Metal Dust) Construction	Class II, Group E (Metal Dust) Construction Temperature Code T3C, 320° F (160°C).
K	“Warning” Pilot Light	Indicates when the thermal cutouts have tripped and the unit heater needs servicing. <i>Not available with combination V & L.</i>
L	“Heater On” Pilot Light	Indicates when the electric heating elements are energized. <i>Not available with combination V & K</i>
M	Manual Reset Thermal Cutout with Backup Contactor	A pilot duty manual reset thermal cutout with a backup contactor is provided for independent secondary overtemperature protection. <i>Cannot be installed with S, S1 or V.</i>
S	Auto/Fan Selector Switch	A two-position switch wired to the control circuit for auto (automatic heat) and fan only control. <i>Cannot be installed with M, V or S1.</i>
S1	Built-In Controls for Remote Auto/Fan Selector Switch	Unit is prewired for field addition of remote auto/fan selector switch. <i>Cannot be installed with M, V or S.</i>
T	Adjustable Thermostat	Factory installed and prewired to the control enclosure. Thermostat is adjustable from 50° to 90° F (10° to 32°C).
T1	Adjustable Thermostat for Wet Locations	Factory installed and prewired to the control enclosure. Thermostat is adjustable from 40° to 80° F (5° to 25°C). Can be specified for all constructions.

V	120 Volt Control Circuit	Can be provided when required for special external thermostat circuit. <i>Cannot be installed with S, S1, M or the combination of both K & L together.</i>
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Note: Both pilot lights (K & L) are not available with 120V option (V). Only one pilot light can be ordered with 120V control heaters.

Standard Mounting Kits

CATALOG NO.	DESCRIPTION
1022451	Ceiling Mounting Kit
1022454	Wall Mounting Kit
1022457	Pole Mounting Kit

Note: One kit required per heater. Work with all frame sizes

Accessory Remote Thermostats

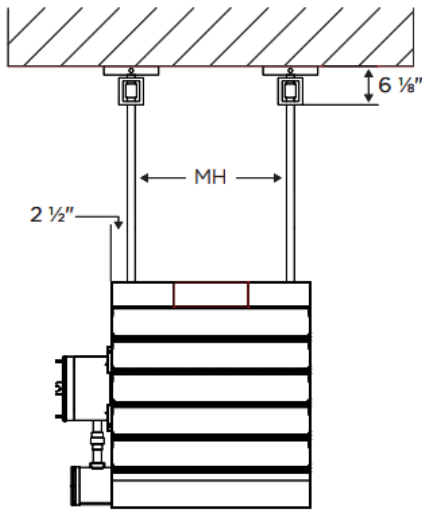
CATALOG NO.	SWITCH TYPE	TYPE	RATING	TEMP RANGE	DESCRIPTION
1007002	Bimetal	SPDT	125–277V, 2A	50°–90°F (10°–32°C)	Class 1, Div. 1, Groups C & D. Class II, Div. 1, Groups E, F, & G

BX-10247 54	Bulb and Capillary with	S P D T	120–2 40V, 2 5A 277V, 22A	40°–1 20°F (5°–49 °C)	Class 1, Div. 1, Groups B, C & D. Class II, Div. 1, Groups E, F, & G
BX-10253 96	Internal Set Point Adjustment	S P S T	120–2 40V, 2 5A 277V, 22A	40°–1 20°F (5°–49 °C)	Corrosion-Resistant Class 1, Div. 1, Groups B, C, & D. Class II, Div. 1, Groups E, F & G
1036506	Bimetal	S P D T	480V, 15A	40°–8 0°F (5°–2 5°C)	Class I, Div. 1, Groups C & D. Class II, Div. 1, Groups E, F, & G. Class III. IP66, Type 4

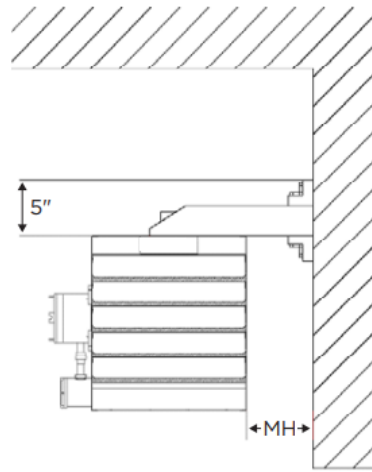
Remote Fan Switch

CATALOG NO.	SWITCH TYPE	RATING	HUBS	DESCRIPTION
1001744	2-Position	120/277V, 30A	(2) 3/4" NPT Hubs	Class I, Div. 1, Groups C & D. Class II, Div. 1, Groups E, F, & G. Class III
1031042	2-Position	110V, 6A		Class I, Div. 1, Groups C & D. Class II, Div. 1, Groups E, F, & G. Class III. NEMA 4X

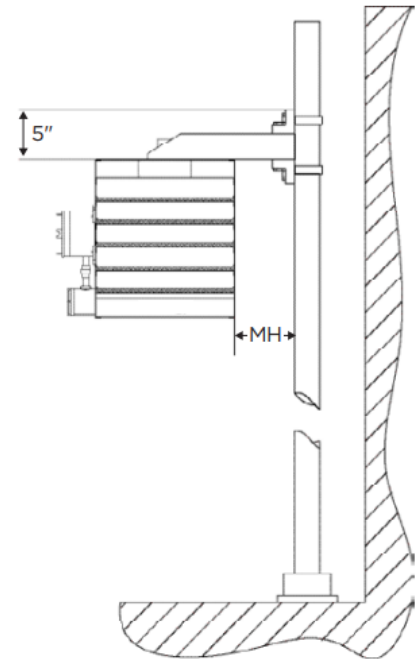
Dimensions and Clearances



Ceiling Mounting Kit



Wall Mounting Kit



Pole Mounting Kit

SIZE	X	Y	Z	MH	MW
1	22 1/2"	19 3/8"	16 1/8"	11 1/8"	9"
2	22 1/2"	23 3/8"	20 3/8"	15 1/8"	7"
3	22 3/4"	27 3/8"	24 3/8"	19 1/8"	5"

How to Order

Example

Example:

RUX	-	233	-	F	A	-	010	6	U	-	DKS	00	
Brand: RUX		Series: 233 = Unit Heater, Explosion Proof		Agency Approval: F = cCSAus Approval (standard), N = No Approval		Cabinet Size: A = Size 1, 12" Fan, 0-10 kW, B = Size 2, 16" Fan, 10.1-20 KW, C = Size 3, 20" Fan, 20.1-35 KW		kW*: 003, 005, 008, 010, 015, 020, 025, 030, 035		Temperature Rating: 6 = T3C Temperature Rating		Product Serial Code**	
Voltage & Phase: Standard Offering—60Hz C = 208V/1, D = 208V/3, J = 240V/1, K = 240V/3, U = 480V/3, Z = 600V/3. Additional/Special Offering—60Hz A = 115/1, B = 120/1, E = 220/1, F = 220/3, G = 230/1, H = 230/3, I = 347/1, N = 277/1. O** = Special, Q = 440/3, S = 460/3, X = 575/3. Standard Offering—50Hz*** E = 220/1, F = 220/3, G = 380/3, H = 400/3, I = 415/3.												Factory Install Options: D = Disconnect Switch, E = Group E (Metal Dust) Construction, K = "Warning" Pilot Light, L = "Heater On" Pilot Light, M = Manual Reset Thermal Cutout with Backup Contactor, S = Auto/Fan Selector Switch, S1 = Built-In Controls for Remote Auto/Fan Selector Switch, T = Adjustable Thermostat, T1 = Adjustable Thermostat for Wet Locations, V = 120 Volt Control Circuit, W = Wet Location Construction Features - IP55	

- Round up to the nearest whole kW
- For custom requests, contact Marley sales representative for assistance and additional detail

- Option Code “H” indicates 50 Hz Heater Contact Marley Sales Representative for additional configuration details

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](tel:800-642-4328)

Scan the QR code to access additional specs and features



FAQs

What should I do if the unit heater fails to turn on?

Check the power supply, thermostat settings, and ensure all connections are secure. If issues persist, contact a certified technician for further inspection.

Can this unit heater be used in outdoor environments?

The unit is designed for indoor use in specified hazardous locations as mentioned in the manual. Outdoor usage may require additional protective measures.

Documents / Resources

	BerkoMEP RUX Series Explosion Proof Unit Heater [pdf] User Manual RUX Series Explosion Proof Unit Heater, RUX Series, Explosion Proof Unit Heater, Unit Heater, Heater
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References

- [User Manual](#)

■ BerkoMEP

◆ BerkoMEP, Explosion Proof Unit Heater, heater, RUX Series, RUX Series Explosion Proof Unit Heater, Unit Heater

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