

TRIAD®**Washdown/Corrosion Resistant Unit Heater****Applications**

- Car Washes
- Cement Plants
- Coal Handling Areas
- Dairies
- Food Processing Plants
- Marine and Offshore
- Power Generating Stations
- Steel Mills and Foundries
- Swimming Pool Areas
- Wastewater Treatment Plants



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The INDEECO TRIAD® unit heater is the perfect solution to the problem of heating people or equipment in non-hazardous environments where moisture and corrosion exist. Advantages of the TRIAD® include:

- **Built-in Controls:** All necessary safety and temperature controls are included in a single package. Components and motor are factory-wired to a single terminal block for field wiring, eliminating the chance for field error and reducing installation costs.
- **Single Point Electrical Hook-up:** Heater, fan motor and controls are all connected to the same branch circuit.
- **Corrosion Resistant:** Stainless steel construction, epoxy-coated aluminum fan blade and nonmetallic NEMA 4X terminal enclosure resist corrosion found in sewage treatment plants, swimming pools, car washes, paper mills and marine installations.
- **Washable:** This watertight construction can be hosed down without disconnecting the heater, which makes it ideal for coal handling areas, steel mills, foundries, ships, wood finishing plants, cement, sand, grain and food processing facilities.

Standard Construction Features

Heating Elements – Industrial grade, Type 304 stainless steel finned tubular elements with stainless steel fittings, manufactured by INDEECO.

Fan Motor Assembly – Totally enclosed, UL Recognized motor with permanently lubricated ball bearings for longer life. Designed to resist moisture and corrosion. Factory-wired to NEMA 4X enclosure. Fitted with an epoxy-coated, aluminum fan blade suitable for corrosive salt spray environments.

Housing – Heating elements and motor are enclosed in a round, heavy 16-gauge stainless steel shroud.

Inlet/Outlet Grilles – Adjustable, stainless steel, louvered outlet grille can be rotated 90° to direct airflow up, down, left or right. Heavy gauge, stainless steel rear grille protects against accidental contact with the fan blade.

Control Enclosure – The non-metallic enclosure, which houses the element terminals and built-in controls, will not rust and meets NEMA 4X hose-down requirements.

Built-in Controls – Include automatic reset overtemperature cutout, fan delay relay, controlling contactor (when required), transformer for 24-volt control circuit, terminal block for field wiring and a separate motor contactor for heaters above 12 KW.

Mounting Bracket – The heater comes complete with a stainless steel swivel mounting bracket which can be used either for wall or ceiling mounting. Four field-supplied 3/8-16 threaded rods can also be used for ceiling installation.

Washdown/Corrosion Resistant Unit Heater

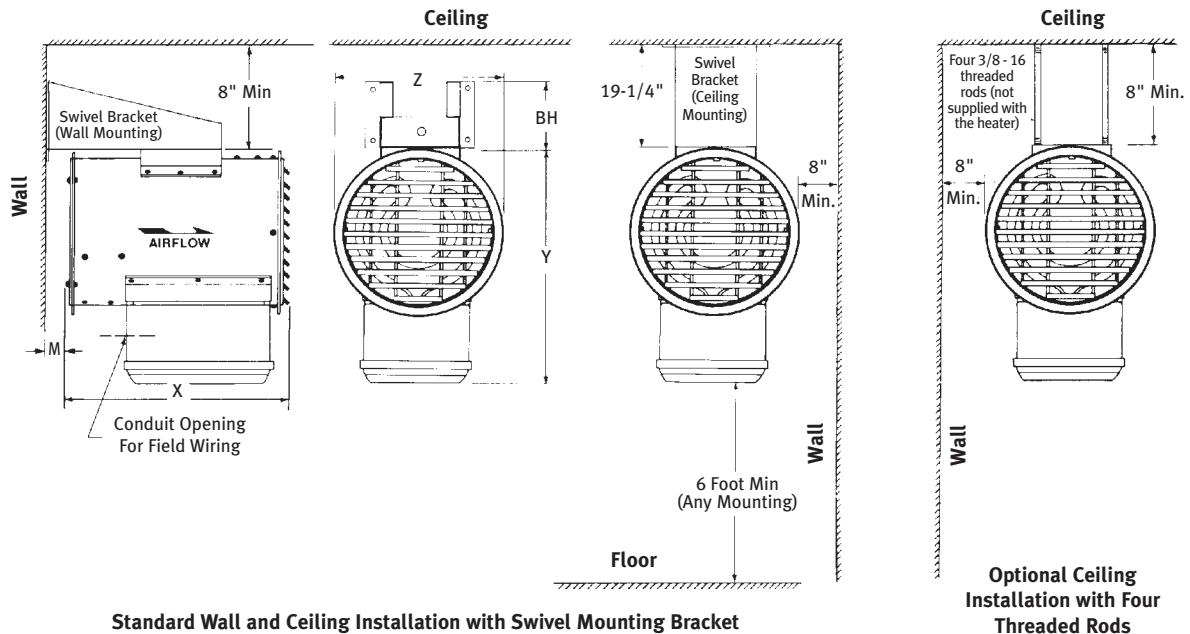
Factory Built-in Options

Code	Description
B	Delete swivel mounting bracket. Heater installs from the ceiling with field furnished threaded rods.
C	Epoxy painted stainless steel parts and fan blade
D	Power disconnect switch
E	Monel finned tubular elements
F	316 Stainless steel finned tubular elements
L	"Heater on" pilot light
M	Secondary manual reset/overtemperature cutout. Required for U.S. Coast Guard and ABS Approved designs.
S	Three-position selector switch (heater-standby-fan)
T	Built-in thermostat 40° to 100°F (5° to 38°C) range

Remote Room Thermostat – Use catalog number 1004328. See page 95.

Dimensions, Airflows and Weights

	KW	Size 1		Size 2
		2 – 7.5	7.6 – 12	12.1 – 47
Overall Heater Dimensions	"X" Inch (cm)	15½ (39)	15½ (39)	26 (66)
	"Y" Inch (cm)	21½ (55)	21½ (55)	28 (71)
	"Z" Inch (cm)	13 (33)	13 (33)	20 (51)
Mounting Hole Dimensions	"BH" Inch (cm)	4¼ (11)	4¼ (11)	7⅞ (18)
	"BL" Inch (cm)	19⅞ (49)	19⅞ (49)	22¼ (57)
	"M" Inch (cm)	8½ (22)	8½ (22)	3¼ (8)
Airflow Characteristics	Air Volume CFM (cubic meters/hr)	700 (1189)	1450 (2463)	2400 (4077)
	Air Throw Feet (m)	26 (8)	43 (13)	50 (15)
	Outlet Velocity FPM (meters/min)	760 (232)	1575 (481)	1200 (366)
Weight	Net Lbs (kgs)	56 (25)	56 (25)	115 (52)
	Shipping Lbs (kgs)	70 (32)	70 (32)	130 (60)



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TRIAD® Unit Heater Listing

For Non-Hazardous Areas

KW	Volts	Phase	Total Amps (1)	Approximate Air Temperature Rise °F (°C)	Motor			Catalog Number	Availability Code (2) (3)
					HP	Volts	Phase		
2	120	1	21	9 (5)	1/4	120	1	234-U11R-0020B	C
	208	1	12	9 (5)	1/4	208	1	234-U11R-0020C	C
	240	1	11	9 (5)	1/4	240	1	234-U11R-0020J	C
	277	1	10	9 (5)	1/4	277	1	234-U11R-0020N	C
3	120	1	29	14 (8)	1/4	120	1	234-U11N-0030B	C
	208	1	17	14 (8)	1/4	208	1	234-U11N-0030C	S
	240	1	15	14 (8)	1/4	240	1	234-U11N-0030J	C
	277	1	13	14 (8)	1/4	277	1	234-U11N-0030N	C
	480	1	8	14 (8)	1/4	480	1	234-U11N-0030T	C
	208	3	11	14 (8)	1/4	208	1	234-U11N-0030D	C
	240	3	10	14 (8)	1/4	240	1	234-U11N-0030K	C
	480	3	5	14 (8)	1/4	480	1	234-U11N-0030U	S
	600	3	4	14 (8)	1/4	600	1	234-U11N-0030Z	C
5	208	1	27	24 (13)	1/4	208	1	234-U11R-0050C	C
	240	1	23	24 (13)	1/4	240	1	234-U11R-0050J	C
	277	1	20	24 (13)	1/4	277	1	234-U11R-0050N	C
	480	1	12	24 (13)	1/4	480	1	234-U11R-0050T	C
	208	3	16	24 (13)	1/4	208	1	234-U11N-0050D	C
	240	3	15	24 (13)	1/4	240	1	234-U11N-0050K	S
	480	3	8	24 (13)	1/4	480	1	234-U11N-0050U	S
	600	3	6	24 (13)	1/4	600	1	234-U11N-0050Z	C
7.5	208	1	39	35 (19)	1/4	208	1	234-U11N-0080C	C
	240	1	34	35 (19)	1/4	240	1	234-U11N-0080J	C
	277	1	29	35 (19)	1/4	277	1	239-U11N-0080N	C
	480	1	17	35 (19)	1/4	480	1	234-U11N-0080T	C
	208	3	23	35 (19)	1/4	208	1	234-U11N-0080D	S
	240	3	21	35 (19)	1/4	240	1	234-U11N-0080K	C
	480	3	11	35 (19)	1/4	480	1	234-U11N-0080U	S
	600	3	9	35 (19)	1/4	600	1	234-U11N-0080Z	C
9	208	1	46	20 (11)	1/4	208	1	234-U11N-0090C	C
	240	1	40	20 (11)	1/4	240	1	234-U11N-0090J	C
	277	1	35	20 (11)	1/4	277	1	234-U11N-0090N	C
	480	1	20	20 (11)	1/4	480	1	234-U11N-0090T	C
	208	3	28	20 (11)	1/4	208	1	234-U11N-0090D	C
	240	3	24	20 (11)	1/4	240	1	234-U11N-0090K	C
	480	3	12	20 (11)	1/4	480	1	234-U11N-0090U	C
	600	3	10	20 (11)	1/4	600	1	234-U11N-0090Z	C
10	240	1	44	22 (12)	1/4	240	1	234-U11N-0100J	C
	277	1	39	22 (12)	1/4	277	1	234-U11N-0100N	C
	480	1	22	22 (12)	1/4	480	1	234-U11N-0100T	C
	208	3	30	22 (12)	1/4	208	1	234-U11N-0100D	C
	240	3	27	22 (12)	1/4	240	1	234-U11N-0100K	C
	480	3	14	22 (12)	1/4	480	1	234-U11N-0100U	S
	600	3	11	22 (12)	1/4	600	1	234-U11N-0100Z	C
12	277	1	46	26 (14)	1/4	277	1	234U11N-0120N	C
	480	1	27	26 (14)	1/4	480	1	234-U11N-0120T	C
	208	3	36	26 (14)	1/4	208	1	234-U11N-0120D	C
	240	3	32	26 (14)	1/4	240	1	234-U11N-0120K	C
	480	3	16	26 (14)	1/4	480	1	234-U11N-0120U	C
	600	3	13	26 (14)	1/4	600	1	234-U11N-0120Z	C
12.5	208	3	37	17 (9)	1/4	208	1	234-U11L-0130D	C
	240	3	33	17 (9)	1/4	240	1	234-U11L-0130K	C
	480	3	17	17 (9)	1/4	480	1	234-U11L-0130U	C
	600	3	14	17 (9)	1/4	600	1	234-U11L-0130Z	C
15	208	3	44	21 (12)	1/4	208	1	234-U11L-0150D	C
	240	3	39	21 (12)	1/4	240	1	234-U11L-0150K	C
	480	3	20	21 (12)	1/4	480	1	234-U11L-0150U	S
20	600	3	16	21 (12)	1/4	600	1	234-U11L-0150Z	C
	480	3	26	28 (16)	1/4	480	1	234-U11L-0200U	S
	600	3	21	28 (16)	1/4	600	1	234-U11L-0200Z	C
25	480	3	32	35 (19)	1/4	480	1	234-U11A-0250U	C
	600	3	26	35 (19)	1/4	600	1	234-U11A-0250Z	C
30	480	3	38	42 (23)	1/4	480	1	234-U11A-0300U	S
	600	3	31	42 (23)	1/4	600	1	234-U11A-0300Z	C
35	480	3	44	48 (27)	1/4	480	1	234-U11A-0350U	C
	600	3	35	48 (27)	1/4	600	1	234-U11A-0350Z	C
38.4	480	3	48	54 (30)	1/4	480	1	234-U11A-0390U	C
	600	3	38	54 (30)	1/4	600	1	234-U11A-0390Z	C
47	600	3	47	64 (36)	1/4	600	1	234-U11A-0470Z	C



(1) Total Amps = Heating element amps and motor amps.

(2) Availability Code: S = Stock, C = Custom

(3) Stock heaters ordered with custom options subject to longer delivery.