



Explosion-Proof and Fan-Forced Unit Heaters

Our products do more in a wide range of applications. **Expect More.**

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Indeeco offers commercial and industrial electric heating and control systems that set the industry standard for excellence. The company's heating solutions reflect more than 85 years of innovation, product quality and efficient service.




This catalog features Indeeco's complete line of explosion-proof and fan-forced electric unit heaters. Our products

include ULTRA-SAFE™ EXP and COMPACT Explosion-proof Unit Heaters; an explosion-proof convector; the TRIAD® Washdown/Corrosion Resistant Unit Heater; and several types of standard unit heaters.

Indeeco's quality is matched only by its customer service and support. With its quick-ship delivery program, Indeeco provides the products you need.

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Explosion-proof Unit Heaters

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*Optional factory installed disconnect switches have been sized in accordance to current UL2021 standards.

*All field installed and factory installed electrical component options are listed with their maximum voltage and maximum amperage ratings. They can be used with heaters rated up to their maximum ratings.

Use of Electric Heaters In Hazardous Locations

Introduction

Hazardous locations are those areas where a potential for explosion and fire exists due to the presence of flammable gases, vapors, pulverized dusts or ignitable fibers in the atmosphere. Hazardous locations are created from the normal processing of volatile chemicals, gases, coal, grains, etc., or from the accidental failure of storage systems for these materials.

Open flames are not permitted in these locations. The use of electric heating equipment is permitted with two major restrictions: 1) The surface temperature of the equipment cannot exceed the ignition temperature of the hazardous atmosphere and 2) all arc and spark producing devices must be isolated from the atmosphere in an appropriate enclosure.

National Electrical Code Classification

Articles 500 through 516 of the National Electrical Code deal with the definition of hazardous areas and the use or design of electrical equipment used in these locations. Electric heating equipment for hazardous areas is specified based on the NEC class, division, group and ignition temperature or the alternate class and zone classification.

Class

Hazardous locations are divided into the three general classes of vapors/gases, dusts and fibers.

Class I – Locations where the potential for explosion and fire exists due to the presence of flammable gases or vapors in the air. Typical Class I locations include oil or natural gas drilling rigs, petroleum refining or pumping facilities, petrochemical plants, wastewater/sewage treatment plants, solvent extraction plants, paint spraying booths, locations

where open tanks or vats of combustible liquids are present and storage areas for flammable materials.

Class II – Locations where the potential for explosion exists because of finely pulverized flammable dusts suspended in the atmosphere. Typical locations would include coal fired power plants, coal preparation/coal handling facilities, coal mines, grain elevators, flour and feed mills, packaging and handling of pulverized sugar and processing and storage of magnesium and aluminum powder.

Class III – This third classification is primarily a fire hazard where fibers or flyings suspended in the air create a hazard. This would include small pieces of thread-like fiber, sawdust, lint, etc. Typical applications would include textile mills, woodworking plants, cotton gins, cotton seed mills and flax producing plants.

Division

Class I, Class II and Class III areas are further defined in terms of when the hazard occurs. Division 1 and Division 2 occurrences are summarized below.

Division 1 – If the hazard is expected to be present under normal conditions, such as a production or processing facility, the occurrence is designated Division 1. The hazardous atmosphere may be present continuously, intermittently, periodically, or during normal repair or maintenance operations. Division 1 occurrences also include locations where a breakdown in the operation of processing equipment results in the release of hazardous vapors.

Division 2 – If the hazardous material is normally expected to be contained within a closed area, system or container, and would enter the ambient atmosphere only under an abnormal failure, then it is referred to as a Division 2 occurrence.

Hazardous and Corrosive Area Applications

- Aircraft Hangars/Service Areas
- Battery Storage Areas
- Chemical Plants
- Chemical Storage/Handling Areas
- Coal Mines/Preparation Plants
- Control Rooms
- Dry Cleaning Plants
- Dusty Areas Subject to Washdown
- Food Processing Plants (Washdown Areas)
- Foundries
- Gasoline Fueling/Storage Areas
- Grain Elevators
- Hydrogen Atmospheres
- Marine/Shipboard and Landbase Facilities
- Natural Gas (Methane) Atmospheres
- Oil Refineries
- Offshore Drilling Rigs
- Paint Spraying/Storage Areas
- Parking Garages
- Petrochemical Plants
- Pipeline Pumping Stations
- Pulp and Paper Mills
- Sewage/Wastewater Treatment Plants
- Solvent Recovery/Storage Areas
- Utility Plants

Use of Electric Heaters In Hazardous Locations

Group

The nature and explosive characteristics of the hazardous material are defined by the NEC group to which it is assigned.

Class I – Hazardous vapors/gas locations include chemicals and other materials that have been divided into four groups based on their ignition temperature and explosive characteristics. (Groups A, B, C and D)

Class II – Hazardous dust locations are divided into three groups based on their ignition temperature and electrical conductivity of the suspended particles.

Group E – Atmospheres containing metal dust, such as aluminum or magnesium.

Group F – Atmospheres containing coal, charcoal or coke dust.

Group G – Atmospheres with grain, flour, starch, combustible plastics or chemical dust.

Class III – Locations have no group definitions.

Ignition Temperature

All electrical equipment is designed not to exceed the ignition temperature of the hazardous atmosphere. The maximum surface temperature for electric heaters is defined by the NEC.

Class and Zone Classifications

Class I, Zone 0 – Locations in which ignitable concentrations of flammable gases or vapors are present continuously or for long periods.

Class I, Zone 1 – Locations in which ignitable concentrations of flammable gases or vapors are likely to exist, may exist frequently or exist as a result of equipment breakdown or faulty operation. Applies to locations adjacent to a Class I, Zone 0 location.

Class I, Zone 2 – Locations in which ignitable concentrations of flammable gases or vapors are not likely to occur under normal operation, exist only for a short period or exist only as a result of accidental failure, such as rupture or breakdown of the container or system, abnormal operation of equipment, failure or abnormal operation of the ventilation equipment. Applies to locations adjacent to a Class I, Zone 1 location.

Material Groups

Group IIC – Atmospheres containing acetylene or hydrogen. Equivalent to a combination of Class I, Group A and Class I, Group B as described in NEC Article 500.

Group IIB – Atmospheres containing acetaldehyde. Equivalent to Class I, Group C as described in NEC Article 500.

Group IIA – Atmospheres containing acetone, ammonia, ethyl alcohol, gasoline, methane or propane. Equivalent to Class I, Group D as described in NEC Article 500.

Product use depends on temperature class. The temperature code indicates the maximum temperature of the exposed surface of the product. For Zone classified dusts the explosion-proof temperature is the maximum surface temperature is shown as e.g. T80°C

| Class, Division Classification | | Zone Classification | |
|--------------------------------|-------------------------------------|----------------------------|--------------------------------|
| Temperature Class (T Code) | Maximum Surface Temperature °F (°C) | Temperature Class (T Code) | Maximum Surface Temperature °C |
| T1 | ≤ 842 (≤ 450) | T1 | ≤ 450 |
| T2 | ≤ 572 (≤ 300) | T2 | ≤ 300 |
| T2A | ≤ 536 (≤ 280) | T3 | ≤ 200 |
| T2B | ≤ 500 (≤ 260) | T4 | ≤ 135 |
| T2C | ≤ 446 (≤ 230) | T5 | ≤ 100 |
| T2D | ≤ 419 (≤ 215) | T6 | ≤ 85 |
| T3 | ≤ 392 (≤ 200) | | |
| T3A | ≤ 356 (≤ 180) | | |
| T3B | ≤ 329 (≤ 165) | | |
| T3C | ≤ 320 (≤ 160) | | |
| T4 | ≤ 275 (≤ 135) | | |
| T4A | ≤ 248 (≤ 120) | | |
| T5 | ≤ 212 (≤ 100) | | |
| T6 | ≤ 185 (≤ 85) | | |

Comparison Chart

Only Indeeco offers a selection of explosion-proof heater constructions to meet your specific application.

ULTRA-SAFE™ EXP

Our most popular and versatile construction has a broad range of stock designs, special options and the industry's lowest Ignition Temperature Code rating, 320°F (160°C).



| Features | ULTRA-SAFE™ EXP |
|---|---|
| Hazardous Location NEC Classifications | Class I, Divisions 1 and 2, Groups C and D Class II, Divisions 1 and 2, Groups E, F, and G Class I, Zones 1 and 2, Groups IIB |
| Ignition Temperature Code | T3C 320°F (160°C) |
| KW Range | Up to 30 KW |
| Standard Built-in Overtemperature Protection | Dual overtemperature protection with automatic and manual reset thermal cutouts |
| Other Standard Built-in Controls | Controlling contactor, control circuit transformer |
| Standard Control Voltage | 24V |
| Single Point Line Voltage Connection for Incoming Power | Yes |
| Optional Built-in Controls | |
| Thermostat | Yes |
| Disconnect Switch | Yes |
| Selector Switch | Yes |
| Manual Reset Cutout | Standard |
| “Heater On” Pilot Light | Yes |
| “Warning” Pilot Light | Yes |
| Control Circuit Transformer | Standard |
| Standard Construction | |
| Heater Assembly | Liquid-to-air heat exchanger, steel tube with aluminum fins, propylene glycol, immersion heater |
| Cabinet/Housing | Powder coated galvanized steel |
| NEMA 7, 9 Control Enclosure | Cast aluminum |
| Mounting Brackets | Wall, ceiling or pole mounting kits (optional) |
| Optional Constructions | |
| Dirty Duty Corrosion Resistant | Choice of 316SS Construction or Heresite® coating |
| Wet Location | Suitable for IP55 wet locations |
| 50 Hertz Motor | Yes |
| Agency Approvals | |
| | CSA _{US} |

Comparison Chart

COMPACT

The industry's smallest and most economical design for Class I, Group D applications up to 12 KW.



Convector

Small, compact design with a wide range of optional built-in controls.



| COMPACT | Convector |
|--|--|
| Class I, Divisions 1 and 2, Group D Class 1, Zones 1 and 2, Group IIA | Class I, Divisions 1 and 2, Groups B, C and D Class II, Divisions 1 and 2, Groups E, F, and G Class 1, Zones 1 and 2, Groups IIC |
| T3 392°F (200°C) (Varies with KW) | T3C 320°F (160°C) (Varies with classification) |
| Up to 12 KW | Up to 9.5 KW |
| Primary and secondary automatic reset cutouts with fan relay | Primary automatic reset cutout |
| Controlling contactor | None |
| 120V | Maximum 277V |
| Separate 120V motor line required | Yes |
| | |
| Yes | Yes |
| No | No |
| No | No |
| Yes | No |
| No | No |
| No | No |
| No | Yes |
| | |
| Stainless steel finned tubular elements | Heater core enclosed in copper tube with large aluminum fins |
| Stainless steel | Powder coated galvanized steel |
| Cast aluminum | Cast aluminum |
| Swivel mounting bracket (standard) | Wall mounting bracket (standard) |
| | |
| Yes | Wet locations (Type 3) iridite coated elements |
| No | Wet locations (Type 3) iridite coated elements |
| No | N/A |
| | |
| c _{us} CSA & ABS | c _{us} CSA & ABS |

Ultra-Safe™ EXP UNIT HEATER



Indeeco's ULTRA-SAFE™ EXP explosion-proof unit heater is designed with both safety and versatility in mind. Unique ULTRA-SAFE™ EXP features include:

- Industry's Lowest Ignition Temperature Code Rating: T3C, 320°F (160°C)
- Dual Overtemperature Protection: With both automatic and manual reset overtemperature cutouts for additional safety.
- Optional wet location construction, which includes IP55 motor, type 4 outdoor rated enclosure and meets rain-tight requirements of UL 1004-1.
- Nontoxic Propylene Glycol Heat Transfer Fluid
- Low 70 PSIG Relief Valve Setting: This assures that in an emergency, the initial escaping vapor temperature remains below the 320°F (160°C) ignition temperature.
- Corrosion Resistant Options: Indeeco offers three constructions suitable for most applications.

Standard construction for use in dry non-corrosive areas includes: welded steel heat exchanger; powder-coated cabinet.

A 316 stainless steel construction suitable for Waste Water Treatment Plants includes: 316 stainless steel heat exchanger, headers and tubes with aluminum fins; stainless steel cabinet; corrosion resistant hardware.

Third construction is suitable for use in Chemical Plants where chlorides are present and includes: Heresite® coated heat exchanger, cabinet, fan blade; corrosion resistant hardware.

Applications

- Aircraft Hangars/Service Areas
- Chemical Storage/Handling Areas
- Coal Preparation Plants
- Compressor Stations
- Grain Elevators
- Oil Refineries and Rigs
- Paint Storage Areas
- Petrochemical Plants
- Sewage Pump Stations/Treatment Plants
- Spray Booths

Class I, Divisions 1 and 2, Groups 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)

Standard Construction Features

Heat Exchanger – Efficient liquid-to-air design utilizes an all welded steel headers and finned tube construction with spiral wound aluminum fins. Industrial grade Indeeco 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.

Fan Motor Assembly – Consists of an explosion-proof motor 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 are described on page 9.

Cabinet/Louvers – Industrial grade, corrosion resistant construction fabricated from beige powder coated 14-gauge galvanized steel. The adjustable louvers have minimum opening safety stops.

Controls – Factory mounted on the unit heater. Standard built-in controls include automatic and manual reset overtemperature cutouts, controlling magnetic contactor, and 24-volt control circuit transformer housed in a NEMA 7, 9 cast aluminum enclosure.

Ultra-Safe™ EXP UNIT HEATER

Factory Built-in Options

| Code | Option | Description | Availability Code (2) |
|------|---|---|-----------------------|
| C1 | 316 Stainless Steel Corrosion-Resistant Construction (Waste Water Treatment Plants) | 316 Stainless steel heat exchanger with aluminum fins, 316 stainless steel cabinet; aluminum fan blade; cast aluminum NEMA 7, 9 control enclosure; corrosion-resistant hardware; corrosion-resistant protective coated motor, which has passed the ASTM B117 salt-spray test. | C |
| C2 | Dirty Duty Corrosion-Resistant Construction (Chemical Plants) | Heresite® coated heat exchanger, cabinet and fan blade; cast aluminum NEMA 7, 9 control enclosure; corrosion-resistant hardware; corrosion-resistant protective coated motor which has passed the ASTM B117 salt-spray test. | C |
| 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. | AS |
| E* | Group E (Metal Dust) Construction | Class II, Group E (Metal Dust) Construction Temperature Code T3C, 320°F (160°C) | C |
| K | “Warning” Pilot Light | Indicates when the thermal cutouts have tripped and the unit heater needs servicing. | AS |
| L | “Heater On” Pilot Light | Indicates when the electric heating elements are energized. | AS |
| M | Manual Reset Thermal Cutout with Backup Contactor | A pilot duty manual reset thermal cutout with a backup contactor is provided for independent secondary over-temperature protection. This option cannot be provided if option Code S or V are also specified. | AS |
| S | Auto/Fan Selector Switch | A two-position switch wired to the control circuit for auto (automatic heat) and fan only control. This selector switch cannot be provided if option Code M or V are also specified. | AS |
| S1 | Built-In Controls for Remote Auto/Fan Selector Switch | Unit is prewired for field addition of remote auto/fan selector switch. This option cannot be provided if Code M or V are also specified. | AS |
| T | Adjustable Thermostat | Factory installed and prewired to the control enclosure. Thermostat is adjustable from 50° to 90°F (10° to 32°C) range. | AS |
| 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) range. Can be specified for all constructions. | AS |
| V | 120 Volt Control Circuit | Can be provided when required for special external thermostat circuit. This option cannot be provided if option Code S or M are also specified. Nor can both K and L be specified. | AS |
| W | Wet Location Construction Features – IP55 | Unit provided with components suitable for IP55 wet locations. Requires dirty duty corrosion-resistant or 316 stainless steel corrosion-resistance construction option. | AS |

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

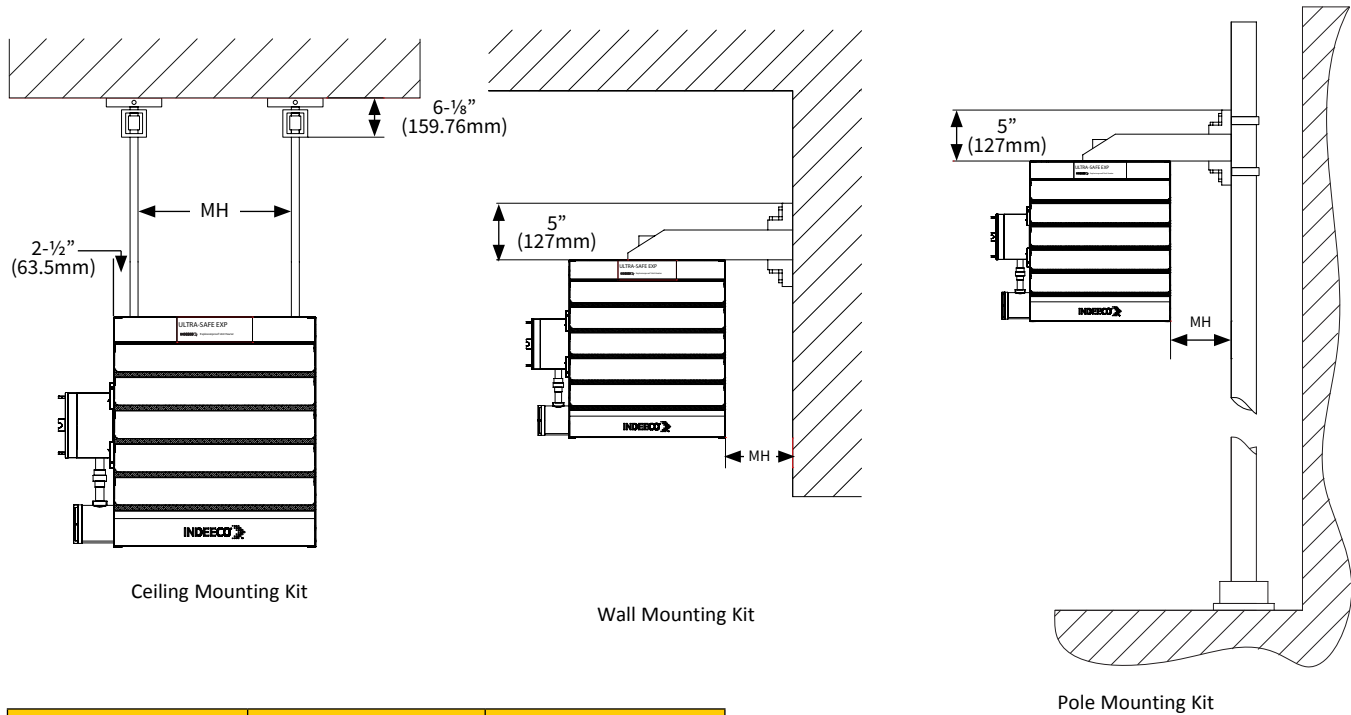
* Code E cannot be selected when selecting Code W.

Ultra-Safe™ EXP UNIT HEATER

Accessory Items

ULTRA-SAFE™ EXP Heater Mounting Kits

These are available for ceiling, wall and pole mounting configurations as described below. Specify type required and catalog number at time of order entry.



| Size | MH In. (mm) | MW In. (mm) |
|------|----------------|-------------|
| 1 | 11.063 (281) | 9 (228.6) |
| 2 | 15.063 (382.6) | 7 (177.8) |
| 3 | 19.063 (484.2) | 5 (127) |

Unit Heater Mounting Kits (One kit required per heater) Standard Mounting Kits for use in most applications

| Catalog Number | Description | Availability Code (2) |
|----------------|--|-----------------------|
| 1022451 | Ceiling Mounting Kit, for Frame Size 1, 2, 3 | AS |
| 1022454 | Wall Mounting Kit, for Frame Size 1, 2, 3 | |
| 1022457 | Pole Mounting Kit, for Frame Size 1, 2, 3 | |

Optional Mounting Kits for Option C1 or C2 heaters

| Catalog Number | Description | Availability Code (2) |
|----------------|--|-----------------------|
| 1022451-S | Corrosion Resistant Ceiling Mounting Kit, for Frame Size 1, 2, 3 | AS |
| 1022454-S | Corrosion Resistant Wall Mounting Kit, for Frame Size 1, 2, 3 | |
| 1022457-S | Corrosion Resistant Pole Mounting Kit, for Frame Size 1, 2, 3 | |

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

Ultra-Safe™ EXP UNIT HEATER

Accessory Remote Thermostat

| Catalog Number | Switch Type | Description | Type | Ratings | Temp. Range °F (°C) | Availability Code |
|----------------|-------------|--|------|------------------|---------------------|-------------------|
| 1007002 | Bimetal | Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G | SPDT | 125-277V, 22A | 50-90 (10-32) | AS |
| 1030790 | Bimetal | Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G Class III IP66, Type 4 | SPDT | 480V, 22A | 40-80 (5-25) | |

Remote Fan Switch

| Catalog Number | Switch Type | Description | Hubs | Ratings | Availability Code |
|----------------|-------------|---|----------------------|-----------------|-------------------|
| 1001744 | 2-Position | Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G Class III | (2) 3/4" NPT Hubs | 120/277V 30A | AS |
| 1031042 | 2-Position | Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G Class III NEMA 4X | (2) 3/4" NPT Hubs | 110V 6A | |

Ultra-Safe™ EXP UNIT HEATER

Dimensions, Airflows and Weights

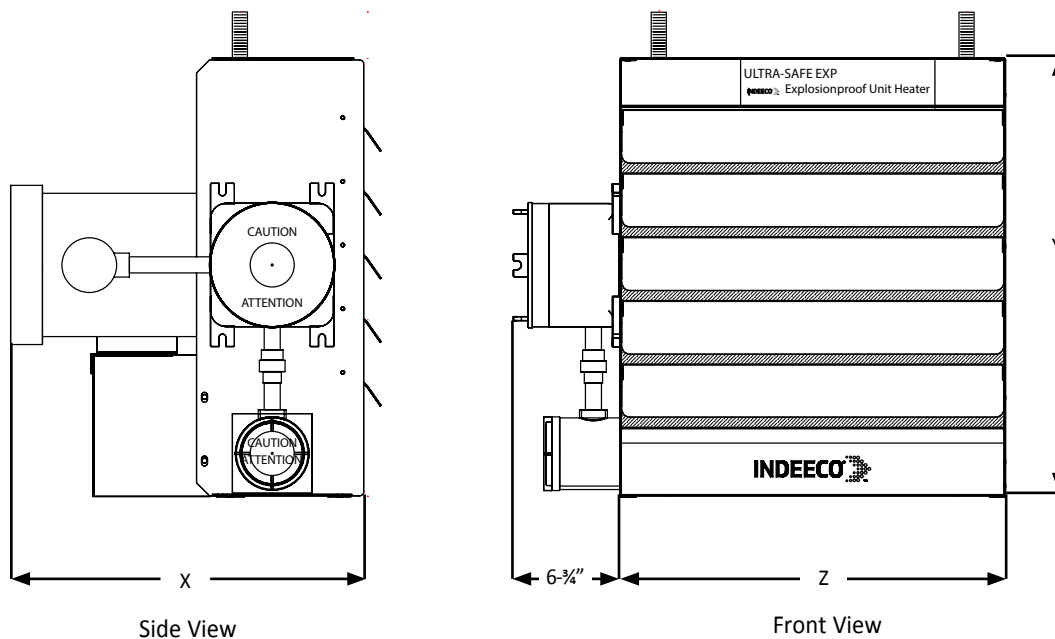
| Frame Size | | Size 1 | Size 2 | Size 3 |
|---------------------------|--------------------|------------------|------------------|------------------|
| Overall Heater Dimensions | 'X' In. (mm) | 21.75 (552.45) | 21.75 (552.45) | 22.75 (577.85) |
| | 'Y' In. (mm) | 19.375 (492.125) | 23.375 (593.725) | 27.375 (695.325) |
| | 'Z' In. (mm) | 16.063 (408) | 20.188 (512.775) | 24.188 (614.375) |
| Weight | Net Lbs. (kgs) | 110 (49.89) | 150 (68.03) | 190 (86.18) |
| | Shipping Lbs (kgs) | 130 (58.96) | 169 (76.65) | 216 (97.97) |

60 Hertz Heaters

| KW Range | | 3 - 5 | 7.5 - 10 | 15 | 20 | 25 | 30 |
|-------------------------|----------------------------------|------------|------------|-------------|-------------|-------------|----|
| Airflow Characteristics | Air Volume CFM (cubic meter/hr.) | 650 (1104) | 850 (1444) | 1800 (3058) | 3110 (5283) | 3850 (6541) | |
| | Air Throw Feet (m) | 15 (4.5) | 25 (7.6) | 45 (13.7) | 65 (19.8) | 75 (22.8) | |
| Motor/Fan | RPM | 1725 | | | | | |
| | HP | 1/4 | | | | 1/2 | |
| | Fan Blade Dia. In. (mm) | 12 (304.8) | | 16 (406.4) | | 20 (508) | |

50 Hertz Heaters

| KW Range | | 2.5 - 4.2 | 6.3 - 8.4 | 12.5 | 16.7 | 21 - 25 | |
|-------------------------|----------------------------------|------------|------------|-------------|------|-------------|--|
| Airflow Characteristics | Air Volume CFM (cubic meter/hr.) | 550 (934) | 700 (1189) | 1500 (2549) | | 2600 (4417) | |
| | Air Throw Feet (m) | 13 (4) | 22 (7) | 39 (12) | | 57 (17) | |
| Motor/Fan | RPM | 1438 | | | | | |
| | HP | 1/4 | | | | 1/2 | |
| | Fan Blade Dia. In. (mm) | 12 (304.8) | | 16 (406.4) | | 20 (508) | |



Ultra-Safe™ EXP UNIT HEATER



Class I, Divisions 1 and 2, Groups C and D
 Class II, Divisions 1 and 2, Groups F and G
 Class I, Zones 1 and 2, Group IIB
 Temperature Code T3C, 320°F (160°C)

ULTRA-SAFE™ EXP Unit Heater Listing 60 Hz

| KW | Volts | Phase | Total Amps (1) | Frame Size | Approximate Air Temperature Rise °F (°C) | Catalog Number | Availability (2) |
|-----|-------|-------|----------------|------------|--|----------------|------------------|
| 3 | 208 | 1 | 17 | 1 | 15 (8) | 233-FA-0036C | AS |
| | 240 | 1 | 15 | 1 | 15 (8) | 233-FA-0036J | |
| | 208 | 3 | 10 | 1 | 15 (8) | 233-FA-0036D | |
| | 240 | 3 | 9 | 1 | 15 (8) | 233-FA-0036K | |
| | 480 | 3 | 5 | 1 | 15 (8) | 233-FA-0036U | |
| | 600 | 3 | 4 | 1 | 15 (8) | 233-FA-0036Z | |
| 5 | 208 | 1 | 26 | 1 | 25 (13) | 233-FA-0056C | |
| | 240 | 1 | 23 | 1 | 25 (13) | 233-FA-0056J | |
| | 208 | 3 | 16 | 1 | 25 (13) | 233-FA-0056D | |
| | 240 | 3 | 14 | 1 | 25 (13) | 233-FA-0056K | |
| | 480 | 3 | 7 | 1 | 25 (13) | 233-FA-0056U | |
| | 600 | 3 | 6 | 1 | 25 (13) | 233-FA-0056Z | |
| 7.5 | 208 | 1 | 38 | 1 | 28 (16) | 233-FA-0086C | |
| | 240 | 1 | 34 | 1 | 28 (16) | 233-FA-0086J | |
| | 208 | 3 | 23 | 1 | 28 (16) | 233-FA-0086D | |
| | 240 | 3 | 20 | 1 | 28 (16) | 233-FA-0086K | |
| | 480 | 3 | 10 | 1 | 28 (16) | 233-FA-0086U | |
| | 600 | 3 | 9 | 1 | 28 (16) | 233-FA-0086Z | |
| 10 | 240 | 1 | 44 | 1 | 38 (21) | 233-FA-0106J | |
| | 208 | 3 | 30 | 1 | 38 (21) | 233-FA-0106D | |
| | 240 | 3 | 26 | 1 | 38 (21) | 233-FA-0106K | |
| | 480 | 3 | 13 | 1 | 38 (21) | 233-FA-0106U | |
| | 600 | 3 | 11 | 1 | 38 (21) | 233-FA-0106Z | |
| 15 | 208 | 3 | 44 | 2 | 27 (15) | 233-FB-0156D | |
| | 240 | 3 | 38 | 2 | 27 (15) | 233-FB-0156K | |
| | 480 | 3 | 19 | 2 | 27 (15) | 233-FB-0156U | |
| | 600 | 3 | 16 | 2 | 27 (15) | 233-FB-0156Z | |
| 20 | 480 | 3 | 25 | 2 | 35 (19) | 233-FB-0206U | |
| | 600 | 3 | 21 | 2 | 35 (19) | 233-FB-0206Z | |
| 25 | 480 | 3 | 31 | 3 | 26 (14) | 233-FC-0256U | |
| | 600 | 3 | 25 | 3 | 26 (14) | 233-FC-0256Z | |
| 30 | 480 | 3 | 37 | 3 | 25 (13) | 233-FC-0306U | |
| | 600 | 3 | 30 | 3 | 25 (13) | 233-FC-0306Z | |

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

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

Ultra-Safe™ EXP UNIT HEATER

ULTRA-SAFE™ EXP Unit Heater Listing 50 Hz

Class I, Divisions 1 and 2, Groups C and D
Class II, Divisions 1 and 2, Groups F and G
Class I, Zones 1 and 2, Group IIB
Temperature Code T3C, 320°F (160°C)



| KW | Volts | Phase | Total Amps (1) | Frame Size | Approximate Air Temperature Rise °F (°C) | Catalog Number | Availability (2) |
|------|-------|-------|----------------|------------|--|----------------|------------------|
| 2.5 | 220 | 1 | 14 | 1 | 14 (8) | 233-FA-0036E | C |
| | 220 | 3 | 9 | 1 | 14 (8) | 233-FA-0036F | |
| | 380 | 3 | 6 | 1 | 14 (8) | 233-FA-0036G | |
| | 400 | 3 | 6 | 1 | 14 (8) | 233-FA-0036H | |
| | 415 | 3 | 5 | 1 | 14 (8) | 233-FA-0036I | |
| 4.2 | 220 | 1 | 21 | 1 | 24 (13) | 233-FA-0056E | |
| | 220 | 3 | 13 | 1 | 24 (13) | 233-FA-0056F | |
| | 380 | 3 | 9 | 1 | 24 (13) | 233-FA-0056G | |
| | 400 | 3 | 8 | 1 | 24 (13) | 233-FA-0056H | |
| | 415 | 3 | 7 | 1 | 24 (13) | 233-FA-0056I | |
| 6.3 | 220 | 1 | 31 | 1 | 28 (16) | 233-FA-0076E | |
| | 220 | 3 | 19 | 1 | 28 (16) | 233-FA-0076F | |
| | 380 | 3 | 12 | 1 | 28 (16) | 233-FA-0076G | |
| | 400 | 3 | 11 | 1 | 28 (16) | 233-FA-0076H | |
| | 415 | 3 | 10 | 1 | 28 (16) | 233-FA-0076I | |
| 8.4 | 220 | 1 | 40 | 1 | 38 (21) | 233-FA-0096E | |
| | 220 | 3 | 24 | 1 | 38 (21) | 233-FA-0096F | |
| | 380 | 3 | 15 | 1 | 38 (21) | 233-FA-0096G | |
| | 400 | 3 | 13 | 1 | 38 (21) | 233-FA-0096H | |
| | 415 | 3 | 13 | 1 | 38 (21) | 233-FA-0096I | |
| 12.5 | 220 | 3 | 35 | 2 | 26 (14) | 233-FB-0136F | |
| | 380 | 3 | 21 | 2 | 26 (14) | 233-FB-0136G | |
| | 400 | 3 | 19 | 2 | 26 (14) | 233-FB-0136H | |
| | 415 | 3 | 18 | 2 | 26 (14) | 233-FB-0136I | |
| 16.7 | 220 | 3 | 46 | 2 | 35 (19) | 233-FB-0176F | |
| | 380 | 3 | 28 | 2 | 35 (19) | 233-FB-0176G | |
| | 400 | 3 | 25 | 2 | 35 (19) | 233-FB-0176H | |
| | 415 | 3 | 24 | 2 | 35 (19) | 233-FB-0176I | |
| 21 | 380 | 3 | 33 | 3 | 26 (14) | 233-FC-0216G | |
| | 400 | 3 | 32 | 3 | 26 (14) | 233-FC-0216H | |
| | 415 | 3 | 31 | 3 | 26 (14) | 233-FC-0216I | |
| 25 | 380 | 3 | 39 | 3 | 30 (17) | 233-FC-0256G | |
| | 400 | 3 | 37 | 3 | 30 (17) | 233-FC-0256H | |
| | 415 | 3 | 36 | 3 | 30 (17) | 233-FC-0256I | |

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

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

Compact Unit Heater



American
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Shipping



Class I, Divisions 1 and 2, Group D
Class I, Zones 1 and 2, Group IIA

Indeeco's COMPACT explosion-proof unit heater is designed with both size and economy in mind. COMPACT advantages and unique features include:

- **Compact Size:** This small design is only 13 inches wide, which makes it ideal for applications where limited space is available.
- **Low Cost:** The COMPACT design offers the most economical solution for heating small Class I, Group D hazardous areas. It is a cost effective alternative to the use of explosion-proof convection heaters.
- **Redundant Overtemperature Protection:** Primary and secondary automatic reset thermal cutouts for additional safety.
- **Stainless Steel Construction:** Provides superior corrosion resistant protection. Optional Dirty Duty construction adds polyester powder coating to all aluminum parts for use in corrosive applications.
- **Optional Marine Duty Construction:** The COMPACT design is ideal for shipboard use where size, weight and corrosion resistant construction are critical.

Applications

- Chemical Storage/ Handling Areas
- Compressor Stations
- Marine and Offshore
- Oil Platforms and Refineries
- Sewage/Wastewater Treatment Plants
- Spray Booths

Standard Construction Features

Heating Elements – Industrial grade, Type 304 stainless steel finned tubular heating elements are manufactured by Indeeco.

Terminal Enclosure – A NEMA 7, 9 cast aluminum enclosure with a threaded bottom cover permits easy access to the built-in controls from underneath the heater.

Housing – Round, 16-gauge stainless steel shroud.

Grilles – An adjustable stainless steel louvered outlet grille directs airflow 45° up or down and a heavy gauge stainless steel rear grille protects against accidental contact with the fan blade.

Stainless Steel Swivel Mounting Bracket – Supplied as standard with all COMPACT explosion-proof unit heaters. This multi-purpose bracket can be used for either wall or ceiling mounting.

Built-In Controls – Include primary and secondary automatic reset overtemperature cutouts, controlling contactor, and a time delay relay which keeps the fan running to cool the heating elements after they have been de-energized.

Fan Motor Assembly – Consists of a 120-volt, 1-phase 60 hertz motor fitted with an aluminum fan blade. The totally enclosed motor is UL Listed for Class I, Group D applications and includes permanently lubricated ball bearings and built-in thermal overload protection. The motor is factory wired into the enclosure to reduce field wiring, but requires a separate 120-volt power supply.

Compact UNIT HEATER

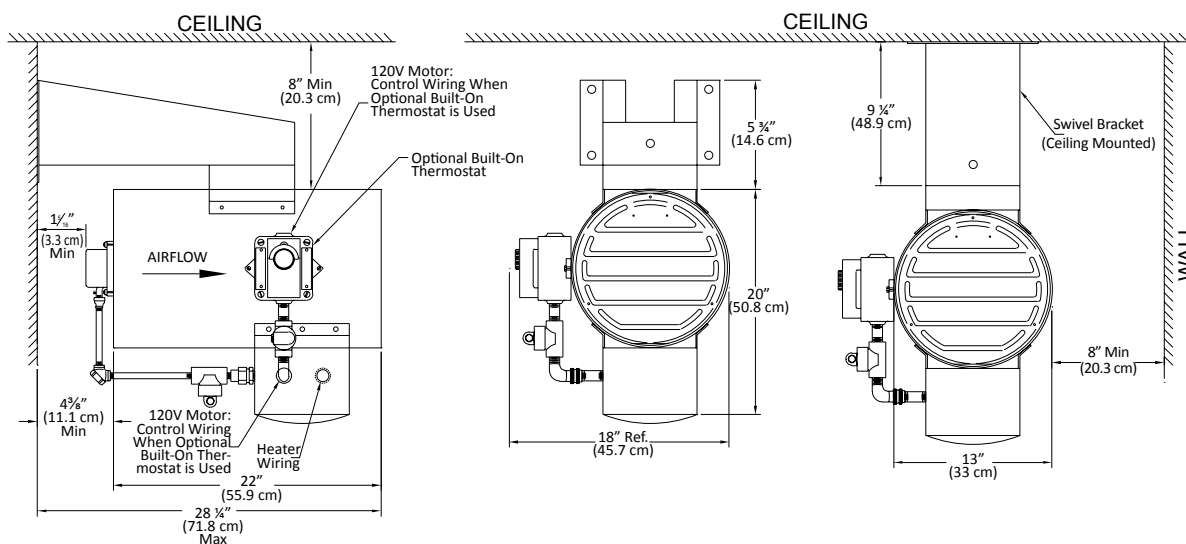
Custom Options

| Code | Option | Description | Availability Code (2) |
|------|---|--|-----------------------|
| C | Dirty Duty Corrosion Resistant Construction | Includes polyester powder coated fan blade, wiring conduit and fittings, NEMA 4X, 7, 9 enclosure. | C |
| CM | Marine Duty Construction | Dirty Duty Construction with manual reset thermal cutout. Meets U.S. Coast Guard requirements per 46CFR-111.87 and is ABS Approved | C |
| M | Manual Reset Cutout | Can be specified to replace secondary automatic cutout. | C |
| T | Adjustable Thermostat | Factory installed and prewired to the control enclosure. Thermostat is adjustable from 50° to 90°F (10° to 32°C) range. | C |

(2) AS = Assembly Stock, C = Custom Assembly Stock heaters ordered with custom options are subject to longer delivery.

Dimensions, Airflows and Weights

| KW | | 3 | 5 | 7 | 10 | 12 |
|--|----------------------------------|-------------|-------------|-------------|-------------|-------------|
| Ignition Temperature Code | | T3 | T2C | T2 | T1 | T1 |
| Approximate Air Temperature Rise °F (°C) | | 9 (5) | 15 (8) | 22 (12) | 31 (17) | 37 (21) |
| Airflow Characteristics | Air Volume CFM (cubic meters/hr) | 1050 (1784) | 1050 (1784) | 1050 (1784) | 1050 (1784) | 1050 (1784) |
| | Air Throw Feet (m) | 25 (8) | 25 (8) | 25 (8) | 25 (8) | 25 (8) |
| | Outlet Velocity FPM (meters/min) | 1140 (348) | 1140 (348) | 1140 (348) | 1140 (348) | 1140 (348) |
| Motor/Fan | RPM | 1725 | 1725 | 1725 | 1725 | 1725 |
| | HP | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 |
| | Fan Blade Dia. Inch (cm) | 12 (31) | | | | |
| Weight | Net Lbs (kgs) | 96 (44) | | | | |
| | Shipping Lbs (kgs) | 110 (50) | | | | |



Standard Wall and Ceiling Installation with Swivel Mounting Bracket

Compact UNIT HEATER

Class I, Divisions 1 and 2, Group D

Class I, Zones 1 and 2, Group IIA

COMPACT Unit Heater Listing

| Ignition Temperature Code °F (°C) | KW | Volts | Phase | Heater Amps (1) | Catalog Number | Availability Code (2) |
|--------------------------------------|----|-------|-------|-----------------|---------------------|-----------------------|
| T3 392 (200) | 3 | 208 | 1 | 14.5 | 236-F01T-0037C-7300 | C |
| | | 240 | 1 | 12.5 | 236-F01T-0037J-7301 | C |
| | | 480 | 1 | 6.3 | 236-F01T-0037T-7302 | C |
| | | 208 | 3 | 8.4 | 236-F01T-0037D-7303 | C |
| | | 240 | 3 | 7.3 | 236-F01T-0037K-7304 | C |
| | | 480 | 3 | 3.7 | 236-F01T-0037U-7305 | C |
| | | 600 | 3 | 2.9 | 236-F01T-0037Z-7306 | C |
| T2C 446 (230) | 5 | 208 | 1 | 24.1 | 236-F01T-0055C-7307 | C |
| | | 240 | 1 | 20.9 | 236-F01T-0055J-7308 | C |
| | | 480 | 1 | 10.5 | 236-F01T-0055T-7309 | C |
| | | 208 | 3 | 13.9 | 236-F01T-0055D-7310 | C |
| | | 240 | 3 | 12.1 | 236-F01T-0055K-7311 | C |
| | | 480 | 3 | 8.1 | 236-F01T-0055U-7312 | C |
| | | 600 | 3 | 4.9 | 236-F01T-0055Z-7313 | C |
| T2 572 (300) | 7 | 208 | 1 | 33.7 | 236-F01T-0072C-7314 | C |
| | | 240 | 1 | 29.2 | 236-F01T-0072J-7315 | C |
| | | 480 | 1 | 14.6 | 236-F01T-0072T-7316 | C |
| | | 208 | 3 | 19.5 | 236-F01T-0072D-7317 | C |
| | | 240 | 3 | 16.9 | 236-F01T-0072K-7318 | C |
| | | 480 | 3 | 8.5 | 236-F01T-0072U-7319 | C |
| | | 600 | 3 | 6.8 | 236-F01T-0072Z-7320 | C |
| T1 842 (450) | 10 | 240 | 1 | 41.7 | 236-F01T-0101J-7321 | C |
| | | 480 | 1 | 20.9 | 236-F01T-0101T-7322 | C |
| | | 208 | 3 | 27.8 | 236-F01T-0101D-7323 | C |
| | | 240 | 3 | 24.1 | 236-F01T-0101K-7324 | C |
| | | 480 | 3 | 12.1 | 236-F01T-0101U-7325 | C |
| | | 600 | 3 | 9.7 | 236-F01T-0101Z-7326 | C |
| T1 842 (450) | 12 | 480 | 1 | 25.0 | 236-F01T-0121T-7327 | C |
| | | 240 | 3 | 29.0 | 236-F01T-0121K-7328 | C |
| | | 480 | 3 | 14.5 | 236-F01T-0121U-7329 | C |
| | | 600 | 3 | 11.6 | 236-F01T-0121Z-7330 | C |

(1) The amps shown are for the heating elements only. The 120V, 1 Ph 60 Hz motor draws 3.8 amps and requires a separate 120V power supply.

(2) Availability Code: C = Custom

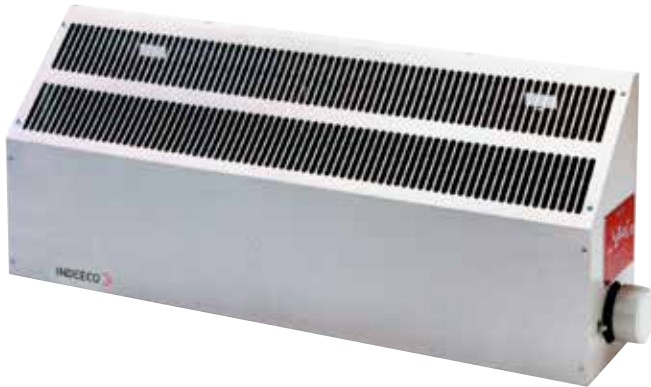


American Bureau of Shipping

Accessory Remote Thermostat

| Catalog Number | Switch Type | Description | Type | Ratings | Temp. Range °F (°C) | Availability Code |
|----------------|---|---|------|-------------------------------|---------------------|-------------------|
| 1007002 | Bimetal | Class 1, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G | SPDT | 125-277V, 22A | 50-90 (10-32) | AS |
| 1024754 | Bulb and Capillary with Internal Set Point Adjustment | Class 1, Div. 1, Groups B, C & D Class II, Div. 1, Groups E, F, & G | SPDT | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |
| 1025396 | Bulb and Capillary with Internal Set Point Adjustment | Corrosion-Resistant Class 1, Div. 1, Groups B, C, & D Class II, Div. 1, Groups E, F & G | SPST | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |

Convector



American
Bureau of
Shipping

Class I, Divisions 1 and 2, Groups B, C and D
Class II, Divisions 1 and 2, Groups E, F and G
Class I, Zones 1 and 2, Groups IIB and H2

Applications

- Battery Storage Areas
- Chemical Plants
- Coal Handling Facilities
- Dry Cleaning Plants
- Gasoline Fueling/Storage Areas
- Grain Elevators
- Oil Refineries
- Paint Spraying/Storage Areas
- Petrochemical Plants

Indeeco's explosion-proof convector is designed to provide a heavy duty and corrosion resistant heat source. Features include:

- Wide Selection of Sizes: Four compact sizes to fit any space with ratings from 500 to 9,500 watts.
- Sloped Top Cabinet: Prevents objects from being set on top of the convector, which can restrict airflow and cause overheating.
- Single and Three-Phase: Unique design provides single and balanced three-phase loads in a single element.
- Gas and Dust Atmospheres: Three listings cover the entire field, two for hazardous gases and vapors and one for dust particles.
- Wet Locations: All unit sizes available with iridite-coated elements and powder-coated frames for NEMA 3 wet locations.

Standard Construction Features

Element – Grade A Nickel-Chromium heating coils are insulated with ceramics and magnesium oxide from the copper heater tube and fitted with large aluminum fins locked in place.

Cabinet – Heavy gauge galvanized steel cabinet is painted with a beige powder coat for durability. Cabinet should be mounted at least 6 inches (152 mm) above the floor. Factory-furnished wall brackets make installation easy.

Thermal Protection – A linear limit, automatic reset thermal cutout is built into every unit.

Complete Electrical Package – For larger single-phase and all three-phase units, a built-on contactor and transformer option package are available.

Convector

Electrical Package Options

All single-phase heaters rated over 22 amps or 277 volts and all three-phase heaters require a magnetic contactor. Some electrical combinations will also require a control transformer.

To simplify field installation, these accessories are factory-mounted on the heater cabinet and factory pre-wired (not available on Size 1 convectors).

| Code | Option | Description | Availability Code (2) |
|------|---|---|-----------------------|
| B2 | Electric Control Option (1) (without thermostat) | Classes I and II, Groups B, C, E, D, F and G includes contactor and transformer (as required). Required for all three-phase and single-phase heaters over 22 amps or 277 volts | AS |
| B2S1 | Thermostat & Controls (1) | Classes I and II, Groups C, D, E, F and G includes thermostat, contactor and transformer (as required). | AS |
| B3 | Thermostat & Controls (Group B) (1) | Classes I and II, Groups B, C, D, E, F and G includes thermostat, contactor and transformer (as required). Thermostat has internal set point. | AS |
| S1 | Thermostat Only (1) | Classes I and II, Groups C, D, E, F and G single-phase heaters rated up to 22 amps at 120-277 volts. Use remote room thermostat Catalog Number 1007002 for Size 1 convectors. | AS |
| S2 | Thermostat Only (Group B) (1) | Classes I and II, Groups B, C, D, E, F and G single-phase heaters rated up to 22 amps at 120-277 volts. Thermostat has internal set point. Use remote room thermostat Catalog Number 1024754 for Size 1 convectors. | AS |

(1) These options are not available on Size 1 Convectors.

Custom Option

| Code | Option | Description | Availability Code (2) |
|------|--|---|-----------------------|
| C1 | Wet Locations | Type 3 rated construction. Includes Iridite coated element assembly and gasketed terminal box. Not available with options B2/S1, S1, or S2. | C |
| C2 | Corrosive-Resistant Stainless Steel Construction | Type 3 rated construction with addition of stainless steel cabinet. Includes Iridite coated element assembly and gasketed terminal box. Not available with options B2/S1, S1, or S2. ONLY the cabinet is upgraded to stainless steel. | C |

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

Accessory Remote Thermostat

| Catalog Number | Switch Type | Description | Type | Ratings | Temp. Range °F (°C) | Availability Code |
|----------------|---|---|------|-------------------------------|---------------------|-------------------|
| 1007002 | Bimetal | Class 1, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G | SPDT | 125-277V, 22A | 50-90 (10-32) | AS |
| 1024754 | Bulb and Capillary with Internal Set Point Adjustment | Class 1, Div. 1, Groups B, C & D Class II, Div. 1, Groups E, F, & G | SPDT | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |
| 1025396 | Bulb and Capillary with Internal Set Point Adjust- ment | Corrosion-Resistant Class 1, Div. 1, Groups B, C, & D Class II, Div. 1, Groups E, F & G | SPST | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |

Convector

Class I, Divisions 1 & 2, Groups B, C & D
Ignition Temperature Code T2A, 536°F (280°C)
Class I, Zones 1 and 2 Groups IIB + H2

Use these heaters when ordering heaters without optional built-on controls

| KW | Volts (1) | Phase | Total Amps | Unit Size | Catalog Number | Availability Code (3) | Optional Built-on Controls | |
|-----|-----------|-------|------------|-----------|----------------|-----------------------|----------------------------|---|
| | | | | | | | Controls Only | Thermostat Only (3) or Thermostat with Controls |
| 0.5 | 120 | 1 | 4.2 | 1 | 254-F0310052B | AS | N/A | 1024754 |
| | 208 | 1 | 2.4 | | 254-F0310052C | | N/A | 1024754 |
| | 240 | 1 | 2.1 | | 254-F0310052J | | N/A | 1024754 |
| | 277 | 1 | 1.8 | | 254-F0310052N | | N/A | 1024754 |
| 1 | 120 | 1 | 8.3 | 1 | 254-F0310102B | | N/A | 1024754 |
| | 208 | 1 | 4.8 | | 254-F0310102C | | N/A | 1024754 |
| | 240 | 1 | 4.2 | | 254-F0310102J | | N/A | 1024754 |
| | 277 | 1 | 3.6 | | 254-F0310102N | | N/A | 1024754 |
| 1.8 | 120 | 1 | 15.0 | 2 | 254-F0320182B | | N/R | S2 |
| | 208 | 1 | 8.7 | | 254-F0320182C | | N/R | S2 |
| | 240 | 1 | 7.5 | | 254-F0320182J | | N/R | S2 |
| | 277 | 1 | 6.5 | | 254-F0320182N | | N/R | S2 |
| | 347 | 1 | 5.2 | | 254-F0320182I | | B2 | B3 |
| | 480 | 3 | 2.2 | | 254-F0320182U | | B2 | B3 |
| 2.5 | 600 | 3 | 1.8 | 2 | 254-F0320182Z | | B2 | B3 |
| | 208 | 1 | 12.0 | | 254-F0320252C | | N/R | S2 |
| | 208 | 3 | 6.9 | | 254-F0320252D | B2 | B3 | |
| | 240 | 1 | 10.4 | | 254-F0320252J | N/R | S2 | |
| | 277 | 1 | 9.0 | | 254-F0320252N | N/R | S2 | |
| | 347 | 1 | 7.2 | | 254-F0320252I | B2 | B3 | |
| 3.6 | 480 | 3 | 3.0 | 3 | 254-F0320252U | B2 | B3 | |
| | 600 | 3 | 2.4 | | 254-F0320252Z | B2 | B3 | |
| | 208 | 1 | 17.3 | | 254-F0330362C | N/R | S2 | |
| | 208 | 3 | 10.0 | | 254-F0330362D | B2 | B3 | |
| | 240 | 1 | 15.0 | | 254-F0330362J | N/R | S2 | |
| | 277 | 1 | 13.0 | | 254-F0330362N | N/R | S2 | |
| 4.4 | 347 | 1 | 10.4 | 3 | 254-F0330362I | B2 | B3 | |
| | 480 | 3 | 4.3 | | 254-F0330362U | B2 | B3 | |
| | 600 | 3 | 3.5 | | 254-F0330362Z | B2 | B3 | |
| | 208 | 3 | 12.2 | | 254-F0330442D | B2 | B3 | |
| | 240 | 1 | 18.3 | | 254-F0330442J | N/R | S2 | |
| | 277 | 1 | 15.9 | | 254-F0330442N | N/R | S2 | |
| 6.5 | 347 | 1 | 12.7 | 4 | 254-F0330442I | B2 | B3 | |
| | 480 | 3 | 5.3 | | 254-F0330442U | B2 | B3 | |
| | 600 | 3 | 4.3 | | 254-F0330442Z | B2 | B3 | |
| | 208 | 3 | 18.0 | | 254-F0340652D | B2 | B3 | |
| | 240 | 3 | 27.1 | | 254-F0340652J | B2 | B3 | |
| | 277 | 1 | 23.5 | | 254-F0340652N | B2 | B3 | |
| 7.5 | 347 | 1 | 18.7 | 4 | 254-F0340652I | B2 | B3 | |
| | 480 | 3 | 7.8 | | 254-F0340652U | B2 | B3 | |
| | 600 | 3 | 6.3 | | 254-F0340652Z | B2 | B3 | |
| | 208 | 3 | 20.8 | | 254-F0340752D | B2 | B3 | |
| | 240 | 1 | 31.3 | | 254-F0340752J | B2 | B3 | |
| | 277 | 1 | 27.1 | | 254-F0340752N | B2 | B3 | |
| 9.5 | 347 | 1 | 21.6 | 4 | 254-F0340752I | B2 | B3 | |
| | 480 | 3 | 9.0 | | 254-F0340752U | B2 | B3 | |
| | 600 | 3 | 7.2 | | 254-F0340752Z | B2 | B3 | |
| | 208 | 3 | 26.4 | | 254-F0340952D | B2 | B3 | |
| | 240 | 1 | 39.6 | | 254-F0340952J | B2 | B3 | |
| | 277 | 1 | 34.3 | | 254-F0340952N | B2 | B3 | |
| 9.5 | 347 | 1 | 27.4 | 4 | 254-F0340952I | B2 | B3 | |
| | 480 | 3 | 11.4 | | 254-F0340952U | B2 | B3 | |
| | 600 | 3 | 9.1 | | 254-F0340952Z | B2 | B3 | |
| | | | | | | | | |

(1) Convector are 60/50 Hz rated
 (2) AS = Assembly Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.
 (3) Thermostat only is load carrying or remote.

Convector

Class I, Divisions 1 & 2, Groups C & D
Class I, Zones 1 and 2 Groups IIB
Ignition Temperature Code T2A, 536°F (280°C)

| KW | Volts (1) | 3Phase | Total Amps | Unit Size | Catalog Number | Availability Code (3) | Optional Built-on Controls | | |
|-----|-----------|--------|---------------|-----------|----------------|-----------------------|----------------------------|---|------|
| | | | | | | | Controls Only | Thermostat Only (3) or Thermostat with Controls | |
| 0.5 | 120 | 1 | 4.2 | 1 | 254-F0310053B | AS | N/A | 1007002 | |
| | 208 | 1 | 2.4 | | 254-F0310053C | | N/A | 1007002 | |
| | 240 | 1 | 2.1 | | 254-F0310053J | | N/A | 1007002 | |
| | 277 | 1 | 1.8 | | 254-F0310053N | | N/A | 1007002 | |
| 1 | 120 | 1 | 8.3 | 1 | 254-F0310103B | | N/A | 1007002 | |
| | 208 | 1 | 4.8 | | 254-F0310103C | | N/A | 1007002 | |
| | 240 | 1 | 4.2 | | 254-F0310103J | | N/A | 1007002 | |
| | 277 | 1 | 3.6 | | 254-F0310103N | | N/A | 1007002 | |
| 1.8 | 120 | 1 | 15.0 | 2 | 254-F0320183B | | N/R | S1 | |
| | 208 | 1 | 8.7 | | 254-F0320183C | | N/R | S1 | |
| | 240 | 1 | 7.5 | | 254-F0320183J | | N/R | S1 | |
| | 277 | 1 | 6.5 | | 254-F0320183N | | N/R | S1 | |
| | 347 | 1 | 5.2 | | 254-F0320183I | | B2 | B2S1 | |
| | 480 | 3 | 2.2 | | 254-F0320183U | | B2 | B2S1 | |
| 2.5 | 600 | 3 | 1.8 | 2 | 254-F0320183Z | | B2 | B2S1 | |
| | 208 | 1 | 12.0 | | 254-F0320253C | | N/R | S1 | |
| | 208 | 3 | 6.9 | | 254-F0320253D | | B2 | B2S1 | |
| | 240 | 1 | 10.4 | | 254-F0320253J | | N/R | S1 | |
| | 277 | 1 | 9.0 | | 254-F0320253N | | N/R | S1 | |
| | 347 | 1 | 7.2 | | 254-F0320253I | | B2 | B2S1 | |
| 3.6 | 480 | 3 | 3.0 | 2 | 254-F0320253U | | B2 | B2S1 | |
| | 600 | 3 | 2.4 | | 254-F0320253Z | | B2 | B2S1 | |
| | 208 | 1 | 17.3 | | 3 | | 254-F0330363C | N/R | S1 |
| | 208 | 3 | 10.0 | | | | 254-F0330363D | B2 | B2S1 |
| | 240 | 1 | 15.0 | | | | 254-F0330363J | N/R | S1 |
| | 277 | 1 | 13.0 | | | | 254-F0330363N | N/R | S1 |
| 347 | 1 | 10.4 | 254-F0330363I | B3 | | | B3S1 | | |
| 480 | 3 | 4.3 | 254-F0330363U | B2 | | | B2S1 | | |
| 4.4 | 600 | 3 | 3.5 | 3 | 254-F0330363Z | | B2 | B2S1 | |
| | 208 | 3 | 12.2 | | 254-F0330443D | | B2 | B2S1 | |
| | 240 | 1 | 18.3 | | 254-F0330443J | | N/R | S1 | |
| | 277 | 1 | 15.9 | | 254-F0330443N | | N/R | S1 | |
| | 347 | 1 | 12.7 | | 254-F0330443I | | B2 | B3S1 | |
| | 480 | 3 | 5.3 | | 254-F0330443U | | B2 | B2S1 | |
| 6.5 | 600 | 3 | 4.3 | 4 | 254-F0330443Z | | B2 | B2S1 | |
| | 208 | 3 | 18.0 | | 254-F0340653D | | B2 | B2S1 | |
| | 240 | 1 | 27.1 | | 254-F0340653J | | B2 | B2S1 | |
| | 277 | 1 | 23.5 | | 254-F0340653N | | B2 | B2S1 | |
| | 347 | 1 | 18.7 | | 254-F0340653I | | B2 | B2S1 | |
| | 480 | 3 | 7.8 | | 254-F0340653U | | B2 | B2S1 | |
| 7.5 | 600 | 3 | 6.3 | 4 | 254-F0340653Z | | B2 | B2S1 | |
| | 208 | 3 | 20.8 | | 254-F0340753D | | B2 | B2S1 | |
| | 240 | 1 | 31.3 | | 254-F0340753J | | B2 | B2S1 | |
| | 277 | 1 | 27.1 | | 254-F0340753N | | B2 | B2S1 | |
| | 347 | 1 | 21.6 | | 254-F0340753I | | B2 | B2S1 | |
| | 480 | 3 | 9.0 | | 254-F0340753U | | B2 | B2S1 | |
| 9.5 | 600 | 3 | 7.2 | 4 | 254-F0340753Z | | B2 | B2S1 | |
| | 208 | 3 | 26.4 | | 254-F0340953D | | B2 | B2S1 | |
| | 240 | 1 | 39.6 | | 254-F0340953J | | B2 | B2S1 | |
| | 277 | 1 | 34.3 | | 254-F0340953N | | B2 | B2S1 | |
| | 347 | 1 | 27.4 | | 254-F0340953I | | B2 | B2S1 | |
| | 480 | 3 | 11.4 | | 254-F0340953U | | B2 | B2S1 | |
| | 600 | 3 | 9.1 | | 254-F0340953Z | | B2 | B2S1 | |

(1) Convectors are 60/50 Hz rated

(2) AS = Assembly Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) Thermostat only is load carrying or remote.

Convector

Class I, Divisions 1 & 2, Groups B, C & D
Ignition Temperature Code T3A, 356°F (180°C)
Class I, Zones 1 and 2 Groups IIB + H2

Use these heaters when ordering heaters without optional built-on controls

| KW | Volts (1) | Phase | Total Amps | Unit Size | Catalog Number | Availability Code (3) | Optional Built-on Controls | |
|-----|-----------|-------|------------|-----------|----------------|-----------------------|----------------------------|---|
| | | | | | | | Controls Only | Thermostat Only (3) or Thermostat with Controls |
| 0.5 | 120 | 1 | 4.2 | 1 | 254-F0610052B | AS | N/A | 1024754 |
| | 208 | 1 | 2.4 | | 254-F0610052C | | N/A | 1024754 |
| | 240 | 1 | 2.1 | | 254-F0610052J | | N/A | 1024754 |
| | 277 | 1 | 1.8 | | 254-F0610052N | | N/A | 1024754 |
| 1.4 | 120 | 1 | 11.7 | 2 | 254-F0620142B | | N/R | S2 |
| | 208 | 1 | 6.7 | | 254-F0620142C | | N/R | S2 |
| | 240 | 1 | 5.8 | | 254-F0620142J | | N/R | S2 |
| | 277 | 1 | 5.1 | | 254-F0620142N | | N/R | S2 |
| | 347 | 1 | 4.0 | | 254-F0620142I | | B2 | B3 |
| 2.3 | 120 | 1 | 19.2 | 3 | 254-F0630232B | | N/R | S2 |
| | 208 | 1 | 11.1 | | 254-F0630232C | | N/R | S2 |
| | 208 | 3 | 6.4 | | 254-F0630232D | | B2 | B3 |
| | 240 | 1 | 9.6 | | 254-F0630232J | | N/R | S2 |
| | 277 | 1 | 8.3 | | 254-F0630232N | | N/R | S2 |
| | 347 | 1 | 6.6 | | 254-F0630232I | | B2 | B3 |
| | 480 | 3 | 2.8 | | 254-F0630232U | | B2 | B3 |
| | 600 | 3 | 2.2 | | 254-F0630232Z | | B2 | B3 |
| 3.2 | 208 | 1 | 15.4 | 4 | 254-F0640322C | | N/R | S2 |
| | 208 | 3 | 8.9 | | 254-F0640322D | | B2 | B3 |
| | 240 | 1 | 13.3 | | 254-F0640322J | | N/R | S2 |
| | 277 | 1 | 11.6 | | 254-F0640322N | | N/R | S2 |
| | 347 | 1 | 9.2 | | 254-F0640322I | | B2 | B3 |
| | 480 | 3 | 3.8 | | 254-F0640322U | | B2 | B3 |
| | 600 | 3 | 3.1 | | 254-F0640322Z | | B2 | B3 |
| 5.0 | 208 | 3 | 13.9 | 4 | 254-F0640502D | | B2 | B3 |
| | 240 | 1 | 20.8 | | 254-F0640502J | | N/R | S2 |
| | 277 | 1 | 18.1 | | 254-F0640502N | | N/R | S2 |
| | 347 | 1 | 14.4 | | 254-F0640502I | | B2 | B3 |
| | 480 | 3 | 6.0 | | 254-F0640502U | | B2 | B3 |
| | 600 | 3 | 4.8 | | 254-F0640502Z | | B2 | B3 |

(1) Convectors are 60/50 Hz rated
(2) AS = Assembly Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.
(3) Thermostat only is load carrying or remote.

Convector

Class I, Divisions 1 & 2, Groups C & D
Class I, Zones 1 and 2 Groups IIB
Ignition Temperature Code T3A, 356°F (180°C)

| KW | Volts (1) | Phase | Total Amps | Unit Size | Catalog Number | Availability Code (3) | Optional Built-on Controls | |
|-----|-----------|-------|------------|-----------|----------------|-----------------------|----------------------------|---|
| | | | | | | | Controls Only | Thermostat Only (3) or Thermostat with Controls |
| 0.5 | 120 | 1 | 4.2 | 1 | 254-F0610053B | AS | N/A | 1007002 |
| | 208 | 1 | 2.4 | | 254-F0610053C | | N/A | 1007002 |
| | 240 | 1 | 2.1 | | 254-F0610053J | | N/A | 1007002 |
| | 277 | 1 | 1.8 | | 254-F0610053N | | N/A | 1007002 |
| 1.4 | 120 | 1 | 11.7 | 2 | 254-F0620143B | | N/R | S1 |
| | 208 | 1 | 6.7 | | 254-F0620143C | | N/R | S1 |
| | 240 | 1 | 5.8 | | 254-F0620143J | | N/R | S1 |
| | 277 | 1 | 5.1 | | 254-F0620143N | | N/R | S1 |
| | 347 | 1 | 4.0 | | 254-F0620143I | | B2 | B2S1 |
| 2.3 | 120 | 1 | 19.2 | 3 | 254-F0630233B | | N/R | S1 |
| | 208 | 1 | 11.1 | | 254-F0630233C | | N/R | S1 |
| | 208 | 3 | 6.4 | | 254-F0630233D | | B2 | B2S1 |
| | 240 | 1 | 9.6 | | 254-F0630233J | | N/R | S1 |
| | 277 | 1 | 8.3 | | 254-F0630233N | | N/R | S1 |
| | 347 | 1 | 6.6 | | 254-F0630233I | | B2 | B2S1 |
| | 480 | 3 | 2.8 | | 254-F0630233U | | B2 | B2S1 |
| | 600 | 3 | 2.2 | | 254-F0630233Z | B2 | B2S1 | |
| 3.2 | 208 | 1 | 15.4 | 4 | 254-F0640323C | N/R | S1 | |
| | 208 | 3 | 8.9 | | 254-F0640323D | B2 | B2S1 | |
| | 240 | 1 | 13.3 | | 254-F0640323J | N/R | S1 | |
| | 277 | 1 | 11.6 | | 254-F0640323N | N/R | S1 | |
| | 347 | 1 | 9.2 | | 254-F0640323I | B2 | B2S1 | |
| | 480 | 3 | 3.8 | | 254-F0640323U | B2 | B2S1 | |
| | 600 | 3 | 3.1 | | 254-F0640323Z | B2 | B2S1 | |
| 5.0 | 208 | 3 | 13.9 | 4 | 254-F0640503D | B2 | B2S1 | |
| | 240 | 1 | 20.8 | | 254-F0640503J | N/R | S1 | |
| | 277 | 1 | 18.1 | | 254-F0640503N | N/R | S1 | |
| | 347 | 1 | 14.4 | | 254-F0640503I | B2 | B2S1 | |
| | 480 | 3 | 6.0 | | 254-F0640503U | B2 | B2S1 | |
| | 600 | 3 | 4.8 | | 254-F0640503Z | B2 | B2S1 | |

(1) Convector is 60/50 Hz rated

(2) AS = Assembly Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) Thermostat only is load carrying or remote.

Convector

Class II, Divisions 1 & 2, Groups E, F & G Ignition Temperature Code T3C, 320°F (160°C)

| KW | Volts (1) | Phase | Total Amps | Unit Size | Catalog Number | Availability Code (3) | Optional Built-on Controls | |
|-----|-----------|-------|------------|-----------|----------------|-----------------------|----------------------------|---|
| | | | | | | | Controls Only | Thermostat Only (3) or Thermostat with Controls |
| 0.5 | 120 | 1 | 4.2 | 1 | 254-F0810054B | AS | N/A | 1007002 |
| | 208 | 1 | 2.4 | | 254-F0810054C | | N/A | 1007002 |
| | 240 | 1 | 2.1 | | 254-F0810054J | | N/A | 1007002 |
| | 277 | 1 | 1.8 | | 254-F0810054N | | N/A | 1007002 |
| 1.0 | 120 | 1 | 8.3 | 2 | 254-F0820104B | | N/R | S1 |
| | 208 | 1 | 4.8 | | 254-F0820104C | | N/R | S1 |
| | 240 | 1 | 4.2 | | 254-F0820104J | | N/R | S1 |
| | 277 | 1 | 3.6 | | 254-F0820104N | | N/R | S1 |
| | 347 | 1 | 2.9 | | 254-F0820104I | | B2 | B2S1 |
| 1.7 | 120 | 1 | 14.2 | 3 | 254-F0830174B | | N/R | S1 |
| | 208 | 1 | 8.2 | | 254-F0830174C | | N/R | S1 |
| | 208 | 3 | 4.7 | | 254-F0830174D | | B2 | B2S1 |
| | 240 | 1 | 7.1 | | 254-F0830174J | N/R | S1 | |
| | 277 | 1 | 6.1 | | 254-F0830174N | N/R | S1 | |
| | 347 | 1 | 4.9 | | 254-F0830174I | B2 | B2S1 | |
| | 480 | 3 | 2 | | 254-F0830174U | B2 | B2S1 | |
| | 600 | 3 | 1.6 | | 254-F0830174Z | B2 | B2S1 | |
| 3.2 | 208 | 1 | 15.4 | 4 | 254-F0840324C | N/R | S1 | |
| | 208 | 3 | 8.9 | | 254-F0840324D | B2 | B2S1 | |
| | 240 | 1 | 13.3 | | 254-F0840324J | N/R | S1 | |
| | 277 | 1 | 11.6 | | 254-F0840324N | N/R | S1 | |
| | 347 | 1 | 9.2 | | 254-F0840324I | B2 | B2S1 | |
| | 480 | 3 | 3.8 | | 254-F0840324U | B2 | B2S1 | |
| | 600 | 3 | 3.1 | | 254-F0840324Z | B2 | B2S1 | |

(1) Convectors are 60/50 Hz rated

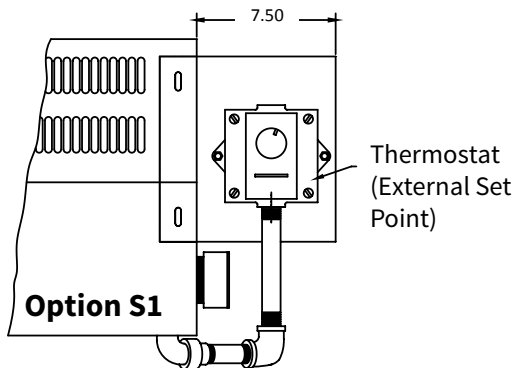
(2) AS = Assembly Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) Thermostat only is load carrying or remote.

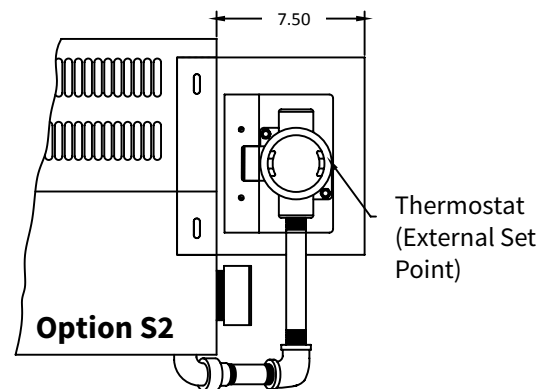
Accessory Remote Thermostat

| Catalog Number | Switch Type | Description | Type | Ratings | Temp. Range °F (°C) | Availability Code |
|----------------|---|---|------|-------------------------------|---------------------|-------------------|
| 1007002 | Bimetal | Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G | SPDT | 125-277V, 22A | 50-90 (10-32) | AS |
| 1024754 | Bulb and Capillary with Internal Set Point Adjustment | Class I, Div. 1, Groups B, C & D Class II, Div. 1, Groups E, F, & G | SPDT | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |
| 1025396 | Bulb and Capillary with Internal Set Point Adjustment | Corrosion-Resistant Class I, Div. 1, Groups B, C, & D Class II, Div. 1, Groups E, F & G | SPST | 120-240V, 25A 277V, 22A | 40-120 (5-49) | |

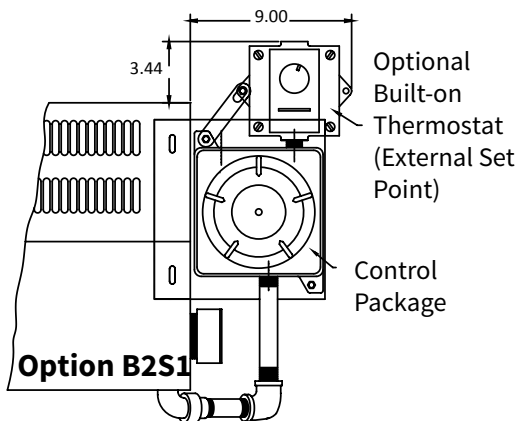
Convector



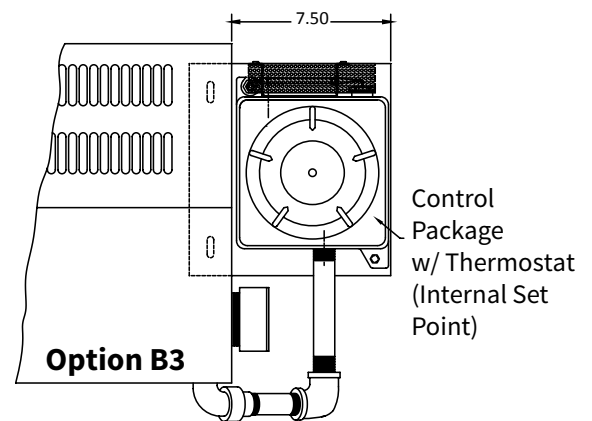
Thermostat is rated for Class I, Groups C and D
Class II Groups E, F and G



Thermostat is rated for Class I, Groups B, C and D
Class II Groups E, F and G



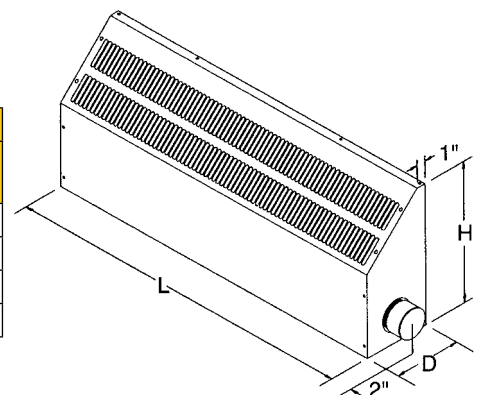
Thermostat is rated for Class I, Groups C and D
Class II Groups E, F and G



Thermostat is rated for Class I, Groups B, C and D
Class II Groups E, F and G

Dimensions and Weights

| Unit Size | Dimensions - In. (cm) | | | Weight - Lb (kg) |
|-----------|-----------------------|------------|------------|------------------|
| | Length (L) | Height (H) | Depth (D) | Without Controls |
| 1 | 26 (66) | 6 (15) | 4-1/2 (11) | 13 (5.9) |
| 2 | 26 (66) | 16 (41) | 8 (20) | 27 (12.2) |
| 3 | 39 (99) | 16 (41) | 8 (20) | 36 (16.3) |
| 4 | 67-1/2 (171) | 16 (41) | 8 (20) | 60 (27.2) |



Comparison Chart



| Features | Washdown TRIAD® | IUH | UHIR | UCI | Vertical UVI |
|------------------------------|--|--|--|---|--------------------------------------|
| Typical Applications | Food processing plants Marine duty Wastewater treatment plants | Factories Warehouses | Factories Mechanical rooms Workshops | Mechanical rooms Warehouses Workshops | Gyms High bay areas Warehouses |
| KW Range | 2 to 47 | 3 to 38.4 | 3.3 to 50 | 2 to 60 | 5 to 30 |
| Voltages | up to 600/3 | Up to 480/3 | Up to 480/3 | Up to 480/3 | Up to 480/3 |
| Airflow CFM | Up to 2400 | Up to 1774 | Up to 3100 | Up to 2000 | Up to 2300 |
| Discharge | Horizontal | Horizontal | Horizontal or Vertical | Horizontal or Vertical | Vertical |
| Element Type | Stainless steel finned tubular | Stainless steel finned tubular | Stainless steel finned tubular | Stainless steel tubular or steel finned tubular | Steel finned tubular |
| Standard Construction | 16 gauge stainless steel shroud and non-metallic NEMA 4X control enclosure | 16 gauge galvanized steel shroud and control enclosure | 20-14 gauge (depending on size) galvanized steel cabinet | 8 & 20 gauge steel cabinet | 18 gauge galvanized steel cabinet |
| Finish | Stainless steel | Beige polyester powder paint | Camel polyester powder paint | Almond polyester powder paint | Almond polyester powder paint |
| Mounting | Ceiling or wall | Ceiling or wall | Ceiling or wall | Ceiling or wall | Ceiling |
| Agency Approvals | cUL _{us} & ABS | cUL _{us} | cUL _{us} | CSA _{us} | CSA |

Washdown/Corrosion Resistant Unit Heater



American
Bureau of
Shipping

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, powder-coated aluminum fan blade and nonmetallic NEMA 4X terminal enclosure resist corrosion found in sewage treatment plants, swimming pool areas, 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.

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

Standard Construction Features

Heating Elements – Industrial grade, Type 316 stainless steel tubular elements with stainless steel fins, manufactured by Indeeco.

Fan Motor Assembly – Totally enclosed, epoxy coated, 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 a powder-coated, aluminum fan blade suitable for corrosive salt spray environments.

Housing – Heating elements and motor are enclosed in a round, heavy 16-gauge 304 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, 304 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, transformer for 24-volt control circuit, terminal block for field wiring and a separate motor contactor (when required).

Mounting Bracket – The heater comes complete with a 304 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.

TRIAD®

Washdown/Corrosion Resistant Unit Heater

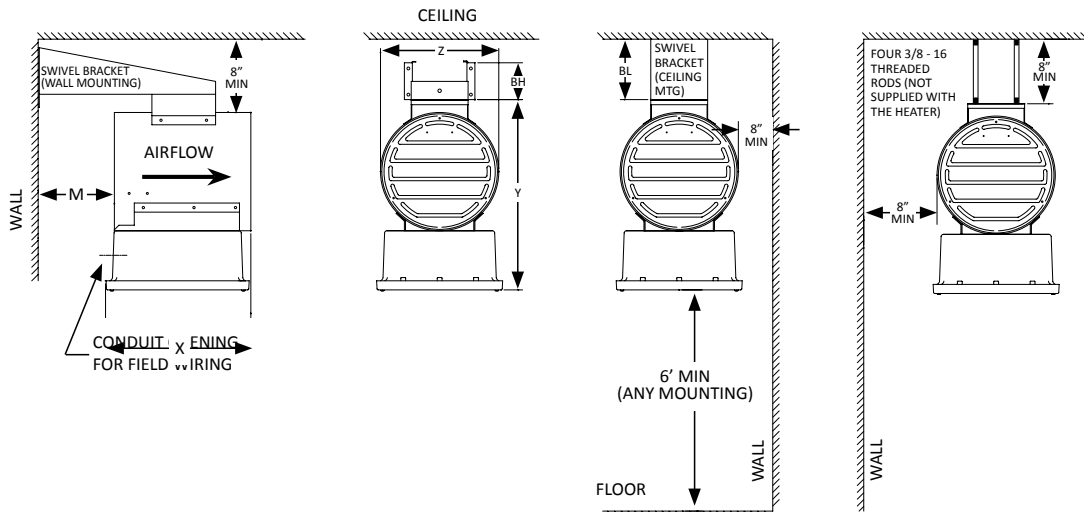
Factory Built-in Options

| Code | Description | Availability Code (2) |
|------|--|-----------------------|
| B | Delete swivel mounting bracket. Heater installs from the ceiling with field furnished threaded rods. | AS |
| C | Epoxy painted stainless steel parts, housing, grilles and fan blade | C |
| D | Power disconnect switch | AS |
| E | Monel finned tubular elements | C |
| F8 | Fan motor fusing with disconnecting contactor | C |
| L | "Heater on" pilot light | AS |
| M | Secondary manual reset overtemperature cutout. Required for U.S. Coast Guard and ABS Approved designs. | AS |
| S | Three-position selector switch (heater-standby-fan) | AS |
| T | 1- Stage Built-in thermostat 40 to 100° F (5 to 38° C) range | AS |
| | 2- Stage Built-in thermostat 40 to 120° F (5 to 49° C) range (Option "X" required) | C |
| V | 120 volt control circuit | AS |
| X | 2-Stage Control | C |

(2) AS = Assembly Stock, C = Custom. Assembly Stock heaters ordered with custom options are subject to longer delivery.

Dimensions, Airflow and Weights

| Dimensions, Airflows and Weights | | KW | | |
|----------------------------------|----------------------------------|-------------|-------------|-------------|
| | | 2 - 7.5 | 9 - 12 | 12.5 - 47 |
| Overall Heater Dimensions | "X" Inch (cm) | 15-1/2 (39) | 15-1/2 (39) | 26 (66) |
| | "Y" Inch (cm) | 21-1/2 (55) | 21-1/2 (55) | 28 (71) |
| | "Z" Inch (cm) | 13 (33) | 13 (33) | 20 (51) |
| Mounting Hole Dimensions | "BH" Inch (cm) | 4-1/4 (11) | 4-1/4 (11) | 7-1/8 (18) |
| | "BL" Inch (cm) | 19-1/2 (50) | 19-1/2 (50) | 22-1/4 (57) |
| | "M" Inch (cm) | 8-1/2 (22) | 8-1/2 (22) | 3-1/4 (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) |



Washdown/Corrosion Resistant Unit Heater

Remote Room Thermostat

| Catalog Number | Switch Type | Ratings | Type | Tamper-proof | Thermo-meter | Amps | Pilot Duty | Temperature Range °F (°C) |
|----------------|--------------|---------|--------|--------------|--------------|------------------------------|------------|---------------------------|
| 1004328 | Bulb | NEMA 4X | SPDT | No | No | 25A @ 120-240V 22A @ 277V | 125VA | 40-110 (5-43) |
| 1026347 | 2-Stage Bulb | NEMA 4X | 2 SPDT | No | No | 25A @ 120-240V 22A @ 277V | 125VA | 40-100 (5-38) |



1004328



1026347

TRIAD® Unit Heater Listing

For Non-Hazardous Areas

| KW | Volts | Ph | Total Amps (1) | Approximate Air Temperature Rise °F (°C) | Motor | | | Catalog Number | 2-Stage Control | Availability Code (2)(3) |
|-----|-------|----|----------------|--|-------|-------|----------------|----------------|-----------------|--------------------------|
| | | | | | HP | Volts | Ph | | | |
| 2 | 120 | 1 | 21 | 9 (5) | 1/4 | 120 | 1 | 234-U11R-0020B | 1B | AS |
| | 208 | 1 | 12 | 9 (5) | 1/4 | 208 | 1 | 234-U11R-0020C | 1B | |
| | 240 | 1 | 11 | 9 (5) | 1/4 | 240 | 1 | 234-U11R-0020J | 1B | |
| | 277 | 1 | 10 | 9 (5) | 1/4 | 277 | 1 | 234-U11R-0020N | 1B | |
| | 347 | 1 | 7 | 9 (5) | 1/4 | 347 | 1 | 234-U11R-0020I | 1B | |
| 3 | 120 | 1 | 29 | 14 (8) | 1/4 | 120 | 1 | 234-U11N-0030B | 1A | |
| | 208 | 1 | 17 | 14 (8) | 1/4 | 208 | 1 | 234-U11N-0030C | 1A | |
| | 240 | 1 | 15 | 14 (8) | 1/4 | 240 | 1 | 234-U11N-0030J | 1A | |
| | 277 | 1 | 13 | 14 (8) | 1/4 | 277 | 1 | 234-U11N-0030N | 1A | |
| | 347 | 1 | 11 | 14 (8) | 1/4 | 347 | 1 | 234-U11N-0030I | 1A | |
| | 480 | 1 | 8 | 14 (8) | 1/4 | 480 | 1 | 234-U11N-0030T | 1A | |
| | 208 | 3 | 11 | 14 (8) | 1/4 | 208 | 1 | 234-U11N-0030D | 1A | |
| | 240 | 3 | 10 | 14 (8) | 1/4 | 240 | 1 | 234-U11N-0030K | 1A | |
| | 480 | 3 | 5 | 14 (8) | 1/4 | 480 | 1 | 234-U11N-0030U | 1A | |
| 600 | 3 | 4 | 14 (8) | 1/4 | 600 | 1 | 234-U11N-0030Z | 1A | | |
| 5 | 208 | 1 | 27 | 24 (13) | 1/4 | 208 | 1 | 234-U11R-0050C | 1B | |
| | 240 | 1 | 23 | 24 (13) | 1/4 | 240 | 1 | 234-U11R-0050J | 1B | |
| | 277 | 1 | 20 | 24 (13) | 1/4 | 277 | 1 | 234-U11R-0050N | 1B | |
| | 347 | 1 | 17 | 24 (13) | 1/4 | 347 | 1 | 234-U11R-0050I | 1B | |
| | 480 | 1 | 12 | 24 (13) | 1/4 | 480 | 1 | 234-U11R-0050T | 1B | |
| | 208 | 3 | 16 | 24 (13) | 1/4 | 208 | 1 | 234-U11N-0050D | 1A | |
| | 240 | 3 | 15 | 24 (13) | 1/4 | 240 | 1 | 234-U11N-0050K | 1A | |
| | 480 | 3 | 8 | 24 (13) | 1/4 | 480 | 1 | 234-U11N-0050U | 1A | |
| 600 | 3 | 6 | 24 (13) | 1/4 | 600 | 1 | 234-U11N-0050Z | 1A | | |
| 7.5 | 208 | 1 | 39 | 35 (19) | 1/4 | 208 | 1 | 234-U11N-0080C | 1A | |
| | 240 | 1 | 34 | 35 (19) | 1/4 | 240 | 1 | 234-U11N-0080J | 1A | |
| | 277 | 1 | 29 | 35 (19) | 1/4 | 277 | 1 | 234-U11N-0080N | 1A | |
| | 347 | 1 | 24 | 35 (19) | 1/4 | 347 | 1 | 234-U11N-0080I | 1A | |
| | 480 | 1 | 17 | 35 (19) | 1/4 | 480 | 1 | 234-U11N-0080T | 1A | |
| | 208 | 3 | 23 | 35 (19) | 1/4 | 208 | 1 | 234-U11N-0080D | 1A | |
| | 240 | 3 | 21 | 35 (19) | 1/4 | 240 | 1 | 234-U11N-0080K | 1A | |
| | 480 | 3 | 11 | 35 (19) | 1/4 | 480 | 1 | 234-U11N-0080U | 1A | |
| | 600 | 3 | 9 | 35 (19) | 1/4 | 600 | 1 | 234-U11N-0080Z | 1A | |

(1) Total Amps = Heating element amps and motor amps.
 (2) Availability Code: AS = Assembly Stock,
 (3) Stock heaters ordered with custom options subject to longer delivery.

NOTE: 2-Stage heaters can be field wired as single stage.
 1A = Optional 2-stage control, unbalanced (option 'X').
 1B = Optional 2-stage control, balanced (option 'X')

TRIAD®

Washdown/Corrosion Resistant Unit Heater

TRIAD® Unit Heater Listing (continued) For Non-Hazardous Areas

| KW | Volts | Ph | Total Amps (1) | Approximate Air Temperature Rise °F (°C) | Motor | | | Catalog Number | 2-Stage Control | Availability Code (2)(3) |
|------|-------|----|----------------|--|-------|-------|----------------|----------------|-----------------|--------------------------|
| | | | | | HP | Volts | Ph | | | |
| 9 | 208 | 1 | 46 | 20 (11) | 1/4 | 208 | 1 | 234-U11N-0090C | 1A | AS |
| | 240 | 1 | 40 | 20 (11) | 1/4 | 240 | 1 | 234-U11N-0090J | 1A | |
| | 277 | 1 | 35 | 20 (11) | 1/4 | 277 | 1 | 234-U11N-0090N | 1A | |
| | 347 | 1 | 29 | 20 (11) | 1/4 | 347 | 1 | 234-U11N-0090I | 1A | |
| | 480 | 1 | 20 | 20 (11) | 1/4 | 480 | 1 | 234-U11N-0090T | 1A | |
| | 208 | 3 | 28 | 20 (11) | 1/4 | 208 | 1 | 234-U11N-0090D | 1A | |
| | 240 | 3 | 24 | 20 (11) | 1/4 | 240 | 1 | 234-U11N-0090K | 1A | |
| | 480 | 3 | 12 | 20 (11) | 1/4 | 480 | 1 | 234-U11N-0090U | 1A | |
| 600 | 3 | 10 | 20 (11) | 1/4 | 600 | 1 | 234-U11N-0090Z | 1A | | |
| 10 | 240 | 1 | 44 | 22 (12) | 1/4 | 240 | 1 | 234-U11N-0100J | 1A | AS |
| | 277 | 1 | 39 | 22 (12) | 1/4 | 277 | 1 | 234-U11N-0100N | 1A | |
| | 347 | 1 | 32 | 22 (12) | 1/4 | 347 | 1 | 234-U11N-0100I | 1A | |
| | 480 | 1 | 22 | 22 (12) | 1/4 | 480 | 1 | 234-U11N-0100T | 1A | |
| | 208 | 3 | 30 | 22 (12) | 1/4 | 208 | 1 | 234-U11N-0100D | 1A | |
| | 240 | 3 | 27 | 22 (12) | 1/4 | 240 | 1 | 234-U11N-0100K | 1A | |
| | 480 | 3 | 14 | 22 (12) | 1/4 | 480 | 1 | 234-U11N-0100U | 1A | |
| 600 | 3 | 11 | 22 (12) | 1/4 | 600 | 1 | 234-U11N-0100Z | 1A | | |
| 12 | 277 | 1 | 46 | 26 (14) | 1/4 | 277 | 1 | 234-U11N-0120N | 1A | AS |
| | 347 | 1 | 38 | 26 (14) | 1/4 | 347 | 1 | 234-U11N-0120I | 1A | |
| | 480 | 1 | 27 | 26 (14) | 1/4 | 480 | 1 | 234-U11N-0120T | 1A | |
| | 208 | 3 | 36 | 26 (14) | 1/4 | 208 | 1 | 234-U11N-0120D | 1A | |
| | 240 | 3 | 32 | 26 (14) | 1/4 | 240 | 1 | 234-U11N-0120K | 1A | |
| | 480 | 3 | 16 | 26 (14) | 1/4 | 480 | 1 | 234-U11N-0120U | 1A | |
| 600 | 3 | 13 | 26 (14) | 1/4 | 600 | 1 | 234-U11N-0120Z | 1A | | |
| 12.5 | 347 | 1 | 39 | 17 (9) | 1/4 | 347 | 1 | 234-U11L-0130I | 1A | AS |
| | 208 | 3 | 37 | 17 (9) | 1/4 | 208 | 1 | 234-U11L-0130D | 1A | |
| | 240 | 3 | 33 | 17 (9) | 1/4 | 240 | 1 | 234-U11L-0130K | 1A | |
| | 480 | 3 | 17 | 17 (9) | 1/4 | 480 | 1 | 234-U11L-0130U | 1A | |
| | 600 | 3 | 14 | 17 (9) | 1/4 | 600 | 1 | 234-U11L-0130Z | 1A | |
| 15 | 347 | 1 | 47 | 21 (12) | 1/4 | 347 | 1 | 234-U11L-0150I | 1A | AS |
| | 208 | 3 | 44 | 21 (12) | 1/4 | 208 | 1 | 234-U11L-0150D | 1A | |
| | 240 | 3 | 39 | 21 (12) | 1/4 | 240 | 1 | 234-U11L-0150K | 1A | |
| | 480 | 3 | 20 | 21 (12) | 1/4 | 480 | 1 | 234-U11L-0150U | 1A | |
| | 600 | 3 | 16 | 21 (12) | 1/4 | 600 | 1 | 234-U11L-0150Z | 1A | |
| 20 | 480 | 3 | 26 | 28 (16) | 1/4 | 480 | 1 | 234-U11L-0200U | 1A | AS |
| | 600 | 3 | 21 | 28 (16) | 1/4 | 600 | 1 | 234-U11L-0200Z | 1A | |
| 25 | 480 | 3 | 32 | 35 (19) | 1/4 | 480 | 1 | 234-U11A-0250U | 1B | AS |
| | 600 | 3 | 26 | 35 (19) | 1/4 | 600 | 1 | 234-U11A-0250Z | 1B | |
| 30 | 480 | 3 | 38 | 42 (23) | 1/4 | 480 | 1 | 234-U11A-0300U | 1B | AS |
| | 600 | 3 | 31 | 42 (23) | 1/4 | 600 | 1 | 234-U11A-0300Z | 1B | |
| 35 | 480 | 3 | 44 | 48 (27) | 1/4 | 480 | 1 | 234-U11A-0350U | 1B | AS |
| | 600 | 3 | 35 | 48 (27) | 1/4 | 600 | 1 | 234-U11A-0350Z | 1B | |
| 38.4 | 480 | 3 | 48 | 54 (30) | 1/4 | 480 | 1 | 234-U11A-0390U | 1B | AS |
| | 600 | 3 | 38 | 54 (30) | 1/4 | 600 | 1 | 234-U11A-0390Z | 1B | |
| 47 | 600 | 3 | 47 | 64 (36) | 1/4 | 600 | 1 | 234-U11A-0470Z | 1B | AS |

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

(2) Availability Code: AS = Assembly Stock,

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

NOTE: 2-Stage heaters can be field wired as single stage.

1A = Optional 2-stage control, unbalanced (option 'X').

1B = Optional 2-stage control, balanced (option 'X')

IUH SERIES Industrial Unit Heater



Indeeco's industrial unit heater is designed for maximum heating performance in non-hazardous and non-corrosive environments. Features include:

- **Unique Design:** Round design of the industrial unit heater provides uniform airflow over the elements to prevent hot spots and ensure even discharge temperatures. Circular stainless steel finned tubular elements have a longer life due to lower operating temperatures.
- **Built-in Controls:** Heaters are completely assembled with all electrical components built-in at the factory to reduce installation costs.
- **Improved Performance:** High CFM's and air throw up to 50 feet promote air circulation within the space. More uniform temperature increases comfort levels and helps to eliminate cold spots.
- **Single Point Electrical Hook-up:** Heater, fan motor and controls are all connected to the same branch circuit.

Applications

- Aircraft Hangars
- Entryways
- Factories
- Garages
- Power Generating Stations
- Pump Houses
- Service Stations

Standard Construction Features

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

Housing – Heating elements and motor are enclosed in a round, 16-gauge galvanized steel enclosure which has a beige powder coat finish for durability.

Inlet/Outlet Grilles – Inlet grille complies with OSHA requirements for fan blade guard. Outlet grille has 45° beige powder coat finish angled louvers to direct airflow.

Fan Motor – Motor is UL Recognized with built-in thermal protection.

Built-in Controls – Include main control magnetic contactor, 24V control voltage transformer, automatic reset thermal cutout and fan thermostat.

Mounting Bracket – Wall mounting bracket with single point suspension allows the heater to rotate a full 360°.

Thermostats

| Catalog Number | Switch Type | Color | Type | Tamper-proof | Thermometer | Amps @ 120-240V | Amps @ 277V | Pilot Duty | Positive Off | Temperature Range °F |
|----------------|-------------|-------|------|--------------|-------------|-----------------|-------------|-----------------|--------------|----------------------|
| 1006998 | Bimetal | White | SPDT | No | No | — | — | 30VA at 30V max | Yes | 50-90 |

IUH SERIES

Industrial Unit Heater

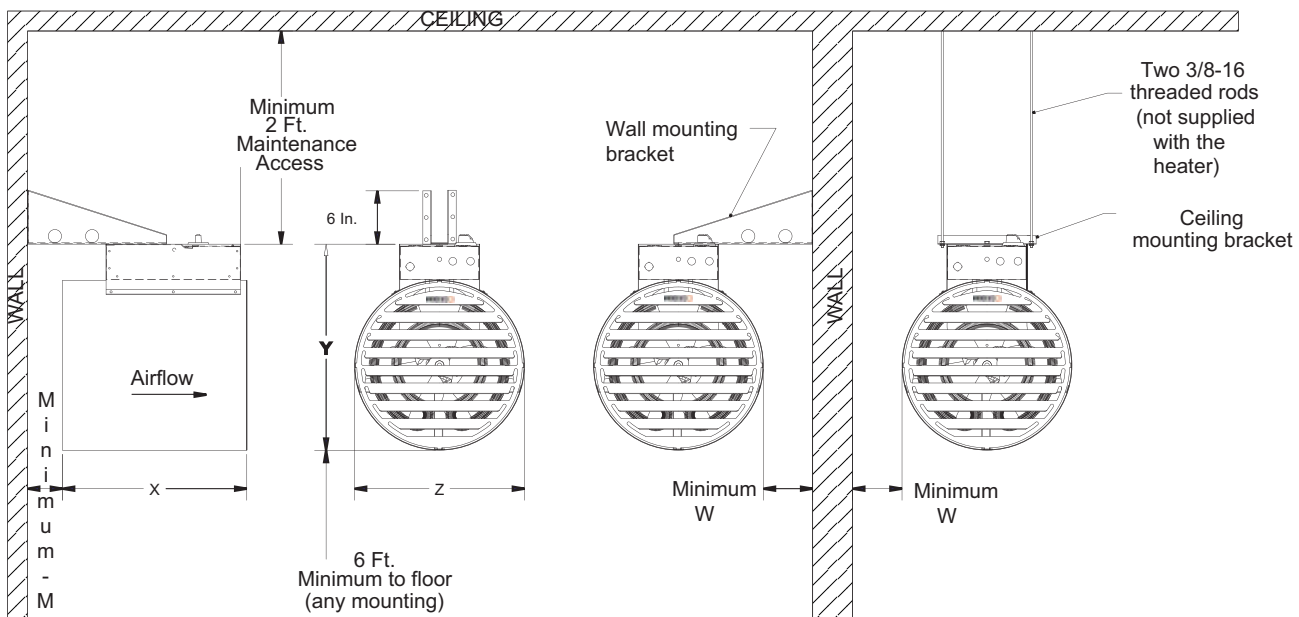
Factory Built-in Options

| Code | Description | Availability Code (2) |
|------|---|-----------------------|
| B | No mounting bracket | AS |
| C | Substitute wall mounting bracket with ceiling bracket (beige powder coat finish for durability) | AS |
| D | Power Disconnect Switch | AS |
| G | Adjustable Outlet Louvers (beige powder coat finish for durability) | AS |
| H | Premium Fan Motor | AS |
| L | "Heater On" Pilot Light | AS |
| M | Secondary Manual Reset Thermal Cutout | AS |
| R | Built-in Fan Relay - Required for Remote Fan Switch | AS |
| S | Three-position Selector Switch (Heater-Standby-Fan) | AS |
| T | Built-in Thermostat 40° to 120° F (4° to 49° C) Range | AS |
| X | No Transformer - Customer supplied control voltage | AS |

(2) AS = Assembly Stock, C = Custom. Assembly stock heaters ordered with custom options subject to longer delivery.

Dimensions, Weights and Air Throws

| KW | Dimensions - In. (cm) | | | | | Weight Lb (kgs) | Maximum Air Throw-Ft. (m) |
|-----------|-----------------------|------------|-------------|-------------|-------------|-----------------|---------------------------|
| | M | W | X | Y | Z | | |
| 1 - 12 | 8-1/4 (21) | 8-3/4 (22) | 15 (38) | 17 (43) | 13 (41) | 45 (20) | 15 (5) |
| 12.5 - 20 | 7 (18) | 5-1/2 (14) | 16-1/4 (41) | 23-1/2 (60) | 19-1/4 (49) | 60 (27) | 50 (15) |
| 25 - 38.4 | 4 (10) | 5-1/2 (14) | 20-3/4 (53) | 23-1/2 (60) | 19-1/4 (49) | 80 (36) | 50 (15) |



Motor Data

| Description | RPM | Airflow - CFM (cubic meters/hr) | | | Noise Level (dB) | | |
|-------------|------|---------------------------------|-------------|-------------|------------------|------------|------------|
| | | 3-12 KW | 12.5-20 KW | 25-38.4 KW | 3-12 KW | 12.5-20 KW | 25-38.4 KW |
| Standard | 1200 | 362 (615) | 1342 (2280) | 1237 (2102) | 64 | 68 | 68 |
| Premium | 1800 | 618 (1050) | 1774 (3014) | 1635 (2778) | 75 | 84 | 84 |

IUH SERIES

Industrial Unit Heater

For Non-Hazardous Areas
For Non-Corrosive Areas



Heater Listing

| KW | Volts | Phase | Total Amps (1) | Approximate Air Temperature Rise °F (°C) | Motor | | | Catalog Number | Availability Code (2) |
|------|-------|-------|----------------|--|---------|-------|------------|----------------|-----------------------|
| | | | | | HP | Volts | Phase | | |
| 3 | 120 | 1 | 29 | 15 (8) | 1/4 | 120 | 1 | *238-UR03B | AS |
| | 208 | 1 | 17 | 21 (12) | 1/4 | 208 | 1 | 238-UT03C | |
| | 240 | 1 | 15 | 21 (12) | 1/4 | 240 | 1 | 238-UT03J | |
| | 277 | 1 | 13 | 15 (8) | 1/4 | 277 | 1 | *238-UR03N | |
| | 347 | 1 | 11 | 15 (8) | 1/4 | 347 | 1 | *238-UR03I | |
| | 480 | 1 | 8 | 21 (12) | 1/4 | 480 | 1 | 238-UT03T | |
| | 600 | 1 | 6 | 15 (8) | 1/4 | 600 | 1 | *238-UR03Y | |
| | 208 | 3 | 11 | 21 (12) | 1/4 | 208 | 1 | 238-UT03D | |
| | 240 | 3 | 10 | 21 (12) | 1/4 | 240 | 1 | 238-UT03K | |
| 480 | 3 | 5 | 21 (12) | 1/4 | 480 | 1 | 238-UT03U | | |
| 5 | 208 | 1 | 27 | 35 (19) | 1/4 | 208 | 1 | 238-UT05C | |
| | 240 | 1 | 23 | 35 (19) | 1/4 | 240 | 1 | 238-UT05J | |
| | 277 | 1 | 20 | 26 (14) | 1/4 | 277 | 1 | *238-UT05N | |
| | 347 | 1 | 17 | 26 (14) | 1/4 | 347 | 1 | *238-UT05I | |
| | 480 | 1 | 12 | 35 (19) | 1/4 | 480 | 1 | 238-UT05T | |
| | 600 | 1 | 10 | 26 (14) | 1/4 | 600 | 1 | *238-UT05Y | |
| | 208 | 3 | 16 | 35 (19) | 1/4 | 208 | 1 | 238-UT05D | |
| | 240 | 3 | 15 | 35 (19) | 1/4 | 240 | 1 | 238-UT05K | |
| | 480 | 3 | 8 | 35 (19) | 1/4 | 480 | 1 | 238-UT05U | |
| | 600 | 3 | 6 | 26 (14) | 1/4 | 600 | 1 | *238-UT05Z | |
| | 208 | 1 | 39 | 53 (29) | 1/4 | 208 | 1 | 238-UT08C | |
| | 240 | 1 | 34 | 53 (29) | 1/4 | 240 | 1 | 238-UT08J | |
| 7.5 | 277 | 1 | 29 | 39 (22) | 1/4 | 277 | 1 | *238-UT08N | |
| | 347 | 1 | 24 | 39 (22) | 1/4 | 347 | 1 | *238-UT08I | |
| | 480 | 1 | 17 | 53 (29) | 1/4 | 480 | 1 | 238-UT08T | |
| | 600 | 1 | 14 | 39 (22) | 1/4 | 600 | 1 | *238-UT08Y | |
| | 208 | 3 | 23 | 53 (29) | 1/4 | 208 | 1 | 238-UT08D | |
| | 240 | 3 | 21 | 53 (29) | 1/4 | 240 | 1 | 238-UT08K | |
| | 480 | 3 | 11 | 53 (29) | 1/4 | 480 | 1 | 238-UT08U | |
| | 600 | 3 | 9 | 39 (22) | 1/4 | 600 | 1 | *238-UT08Z | |
| | 208 | 1 | 46 | 64 (36) | 1/4 | 208 | 1 | 238-UT09C | |
| | 240 | 1 | 40 | 64 (36) | 1/4 | 240 | 1 | 238-UT09J | |
| | 277 | 1 | 35 | 47 (26) | 1/4 | 277 | 1 | *238-UT09N | |
| | 347 | 1 | 29 | 47 (26) | 1/4 | 347 | 1 | *238-UT09I | |
| 9 | 480 | 1 | 20 | 64 (36) | 1/4 | 480 | 1 | 238-UT09T | |
| | 600 | 1 | 17 | 47 (26) | 1/4 | 600 | 1 | *238-UT09Y | |
| | 208 | 3 | 28 | 64 (36) | 1/4 | 208 | 1 | 238-UT09D | |
| | 240 | 3 | 24 | 64 (36) | 1/4 | 240 | 1 | 238-UT09K | |
| | 480 | 3 | 12 | 64 (36) | 1/4 | 480 | 1 | 238-UT09U | |
| | 600 | 3 | 10 | 47 (26) | 1/4 | 600 | 1 | *238-UT09Z | |
| | 240 | 1 | 44 | 52 (29) | 1/4 | 240 | 1 | *238-UT10J | |
| | 277 | 1 | 39 | 52 (29) | 1/4 | 277 | 1 | *238-UT10N | |
| | 347 | 1 | 32 | 52 (29) | 1/4 | 347 | 1 | *238-UT10I | |
| | 480 | 1 | 22 | 52 (29) | 1/4 | 480 | 1 | *238-UT10T | |
| | 600 | 1 | 19 | 52 (29) | 1/4 | 600 | 1 | *238-UT10Y | |
| | 10 | 208 | 3 | 30 | 52 (29) | 1/4 | 208 | 1 | *238-UT10D |
| 240 | | 3 | 27 | 52 (29) | 1/4 | 240 | 1 | *238-UT10K | |
| 480 | | 3 | 14 | 52 (29) | 1/4 | 480 | 1 | *238-UT10U | |
| 600 | | 3 | 11 | 52 (29) | 1/4 | 600 | 1 | *238-UT10Z | |
| 277 | | 1 | 46 | 62 (34) | 1/4 | 277 | 1 | *238-UT12N | |
| 347 | | 1 | 38 | 62 (34) | 1/4 | 347 | 1 | *238-UT12I | |
| 12 | | 480 | 1 | 27 | 62 (34) | 1/4 | 480 | 1 | *238-UT12T |
| | | 208 | 3 | 36 | 62 (34) | 1/4 | 208 | 1 | *238-UT12D |
| | | 240 | 3 | 32 | 62 (34) | 1/4 | 240 | 1 | *238-UT12K |
| | | 480 | 3 | 16 | 62 (34) | 1/4 | 480 | 1 | *238-UT12U |
| | | 600 | 3 | 13 | 62 (34) | 1/4 | 600 | 1 | *238-UT12Z |
| | | 347 | 1 | 39 | 22 (12) | 1/4 | 347 | 1 | *238-UL13I |
| | 12.5 | 208 | 3 | 37 | 31 (17) | 1/4 | 208 | 1 | 238-UL13D |
| | | 240 | 3 | 33 | 31 (17) | 1/4 | 240 | 1 | 238-UL13K |
| | | 480 | 3 | 17 | 31 (17) | 1/4 | 480 | 1 | 238-UL13U |
| | | 600 | 3 | 14 | 22 (12) | 1/4 | 600 | 1 | *238-UL13Z |
| | | 347 | 1 | 47 | 27 (15) | 1/4 | 347 | 1 | *238-UL15I |
| | | 208 | 3 | 44 | 38 (21) | 1/4 | 208 | 1 | 238-UL15D |
| 15 | 240 | 3 | 39 | 38 (21) | 1/4 | 240 | 1 | 238-UL15K | |
| | 480 | 3 | 20 | 38 (21) | 1/4 | 480 | 1 | 238-UL15U | |
| | 600 | 3 | 16 | 27 (15) | 1/4 | 600 | 1 | *238-UL15Z | |
| | 480 | 3 | 26 | 35 (19) | 1/4 | 480 | 1 | *238-UL20U | |
| 600 | 3 | 21 | 35 (19) | 1/4 | 600 | 1 | *238-UL20Z | | |
| 25 | 480 | 3 | 32 | 66 (37) | 1/4 | 480 | 1 | 238-UA25U | |
| | 600 | 3 | 26 | 44 (24) | 1/4 | 600 | 1 | *238-UA25Z | |
| 30 | 480 | 3 | 38 | 79 (44) | 1/4 | 480 | 1 | 238-UA30U | |
| | 600 | 3 | 31 | 53 (29) | 1/4 | 600 | 1 | *238-UA30Z | |
| 35 | 480 | 3 | 44 | 61 (34) | 1/4 | 480 | 1 | *238-UA35U | |
| | 600 | 3 | 35 | 61 (34) | 1/4 | 600 | 1 | *238-UA35Z | |
| 38.4 | 480 | 3 | 48 | 70 (39) | 1/4 | 480 | 1 | *238-UA39U | |
| | 600 | 3 | 38 | 70 (39) | 1/4 | 600 | 1 | *238-UA39Z | |

* Premium motor comes standard with heater.

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

(2) AS = Assembly Stock, C = Custom. Assembly stock heaters ordered with custom options subject to longer delivery.

UHIR SERIES

Unit Heater



Applications

- Factories
- Garages
- Mechanical Rooms
- Pump Houses
- Service Areas in Air Handling Units
- Shipping and Receiving Areas
- Storage Areas
- Warehouses
- Workshops

The UHIR unit heater is available in 50 standard models with ratings up to 50 KW at voltages of 208, 240, 277, and 480 single or three-phase. They are available with a wide variety of factory built-in or field-installed options.

Temperature Control: Single-stage or two-stage control with built-in or remote-mounted thermostats are available on all heaters.

Control Options: Available as factory built-in or field-installed to meet job specifications.

Custom KW's: Custom KW's are available up to 50 KW.

Discharge Direction: The UHIR heater can be mounted for horizontal or vertical discharge using an optional universal wall/ceiling mounting bracket or with field-furnished threaded rods for ceiling mounting.

Color Options: The standard color is camel. Six optional colors are available: grey, yellow, red, white, blue or textured beige. Heaters may also be supplied with unpainted corrosion resistant galvanized steel. See back cover for color samples.



Standard Construction Features

Heating Elements - Industrial grade, 0.475" diameter steel sheath with brazed copper plated steel fins and epoxy sealed ends. Draw-thru airflow design pulls air across the heating elements to ensure cool element operation and even air distribution resulting in long element life.

Housing - Heating elements and motor are enclosed in a heavy gauge galvanized steel cabinet with a durable camel polyester powder coat finish.

Outlet Grille - Individually adjustable louvers are provided to direct airflow. A protective outlet fan guard is provided to prevent insertion of foreign objects.

Fan Motor - Permanently lubricated and thermally protected motor.

Built-in Controls - All units include an automatic reset thermal cutout that will de-energize the heater if an overtem-

perature condition occurs. A manual reset thermal cutout, in addition to an automatic reset thermal cutout, is standard on heaters 10 KW and above. A fan relay is provided to allow the elements to heat up before fan startup and purges the heater of residual heat after shutdown. A 24-volt transformer and disconnecting contactor are provided on most heaters. Single-phase heaters rated at 5 KW or less have line voltage controls; 24-volt control and contactor are available. Power fusing is standard on all heaters rated over 48 amps.

Mounting - Universal horizontal or vertical discharge. Optional diffusers are available for vertical discharge. An Anemostat diffuser can be used to provide draft-free air movement at lower mounting heights. For higher mounting heights, radial diffuser with adjustable fins can be used to increase floor coverage or adjusted for a vertical down blast of air.

UHIR SERIES Unit Heater

Factory Built-in Options

| Code | Description |
|-----------------|---|
| Consult Factory | Custom KW - CONSULT FACTORY |
| D | Power disconnect switch |
| F | Fusing under 48 Amps, not available on heaters up to 10 KW |
| M | Manual Reset Cutout (In addition to automatic cutout) on heaters up to 10KW |
| P (1) | "Heater On" Pilot Light |
| R1 | Built-in 24V transformer and contactor for 2.5 to 5 KW, single phase heaters. |
| R2 (1) (2) | 120V Transformer to replace 24V Transformer |
| S1 | Summer Fan Switch |
| S2 (1) | Summer Fan Switch - Remote Pilot Duty |
| T | Built-in Thermostat - 1 - Stage |
| | Built-in Thermostat - 2 - Stage (Option 'X' required) |
| V1* | Anemostat (Cone) Diffuser |
| V2 | Radial Diffuser |
| X (2) | 2-Stage Control |

* consult factory for lead times

(1) When specifying Option 'P', 'R2', or 'S2' for single-phase heaters rated up to 5KW; Option 'R1' must also be specified.

(2) Option 'R2' and 'X' cannot be combined on heaters rates up to 5KW.

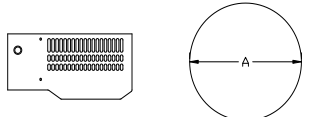
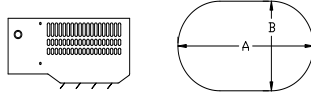
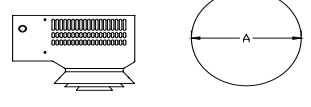
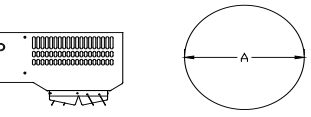
Field-Installed Options (shipped loose for field installation into heater)

| Catalog Number | Description |
|----------------|---|
| 1024155 | Anemostat (Cone) Diffuser up to 5 kW |
| 1024156 | Anemostat (Cone) Diffuser over 5 kW up to 20 kW |
| 1024157 | Anemostat (Cone) Diffuser over 20 kW |
| 1024152 | Radial Diffuser up to 5 kW |
| 1024153 | Radial Diffuser over 5 kW up to 20 kW |
| 1024154 | Radial Diffuser over 20 kW |
| 1023941 | Horizontal Dust Shield up to 10 kW |
| 1024059 | Horizontal Dust Shield over 20 kW up to 20 kW |
| 1024060 | Horizontal Dust Shield over 20 kW |
| 1024162 | Disconnect Switch, 600V, Three-Pole, 32 Amp |
| 1024163 | Disconnect Switch, 600V, Three-Pole, 64 Amp |
| 1024164 | Disconnect Switch, 600V, Three-Pole, 80 Amp |
| 1024166 | Built-in Thermostat - 1 - Stage |
| 1024167 | Built-in Thermostat - 2 - Stage (Option 'X' required) |
| 1024168 (1) | Heater On Pilot Light (24V) |
| 1024169 (1)(2) | Heater On Pilot Light (120V) |
| 1024170 | Summer Fan Switch - Built-in up to 277V |
| 1024171 | Summer Fan Switch- Built-in, over 277V |
| 1024172 (1) | Summer Fan Switch - Remote, 24V Control |

(1) When specifying Option 'P', 'R2', or 'S2' for single-phase heaters rated up to 5KW; Option 'R1' must also be specified.

(2) Option 'R2' and 'X' cannot be combined on heaters rates up to 5KW.

Vertical Mounting Air Pattern Table

| Description | Used on | Max Mtg. Height ft. (m) | A ft (m) | B ft (m) |
|---|---|--|---|---|
| WITHOUT DIFFUSER For a straight downward air pattern, directional louvers can be removed in order to maximize airflow.  | up to 5 kW over 5 up to 10 kW over 10 up to 20 kW over 20 up to 50 kW | 10 (3.0) 15 (4.6) 20 (6.1) 25 (7.6) | 17 (5.2) 28 (8.5) 38 (11.6) 68 (20.7) | — — — — |
| DIRECTIONAL LOUVERS (standard) Provides a directional (straight line) airflow which results in a rectangular air pattern. Louvers can be adjusted through a 35 degree range of motion  | up to 5 kW over 5 up to 10 kW over 10 up to 20 kW over 20 up to 50 kW | 10 (3.0) 15 (4.6) 20 (6.1) 25 (7.6) | 22 (6.7) 40 (12.2) 53 (16.2) 85 (25.9) | 12 (3.7) 20 (6.1) 27 (8.2) 45 (13.7) |
| ANEMOSTAT DIFFUSER Ideal for low mounting heights. Fabricated using 3 diverging hollow cones which disperse heat to the floor area at a minimum velocity for comfort.  | up to 5 kW over 5 up to 10 kW over 10 up to 20 kW over 20 up to 50 kW | 9 (2.7) 13 (4.0) 17 (5.2) 21 (6.4) | 17 (5.2) 29 (8.8) 40 (12.2) 68 (20.7) | — — — — |
| RADIAL DIFFUSER Ideal for high ceiling mounting. Louvers can be adjusted to direct airflow straight down when fully open to 45 degrees in a radial pattern which increases floor coverage by approximately 20%.  | OPEN up to 5 kW over 5 up to 10 kW over 10 up to 20 kW over 20 up to 50 kW | 10 (3.0) 15 (4.6) 20 (6.1) 25 (7.6) | 20 (6.1) 30 (9.1) 38 (11.6) 65 (19.8) | — — — — |
| | 45° up to 5 kW over 5 up to 10 kW over 10 up to 20 kW over 20 up to 50 kW | 9 (2.7) 11 (3.4) 15 (4.5) 18 (5.5) | 24 (7.3) 36 (11.0) 46 (14.0) 78 (23.8) | — — — — |

UHIR SERIES

Unit Heater

Heater Listing

| KW | Volts | Ph | Total Amps* | Approx. Air Temperature Rise °F (°C) | 2-Stage Control | Std. Control Voltage | Unit Size | Catalog Number (2) |
|------|-------|----|-------------|--------------------------------------|-----------------|----------------------|-----------|--------------------|
| 2.5 | 208 | 1 | 12.30 | 23 (-5) | 1B | 208 | 1 | 240-U1025C |
| | 240 | 1 | 10.7 | | 1B | 240 | 1 | 240-U1025J |
| | 277 | 1 | 9.40 | | 1B | 277 | 1 | 240-U1025N |
| 3.3 | 208 | 1 | 16.17 | 30 (-1.1) | 1B | 208 | 1 | 240-U1033C |
| | 240 | 1 | 14.05 | | 1B | 240 | 1 | 240-U1033J |
| | 277 | 1 | 12.21 | | 1B | 277 | 1 | 240-U1033N |
| 3.7 | 480 | 3 | 4.66 | 34 (1.1) | 1A | 24 | 1 | 240-U1037U |
| 3.8 | 208 | 3 | 10.85 | 35 (1.6) | 1A | 24 | 1 | 240-U1038D |
| | 240 | 3 | 9.44 | | 1A | 24 | 1 | 240-U1038K |
| 5 | 208 | 1 | 24.34 | 46 (7.77) | 1B | 208 | 1 | 240-U1050C |
| | 240 | 1 | 21.13 | | 1B | 240 | 1 | 240-U1050J |
| | 277 | 1 | 18.35 | | 1B | 277 | 1 | 240-U1050N |
| | 208 | 3 | 14.18 | | 1A | 24 | 1 | 240-U1050D |
| | 240 | 3 | 12.33 | | 1A | 24 | 1 | 240-U1050K |
| | 480 | 3 | 6.22 | | 1A | 24 | 1 | 240-U1050U |
| 6.7 | 208 | 1 | 32.91 | 33 (0.5) | 1B | 24 | 2 | 240-U2067C |
| | 240 | 1 | 28.62 | | 1B | 24 | 2 | 240-U2067J |
| | 277 | 1 | 24.79 | | 1B | 24 | 2 | 240-U2067N |
| 7.5 | 208 | 1 | 36.80 | 37 (2.7) | 1B | 24 | 2 | 240-U2075C |
| | 240 | 1 | 32.00 | | 1B | 24 | 2 | 240-U2075J |
| | 208 | 3 | 21.52 | | 1A | 24 | 2 | 240-U2075D |
| | 240 | 3 | 18.74 | | 1A | 24 | 2 | 240-U2075K |
| | 480 | 3 | 9.39 | | 1A | 24 | 2 | 240-U2075U |
| 9.9 | 208 | 1 | 48.30 | 49 (9.4) | 1B | 24 | 2 | 240-U2099C |
| 10 | 240 | 1 | 42.37 | 49 (4.9) | 1B | 24 | 2 | 240-U2100J |
| | 277 | 1 | 36.70 | | 1B | 24 | 2 | 240-U2100N |
| | 208 | 3 | 28.46 | | 1A | 24 | 2 | 240-U2100D |
| | 240 | 3 | 24.76 | | 1A | 24 | 2 | 240-U2100K |
| | 480 | 3 | 12.40 | | 1A | 24 | 2 | 240-U2100U |
| 13.2 | 277 | 1 | 48.35 | 28 (-2.2) | 1B | 24 | 3 | 240-U3132N |
| 13.3 | 208 | 1 | 64.79 | 28 (-2.2) | Standard | 24 | 3 | 240-U3133C-X (1) |
| | 240 | 1 | 56.27 | | Standard | 24 | 3 | 240-U3133J-X |
| 15 | 208 | 3 | 42.48 | 32 (0) | 1B | 24 | 3 | 240-U3150D |
| | 240 | 3 | 36.93 | | 1B | 24 | 3 | 240-U3150K |
| | 480 | 3 | 18.44 | | 1B | 24 | 3 | 240-U3150U |
| 19.9 | 208 | 1 | 96.52 | 43 (6.11) | Standard | 24 | 3 | 240-U3199C-X (1) |
| | 240 | 3 | 48.72 | | 1B | 24 | 3 | 240-U3199K |
| 20 | 240 | 1 | 84.18 | 43 (6.11) | Standard | 24 | 3 | 240-U3200J-X (1) |
| | 277 | 1 | 72.90 | | Standard | 24 | 3 | 240-U3200N-X (1) |
| | 208 | 3 | 56.36 | | Standard | 24 | 3 | 240-U3200D-X |
| | 480 | 3 | 24.46 | | 1B | 24 | 3 | 240-U3200U |
| 25 | 208 | 3 | 70.90 | 26 (-3.3) | Standard | 24 | 4 | 240-U4250D-X |
| | 240 | 3 | 61.64 | | Standard | 24 | 4 | 240-U4250K-X |
| | 480 | 3 | 30.77 | | 1B | 24 | 4 | 240-U4250U |
| 33.3 | 208 | 3 | 93.93 | 35 (1.6) | Standard | 24 | 4 | 240-U4333D-X |
| | 240 | 3 | 81.61 | | Standard | 24 | 4 | 240-U4333K-X |
| | 480 | 3 | 40.75 | | 1B | 24 | 4 | 240-U4333U |
| 37.5 | 208 | 3 | 105.59 | 39 (3.8) | Standard | 24 | 4 | 240-U4375D-X |
| | 240 | 3 | 91.71 | | Standard | 24 | 4 | 240-U4375K-X |
| | 480 | 3 | 45.80 | | 1A | 24 | 4 | 240-U4375U |
| 49.8 | 208 | 3 | 139.73 | 52 (11.1) | Standard | 24 | 4 | 240-U4498D-X |
| 50 | 240 | 3 | 121.8 | 52 (11.1) | Standard | 24 | 4 | 240-U4500K-X |
| | 480 | 3 | 60.84 | | Standard | 24 | 4 | 240-U4500U-X |

*Total Amps = Heating element amps and motor amps.

(1) Disconnect switch unavailable.

(2) All Standard heaters are supplied with 24V transformer and contactor except up to 5 KW single-phase units. Optional low voltage transformer and contactor are available for these heaters, see Factory Built-in Option 'R1'.

2-stage heaters can be field wired as single stage.

1A = Optional 2-stage control, unbalanced (option X)

1B = Optional 2-stage control, balanced (option X).

UHIR SERIES Unit Heater

Heater Dimensions

| KW | W In. (mm) | H In. (mm) | Depth In. (mm) | A In. (mm) | B In. (mm) | C In. (mm) | D In. (mm) | E In. (mm) | F In. (mm) | G In. (mm) | H In. (mm) | I In. (mm) | J In. (mm) |
|------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| up to 5 | 12.875 (327) | 17.750 (450) | 7.625 (194) | 8 (203) | 10.188 (284) | 18 (457) | 10 (254) | 8 (203) | 16 (406) | 5 (127) | 6.44 (164) | 6.44 (164) | 5 (127) |
| 5.1 to 10 | 16.875 (429) | 24.250 (616) | 7.625 (194) | 6 (152) | 10.188 (237) | 18 (457) | 10 (254) | 8 (203) | 16 (406) | 5 (127) | 6.44 (164) | 6.44 (164) | 5 (127) |
| 10.1 to 20 | 16.875 (429) | 24.250 (616) | 11.375 (289) | 6 (152) | 8.313 (237) | 18 (457) | 12 (305) | 12 (305) | 32 (813) | 5 (127) | 10.13 (257) | 5 (127) | 10.13 (257) |
| 20.1 to 50 | 26.937 (684) | 35.500 (902) | 15.625 (397) | 6.281 (236) | 11.937 (380) | 13 (330) | 12 (305) | 16 (406) | 32 (813) | 7 (178) | 12.92 (328) | 7 (178) | 12.92 (328) |

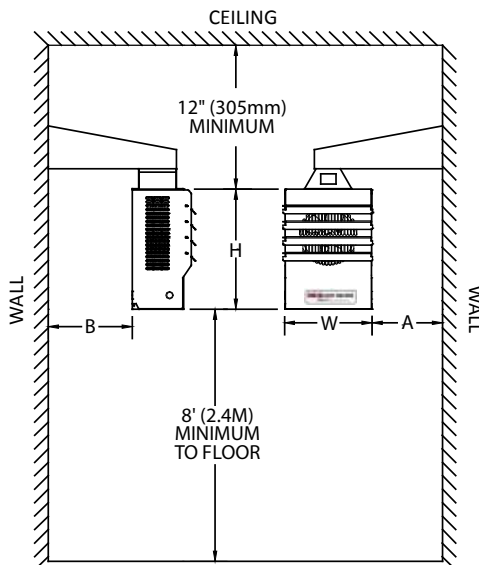


FIG. 1 HORIZONTAL WALL MOUNTING WITH MOUNTING ARM

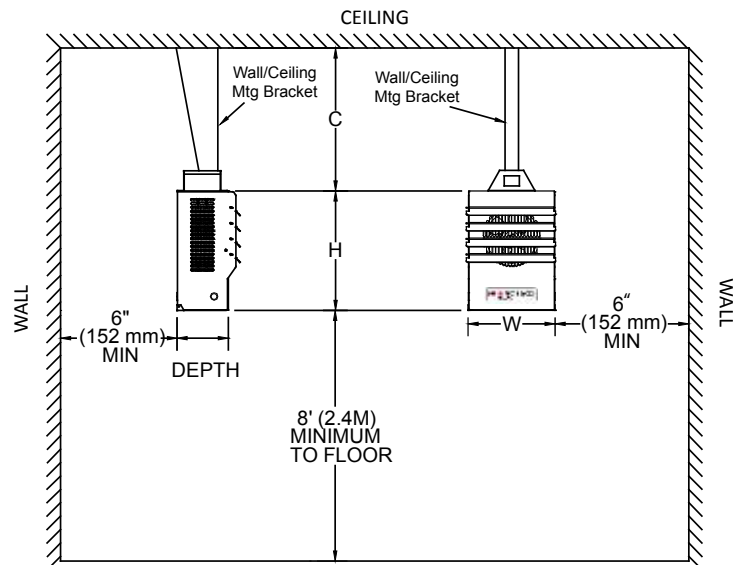


FIG. 2 HORIZONTAL CEILING MOUNT WITH MTG ARM

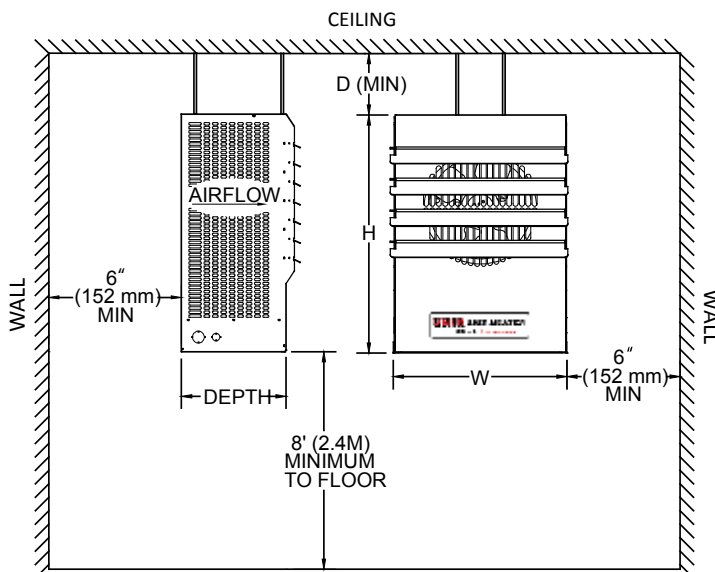


FIG. 3 HORIZONTAL CEILING MOUNT WITH THREADED ROD

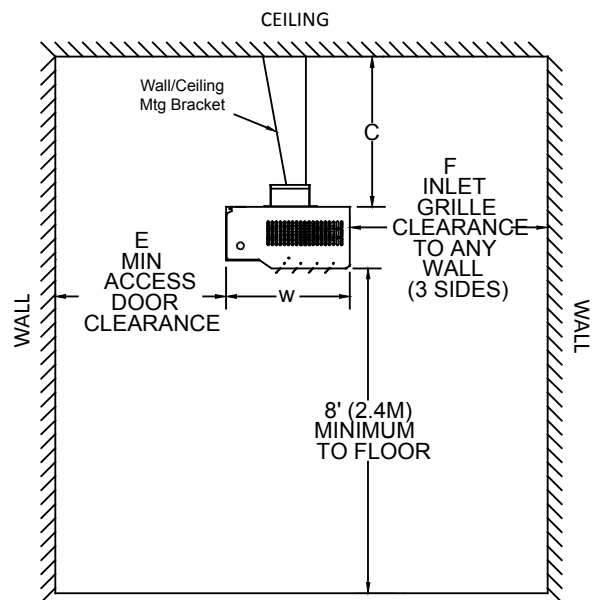


FIG. 4 VERTICAL CEILING MOUNT WITH MTG ARM

UHIR SERIES

Unit Heater

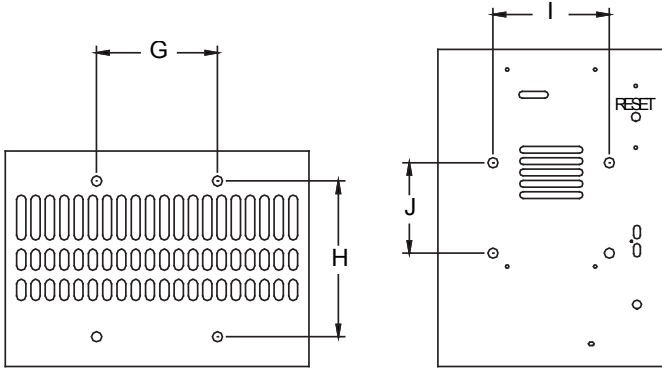


FIG. 5 THREADED ROD (3/8 - 16) ATTACHMENT POINT DIMENSIONS

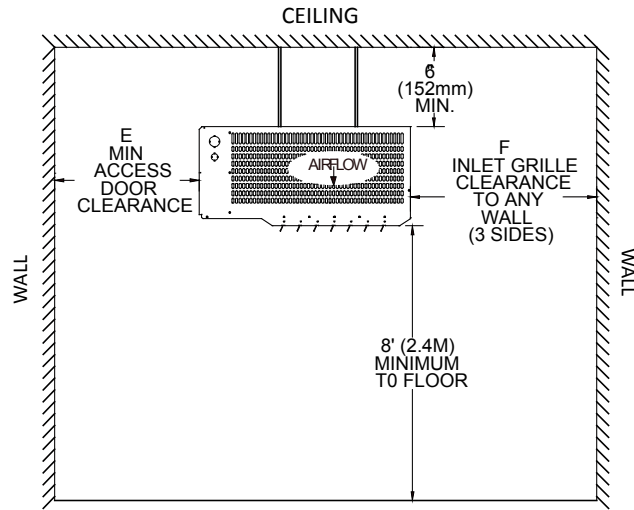


FIG. 6 VERTICAL CEILING MOUNT WITH THREADED ROD

Mounting Brackets

| Catalog Number | Description |
|----------------|--|
| 1024149 | Universal wall & ceiling mounting bracket up to 10 KW |
| 1024150 | Universal wall & ceiling mounting bracket over 10 KW up to 20 KW |
| 1024151 | Universal wall & ceiling mounting bracket over 20 KW |

Remote Thermostat Selection Chart

| KW | Catalog Number | Volts | Ph | 1-Stage Line Voltage | 1-Stage Low Voltage (b) | 2-Stage Low Voltage (b) |
|-------------------------------|----------------|-------|----|----------------------|-------------------------|-------------------------|
| 2.5 | 240-U1025C | 208 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| | 240-U1025J | 240 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| | 240-U1025U | 277 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| 3.3 | 240-U1033C | 208 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| | 240-U1033J | 240 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| | 240-U1033N | 277 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| 3.7 | 240-U1037U | 480 | 3 | NA | 1006998 | 1007030 |
| 3.8 | 240-U1038D | 208 | 3 | NA | 1006998 | 1007030 |
| | 240-U1038K | 240 | 3 | NA | 1006998 | 1007030 |
| 5 | 240-U1050C | 208 | 1 | NA | 1006998 (a) | 1007030 (a) |
| | 240-U1050J | 240 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| | 240-U1050N | 277 | 1 | 1007014 | 1006998 (a) | 1007030 (a) |
| All Other UHIR Heaters | | | | NA | 1006998 | 1007030 |

(a) Add option 'R1' for 24V control on these units.

(b) Option 'R2' is unavailable with any Indeeco supplied remote low voltage thermostats.



1007030



1007014



1006998

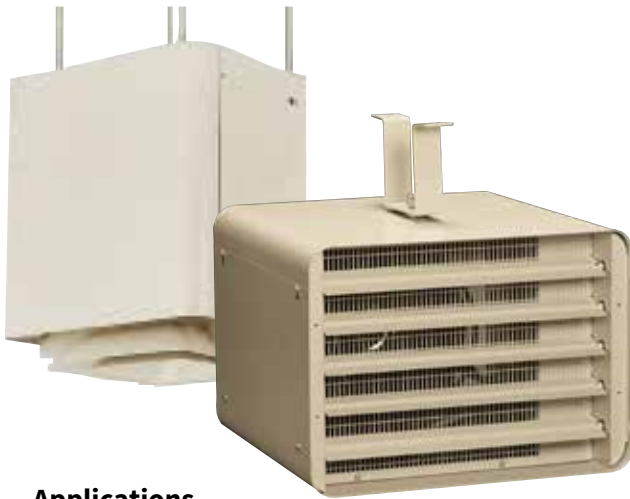
Finish/Color Options

| Code | Finish | Color |
|------|-----------------------|------------|
| None | Polyester Powder Coat | Camel |
| A0 | | Grey |
| A1 | | Yellow |
| A2 | | Red |
| A3 | | White |
| A4 | | Blue |
| A5 | Steel (unpainted) | Galvanized |
| A7 | Polyester Powder Coat | Beige |

Airflows, Weights and Air Throw

| Unit Size | CFM | Installed Weight lb (kg) | Max. Air Throw ft. (m) |
|-----------|------|--------------------------|------------------------|
| 1 | 350 | 25 (11.3) | 15 (4.6) |
| 2 | 650 | 40 (18.1) | 18 (5.5) |
| 3 | 1500 | 55 (25) | 41 (12.5) |
| 4 | 3100 | 155 (70.3) | 62 (18.9) |

UCI SERIES Unit Heater



Applications

- Garages
- Mechanical Rooms
- Stairwells
- Vestibules
- Warehouses
- Workshops

The UCI unit heater is designed for industrial and commercial applications.

- **Large Capacity:** Heavy-duty construction with ratings up to 60 KW at 2,000 CFM.
- **Control Options:** Wide range of factory built-in or field-installed control options to meet job specifications.
- **Single Point Electrical Hook-up:** Heater, fan motor and controls are all connected to the same branch circuit. Field connections and built-in controls are easily accessed in the side-mounted control compartment.
- **Discharge Direction:** The UCI heater may be mounted horizontally using one of two brackets (supplied) or vertically using four threaded rods (not included).

Standard Construction Features

Heating Elements – Industrial grade stainless steel tubular elements in 2-10 KW units and steel finned tubular elements in 15-60 KW units.

Housing – Cabinet is constructed of 18 and 20-gauge galvanized steel finished with durable almond polyester powder paint.

Outlet Grille – The outlet grille has individually adjustable louvers to direct airflow. A protective outlet mesh screen, provided on 2-30 KW heaters, allows for lower mounting heights.

Fan Motor – Totally enclosed, thermally protected motor with factory-lubricated ball bearings (except for 15 to 25 kW at 208/240V) operates at 58 dBA (2-10 kW), 67 dBA (15-30 kW) or 77 dBA (40-60 kW). Blow-through design reduces motor operating temperature for longer life.

Built-in Controls – Include 240/208 volt control circuit (with transformer if necessary), automatic reset thermal cutout, fan override and factory-installed contactor. Power fusing is supplied for heaters over 48 amps.

Mounting Bracket – Wall and ceiling bracket provided with each unit under 40 KW for horizontal mounting. 40-60 KW heaters furnished with four corner support brackets for ceiling mounting.

Installation Requirements – For best performance, do not install unit heaters above recommended maximum mounting heights of 2-10 KW, 8-feet; 15-30 KW, 10-feet; 40-60 KW, 15-feet. All but 40-60 KW heaters can be installed at lower mounting heights. Minimum height for 40-60 KW heaters is 8-feet. Maximum ambient room temperature for proper operation is 85°F. These units are not for residential use in the United States.

UCI SERIES

Unit Heater

Factory Built-in Options

| Code | Description |
|------|--|
| C | Three Pole Contactor |
| D1 | Disconnect Switch 32 Amp (2) |
| D2 | Disconnect Switch 64 Amp (2) |
| D5 | Disconnect Switch 80 Amp (2) |
| G | Fusing |
| M | Manual Reset |
| R1 | 24V Relay |
| R2 | 24V Relay with Transformer (1) |
| T | Thermostat (2) |
| U | Fan "ON" Switch |
| X | 120V Control, fused secondary and grounded |

(1) Add option "R2" when a low voltage remote thermostat is required.

(2) Not available with heater part number 926U1000CA.

Field-Installed Options

(shipped loose for field installation into heater)

| Catalog Number | Description |
|----------------|-------------------------------------|
| 926-124513 | Diffuser cone (2-10 kW) |
| 926-124514 | Diffuser cone (15-30 kW) |
| 926-161077 | Diffuser cone (40-60 kW) |
| 926-124515 | Thermostat Kit |
| 926-124516 | 24V Relay Kit |
| 926-124518 | 24V Relay Kit with Transformer |
| 926-124517 | 24V Relay Kit with 208V Transformer |
| 926-124520 | 24V Relay Kit with 480V Transformer |

Line Voltage Thermostats

| Catalog Number | Switch Type | Color | Type | Tamper-proof | Thermo-meter | Amps @ 120-240V | Amps @ 277V | Pilot Duty | Positive Off | Temperature Range °F |
|-----------------|-------------|-------|------|--------------|--------------|-----------------|-------------|------------|--------------|----------------------|
| 901-124640 | Bimetal | Beige | SPST | No | No | 22 | 19 | — | No | 40-80 |
| 901-124642 | Bimetal | White | SPST | No | No | 22 | 19 | — | No | 40-80 |
| 901-124643 | Bimetal | White | DPST | No | No | 22 | 19 | — | Yes | 40-80 |
| 901-TH114-A-420 | Electronic | White | DPST | No | Digital | 15A @ 240V | — | — | No | 40-86 |

Low Voltage Thermostats

| | | | | | | | | | | |
|-------------|-----------------------|-------|------|----|----|---|---|-----------------|-----|-------|
| 901-1006998 | Bimetal | White | SPST | No | No | — | — | 30VA at 30V max | Yes | 50-90 |
| 901-219981 | Precision Snap Action | White | SPST | No | No | — | — | 36VA at 30V max | No | 45-95 |

Accessories -

Clear universal thermostat guard. Protects both line and low voltage thermostats against vandalism, damage, and unauthorized adjustment of thermostat settings.

| Catalog Number | Description |
|----------------|---|
| 901-124644 | Inside dimensions: 6-3/8" (length), 3-1/2" (height), 3" (depth) |
| 901-F29-0198 | Inside dimensions: 8-1/4" (length), 5-3/8" (height), 3-1/2" (depth) |



901-124640



901-124642
901-124643



901-TH114-A-420



901-1006998



901-219981



901-124644



901-F29-0198

UCI SERIES Unit Heater

Heater Listing

| KW | Volts | Phase | Total Amps (1) | CFM | Approximate Air Temperature Rise °F (°C) | Motor Data | | | Catalog Number |
|-----|-------|-------|----------------|-----|--|------------|------|---------|----------------|
| | | | | | | HP | RPM | Voltage | |
| 2 | 208 | 1 | 10.3 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000CA |
| | 208 | 3 | 6.3 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000DA |
| | 240 | 1 | 9.0 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000JA |
| | 240 | 3 | 5.5 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000KA |
| | 277 | 1 | 7.9 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000NA |
| | 480 | 1 | 4.9 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000TA |
| | 480 | 3 | 3.1 | 510 | 13 (7) | 1/30 | 1550 | 240/208 | 926U02000UA |
| 3 | 208 | 1 | 15.1 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000CA |
| | 208 | 3 | 9.0 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000DA |
| | 240 | 1 | 13.2 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000JA |
| | 240 | 3 | 7.9 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000KA |
| | 277 | 1 | 11.5 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000NA |
| | 480 | 1 | 7.0 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U03000TA |
| | 480 | 3 | 4.3 | 510 | 18 (10) | 1/30 | 1550 | 240/208 | 926U04000UA |
| 4 | 208 | 1 | 19.9 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000CA |
| | 208 | 3 | 11.8 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000DA |
| | 240 | 1 | 17.4 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000JA |
| | 240 | 3 | 10.3 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000KA |
| | 277 | 1 | 15.1 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000NA |
| | 480 | 1 | 9.0 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000TA |
| | 480 | 3 | 5.5 | 510 | 25 (14) | 1/30 | 1550 | 240/208 | 926U04000UA |
| 5 | 208 | 1 | 24.7 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000CA |
| | 208 | 3/1* | 14.6 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000DA |
| | 240 | 1 | 21.5 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000JA |
| | 240 | 3/1* | 12.7 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000KA |
| | 277 | 1 | 18.8 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000NA |
| | 480 | 1 | 11.1 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000TA |
| | 480 | 3 | 6.7 | 700 | 23 (13) | 1/30 | 1550 | 240/208 | 926U05000UA |
| 7.5 | 208 | 1 | 36.8 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500CA |
| | 208 | 3/1* | 21.5 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500DA |
| | 240 | 1 | 32.0 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500JA |
| | 240 | 3/1* | 18.7 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500KA |
| | 277 | 1 | 27.8 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500NA |
| | 480 | 1 | 16.3 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500TA |
| | 480 | 3 | 9.7 | 700 | 34 (19) | 1/30 | 1550 | 240/208 | 926U07500UA |
| 10 | 208 | 1 | 48.8 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000CA |
| | 208 | 3 | 28.5 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000DA |
| | 240 | 1 | 42.4 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000JA |
| | 240 | 3/1* | 24.8 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000KA |
| | 480 | 1 | 21.5 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000TA |
| | 480 | 3 | 12.7 | 700 | 45 (25) | 1/30 | 1550 | 240/208 | 926U10000UA |

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

Other voltages available. Consult factory.

Only available with almond finish.

* Can be converted from 3 to 1-phase in the field.

UCI SERIES

Unit Heater

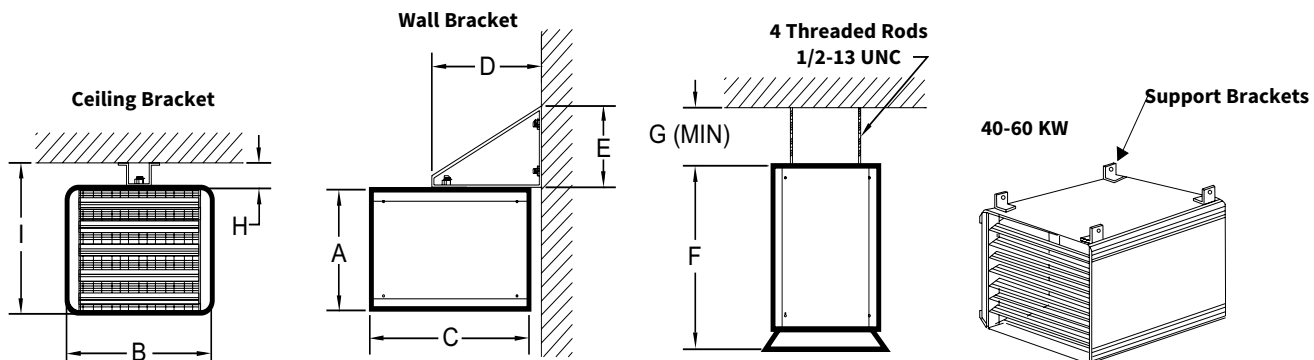
Heater Listing (cont.)

| KW | Volts | Phase | Total Amps (1) | CFM | Approximate Air Temperature Rise °F (°C) | Motor Data | | | Catalog Number |
|----|-------|-------|----------------|------|--|------------|------|------------|----------------|
| | | | | | | HP | RPM | Voltage | |
| 15 | 208 | 1 | 73.2 | 1300 | 36 (20) | 1/8 | 1550 | 240/208 | 926U15000CA |
| | 208 | 3 | 42.7 | 1300 | 36 (20) | 1/8 | 1550 | 240/208 | 926U15000DA |
| | 240 | 1 | 63.6 | 1300 | 36 (20) | 1/8 | 1550 | 240/208 | 926U15000JA |
| | 240 | 3 | 37.2 | 1300 | 36 (20) | 1/8 | 1550 | 240/208 | 926U15000KA |
| | 480 | 1 | 32.2 | 1400 | 34 (19) | 1/3 | 1725 | 480 (1 ph) | 926U15000TA |
| | 480 | 3 | 18.9 | 1400 | 34 (19) | 1/3 | 1725 | 480 (1 ph) | 926U15000UA |
| 20 | 208 | 1 | 97.3 | 1300 | 49 (27) | 1/8 | 1550 | 240/208 | 926U20000CA |
| | 208 | 3 | 56.6 | 1300 | 49 (27) | 1/8 | 1550 | 240/208 | 926U20000DA |
| | 240 | 1 | 84.4 | 1300 | 49 (27) | 1/8 | 1550 | 240/208 | 926U20000JA |
| | 240 | 3 | 49.2 | 1300 | 49 (27) | 1/8 | 1550 | 240/208 | 926U20000KA |
| | 480 | 1 | 42.6 | 1400 | 45 (25) | 1/3 | 1725 | 480 (1 ph) | 926U20000TA |
| | 480 | 3 | 25 | 1400 | 45 (25) | 1/3 | 1725 | 480 (1 ph) | 926U20000UA |
| 25 | 208 | 1 | 121.3 | 1300 | 61 (34) | 1/8 | 1550 | 240/208 | 926U25000CA |
| | 208 | 3 | 70.5 | 1300 | 61 (34) | 1/8 | 1550 | 240/208 | 926U25000DA |
| | 240 | 1 | 105.3 | 1300 | 61 (34) | 1/8 | 1550 | 240/208 | 926U25000JA |
| | 240 | 3 | 61.2 | 1300 | 61 (34) | 1/8 | 1550 | 240/208 | 926U25000KA |
| | 480 | 1 | 53 | 1400 | 56 (31) | 1/3 | 1725 | 480 (1 ph) | 926U25000TA |
| | 480 | 3 | 31 | 1400 | 56 (31) | 1/3 | 1725 | 480 (1 ph) | 926U25000UA |
| 30 | 480 | 3 | 37 | 1400 | 68 (38) | 1/3 | 1725 | 480 (1 ph) | 926U30000UA |
| 40 | 480 | 3 | 49.6 | 2000 | 63 (35) | 3/4 | 1140 | 480 (3 ph) | 926U40000UA |
| 50 | 480 | 3 | 61.6 | 2000 | 79 (44) | 3/4 | 1140 | 480 (3 ph) | 926U50000UA |
| 60 | 480 | 3 | 73.7 | 2000 | 95 (53) | 3/4 | 1140 | 480 (3 ph) | 926U60000UA |

(1) Total Amps = Heating element amps and motor amps.
Other voltages available. Consult factory.
Only available with almond finish.

Dimensions and Weights

| KW | A In. (mm) | B In. (mm) | C In. (mm) | D In. (mm) | E In. (mm) | F In. (mm) | G In. (mm) | H In. (mm) | I In. (mm) | Weight lb (kg) |
|-------|-----------------|-----------------|-----------------|------------------|------------------|-------------------|---------------|------------------|------------------|-------------------|
| 2-10 | 12 (305) | 16-1/2 (419) | 17 (432) | 14-1/16 (357) | 11-7/16 (290) | 195/16 (490) | 12 (305) | 4-7/8 (123) | 16-7/8 (428) | 45 (20) |
| 15-30 | 17-1/2 (444) | 21-7/8 (556) | 22-1/2 (572) | 18-1/2 (470) | 16 (407) | 24-13/16 (630) | 12 (305) | 5-13/16 (148) | 23-5/16 (592) | 85 (39) |
| 40-60 | 23 (585) | 25-1/4 (641) | 34-1/4 (870) | — | — | 36-3/8 (924) | 12 (305) | 12 (305) | 35 (890) | 150 (68) |



ULIR SERIES Unit Heater



The ULIR unit heater is an economical choice for commercial heating applications.

- Compact Design: Ideal for primary or spot heating applications. Units can be wall or ceiling-mounted for horizontal airflow.
- Versatility: Three different heater KW ratings can be field converted to either 240 or 208 single-phase power.
- Built-in Adjustable Thermostat: Minimum temperature setting on thermostat can be used to disable the heater.

Applications

- Basements
- Entrances
- Garages
- Mechanical Rooms
- Storage Rooms
- Workshops
- Service Areas in Air Handling Units

Standard Construction Features

Heating Elements – Nickel-chromium wire which provides instant heat with no residual heat. The element is installed on high-strength and specially designed insulation ceramic for quiet and smooth operation. The open-coil element is also humidity proof.

Housing – Cabinets are constructed of 20-gauge galvanized steel with an almond polyester powder paint finish.

Outlet Grille – The outlet grille has adjustable louvers to direct airflow and a protective screen for additional safety.

Fan/Motor – The fan supplies 300 CFM at 51 dBA. The motor is permanently lubricated and totally enclosed.

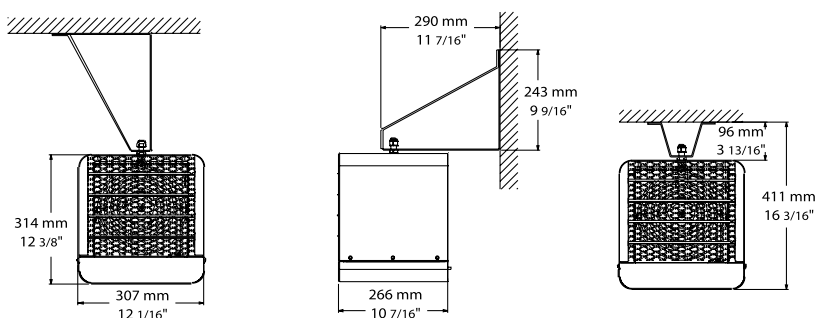
Built-in Controls – Automatic reset thermal cutout and adjustable thermostat.

Mounting Bracket – A universal mounting bracket for either wall or ceiling installation allows for 360° rotation of the heater.

Dimensions, Airflows and Weights

| Watts | Volts | Phase | Total Amps (1) | CFM | Approximate Air Temperature Rise °F (°C) | Weight lb (kg) | Catalog Number |
|-----------|---------|-------|----------------|-----|--|----------------|----------------|
| 2000/1500 | 240/208 | 1 | 8.7/7.6 | 300 | 21/16 (12/9) | 20 (9) | 925U02000VA |
| 3000/2250 | 240/208 | 1 | 12.9/11.2 | 300 | 32/24 (18/13) | 20 (9) | 925U03000VA |
| 5000/3750 | 240/208 | 1 | 21.2/18/4 | 300 | 53/40 (29/22) | 20 (9) | 925U05000VA |

(1) Total Amps = Heating element amps and motor amps.
Only available with almond finish.



UVI SERIES Vertical Unit Heater



The UVI unit heater is designed to heat buildings with high ceilings. It may also be used to re-circulate warm air that builds up near ceilings. UVI heaters can be used as primary, supplemental or dual heating systems in commercial or industrial buildings.

- Vertical Airflow: Suitable for applications in high bay industrial buildings where columns, machinery or warehouse stock would obstruct horizontal air movement.
- Air Distribution Patterns: Three optional air diffusers produce different air distribution patterns to accommodate various applications.

Applications

- Aircraft Hangars
- Factories
- Garages
- Gyms
- High Bay Areas
- Malls
- Power Generating Stations
- Shipping and Receiving Areas
- Warehouses

Standard Construction Features

Heating Elements – Steel finned tubular elements are grounded for extra safety.

Housing – Cabinet is constructed of 18-gauge galvanized steel with an almond polyester powder paint finish.

Fan Motor – Quiet, totally enclosed motor is thermally protected.

Built-in Controls – Contactor, fan override, terminal block for remote fan control and linear automatic reset thermal cutout.

Installation Requirements – Do not install heater closer than 24 inches from walls and ceiling. Mount heaters out of reach, at least eight feet from the floor.

Factory Built-in Options

| Code | Description |
|------|--|
| D1 | Disconnect Switch 40A, 600V, 3-Pole |
| D2 | Disconnect Switch 80A, 600V, 3-Pole |
| R1 | 24V Relay |
| R2 | 24V Relay with Transformer |
| X | 120V Control, fused secondary and grounded |

Field-Installed Options

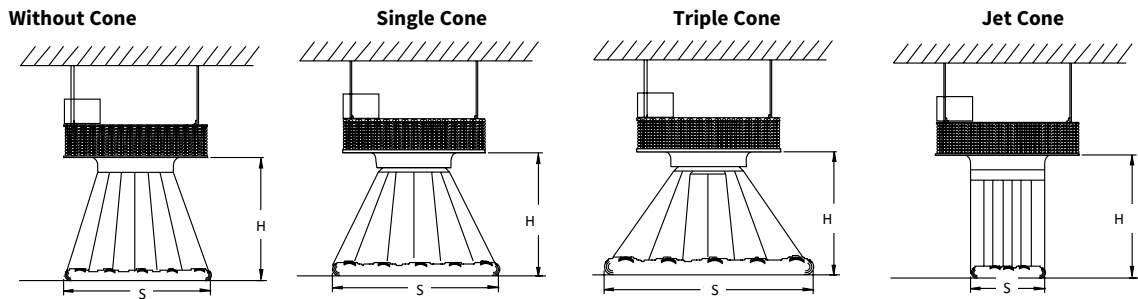
(shipped loose for field installation into heater)

| Catalog Number | Description |
|----------------|-------------------------------------|
| 928-124521* | Single Cone Diffuser 5-10 KW |
| 928-124522 | Single Cone Diffuser 15-30 KW |
| 928-124523* | Triple Cone Diffuser 5-10 KW |
| 928-124524 | Triple Cone Diffuser 15-30 KW |
| 928-124525* | Jet Cone Diffuser 5-10 KW |
| 928-124526 | Jet Cone Diffuser 15-30 KW |
| 928-124527 | 24V Relay Kit |
| 928-124528 | 24V Relay Kit with Transformer-208V |
| 928-124529 | 24V Relay Kit with Transformer-240V |

* For heater part number 928C09600UA, all diffusers must be ordered in the 15-30 kW size.

UVI SERIES Vertical Unit Heater

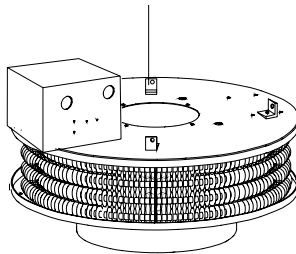
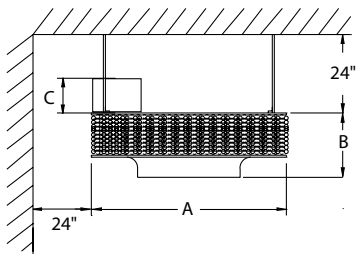
Air Distribution Patterns



Maximum Mounting Height

| KW | Without Cone | | Single Cone | | Triple Cone | | Jet Cone | |
|-------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | H Ft (m) | S Ft (m) | H Ft (m) | S Ft (m) | H Ft (m) | S Ft (m) | H Ft (m) | S Ft (m) |
| 5-10 | 12 (4) | 19 (6) | 8 (3) | 22 (7) | 10 (3) | 31 (10) | 16 (5) | 20 (6) |
| 15-30 | 18 (6) | 20 (9) | 10 (4) | 33 (10) | 14 (4) | 43 (13) | 22 (7) | 26 (9) |

Support Brackets



| Model (Without Cone) | A | B | C |
|-------------------------|--------------|------------------|------------------|
| | In. (mm) | In. (mm) | In. (mm) |
| 5-10 KW | 23-1/8 (587) | 8 (203) | 6-15/16 (176) |
| 15-30 KW | 30-1/4 (768) | 12-3/16 (310) | 6-11/16 (170) |

Line Voltage Thermostats

| Catalog Number | Switch Type | Color | Type | Tamper-proof | Thermo-meter | Amps @ 120-240V | Amps @ 277V | Pilot Duty | Positive Off | Temperature Range °F |
|-----------------|-------------|-------|------|--------------|--------------|-----------------|-------------|------------|--------------|----------------------|
| 901-124640 | Bimetal | Beige | SPST | No | No | 22 | 19 | — | No | 40-80 |
| 901-124642 | Bimetal | White | SPST | No | No | 22 | 19 | — | No | 40-80 |
| 901-124643 | Bimetal | White | DPST | No | No | 22 | 19 | — | Yes | 40-80 |
| 901-TH114-A-420 | Electronic | White | DPST | No | Digital | 15A @ 240V | — | — | No | 40-86 |

Low Voltage Thermostats

| | | | | | | | | | | |
|-------------|-----------------------|-------|------|----|----|---|---|-----------------|-----|-------|
| 901-1006998 | Bimetal | White | SPST | No | No | — | — | 30VA at 30V max | Yes | 50-90 |
| 901-219981 | Precision Snap Action | White | SPST | No | No | — | — | 36VA at 30V max | No | 45-95 |

UVI SERIES

Vertical Unit Heater

Heater Listing

| KW | Volts | Phase | Total Amps (1) | CFM | Approx. Air Temp. Rise °F (C°) | Motor Data | | | Weight lb (kg) | Catalog Number |
|------|-------|-------|----------------|------|--------------------------------|------------|------|---------|----------------|----------------|
| | | | | | | HP | RPM | Voltage | | |
| 3.2 | 480 | 3 | 4.7 | 450 | 22 (12) | 1/25 | 1050 | 208/240 | 75 (34) | 928C03200UA |
| 4.8 | 480 | 3 | 6.6 | 450 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C04800UA |
| 5 | 208 | 1 | 24.9 | 450 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C05000CA |
| | 208 | 3 | 14.7 | 450 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C05000DA |
| | 240 | 1 | 21.7 | 450 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C05000JA |
| | 240 | 3 | 12.9 | 450 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C05000KA |
| 6.4 | 480 | 3 | 8.6 | 600 | 34 (19) | 1/25 | 1050 | 208/240 | 75 (34) | 928C06400UA |
| 7.5 | 208 | 3 | 21.7 | 600 | 40 (22) | 1/25 | 1050 | 208/240 | 75 (34) | 928C07500DA |
| | 240 | 1 | 32.1 | 600 | 40 (22) | 1/25 | 1050 | 208/240 | 75 (34) | 928C07500JA |
| | 240 | 3 | 18.9 | 600 | 40 (22) | 1/25 | 1050 | 208/240 | 75 (34) | 928C07500KA |
| 9.6 | 480 | 3 | 12.5 | 1200 | 25 (14) | 1/6 | 1140 | 208/240 | 100 (48) | 928C09600UA |
| 10 | 208 | 3 | 28.6 | 750 | 41 (23) | 1/25 | 1050 | 208/240 | 75 (34) | 928C10000DA |
| | 240 | 1 | 42.5 | 750 | 41 (23) | 1/25 | 1050 | 208/240 | 75 (34) | 928C10000JA |
| | 240 | 3 | 24.9 | 750 | 41 (23) | 1/25 | 1050 | 208/240 | 75 (34) | 928C10000KA |
| 12.8 | 480 | 3 | 16.3 | 1200 | 34 (19) | 1/6 | 1140 | 208/240 | 100 (48) | 928C12800UA |
| 15 | 208 | 3 | 42.6 | 1200 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C15000DA |
| | 240 | 1 | 63.4 | 1200 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C15000JA |
| | 240 | 3 | 37 | 1200 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C15000KA |
| 16 | 480 | 3 | 20.2 | 1600 | 32 (18) | 1/6 | 1140 | 208/240 | 100 (48) | 928C16000UA |
| 19.2 | 480 | 3 | 24 | 1600 | 38 (21) | 1/6 | 1140 | 208/240 | 100 (48) | 928C19200UA |
| 20 | 208 | 3 | 56.5 | 1600 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C20000DA |
| | 240 | 1 | 84.2 | 1600 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C20000JA |
| | 240 | 3 | 49.1 | 1600 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C20000KA |
| 25 | 208 | 3 | 70.4 | 2000 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C25000DA |
| | 240 | 1 | 105.0 | 2000 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C25000JA |
| | 240 | 3 | 61.1 | 2000 | 40 (22) | 1/6 | 1140 | 208/240 | 100 (48) | 928C25000KA |
| 30 | 208 | 3 | 84.2 | 2300 | 41 (23) | 1/6 | 1140 | 208/240 | 100 (48) | 928C30000DA |
| | 240 | 1 | 125.9 | 2300 | 41 (23) | 1/6 | 1140 | 208/240 | 100 (48) | 928C30000JA |
| | 240 | 3 | 73.2 | 2300 | 41 (23) | 1/6 | 1140 | 208/240 | 100 (48) | 928C30000KA |

(1) Total Amps = Heating element amps and motor amps.
Only available with almond finish.

Accessories -

Clear universal thermostat guard. Protects both line and low voltage thermostats against vandalism, damage, and unauthorized adjustment of thermostat settings.

| Catalog Number | Description |
|----------------|---|
| 901-124644 | Inside dimensions: 6-3/8" (length), 3-1/2" (height), 3" (depth) |
| 901-F29-0198 | Inside dimensions: 8-1/4" (length), 5-3/8" (height), 3-1/2" (depth) |



901-124640



901-124642
901-124643



901-TH114-A-420



901-1006998



901-219981



901-124644



901-F29-0198

UHP Series Confined Space Unit Heater



Applications

- Parking Garages
- Crawl Spaces
- Inside Plenums
- Above Drop Ceilings



Indeeco's confined space plenum rated unit heater is the perfect heating solution for parking garages and other confined spaces.

- Easily fits between joist for typical installation.
- Zero Clearance for wall and ceiling mounting as well as floor mounting with appropriate inlet and outlet clearances.
- Bracket standard or can be mounted by 3/8" threaded rod (field supplied).
- Automatic reset thermal limit for safety.
- 1-phase model wattage field changeable from 1874 to 5000 watts.
- 24V control circuit on three phase models with hydraulic thermostat.
- Made in the USA.

Standard Construction Features

Heating Elements – Heavy-duty block fin element design. The heating element is located directly in front of the fan discharge air for uniform heating. The multiple tap electric design is factory wired for 5 kW and allows for field conversion to eight wattages at 208/240 volts single phase or at 208, 240 and 480 volts three phase.

Cabinet – The cabinet is made of heavy gauge steel casing and finished with two tone, brown and beige, durable powder coating. The bottom panel allows for access to the controls without dismounting the heater.

Control Box – Gasket control box cover to prevent dust and dirt from entering the control box. All heater wiring and controls are located at the bottom of the heater and equipped with a removable cover held in place by four screws to permit full access for installation and servicing without dismounting the heater. 24-Volt control circuit is standard on three phase heaters. Inlet and outlet protective screens are provided to prevent contact with the fan and elements.

Disconnect Switch– Optional field installed disconnect switch for full electrical disconnection at site of the heater as required by NEC.

Safety Thermal Cutouts – Automatic reset thermal safety cutout is built-in to shut off heater in the event of overheating due to any cause.

Fan Delay Control – Fan control to delay fan startup of the fan motor until the heating elements have warmed up and continue fan operation after heating elements have been de-energized to dissipate residual heat.

Temperature Control – The heater includes a built-in adjustable hydraulic thermostat.

Zero Clearance – The heater is rated for zero clearance to any surface mounted next to the sides, top, and bottom of the metal cabinet.

Fan Motor – Fan motor is totally enclosed permanently lubricated with thermal overload protection. Fan motor and controls operate directly from the line voltage.

UHP Series

Confined Space Unit Heater

Field-Installed Options

| Catalog Number | Description | Availability Code (2) |
|----------------|---------------------------------------|-----------------------|
| 1031082 | Disconnect switch, 30 Amp @ 600 Volts | AS |

Heater Listing

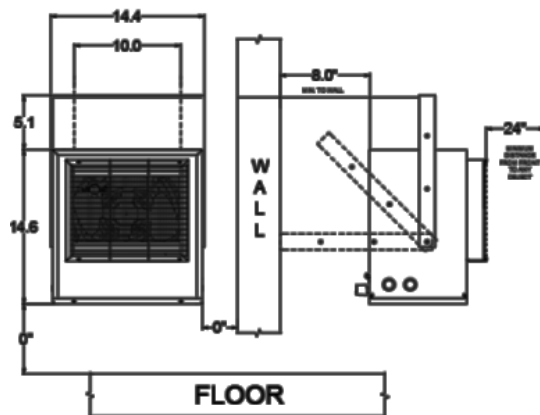
| Catalog Number | Watts (3) | BTUs | Volts (1) | Phase | Total Amps | Temp Rise °F (°C) | Temp Range °F (°C) | Air Throw (Ft.) | CFM | Wt. (Lbs) | Availability Code (2) |
|----------------|-----------|-------|-----------|-------|------------|-------------------|--------------------|-----------------|-----|-----------|-----------------------|
| P-961U5000V-T | 5000 | 17065 | 240 | 1 | 21 | 57 | 40-120 (5-49) | 16 | 275 | 32 | AS |
| | 4165 | 14215 | | | 17 | 48 | | | | | |
| | 3332 | 11365 | | | 14 | 38 | | | | | |
| | 2500 | 8533 | | | 10 | 29 | | | | | |
| | 3750 | 12798 | 208 | 1 | 18 | 43 | 40-120 (5-49) | 16 | 275 | 32 | |
| | 3123 | 10659 | | | 15 | 36 | | | | | |
| | 2500 | 8553 | | | 12 | 29 | | | | | |
| | 1874 | 6396 | | | 9 | 21 | | | | | |
| P-961U5000K-T | 3750 | 12799 | 208 | 3 | 10.4 | 57 | 40-110 (5-43) | 16 | 375 | 32 | |
| | 5000 | 17065 | 240 | | 12 | 57 | | | 275 | | |
| P-961U5000U-T | 5000 | 17065 | 480 | 3 | 6 | 57 | 40-110 (5-43) | 16 | 275 | 32 | |

(1) 60 Hz only

(2) AS = Assemble Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) 240/208 single phase unit is factory wired for 5kW. The heater may be field changed to listed wattages, see IOM for instructions.

(4) Mounting bracket and built-in thermostat included.



UHHP Series

Plenum Rated Units for Enclosed Spaces



Applications

- Concealed Areas
- Concession Stands
- Plenum Areas
- Large Entry Ways

Indeeco's UHHP plenum heater is versatile by design and is easily serviceable, if ever needed.

- 20 gauge galvanized cabinet.
- Variable speed motor, factory set at maximum. Motor speed can be field adjusted to increase heat rise.
- Acoustically insulated with 1" fiberglass.
- Access panels on both sides of cabinet.
- 24 Volt contols./ Disconnect Switch.
- Airflow switch.
- Terminal blocks.
- Single point connection
- Dust tight control enclosure.
- Filter rack on inlet with throw-away filter.
- Inlet and outlet screens and duct connection.
- Automatic primary limit control and secondary fuse link.
- Optional wall thermostat, unit thermostat or SSR control which proportionally regulates heat output.
- Made in the USA.

Standard Construction Features

Heating Elements - The heating elements are 80% nickel and 20% chromium resistance wire. The heating elements are located directly in front of the blower discharge for uniform heating.

Cabinet - The cabinet is constructed of 20 gauge galvanized steel with 1" of acoustic fiberglass insulation. Inlet and outlet are fitted with protective screens and suitable for duct connection. Access panels to fan(s) are on both sides of the cabinet. Heater control enclosure is dust tight.

Operation - The heater and fan(s) operation is controlled by either built-in or remote thermostat. Fan motor speed is field adjusted to provide desired temperature rise.

Safety Thermal Cutouts - An automatic resetting thermal cut-out for primary and fuse link cutout(s) for secondary over-temperature protection is built into the unit to provide zero clearance to combustible materials.

Motor and Blower Assembly - The PSC motor(s) and blower(s) are direct drive and resiliently mounted on a rigid heavy gauge frame for quiet operation and long life. The motor(s) is rated for continuous operation and is provided with automatic reset overload. The blower(s) is forward curved, double inlet, centrifugal type with discharge directly on the full length of the elements to provide uniform discharge air temperatures.

Air Filters- Inlet filter(s) is provided to assure clean air circulation. The throw away filter(s) is easily removed for changing from outside of the unit.

Disconnect Switch -The unit includes a door interlocking disconnect rated at a minimum of 125% of the total electrical load and has a single point electrical connection for the unit.

Built-In Controls - Clearly labeled power and control terminal blocks are provide for all field electrical connections. Pressure differential airflow switch(s) is provide to interlock airflow with the operation of the unit. Power fusing is provided for units over 48 amps as required by NEC. Magnetic disconnecting contactor(s) for stage and safety control circuit interlock, fan relay and adjustable motor speed controller are provided. Control terminal block allows for remote disabling of the fan, remote switch to be provided by the installer.

Temperature Control - The unit is designed to be controlled by a remote thermostat. Thermostat field connections are made at a clear/y marked control terminal block located inside the heater enclosure.

Fan Speed - The variable fan motor speed control is field adjustable to increase temperature rise, factory set at maximum. Controller is located inside the control enclosure for ease of adjustment.

UHHP Series

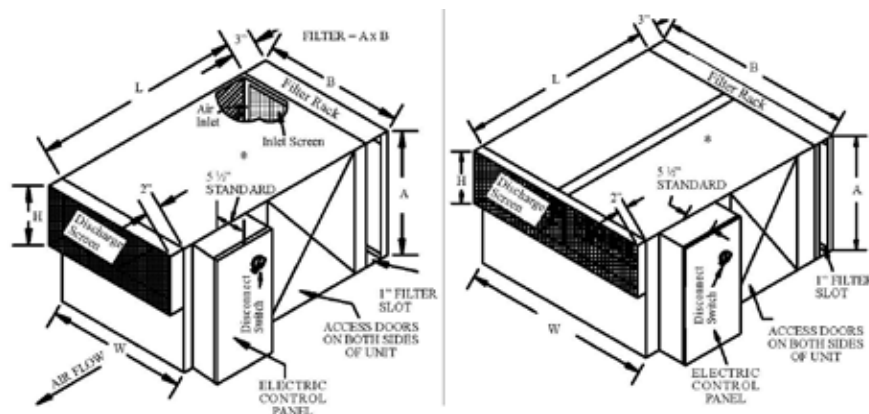
Plenum Rated Units for Enclosed Spaces

Factory Built-in Options

| Code | Description | Availability Code (2) |
|------|---|-----------------------|
| T | 1-Stage built-in adjustable thermostat | AS |
| | 2-Stage built-in adjustable thermostat | |
| U4L6 | Optional left and connection in place of standard right hand. | |

Accessory Remote Room Thermostat

| Catalog Number | Description | Availability Code (2) |
|--------------------|---|-----------------------|
| 1006998 | Single-Stage Low Voltage Remote Thermostat - White - Bimetal | AS |
| 1007030 | Two-Stage Low Voltage Remote Thermostat - White - Bimetal | |
| 1016941 | Low Voltage Electronic Remote Wall Thermostat - White - SSR - 0-10VDC Output | |
| 1016942 1016941 | Low Voltage Electronic Duct Discharge Sensor and Room Set Point adjuster - SSR - 0-10VDC Output | |



Control panel access right hand (U6L4) is standard as shown. For panel on opposite side access specify left hand (U4L6).

| 962 Series | Dimensions | | | Discharge | |
|------------|------------|---------|---------|-----------|----|
| | A (In.) | B (In.) | C (In.) | W | H |
| | 3 KW | 12 | 14 | 28 | 14 |
| 5 KW | 14 | 18 | 36 | 18 | 8 |
| 10 & 15 KW | 18 | 18 | 36 | 18 | 10 |
| 20 KW | 18 | 22 | 36 | 22 | 10 |
| 23 & 25 KW | 18 | 26 | 36 | 26 | 10 |

| 962 Series | Dimensions | | | Discharge | |
|-------------|-------------|---------|---------|-----------|----|
| | A (In.) | B (In.) | C (In.) | W | H |
| | 25-30-25 KW | 18 | 44 | 36 | 44 |
| 40-45-50 KW | 18 | 52 | 36 | 52 | 10 |

UHHP Series

Plenum Rated Units for Enclosed Spaces

Heater Listing - Stage Controlled Heaters

| Catalog Number | KW | CFM Range | Volts/Phase (1) | Total Amps for Motor & Heater | Stage | Motor Voltage | Full Load Amps for Motor | Motor HP | Wt. (Lbs.) | Availability Code (2) |
|-------------------|----|------------|-----------------|-------------------------------|-------|---------------|--------------------------|-----------------------|------------|-----------------------|
| P-962U1N03C-DU6L4 | 3 | 70-270 | 208/1 | 15.4 | 1 | 277 | 1 | 1/15 | 98 | AS |
| P-962U1N03J-DU6L4 | | | 240/1 | 13.5 | | | | | | |
| P-962U1N03N-DU6L4 | | | 277/1 | 11.83 | | | | | | |
| P-962U1N03D-DU6L4 | | | 208/3 | 9.32 | | | | | | |
| P-962U1N03K-DU6L4 | | | 240/3 | 8.21 | | | | | | |
| P-962U1N05C-DU6L4 | 5 | 200-650 | 208/1 | 25.13 | 1 | 277 | 1.1 | 1/6 | 118 | |
| P-962U1N05J-DU6L4 | | | 240/1 | 21.93 | | | | | | |
| P-962U1N05N-DU6L4 | | | 277/1 | 19.15 | | | | | | |
| P-962U1N05D-DU6L4 | | | 208/3 | 14.97 | | | | | | |
| P-962U1N05K-DU6L4 | | | 240/3 | 13.12 | | | | | | |
| P-962U1T05U-DU6L4 | | | 480/3 | 7.11 | | 480 | | | | |
| P-962U1N10D-DU6L4 | 10 | 500-1200 | 208/3 | 29.45 | 1 | 277 | 1.7 | 1/4 | 141 | |
| P-962U1N10K-DU6L4 | | | 240/3 | 25.75 | | | | | | |
| P-962U1N10U-DU6L4 | | | 480/3 | 13.72 | | | | | | |
| P-962U2N10D-DU6L4 | | | 208/3 | 29.45 | 2 | | | | | |
| P-962U2N10K-DU6L4 | | | 240/3 | 25.75 | | | | | | |
| P-962U2T10U-DU6L4 | | | 480/3 | 13.75 | | | | | | |
| P-962U1N15D-DU6L4 | 15 | 500-1200 | 208/3 | 43.33 | 1 | 277 | 1.7 | 1/4 | 141 | |
| P-962U1T15U-DU6L4 | | | 240/3 | 37.78 | | | | | | |
| P-962U1T15U-DU6L4 | | | 480/3 | 19.74 | | | | | | |
| P-962U2N15D-DU6L4 | | | 208/3 | 43.3 | 2 | | | | | |
| P-962U2N15K-DU6L4 | | | 240/3 | 37.78 | | | | | | |
| P-962U2T15U-DU6L4 | | | 480/3 | 19.74 | | | | | | |
| P-962U2N20D-DU6L4 | 20 | 750-1600 | 208/3 | 58.01 | 2 | 277 | 2.5 | 1/2 | 163 | |
| P-962U2N20K-DU6L4 | | | 240/3 | 50.61 | | | | | | |
| P-962U2T20U-DU6L4 | | | 480/3 | 26.55 | | | | | | |
| P-962U2N23D-DU6L4 | 23 | 1300-2000 | 208/3 | 68.14 | 2 | 277 | 4.3 | 3/4 | 210 | |
| P-962U2N23K-DU6L4 | | | 240/3 | 59.63 | | | | | | |
| P-962U2T25U-DU6L4 | 25 | | 480/3 | 34.37 | | | | | | |
| P-962U2N30K-DU6L4 | 30 | 1800-2800 | 240/3 | 78.47 | 2 | 277 | 6.3 | 2Motors @ 1/2 HP each | 278 | |
| P-962U2T30U-DU6L4 | | | 480/3 | 42.38 | | | | | | |
| P-962U2T35U-DU6L4 | 35 | | 480/3 | 48.39 | | | | | | |
| P-962U2T40U-DU6L4 | 40 | 2000-36000 | 480/3 | 56.71 | 2 | 480 | 8.6 | 2Motors @ 3/4 HP each | 319 | |
| P-962U2T45U-DU6L4 | 45 | | | 62.72 | | | | | | |
| P-962U2T50U-DU6L4 | 50 | | | 68.74 | | | | | | |

UHHP Series

Plenum Rates Units for Enclosed Spaces

Heater Listing - SSR Controlled Heaters

| Catalog Number | KW | CFM Range | Volts/Phase (1) | Total Amps for Motor & Heater | Stage | Motor Voltage | Full Load Amps for Motor | Motor HP | Wt. (Lbs.) | Availability Code (2) |
|--------------------|----|-----------|-----------------|-------------------------------|-------|---------------|--------------------------|------------------------|------------|-----------------------|
| P-962U1N03C-DEU6L4 | 3 | 70-270 | 208/1 | 15.4 | SSR | 277 | 1 | 1/15 | 98 | C |
| P-962U1N03J-DEU6L4 | | | 240/1 | 13.5 | | | | | | |
| P-962U1N03N-DEU6L4 | | | 277/1 | 11.83 | | | | | | |
| P-962U1N03D-DEU6L4 | | | 208/3 | 9.32 | | | | | | |
| P-962U1N03K-DEU6L4 | | | 240/3 | 8.21 | | | | | | |
| P-962U1N05C-DEU6L4 | 5 | 200-650 | 208/1 | 25.13 | | 277 | 1.1 | 1/6 | 118 | |
| P-962U1N05J-DEU6L4 | | | 240/1 | 21.93 | | | | | | |
| P-962U1N05N-DEU6L4 | | | 277/1 | 19.5 | | | | | | |
| P-962U1N05D-DEU6L4 | | | 208/3 | 14.97 | | | | | | |
| P-962U1N05K-DEU6L4 | | | 240/3 | 13.12 | | | | | | |
| P-962U1T05U-DEU6L4 | | | 480/3 | 7.11 | | 480 | | | | |
| P-962U1N10D-DEU6L4 | 10 | 500-1200 | 208/3 | 29.45 | | 277 | 1.7 | 1/4 | 141 | |
| P-962U1N10K-DEU6L4 | | | 240/3 | 25.75 | | | | | | |
| P-962U1N10U-DEU6L4 | | | 480/3 | 13.72 | | | | | | |
| P-962U1N15D-DEU6L4 | 15 | 500-1200 | 208/3 | 43.33 | | 277 | 1.7 | 1/4 | 141 | |
| P-962U1N15K-DEU6L4 | | | 240/3 | 37.78 | | | | | | |
| P-962U1T15U-DEU6L4 | | | 480/3 | 19.74 | | | | | | |
| P-962U2T20U-DEU6L4 | 20 | 750-1600 | 480/3 | 26.55 | | 480 | 2.5 | 1/2 | 163 | |
| P-962U2T25U-DEU6L4 | 25 | 1300-2000 | 480/3 | 34.37 | | | 4.3 | 3/4 | 201 | |
| P-962U2T30U-DEU6L4 | 30 | 1800-2800 | 480/3 | 42.38 | | | 6.3 | 2 Motors @ 1/2 HP each | 278 | |
| P-962U2T35U-DEU6L4 | 35 | | 480/3 | 48.39 | | | | | | |

(1) 60 Hz only

(2) AS = Assemble Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) Default/standard hand-of-connection is right hand (U6L4) optional left hand (U4L6) is available, see optional features.

(4) Built-in door interlocking disconnect switch is included.

UHLP Series

Low Profile Plenum Heater



Indeeco's low profile plenum heater is designed to fit jobs where the clear space between the ceiling and the floor above is as small as 11-3/4 inches.

Applications

- Low Clearance Ceilings
- Low Clearance Floors
- Concealed Areas
- Concession Stands
- Plenum Areas
- Large Entry Ways

- 20 gauge galvanized cabinet.
- Variable speed motor, factory set at maximum. Motor speed can be field adjusted to increase heat rise.
- Acoustically insulated with 1" fiberglass.
- Access panels on bottom of unit.
- 24 Volt controls / Disconnect Switch.
- Airflow switch.
- Terminal blocks.
- Single point connection
- Dust tight control enclosure.
- Filter rack on inlet with throw-away filter.
- Inlet and outlet screens and duct connection.
- Automatic primary limit control and secondary fuse link.
- Optional wall thermostat, unit thermostat or SSR control which proportionally regulates heat output.
- Made in the USA.

Standard Construction Features

Heating Elements - The heating elements are 80% nickel and 20% chromium resistance wire. The heating elements are located directly in front of the blower discharge for uniform heating.

Cabinet - The cabinet is constructed of 20 gauge galvanized steel with 1" of acoustic fiberglass insulation. Inlet and outlet are fitted with protective screens and suitable for duct connection. Access panels to fan(s) are on both sides of the cabinet. Heater control enclosure is dust tight.

Operation - The heater and fan(s) operation is controlled by either built-in or remote thermostat. Fan motor speed is field adjusted to provide desired temperature rise.

Safety Thermal Cutouts - An automatic resetting thermal cutout for primary and fuse link cutout(s) for secondary over-temperature protection is built into the unit to provide

zero clearance to combustible materials.

Motor and Blower Assembly - The PSC motor(s) and blower(s) is direct drive and resiliently mounted on a rigid heavy gauge frame for quiet operation and long life. The motor(s) is rated for continuous operation and is provided with automatic reset overload. The blower(s) is forward curved, double inlet, centrifugal type with discharge directly on the full length of the elements to provide uniform discharge air temperatures.

Air Filters - Inlet filter(s) is provided to assure clean air circulation. The throw away filter(s) is easily removed for changing from outside of the unit.

Disconnect Switch - The unit includes a door interlocking disconnect rated at a minimum of 125% of the total electrical load and has a single point electrical connection for the unit.

Built-In Controls - Clearly labeled power and control ter-

UHLP Series

Low Profile Plenum Heater

Standard Construction Features (continued)

terminal blocks are provided for all field electrical connections. Pressure differential airflow switch(s) is provided to interlock airflow with the operation of the unit. Power fusing is provided for units over 48 amps as required by NEC. Magnetic disconnecting contactor(s) for stage and safety control circuit interlock, fan relay and adjustable motor speed controller is provided. Control terminal block allows for remote disabling of the fan, remote switch to be provided by the installer.

Temperature Control - The unit is designed to be controlled

by a remote thermostat. Thermostat field connections are made at a clearly marked control terminal block located inside the heater enclosure.

Fan Speed – The variable fan motor speed control is field adjustable to increase temperature rise, factory set at maximum. Controller is located inside the control enclosure for ease of adjustment.

Heater Listing - Stage Controlled Heaters

| Catalog Number | KW | CFM Range | Volts/Phase (1) | Total Amps for Motor & Heater | Stage | Motor Voltage | Full Load Amps for Motor | Motor HP | Wt. (Lbs.) | Availability Code (2) | | | | | | |
|-------------------|----|-----------|-----------------|-------------------------------|-------|---------------|--------------------------|------------------------|------------|-----------------------|----|---|-----|---|------------------------|-----|
| P-963U1N05C-DU6L4 | 5 | 170-950 | 208/1 | 26 | 1 | 277 | 2 | 1/4 | 163 | C | | | | | | |
| P-963U1N05J-DU6L4 | | | 240/1 | 22 | | | | | | | | | | | | |
| P-963U1N05N-DU6L4 | | | 277/1 | 20 | | | | | | | | | | | | |
| P-963U1N05D-DU6L4 | | | 208/3 | 15 | | | | | | | | | | | | |
| P-963U1N05K-DU6L4 | | | 240/3 | 14 | | | | | | | | | | | | |
| P-963U1T05U-DU6L4 | | | 480/3 | 8 | | | | | | | | | | | | |
| P-963U1N10D-DU6L4 | 10 | 170-950 | 208/3 | 30 | 2 | 277 | 2 | 1/4 | 163 | | | | | | | |
| P-963U1N10K-DU6L4 | | | 240/3 | 26 | | | | | | | | | | | | |
| P-963U1T10U-DU6L4 | | | 480/3 | 14 | | | | | | | | | | | | |
| P-963U2N10D-DU6L4 | | | 208/3 | 30 | | | | | | | | | | | | |
| P-963U2N10K-DU6L4 | | | 240/3 | 26 | | | | | | | | | | | | |
| P-963U2T10U-DU6L4 | | | 480/3 | 14 | | | | | | | | | | | | |
| P-963U1N12K-DU6L4 | 12 | 270-1500 | 240/3 | 32 | 1 | 277 | 3 | 2 Motors @ 1/4 HP Each | 219 | | | | | | | |
| P-963U1T12U-DU6L4 | | | 480/3 | 17 | | | | | | | | | | | | |
| P-963U2N12D-DU6L4 | | | 208/3 | 37 | | | | | | | | | | | | |
| P-963U2N12K-DU6L4 | | | 240/3 | 32 | | | | | | | | | | | | |
| P-963U2T12U-DU6L4 | | | 480/3 | 17 | | | | | | | | | | | | |
| P-963U2T12U-DU6L4 | | | 240/3 | 39 | | | | | | | | | | | | |
| P-963U1T15U-DU6L4 | 15 | 270-1500 | 480/3 | 21 | 1 | 277 | 3 | 2 Motors @ 1/4 HP Each | 219 | | | | | | | |
| P-963U2N15D-DU6L4 | | | 208/3 | 45 | | | | | | | | | | | | |
| P-963U2N15K-DU6L4 | | | 240/3 | 39 | | | | | | | | | | | | |
| P-963U2T15U-DU6L4 | | | 480/3 | 21 | | | | | | | | | | | | |
| P-963U1T18U-DU6L4 | | | 18 | 270-1500 | | | | | | 480/3 | 25 | 1 | 480 | 3 | 2 Motors @ 1/4 HP Each | 219 |
| P-963U2T18U-DU6L4 | | | | | | | | | | 480/3 | 25 | | | | | |

(1) 60 Hz only

(2) AS = Assemble Stock, AS listed heaters ordered with custom (C) features are subject to longer lead times.

(3) Default/standard hand-of-connection is right hand (U6L4) optional left hand (U4L6) is available, see optional features.

(4) Built-in door interlocking disconnect switch is included.

UHLP Series

Low Profile Plenum Heater

Heater Listing - SSR Controlled Heaters

| Catalog Number | KW | CFM Range | Volts/Phase (1) | Total Amps for Motor & Heater | Stage | Motor Voltage | Full Load Amps for Motor | Motor HP | Wt. (Lbs.) | Availability Code (2) |
|--------------------|----|-----------|-----------------|-------------------------------|-------|---------------|--------------------------|------------------------|------------|-----------------------|
| P-963U1N05C-DEU6L4 | 5 | 170-950 | 208/1 | 26 | SSR | 277 | 2 | 1/4 | 163 | C |
| P-963U1N05J-DEU6L4 | | | 240/1 | 22 | | | | | | |
| P-963U1N05N-DEU6L4 | | | 277/1 | 20 | | | | | | |
| P-963U1N05D-DEU6L4 | | | 208/3 | 15 | | | | | | |
| P-963U1N05K-DEU6L4 | | | 240/3 | 14 | | | | | | |
| P-963U1T05U-DEU6L4 | | | 480/3 | 8 | | | | | | |
| P-963U1N10D-DEU6L4 | 10 | | 208/3 | 30 | | 277 | | | | |
| P-963U1N10K-DEU6L4 | | | 240/3 | 26 | | 480 | | | | |
| P-963U1T10U-DEU6L4 | | | 480/3 | 14 | | 277 | | | | |
| P-963U1N12K-DEU6L4 | 12 | | 240/3 | 32 | | 480 | 3 | 2 Motors @ 1/4 HP Each | 219 | |
| P-963U1T12U-DEU6L4 | | | 480/3 | 17 | | 277 | | | | |
| P-963U1N15K-DEU6L4 | 15 | 270-1500 | 240/3 | 39 | | 480 | | | | |
| P-963U1T15U-DEU6L4 | | | 480/3 | 21 | 480 | | | | | |
| P-963U1T18U-DEU6L4 | | | 18 | 480/3 | 25 | 480 | | | | |

Factory Built-in Options

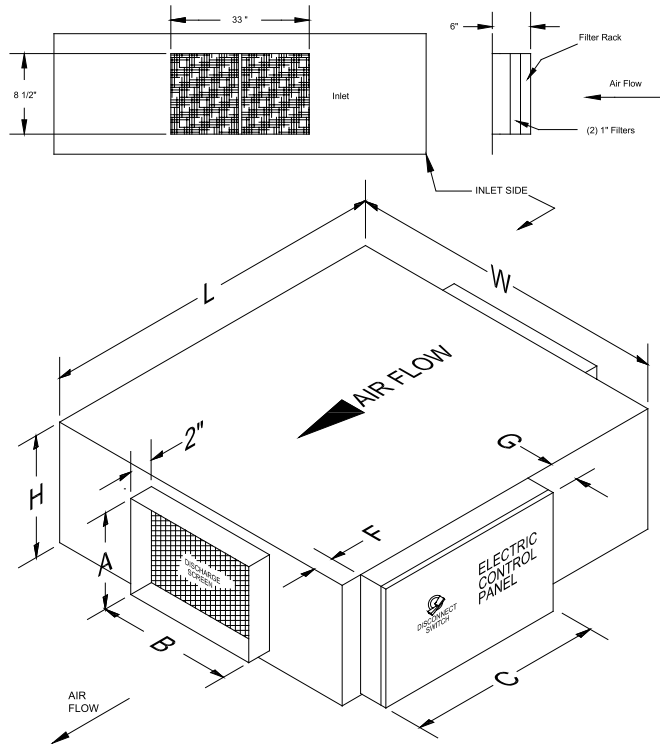
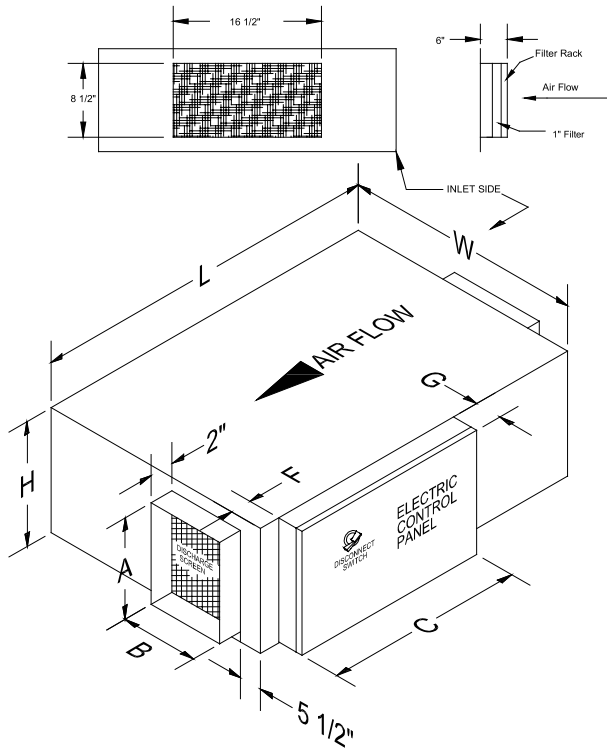
| Code | Description | Availability Code (2) |
|------|---|-----------------------|
| T | 1-Stage built-in adjustable thermostat | AS |
| | 2-Stage built-in adjustable thermostat | |
| U4L6 | Optional left and connection in place of standard right hand. | |

Accessory Remote Room Thermostat

| Catalog Number | Description | Availability Code (2) |
|--------------------|---|-----------------------|
| 1006998 | Single-Stage Low Voltage Remote Thermostat - White - Bimetal | AS |
| 1007030 | Two-Stage Low Voltage Remote Thermostat - White - Bimetal | |
| 1016941 | Low Voltage Electronic Remote Wall Thermostat - White - SSR - 0-10VDC Output | |
| 1016942 1016941 | Low Voltage Electronic Duct Discharge Sensor and Room Set Point adjuster - SSR - 0-10VDC Output | |

UHLP Series

Low Profile Plenum Heater



Control panel access right hand (U6L4) is standard as shown. For panel on opposite side access specify left hand (U4L6).

| Dimensions | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|-----------|----|
| P-963 | C In. | F In. | G In. | H In. | L In. | W In. | Discharge | |
| | | | | | | | A | B |
| 5 & 10 KW | 28.75 | 1 | 6 | 11.75 | 45 | 26 | 8 | 10 |

| Dimensions | | | | | | | | |
|---------------|----------|----------|----------|----------|----------|----------|-----------|----|
| P-963 | C In. | F In. | G In. | H In. | L In. | W In. | Discharge | |
| | | | | | | | A | B |
| 12, 15 & 18KW | 28.75 | 2 | 6 | 11.75 | 45 | 43 | 8 | 20 |

Note: Dimensions C and G will vary with accessories.

Color Selection Chart

Standard Colors 900 Series



Almond (A)

Refer to catalog listings for standard and special color availability. Use color codes in parentheses when specifying and ordering. Custom colors are also available on 900 Series. Special and Optional Colors subject to setup charges. Colors represented are approximate.

Standard Color 240 Series



Camel

Optional Colors 240 Series



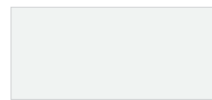
Grey



Yellow



Red



White



Blue



Textured
Beige

Limited Warranty

Indeeco new products are warranted against defects in workmanship, material, design, labeling and packaging. No other warranty, expressed or implied, written or oral, applies. No person other than an officer or the general manager of Indeeco is authorized to give any other warranty or assume any liability.

Warranty Period

Warranty periods differ between product lines. See chart on following page for item specific warranty periods.

Conditions of Warranty

Indeeco products must be installed, operated, and maintained in accordance with Indeeco's instructions. Indeeco is not liable for damage or unsatisfactory performance of the product resulting from accident, negligence, alteration, unauthorized repair, improper application or installation of the product, improper specifications, or corrosion. Indeeco IS NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Claims against carriers for damage in transit must be filed by the purchaser with the carrier.

Remedy


Contact Indeeco sales department at (314) 644-4300 or sales@indeeco.com, for a Return Material Authorization Number (RMA#) and return instructions.

If after receipt of the product and the claim, Indeeco finds to its reasonable satisfaction that the product is defective in workmanship, material, design, labeling or packaging, the product will be repaired or replaced, or the purchase price refunded at Indeeco's option. There will be no charge to the purchaser for parts or labor. Removal and reinstallation of the product, and shipment of the product to Indeeco for repair or inspection, shall be at the purchaser's risk and expense.

THE REPAIR, REPLACEMENT, OR REFUND PROVIDED FOR IN THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE TERMS OF THIS LIMITED WARRANTY.

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When you need more than an off-the-shelf, standardized product.
Ask **More.**