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Heatrex 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 Heatrex's complete line of explosionproof and fan-forced electric unit heaters. Our products

Use of Electric Heaters in Hazardous Locations

include 233 Series and 236 Series Explosion-proof Unit Heaters; a 254 Series explosion-proof convector; the 234 Series Washdown/Corrosion Resistant Unit Heater; and several types of standard unit heaters.

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

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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

Temperature Class

(T Code)

Τ1

T2

Т3

T4

T5

T6

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.

Zone Classification

Maximum Surface

Temperature °C

≤ 450

≤ 300

≤ 200

≤ 135

≤ 100

≤ 85

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	
Temperature Class (T Code)	Maximum Surface Temperature ⁰F (ºC)	
T1	≤ 842 (≤ 450)	
T2	≤ 572 (≤ 300)	
T2A	≤ 536 (≤ 280)	
T2B	≤ 500 (≤ 260)	
T2C	≤ 446 (≤ 230)	
T2D	≤ 419 (≤ 215)	
T3	≤ 392 (≤ 200)	
ТЗА	≤ 356 (≤ 180)	
ТЗВ	≤ 329 (≤165)	
T3C	≤ 320 (≤ 160)	
T4	≤ 275 (≤135)	
T4A	≤ 248 (≤ 120)	
T5	≤ 212 (≤100)	
T6	≤ 185 (≤ 85)	

Use of Electric Heaters IN HAZARDOUS LOCATIONS

Special Requirements for Electric Heating Equipment used in Hazardous Areas

Electric heating equipment can be economically designed and safely used in hazardous areas if the following special requirements are observed.

- The surface temperature of the electric heating equipment cannot exceed the ignition temperature of the hazardous atmosphere. To insure that the proper heater has been selected, it is essential that the correct NEC Ignition Temperature Code be specified.
 - If the temperature code selected is too high, the electric heating system may operate above the ignition point of the application, creating a potentially hazardous condition.
- 2. All arc and spark-producing control devices must be isolated from the hazardous atmosphere. If it is not economically feasible to locate the control devices in the non-hazardous area, they must be housed in an enclosure that will withstand the pressure of a potential explosion from within the enclosure.
- 3. All electrical supply connections must be made according to the latest NEC and local code requirements for hazardous locations. This includes the requirement that conduit entering the enclosures must be provided with seals at the enclosure.

LASS	I - HAZARDOUS GAS ATMO	SPHERES			CLASS	I - HAZARDOUS GAS ATMOSP	HERES		
		Ignition '	Temp.	NEC			Ignition	Temp.	NE
roup	Material	°F	°C	Code	Group	Material	°F	°C	Cod
Α	Acetylene	581	305	T2	D	Methyl Isobutyl Ketone	840	448	
В	Acrolein (Inhibited)	428	220	T2D		2-Methyl-1-Propanol	700	415	
	Butadiene	788	420	T2		(Isobutyl Alcohol)	780	415	
	Ethylene Oxide	804	429	T2		Petroleum Naptha	550	288	
	Hydrogen	932	500	T1		Pyridine	900	482	
	Propylene Oxide	840	449	T2		Octanes	403	206	
	Propyl Nitrate	347	175	T3B		Pentanes	500	260	
С	Acetaldehyde	347	175	T3B		1-Pentanol (Amyl Alchohol)	650	343	
	Allyl Alcohol	713	378	T2		Propane	842	450	
	Carbon Monoxide	1128	609	T1		1-Propanol (Propyl Alchohol)	775	412	
	Cyclopropane	928	498	T1		2-Propanol (Isopropyl Alcohol)	750	399	
	Ethylene	842	450	T1		Propylene	851	455	
	Hydrogen Cyanide	1000	538	T1		Styrene	914	490	
	Hydrogen Sulfide	500	260	T2B		Toluene	896	480	
	2-Nitropropane	802	428	T2		Vinyl Acetate	756	402	
	Tetrahydrofuran	610	321	T2		Vinyl Chloride		472	
D	Acetic Acid (Glacia)	867	463	T1		Xylenes	867-	463-	
	Acetone	869	465	T1		Ayteries	984	528	
	Ammonia, Anhydrous	1204	651	T1	CLASS	II - HAZARDOUS DUST ATMOS	SPHERES		
	Benzene	928	498	T1			Ignition Temp.		
	Butane	550	287	T2A	Group	Material	°F	°C	C
	1-Butanol (Butyl Alcohol)	650	343	T2	Е	Aluminum, A422 Flake	608	320	
	2-Butanol	761	405	T2		Calcium Silicide	1004	540	
	(Secondary Butyl Alcohol)					Manganese	464	240	
	Ethane	882	472	T1		Magnesium, Grade B, Milled	806	430	
	Ethanol (Ethyl Alcohol)	685	363	T2	F	Charcoal	356	180	
	Ethyl Acetate	800	427	T2		Coal, Kentucky Bituminous	356	180	
	Ethylene Dichloride	775	413	T2		Coal, Pittsburgh Experimental	338	170	
	Gasoline (56-60 Octane)	536	280	T2A		Pitch, Petroleum	1166	630	
	Gasoline (100 Octane)	853	456	T1	G	Alkyl Ketone Dimer	220	100	
	Heptanes	399	204	T3		Sizing Compound	320	160	
	Hexanes	437	235	T2D		Corn	482	250	
	Isoprene	428	220	T2D		Corn Starch, Modified	392	200	
	Isopropyl Ether	830	443	T2		Polyurethane Foam,	724	200	
	Mothana (Natural Cas)	900-	482-	T1		Fire Retardant	734	390	
	Methane (Natural Gas)	1170	632			Shellac	752	400	
	Methanol (Methyl Alcohol)	867	454	T1		Soy Flour	374	190	
	3-Methyl-1-Butanol					Sugar, Powdered	698	370	
	(Isoamyl Alcohol)	662	350	T2		Sulfur	428	220	
		750	404	T2			428	220	
	Methyl Ethyl Ketone	759	404			Wheat	420	2211	

Comparison Chart

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

233 Series

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	233 Series
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 1, Zones 1 and 2, Groups IIB
Ignition Temperature Code	T3C 320°F (160°C)
KW Range	Up to 35 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	
	_c CSA _{us}



Comparison Chart

236 Series

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



254 Series Convector

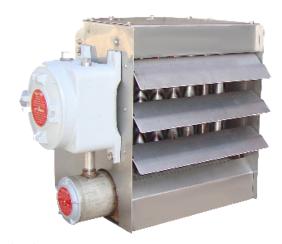
Small, compact design with a wide range of optional built-in controls.



236 Series	254 Series 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 CSA _{us}	_c CSA _{us}



UNIT HEATER



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 (Option C1 recommended)
- · 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)



Heatrex's 233 Series explosion-proof unit heater is designed with both safety and versatility in mind. Unique 233 Series 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 raintight 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:Heatrex 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.

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 Heatrex 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.



233 Series 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.	С
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.	С
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).	С
К	"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
М	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
Т	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.

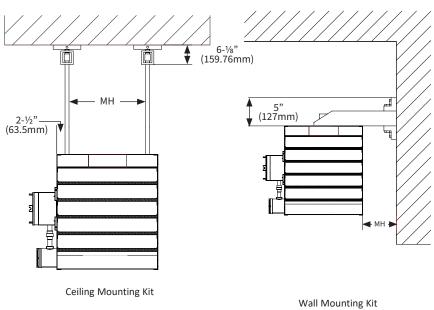


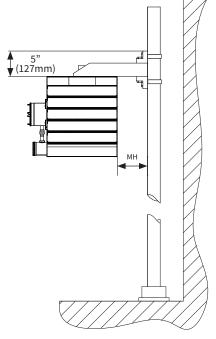
UNIT HEATER

Accessory Items

233 Series 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)

Pole Mounting Kit

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

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



233 Series UNIT HEATER

Accessory Remote Thermostat

Catalog Number	Switch Type	Description	Туре	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)	
HX-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)	AS
HX-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)	
1036506	Bimetal	Class I, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G Class III IP66, Type 4	SPDT	480V, 15A	40-80 (5-25)	AS

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	
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	AS



UNIT HEATER

Dimensions, Airflows and Weights

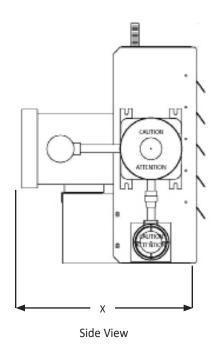
Fran	me Size	Size 1	Size 2	Size 3
Overall	'X' In. (mm)	22.50 (571.50)	22.50 (571.50)	22.75 (577.85)
Heater	'Y' In. (mm)	19.375 (492.125)	23.375 (593.725)	27.375 (695.325)
Dimensions	'Z' In. (mm)	16.063 (408)	20.188 (512.775)	24.188 (614.375)
\\/ -: -l-+	Net Lbs. (kgs)	110 (49.89)	150 (68.03)	190 (86.18)
Weight	Shipping Lbs (kgs)	130 (58.96)	169 (76.65)	216 (97.97)

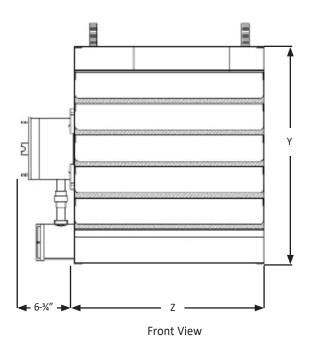
60 Hertz Heaters

	KW Range	3 - 5	7.5 - 10	15	20	25	30 - 35	
Airflow	Air Volume CFM (cubic meter/hr.)	650 (1104)	850 (1444)	1800 (3058)		3110 (5283)	3850 (6541)	
Characteristics	Air Throw Feet (m)	15 (4.5)	25 (7.6)	45 (13.7)		65 (19.8)	75 (22.8)	
	RPM	1725						
Motor/Fan	HP		1/4				1/2	
	Fan Blade Dia. In. (mm)	12 (3	04.8)	16 (406.4)			20 (508)	

50 Hertz Heaters

	KW Range			12.5	16.7	21 - 25	
Airflow	Air Volume CFM (cubic meter/hr.)	550 (934)				2600 (4417)	
Characteristics	Air Throw Feet (m)	13 (4)	22 (7)	39 (12)		57 (17)	
	RPM			143	8		
Motor/Fan	HP		1/4	4		1/2	
	Fan Blade Dia. In. (mm)	12 (3	04.8)	16 (406.4)		20 (508)	







233 Series Unit Heater Listing 60 Hz

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) UNIT HEATER



					Temperature couc		
KW	Volts	Phase	Total Amps (1)	Frame Size	Approximate Air Temperature Rise °F (°C)	Catalog Number	Availability (2)
	208	1	17	1	15 (8)	HX-233-FA-0036C	
	240	1	15	1	15 (8)	HX-233-FA-0036J	
	208	3	10	1	15 (8)	HX-233-FA-0036D	
3	240	3	9	1	15 (8)	HX-233-FA-0036K	
	480	3	5	1	15 (8)	HX-233-FA-0036U	
	600	3	4	1	15 (8)	HX-233-FA-0036Z	
	208	1	26	1	25 (13)	HX-233-FA-0056C	
	240	1	23	1	25 (13)	HX-233-FA-0056J	
5	208	3	16	1	25 (13)	HX-233-FA-0056D	
5	240	3	14	1	25 (13)	HX-233-FA-0056K	
	480	3	7	1	25 (13)	HX-233-FA-0056U	
	600	3	6	1	25 (13)	HX-233-FA-0056Z	
	208	1	38	1	28 (16)	HX-233-FA-0086C	
	240	1	34	1	28 (16)	HX-233-FA-0086J	
7.5	208	3	23	1	28 (16)	HX-233-FA-0086D	
1.5	240	3	20	1	28 (16)	HX-233-FA-0086K	
	480	3	10	1	28 (16)	HX-233-FA-0086U	
	600	3	9	1	28 (16)	HX-233-FA-0086Z	AS
	240	1	44	1	38 (21)	HX-233-FA-0106J	
	208	3	30	1	38 (21)	HX-233-FA-0106D	
10	240	3	26	1	38 (21)	HX-233-FA-0106K	
	480	3	13	1	38 (21)	HX-233-FA-0106U	
	600	3	11	1	38 (21)	HX-233-FA-0106Z	
	208	3	44	2	27 (15)	HX-233-FB-0156D	
1.5	240	3	38	2	27 (15)	HX-233-FB-0156K	
15	480	3	19	2	27 (15)	HX-233-FB-0156U	
	600	3	16	2	27 (15)	HX-233-FB-0156Z	
20	480	3	25	2	35 (19)	HX-233-FB-0206U	
20	600	3	21	2	35 (19)	HX-233-FB-0206Z	
25	480	3	31	3	26 (14)	HX-233-FC-0256U	
25	600	3	25	3	26 (14)	HX-233-FC-0256Z	
20	480	3	37	3	25 (13)	HX-233-FC-0306U	
30	600	3	30	3	25 (13)	HX-233-FC-0306Z	
35	480	3	43	3	29 (16)	HX-233-FC-0356U	
	600	3	35	3	29 (16)	HX-233-FC-0356Z	

⁽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.

UNIT HEATER

233 Series Unit Heater Listing 50 Hz

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)



KW	Volts	Phase	Total Amps (1)	Frame Size	Approximate Air Temperature Rise °F (°C)	Catalog Number	Availability (2)
	220	1	14	1	14 (8)	HX-233-FA-0036E	
	220	3	9	1	14 (8)	HX-233-FA-0036F	
2.5	380	3	6	1	14 (8)	HX-233-FA-0036G	
	400	3	6	1	14 (8)	HX-233-FA-0036H	
	415	3	5	1	14 (8)	HX-233-FA-0036I	
	220	1	21	1	24 (13)	HX-233-FA-0056E	
	220	3	13	1	24 (13)	HX-233-FA-0056F	
4.2	380	3	9	1	24 (13)	HX-233-FA-0056G	
	400	3	8	1	24 (13)	HX-233-FA-0056H	
	415	3	7	1	24 (13)	HX-233-FA-0056I	
	220	1	31	1	28 (16)	HX-233-FA-0076E	
	220	3	19	1	28 (16)	HX-233-FA-0076F	
6.3	380	3	12	1	28 (16)	HX-233-FA-0076G	
	400	3	11	1	28 (16)	HX-233-FA-0076H	
	415	3	10	1	28 (16)	HX-233-FA-0076I	
	220	1	40	1	38 (21)	HX-233-FA-0096E	
	220	3	24	1	38 (21)	HX-233-FA-0096F	С
8.4	380	3	15	1	38 (21)	HX-233-FA-0096G	
	400	3	13	1	38 (21)	HX-233-FA-0096H	
	415	3	13	1	38 (21)	HX-233-FA-0096I	
	220	3	35	2	26 (14)	HX-233-FB-0136F	
12.5	380	3	21	2	26 (14)	HX-233-FB-0136G	
12.5	400	3	19	2	26 (14)	HX-233-FB-0136H	
	415	3	18	2	26 (14)	HX-233-FB-0136I	
	220	3	46	2	35 (19)	HX-233-FB-0176F	
16.7	380	3	28	2	35 (19)	HX-233-FB-0176G	
10.7	400	3	25	2	35 (19)	HX-233-FB-0176H	
	415	3	24	2	35 (19)	HX-233-FB-0176I	
	380	3	33	3	26 (14)	HX-233-FC-0216G	
21	400	3	32	3	26 (14)	HX-233-FC-0216H	
	415	3	31	3	26 (14)	HX-233-FC-0216I	
	380	3	39	3	30 (17)	HX-233-FC-0256G	
25	400	3	37	3	30 (17)	HX-233-FC-0256H	
	415	3	36	3	30 (17)	HX-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.

UNIT HEATER





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

Heatrex's 236 Series explosion-proof unit heater is designed with both size and economy in mind. 236 Series advantages and unique features include:

- 236 Series Size: This small design is only 13 inches wide, which makes it ideal for applications where limited space is available.
- Low Cost: The 236 Series 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.

Applications

- Chemical Storage/ Handling Areas
- Compressor Stations
- · 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 Heatrex.

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 236 Series 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.



UNIT HEATER

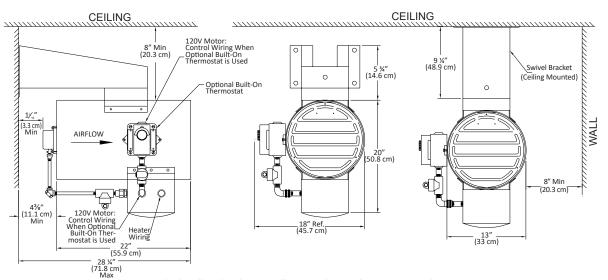
Custom Options

Code	Option	Description	Availability Code (2)
С	Dirty Duty Corrosion Resistant Construction	Includes polyester powder coated fan blade, wiring conduit and fittings, NEMA 4X, 7, 9 enclosure.	С
М	Manual Reset Cutout	Can be specified to replace secondary automatic cutout.	С
Т	Adjustable Thermostat	Factory installed and prewired to the control enclosure. Thermostat is adjustable from 50° to 90°F (10° to 32°C) range.	С

⁽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	T3	T2C	T2	T1	T1	
Approximate Air Ter	mperature Rise °F (°C)	9 (5)	15 (8)	22 (12)	31 (17)	37 (21)
Airflow	Air Volume CFM (cubic meters/hr)	1050 (1784)	1050 (1784)	1050 (1784)	1050 (1784)	1050 (1784)
Characteristics	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)
	RPM	1725	1725	1725	1725	1725
Motor/Fan	HP	1/6	1/6	1/6	1/6	1/6
	Fan Blade Dia. Inch (cm)	12 (31)				
Net Lbs (kgs)				96 (44)		
Weight	Shipping Lbs (kgs)	110 (50)				



Standard Wall and Ceiling Installation with Swivel Mounting Bracket



UNIT HEATER

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

236 Series Unit Heater Listing

Ignition Temperature Code °F (°C)	KW	Volts	Phase	Heater Amps (1)	Catalog Number	Availability Code (2)
		208	1	14.5	HX-236-F01T-0037C-7300	С
		240	1	12.5	HX-236-F01T-0037J-7301	С
		480	1	6.3	HX-236-F01T-0037T-7302	С
T3 392 (200)	3	208	3	8.4	HX-236-F01T-0037D-7303	С
332 (200)		240	3	7.3	HX-236-F01T-0037K-7304	С
		480	3	3.7	HX-236-F01T-0037U-7305	С
		600	3	2.9	HX-236-F01T-0037Z-7306	С
		208	1	24.1	HX-236-F01T-0055C-7307	С
		240	1	20.9	HX-236-F01T-0055J-7308	С
		480	1	10.5	HX-236-F01T-0055T-7309	С
T2C 446 (230)	5	208	3	13.9	HX-236-F01T-0055D-7310	С
440 (230)		240	3	12.1	HX-236-F01T-0055K-7311	С
		480	3	8.1	HX-236-F01T-0055U-7312	С
		600	3	4.9	HX-236-F01T-0055Z-7313	С
		208	1	33.7	HX-236-F01T-0072C-7314	С
		240	1	29.2	HX-236-F01T-0072J-7315	С
		480	1	14.6	HX-236-F01T-0072T-7316	С
T2 572 (300)	7	208	3	19.5	HX-236-F01T-0072D-7317	С
312 (300)		240	3	16.9	HX-236-F01T-0072K-7318	С
		480	3	8.5	HX-236-F01T-0072U-7319	С
		600	3	6.8	HX-236-F01T-0072Z-7320	С
		240	1	41.7	HX-236-F01T-0101J-7321	С
		480	1	20.9	HX-236-F01T-0101T-7322	С
T1	10	208	3	27.8	HX-236-F01T-0101D-7323	С
842 (450)	10	240	3	24.1	HX-236-F01T-0101K-7324	С
		480	3	12.1	HX-236-F01T-0101U-7325	С
		600	3	9.7	HX-236-F01T-0101Z-7326	С
		480	1	25.0	HX-236-F01T-0121T-7327	С
T1	12	240	3	29.0	HX-236-F01T-0121K-7328	С
842 (450)	12	480	3	14.5	HX-236-F01T-0121U-7329	С
(1) The control of th	on and for the board	600	3	11.6	HX-236-F01T-0121Z-7330	С



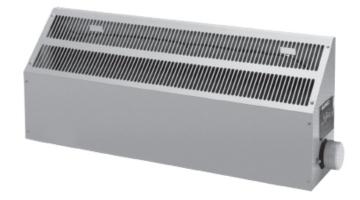
Accessory Remote Thermostat

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)	
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)	AS
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)	

⁽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

CONVECTOR





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

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

Heatrex's explosion-proof 254 Series 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 iriditecoated 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.



254 Series 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
В3	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.	С
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.	С

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

Accessory Remote Thermostat

	<i>y</i>					
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)	
HX-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)	AS
HX-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

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

							Optional B	uilt-on Control
KW	Volts (1)	Phase	Total Amps	Unit Size	Catalog Number	Availability Code (3)	Controls Only	Thermostar Only (3) or Thermostar with Contro
	120	1	4.2		HX-254-F0310052B		N/A	1024754
	208	1	2.4		HX-254-F0310052C	_		1024754
0.5	240	1	2.1	1	HX-254-F0310052J	_	·	1024754
	277	1	1.8	1	HX-254-F0310052N	7	•	1024754
	120	1	8.3		HX-254-F0310102B	Availability Code (3) N/A		1024754
	208	1	4.8		HX-254-F0310102C	7		1024754
1	240	1	4.2	1	HX-254-F0310102J	_	·	1024754
	277	1	3.6				•	1024754
	120						•	S2
	208	1				1		S2
	240	1						S2
1.8	277	i e		2				S2
0	347	1 15.0 HX-254-F0320182B 1 8.7 HX-254-F0320182C 1 7.5 HX-254-F0320182J 1 6.5 2 HX-254-F0320182N 1 5.2 HX-254-F0320182U 3 1.8 HX-254-F0320182Z 1 12.0 HX-254-F0320252C 3 6.9 HX-254-F0320252D 1 10.4 HX-254-F0320252J 1 9.0 2 HX-254-F0320252N 1 7.2 HX-254-F0320252U 3 3.0 HX-254-F0320252U 4 HX-254-F0330362C HX-254-F0330362C 1 17.3 HX-254-F0330362D 3 10.0 HX-254-F0330362D 4 HX-254-F0330362D HX-254-F0330362D 1 10.4 HX-254-F0330362I 3 4.3 HX-254-F0330362U	7		B3			
	480	1	i e	1		7		B3
	600	1		1		7		B3
	208	1	1					S2
	208	1					•	B3
	240	1						S2
2.5	277			2		_		S2
2.3	347	İ		2				B3
	480	1						B3
	600	1						B3
	208	1				7		S2
	208							B3
	240	i				7		S2
3.6	277	1		3		7		S2
3.0	347					۸۵		B3
	480					AS		B3
	600	3	3.5		HX-254-F0330362Z			B3
	208	3	12.2		HX-254-F0330442D			B3
	240	1	18.3		HX-254-F0330442J			S2
	277	1	15.9		HX-254-F0330442N			S2
4.4	347	1	12.7	3	HX-254-F0330442I		•	B3
	480	3	5.3		HX-254-F0330442U	7		B3
	600	3	4.3	1	HX-254-F0330442Z	7		B3
	208	3	18.0		HX-254-F0340652D	7		B3
	240	3	27.1	1	HX-254-F0340652J	7		B3
	277	1	23.5	1	HX-254-F0340652N	7		B3
6.5	347	1	18.7	4	HX-254-F0340652I	7		B3
	480	3	7.8	1	HX-254-F0340652U	7		B3
	600	3	6.3	1	HX-254-F0340652Z	7		B3
	208	3	20.8		HX-254-F0340752D	7		B3
	240	1	31.3		HX-254-F0340752J			B3
	277	1	27.1		HX-254-F0340752N			В3
7.5	347	1	21.6	4	HX-254-F0340752I	7		B3
	480	3	9.0		HX-254-F0340752U			B3
	600	3	7.2		HX-254-F0340752Z		B2	В3
	208	3	26.4		HX-254-F0340952D	7	B2	B3
	240	1	39.6		HX-254-F0340952J	7	B2	В3
	277	1	34.3	_	HX-254-F0340952N	7	B2	B3
9.5	347	1	27.4	4	HX-254-F0340952I	7	B2	В3
	480	3	11.4	1	HX-254-F0340952U	7	B2	B3
	600	3	9.1		HX-254-F0340952Z		B2	В3

⁽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.

254 Series 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)

							Optional B	uilt-on Controls
KW	Volts (1)	3Phase	Total Amps	Unit Size	Catalog Number	Availability Code (3)	Controls Only	Thermostat Only (3) or Thermostat with Controls
	120	1	4.2		HX-254-F0310053B		N/A	1007002
٥٢	208	1	2.4	,	HX-254-F0310053C		N/A	1007002
0.5	240	1	2.1	1	HX-254-F0310053J		N/A	1007002
	277	1	1.8		HX-254-F0310053N	_	N/A	1007002
	120	1	8.3	_	HX-254-F0310103B		N/A	1007002
1	208	1	4.8	1	HX-254-F0310103C		N/A	1007002
-	240	1	4.2	_	HX-254-F0310103J	_	N/A	1007002
	277	1	3.6		HX-254-F0310103N	-	N/A	1007002
	120	1	15.0	-	HX-254-F0320183B	-	N/R	S1
	208	1	8.7	-	HX-254-F0320183C	_	N/R	S1
1.0	240	1	7.5		HX-254-F0320183J	-	N/R	S1
1.8	277 347	1	6.5 5.2	2	HX-254-F0320183N HX-254-F0320183I	-	N/R B2	S1 B2S1
	480	3	2.2	-	HX-254-F0320183U	_	B2 B2	B2S1
	600	3	1.8	-	HX-254-F0320183Z	_	B2	B2S1
	208	1	12.0		HX-254-F0320253C	1	N/R	S1
	208	3	6.9		HX-254-F0320253D		B2	B2S1
	240	1	10.4		HX-254-F0320253J		N/R	S1
2.5	277	1	9.0	2	HX-254-F0320253N		N/R	S1
	347	1	7.2		HX-254-F0320253I		B2	B2S1
	480	3	3.0		HX-254-F0320253U		B2	B2S1
	600	3	2.4		HX-254-F0320253Z		B2	B2S1
	208	1	17.3		HX-254-F0330363C		N/R	S1
	208	3	10.0		HX-254-F0330363D		B2	B2S1
	240	1	15.0		HX-254-F0330363J		N/R	S1
3.6	277	1	13.0	3	HX-254-F0330363N		N/R	S1
	347	1	10.4		HX-254-F0330363I	AS	В3	B3S1
	480	3	4.3	_	HX-254-F0330363U		B2	B2S1
	600	3	3.5		HX-254-F0330363Z	_	B2	B2S1
	208	3	12.2		HX-254-F0330443D	_	B2	B2S1
	240	1	18.3	-	HX-254-F0330443J	_	N/R	S1
4.4	277	1	15.9	3	HX-254-F0330443N	_	N/R	S1
	347	1	12.7	-	HX-254-F0330443I	_	B2	B3S1
	480	3	5.3	-	HX-254-F0330443U	-	B2	B2S1
	600	3	4.3		HX-254-F0330443Z	-	B2	B2S1
	208		18.0	-	HX-254-F0340653D	-	B2	B2S1
	240 277	1	27.1 23.5	-	HX-254-F0340653J HX-254-F0340653N		B2 B2	B2S1 B2S1
6.5	347	1	18.7	4	HX-254-F0340653I		B2 B2	B2S1
	480	3	7.8		HX-254-F0340653U	1	B2	B2S1
	600	3	6.3		HX-254-F0340653Z	1	B2	B2S1
	208	3	20.8		HX-254-F0340753D	1	B2	B2S1
	240	1	31.3		HX-254-F0340753J	1	B2	B2S1
	277	1	27.1		HX-254-F0340753N		B2	B2S1
7.5	347	1	21.6	4	HX-254-F0340753I]	B2	B2S1
	480	3	9.0		HX-254-F0340753U		B2	B2S1
	600	3	7.2		HX-254-F0340753Z	_	B2	B2S1
	208	3	26.4		HX-254-F0340953D	_	B2	B2S1
	240	1	39.6		HX-254-F0340953J	_	B2	B2S1
9.5	277	1	34.3	4	HX-254-F0340953N	_	B2	B2S1
9.3	347	1	27.4	ļ "	HX-254-F0340953I	_	B2	B2S1
	480	3	11.4		HX-254-F0340953U	<u> </u>	B2	B2S1
	600	3	9.1		HX-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

ose these i	Teaters Wife	li oracinig	Treaters with		ial built-on control		Optional B	uilt-on Controls
KW	Volts (1)	Phase	Total Amps	Unit Size	Catalog Number	Availability Code (3)	Controls Only	Thermostat Only (3) or Thermostat with Controls
	120	1	4.2		HX-254-F0610052B		N/A	1024754
0.5	208	1	2.4	1	HX-254-F0610052C		N/A	1024754
0.5	240	1	2.1	1	HX-254-F0610052J		N/A	1024754
	277	1	1.8		HX-254-F0610052N		N/A	1024754
	120	1	11.7		HX-254-F0620142B		N/R	S2
	208	1	6.7		HX-254-F0620142C		N/R	S2
1.4	240	1	5.8	2	HX-254-F0620142J		N/R	S2
	277	1	5.1		HX-254-F0620142N		N/R	S2
	347	1	4.0		HX-254-F0620142I		B2	В3
	120	1	19.2		HX-254-F0630232B HX-254-F0630232C		N/R	S2
	208	1	11.1				N/R	S2
	208	3	6.4	3	HX-254-F0630232D	۸۶	B2	В3
2.2	240	1	9.6		HX-254-F0630232J		N/R	S2
2.3	277	1	8.3		HX-254-F0630232N		N/R	S2
	347	1	6.6		HX-254-F0630232I		B2	В3
	480	3	2.8		HX-254-F0630232U	AS	B2	В3
	600	3	2.2	-	HX-254-F0630232Z		B2	В3
	208	1	15.4		HX-254-F0640322C		N/R	S2
	208	3	8.9		HX-254-F0640322D		B2	В3
	240	1	13.3		HX-254-F0640322J		N/R	S2
3.2	277	1	11.6	4	HX-254-F0640322N		N/R	S2
	347	1	9.2		HX-254-F0640322I		B2	В3
	480	3	3.8		HX-254-F0640322U		B2	В3
	600	3	3.1		HX-254-F0640322Z		B2	В3
	208	3	13.9		HX-254-F0640502D		B2	В3
	240	1	20.8		HX-254-F0640502J		N/R	S2
5.0	277	1	18.1		HX-254-F0640502N		N/R	S2
5.0	347	1	14.4	4	HX-254-F0640502I		B2	В3
	480	3	6.0		HX-254-F0640502U		B2	В3
	600	3	4.8		HX-254-F0640502Z		B2	В3

⁽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.

 $[\]hbox{(3) Thermostat only is load carrying or remote.}\\$

254 Series 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)

							Optional B	uilt-on Controls
KW	Volts (1)	Phase	Total Amps	Unit Size	Catalog Number	Availability Code (3)	Controls Only	Thermostat Only (3) or Thermostat with Controls
	120	1	4.2		HX-254-F0610053B		N/A	1007002
0.5	208	1	2.4	1	HX-254-F0610053C		N/A	1007002
0.5	240	1	2.1	1	HX-254-F0610053J		N/A	1007002
	277	1	1.8		HX-254-F0610053N		N/A	1007002
	120	1	11.7		HX-254-F0620143B		N/R	S1
	208	1	6.7		HX-254-F0620143C		N/R	S1
1.4	240	1	5.8	2	HX-254-F0620143J		N/R	S1
	277	1	5.1		HX-254-F0620143N		N/R	S1
	347	1	4.0		HX-254-F0620143I		B2	B2S1
	120	1	19.2		HX-254-F0630233B		N/R	S1
	208	1	11.1	3	HX-254-F0630233C	AS	N/R	S1
	208	3	6.4		HX-254-F0630233D		B2	B2S1
2.3	240	1	9.6		HX-254-F0630233J		N/R	S1
2.3	277	1	8.3		HX-254-F0630233N		N/R	S1
	347	1	6.6		HX-254-F0630233I		B2	B2S1
	480	3	2.8		HX-254-F0630233U		B2	B2S1
	600	3	2.2		HX-254-F0630233Z		B2	B2S1
	208	1	15.4		HX-254-F0640323C]	N/R	S1
	208	3	8.9		HX-254-F0640323D		B2	B2S1
	240	1	13.3		HX-254-F0640323J		N/R	S1
3.2	277	1	11.6	4	HX-254-F0640323N		N/R	S1
	347	1	9.2		HX-254-F0640323I		B2	B2S1
	480	3	3.8		HX-254-F0640323U		B2	B2S1
	600	3	3.1		HX-254-F0640323Z		B2	B2S1
·	208	3	13.9		HX-254-F0640503D		B2	B2S1
	240	1	20.8		HX-254-F0640503J		N/R	S1
5.0	277	1	18.1	. 4	HX-254-F0640503N		N/R	S1
5.0	347	1	14.4	4	HX-254-F0640503I		B2	B2S1
	480	3	6.0		HX-254-F0640503U		B2	B2S1
	600	3	4.8		HX-254-F0640503Z		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 Class II, Divisions 1 & 2, Groups E, F & G Ignition Temperature Code T3C, 320°F (160°C)

			(20)				Optional Built-on Controls		
ĸw	Volts (1)	Phase	Total Amps	Unit Size	Catalog Number	Availability Code (3)	Controls Only	Thermostat Only (3) or Thermostat with Controls	
	120	1	4.2		HX-254-F0810054B		N/A	1007002	
0.5	208	1	2.4	1	HX-254-F0810054C		N/A	1007002	
0.5	240	1	2.1	1	HX-254-F0810054J		N/A	1007002	
	277	1	1.8		HX-254-F0810054N		N/A	1007002	
	120	1	8.3		HX-254-F0820104B		N/R	S1	
	208	1	4.8	4.8 HX-254-F082	HX-254-F0820104C		N/R	S1	
1.0	240	1	4.2	2	HX-254-F0820104J		N/R	S1	
	277	1	3.6		HX-254-F0820104N		N/R	S1	
	347	1	2.9		HX-254-F0820104l	AS	B2	B2S1	
	120	1	14.2		HX-254-F0830174B		N/R	S1	
	208	1	8.2		HX-254-F0830174C		N/R	S1	
	208	3	4.7		HX-254-F0830174D		B2	B2S1	
1.7	240	1	7.1		HX-254-F0830174J		N/R	S1	
1.7	277	1	6.1	3	HX-254-F0830174N		N/R	S1	
	347	1	4.9		HX-254-F0830174I		B2	B2S1	
	480	3	2		HX-254-F0830174U		B2	B2S1	
	600	3	1.6		HX-254-F0830174Z		B2	B2S1	
	208	1	15.4		HX-254-F0840324C		N/R	S1	
	208	3	8.9		HX-254-F0840324D		B2	B2S1	
	240	1	13.3		HX-254-F0840324J	1	N/R	S1	
3.2	277	1	11.6	4	HX-254-F0840324N		N/R	S1	
	347	1	9.2		HX-254-F0840324I		B2	B2S1	
	480	3	3.8		HX-254-F0840324U		B2	B2S1	
	600	3	3.1		HX-254-F0840324Z		B2	B2S1	

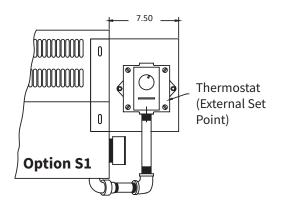
⁽¹⁾ Convectors are 60/50 Hz rated

Accessory Remote Thermostat

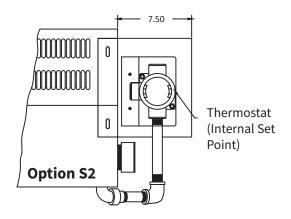
Catalog Number	Switch Type	Description	Туре	Ratings	Temp. Range °F (°C)	Availability Code
1007002	Bimetal	Class 1, Div. 1, Groups C & D Class II, Div. 1, Groups E, F, & G	SPDT	125-277V, 22A	50-90 (10-32)	
1024754	Bulb and Capillary with Internal Set Point Adjustment	Class 1, Div. 1, Groups B, C & D Class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

⁽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.

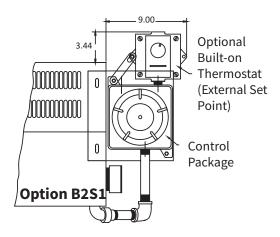
254 Series CONVECTOR



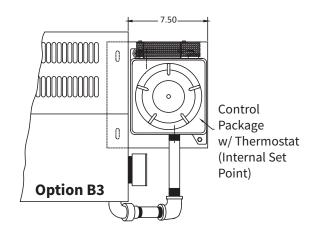
Thermostat is rated for Class I, Groups C and D Class II Groups E, F and G



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



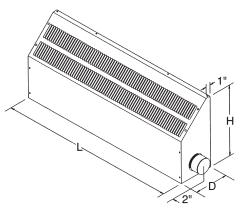
Thermostat is rated for Class I, Groups C and D Class II Groups E, F and G



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

Dimensions and Weights

	Di	mensions - In. (cı	n)	Weight - Lb (kg)						
Unit Size	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

234 Series



238 Series



BTUR 240 Series



Features	Washdown 234 Series	238 Series	BTUR 240 Series
Typical Applications	Food processing plants Marine duty Wastewater treatment plants	Factories Warehouses	Factories Mechanical rooms Workshops
KW Range	2 to 47	3 to 38.4	3.3 to 50
Voltages	up to 600/3	Up to 480/3	Up to 600/3
Airflow CFM	Up to 2400	Up to 1774	Up to 3100
Discharge	Horizontal	Horizontal	Horizontal or Vertical
Element Type	Stainless steel finned tubular	Stainless steel finned tubular	Stainless 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
Finish	Stainless steel	Beige polyester powder paint	Camel polyester powder paint
Mounting	Ceiling or wall	Ceiling or wall	Ceiling or wall
Agency Approvals	_c UL _{us}	_c UL _{us}	$_{ m c}$ UL $_{ m us}$



WASHDOWN/CORROSION RESISTANT UNIT HEATER



Applications

- Car Washes
- Cement Plants
- Coal Handling Areas
- Dairies
- Food Processing Plants

- Marine and Offshore
- Power Generating Stations
- Steel Mills and Foundries
- · Swimming Pool Areas
- Wastewater Treatment Plants



The Heatrex 234 Series 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 234 Series 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, powdercoated 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.

Standard Construction Features

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

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.



Washdown/Corrosion Resistant Unit Heater

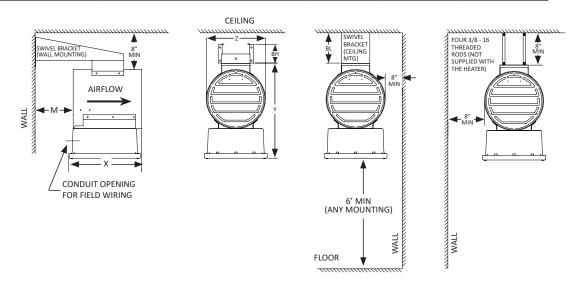
Factory Built-in Options

Code	Description	Availability Code (2)
В	Delete swivel mounting bracket. Heater installs from the ceiling with field furnished threaded rods.	AS
С	Epoxy painted stainless steel parts: housing and grilles.	С
D	Power disconnect switch	AS
Е	Monel finned tubular elements	С
F8	Fan motor fusing with disconnecting contactor	С
L	"Heater on" pilot light	AS
М	Secondary manual reset overtemperature cutout.	AS
S	Three-position selector switch (heater-standby-fan)	AS
_	1- Stage Built-in thermostat 40 to 100° F (5 to 38° C) range	AS
1	2- Stage Built-in thermostat 40 to 120° F (5 to 49° C) range (Option "X" required)	С
V	120 volt control circuit	AS
Х	2-Stage Control	С

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

Dimensions, Airflow and Weights

Dimono	ione Airflance and Meights		KW	
Dimens	ions, Airflows and Weights	2 - 7.5	9 - 12	12.5 - 47
Overall	"X" Inch (cm)	15-1/2 (39)	15-1/2 (39)	24-1/2 (66)
Heater	"Y" Inch (cm)	21-1/2 (55)	21-1/2 (55)	26 (71)
Dimensions	"Z" Inch (cm)	13 (33)	13 (33)	20 (51)
Mounting	"BH" Inch (cm)	4-1/4 (11)	4-1/4 (11)	7-1/8 (18)
Hole	"BL" Inch (cm)	19-1/2 (50)	19-1/2 (50)	22-1/4 (57)
Dimensions	"M" Inch (cm)	8-1/2 (22)	8-1/2 (22)	5 (8)
	Air Volume CFM (cubic meters/hr)	700 (1189)	1450 (2463)	2400 (4077)
Airflow Characteristics	Air Throw Feet (m)	26 (8)	43 (13)	50 (15)
Characteristics	Outlet Velocity FPM (meters/min)	760 (232)	1575 (481)	1200 (366)
Weight	Net Lbs (kgs)	56 (25)	56 (25)	115 (52)
weight	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	Tempera- ture 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

234 Series Unit Heater Listing

For Non-Hazardous Areas

KW	Volts	Ph	Total Amps	Approximate Air Temperature		Motor		Catalog Number	2-Stage Control	Availability Code (2)(3)
			(1)	Rise °F (°C)	HP	Volts	Ph	Number	Control	Coue (2)(3)
	120	1	21	9 (5)	1/4	120	1	HX-234-U11R-0020B	1B	
	208	1	12	9 (5)	1/4	208	1	HX-234-U11R-0020C	1B	
2	240	1	11	9 (5)	1/4	240	1	HX-234-U11R-0020J	1B	
	277	1	10	9 (5)	1/4	277	1	HX-234-U11R-0020N	1B	
	347	1	7	9 (5)	1/4	347	1	HX-234-U11R-0020I	1B	
	120	1	29	14 (8)	1/4	120	1	HX-234-U11N-0030B	1A	
	208	1	17	14 (8)	1/4	208	1	HX-234-U11N-0030C	1A	
	240	1	15	14 (8)	1/4	240	1	HX-234-U11N-0030J	1A	
	277	1	13	14 (8)	1/4	277	1	HX-234-U11N-0030N	1A	
3	347	1	11	14 (8)	1/4	347	1	HX-234-U11N-0030I	1A	
	480	1	8	14 (8)	1/4	480	1	HX-234-U11N-0030T	1A	
	208	3	11	14 (8)	1/4	208	1	HX-234-U11N-0030D	1A	
	240	3	10	14 (8)	1/4	240	1	HX-234-U11N-0030K	1A	
	480	3	5	14 (8)	1/4	480	1	HX-234-U11N-0030U	1A	
	600	3	4	14 (8)	1/4	600	1	HX-234-U11N-0030Z	1A	
	208	1	27	24 (13)	1/4	208	1	HX-234-U11R-0050C	1B	
	240	1	23	24 (13)	1/4	240	1	HX-234-U11R-0050J	1B	AS
	277	1	20	24 (13)	1/4	277	1	HX-234-U11R-0050N	1B	
	347	1	17	24 (13)	1/4	347	1	HX-234-U11R-0050I	1B	
5	480	1	12	24 (13)	1/4	480	1	HX-234-U11R-0050T	1B	
	208	3	16	24 (13)	1/4	208	1	HX-234-U11N-0050D	1A	
	240	3	15	24 (13)	1/4	240	1	HX-234-U11N-0050K	1A	
	480	3	8	24 (13)	1/4	480	1	HX-234-U11N-0050U	1A	
	600	3	6	24 (13)	1/4	600	1	HX-234-U11N-0050Z	1A	
	208	1	39	35 (19)	1/4	208	1	HX-234-U11N-0080C	1A	
	240	1	34	35 (19)	1/4	240	1	HX-234-U11N-0080J	1A	
	277	1	29	35 (19)	1/4	277	1	HX-234-U11N-0080N	1A	
	347	1	24	35 (19)	1/4	347	1	HX-234-U11N-0080I	1A	
7.5	480	1	17	35 (19)	1/4	480	1	HX-234-U11N-0080T	1A	
	208	3	23	35 (19)	1/4	208	1	HX-234-U11N-0080D	1A	
	240	3	21	35 (19)	1/4	240	1	HX-234-U11N-0080K	1A	
	480	3	11	35 (19)	1/4	480	1	HX-234-U11N-0080U	1A	
	600	3	9	35 (19)	1/4	600	1	HX-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')

WASHDOWN/CORROSION RESISTANT UNIT HEATER

234 Series Unit Heater Listing (continued) For Non-Hazardous Areas

			Total	Approximate Air		Motor		Catalog	2-Stage	Availability
KW	Volts	Ph	Amps	Temperature				Number	Control	Code (2)(3)
			(1)	Rise °F (°C)	HP	Volts	Ph			
	208	1	46	20 (11)	1/4	208	1	HX-234-U11N-0090C	1A	
	240	1	40	20 (11)	1/4	240	1	HX-234-U11N-0090J	1A	
	277	1	35	20 (11)	1/4	277	1	HX-234-U11N-0090N	1A	
	347	1	29	20 (11)	1/4	347	1	HX-234-U11N-0090I	1A	
9	480	1	20	20 (11)	1/4	480	1	HX-234-U11N-0090T	1A	
	208	3	28	20 (11)	1/4	208	1	HX-234-U11N-0090D	1A	
	240	3	24	20 (11)	1/4	240	1	HX-234-U11N-0090K	1A	
	480	3	12	20 (11)	1/4	480	1	HX-234-U11N-0090U	1A	
	600	3	10	20 (11)	1/4	600	1	HX-234-U11N-0090Z	1A	
	240	1	44	22 (12)	1/4	240	1	HX-234-U11N-0100J	1A	
	277	1	39	22 (12)	1/4	277	1	HX-234-U11N-0100N	1A	
	347	1	32	22 (12)	1/4	347	1	HX-234-U11N-0100I	1A	
10	480	1	22	22 (12)	1/4	480	1	HX-234-U11N-0100T	1A	
10	208	3	30	22 (12)	1/4	208	1	HX-234-U11N-0100D	1A	
	240	3	27	22 (12)	1/4	240	1	HX-234-U11N-0100K	1A	
	480	3	14	22 (12)	1/4	480	1	HX-234-U11N-0100U	1A	
	600	3	11	22 (12)	1/4	600	1	HX-234-U11N-0100Z	1A	
	277	1	46	26 (14)	1/4	277	1	HX-234-U11N-0120N	1A	
	347	1	38	26 (14)	1/4	347	1	HX-234-U11N-0120I	1A	
	480	1	27	26 (14)	1/4	480	1	HX-234-U11N-0120T	1A	
12	208	3	36	26 (14)	1/4	208	1	HX-234-U11N-0120D	1A	
	240	3	32	26 (14)	1/4	240	1	HX-234-U11N-0120K	1A	
	480	3	16	26 (14)	1/4	480	1	HX-234-U11N-0120U	1A	AS
	600	3	13	26 (14)	1/4	600	1	HX-234-U11N-0120Z	1A	7.0
	347	1	39	17 (9)	1/4	347	1	HX-234-U11L-0130I	1A	
	208	3	37	17 (9)	1/4	208	1	HX-234-U11L-0130D	1A	
12.5	240	3	33	17 (9)	1/4	240	1	HX-234-U11L-0130K	1A	
	480	3	17	17 (9)	1/4	480	1	HX-234-U11L-0130U	1A	
	600	3	14	17 (9)	1/4	600	1	HX-234-U11L-0130Z	1A	
	347	1	47	21 (12)	1/4	347	1	HX-234-U11L-0150I	1A	
	208	3	44	21 (12)	1/4	208	1	HX-234-U11L-0150D	1A	
15	240	3	39	21 (12)	1/4	240	1	HX-234-U11L-0150K	1A	
	480	3	20	21 (12)	1/4	480	1	HX-234-U11L-0150U	1A	
	600	3	16	21 (12)	1/4	600	1	HX-234-U11L-0150Z	1A	
20	480	3	26	28 (16)	1/4	480	1	HX-234-U11L-0200U	1A	
	600	3	21	28 (16)	1/4	600	1	HX-234-U11L-0200Z	1A	
25	480	3	32	35 (19)	1/4	480	1	HX-234-U11A-0250U	1B	
25	600	3	26	35 (19)	1/4	600	1	HX-234-U11A-0250Z	1B	
20	480	3	38	42 (23)	1/4	480	1	HX-234-U11A-0300U	1B	
30	600	3	31	42 (23)	1/4	600	1	HX-234-U11A-0300Z	1B	
25	480	3	44	48 (27)	1/4	480	1	HX-234-U11A-0350U	1B	
35	600	3	35	48 (27)	1/4	600	1	HX-234-U11A-0350Z	1B	
	480	3	48	54 (30)	1/4	480	1	HX-234-U11A-0390U	1B	
38.4	600	3	38	54 (30)	1/4	600	1	HX-234-U11A-0390Z	1B	
47	600	3	47	` '	1/4				1B	
41	000	<u> </u>	41	64 (36)	1/4	600	1	HX-234-U11A-0470Z	TD	

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

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



⁽²⁾ Availability Code: AS = Assembly Stock,

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

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

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

238 Series Industrial Unit Heater



Applications

- · Aircraft Hangars
- Entryways
- Factories
- Garages

- Power Generating Stations
- · Pump Houses
- Service Stations



Heatrex's 238 Series 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.

Standard Construction Features

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

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	Thermo- meter	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



INDUSTRIAL UNIT HEATER

Factory Built-in Options

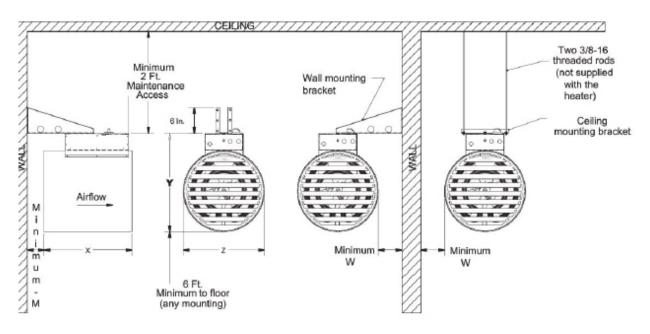
Code	Description	Availability Code (2)
В	No mounting bracket	AS
С	Substitute wall mounting bracket with ceiling bracket (beige powder coat finish for durability)	AS
D	Power Disconnect Switch	AS
G	Adjustable Outlet Louvers (beige powder coat finish for durability)	AS
Н	Premium Fan Motor	AS
L	"Heater On" Pilot Light	AS
М	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
Т	Built-in Thermostat 40° to 120° F (4° to 49° C) Range	AS
Х	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

MIN		Dim	Weight	Maximum Air			
KW	M	W	Х	Υ	Z	Lb (kgs)	Throw-Ft. (m)
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)

^{*}Maximum air throws are based on ideal conditions at time of test at a defined height. Actual performances may very by installation. Please consult factory for more details



Motor Data

Description	RPM	Airflow	- CFM (cubic me	eters/hr)	Noise Level (dB)			
Description	KPW	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	

Heater ListingFor Non-Hazardous Areas For Non-Corrosive Areas



238 Series Industrial Unit Heater

Vol.				Total	Approximate Air		Motor		Catalog	Availability
130	KW	Volts	Phase		•	шр	Volte	Dhaco		
288 1 17 22 (12)		100		1 - (/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					3323 (2)
240										
277 1 13 15 15 14 277 1 75 75 23 18 18 18 14 347 1 75 18 18 18 18 18 18 18 1			i							
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240 3 10			•	i e	i i	1				
1.5 1.5 1.6 1.5					i · ·	1		i e		
208 1 27 25 (19)						1				
240 1 23 25 (19)										
277 1 29 26 10 11/4 277 1 11/23 278 176 176 278 176 27								1		
5			1			1/4		1		
5 600 1 1 10 26(14) 1/A 600 1 1 *******************************			1							
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240 3 15 38 19	3									
480 3 8 35 (19)							i 	•		
1.5 1.5					, ,			1		
208			1							
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Section Sect										
208										
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9										
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208 3 28 64 (36) 1/4 208 1 HX.238-UT09D 4480 3 12 64 (36) 1/4 240 1 HX.238-UT09U 600 3 100 47 (26) 1/4 600 1 HX.238-UT09U 1 HX.238-UT09U 600 1 HX.238-UT00U 600 1 HX.238-UT10U 600 1 HX.	9							1		
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15										
480 3 20 38 (21) 1/4 480 1 HX-238-UL15U 600 3 16 27 (15) 1/4 600 1 *HX-238-UL15Z 20 480 3 26 35 (19) 1/4 480 1 *HX-238-UL20U 600 3 21 35 (19) 1/4 600 1 *HX-238-UL20U 25 600 3 22 66 (37) 1/4 480 1 HX-238-UA25Z 600 3 26 44 (24) 1/4 600 1 *HX-238-UA25Z 30 480 3 38 79 (44) 1/4 480 1 HX-238-UA30Z 31 53 (29) 1/4 600 1 *HX-238-UA30Z 32 600 3 31 53 (29) 1/4 600 1 *HX-238-UA30Z 33 480 3 34 4 61 (34) 1/4 480 1 HX-238-UA35Z 3480 3 44 61 (34) 1/4 480 1 *HX-238-UA35Z 35 600 3 35 61 (34) 1/4 480 1 *HX-238-UA35Z 38 480 3 48 70 (39) 1/4 480 1 *HX-238-UA35Z	15		1							
600 3 16 27 (15) 1/4 600 1 *HX-238-UL15Z 20 480 3 26 35 (19) 1/4 480 1 *HX-238-UL20U 600 3 21 35 (19) 1/4 600 1 *HX-238-UA25U 480 3 32 66 (37) 1/4 480 1 HX-238-UA25U 600 3 26 44 (24) 1/4 600 1 *HX-238-UA25Z 30 480 3 38 79 (44) 1/4 480 1 HX-238-UA30U 30 600 3 31 53 (29) 1/4 600 1 *HX-238-UA30Z 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 35 600 3 35 61 (34) 1/4 480 1 *HX-238-UA35U 480 3 48 70 (39) 1/4 480 1 *HX-238-UA35Z <td>15</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	15		1							
480 3 26 35 (19) 1/4 480 1 *HX-238-UL20U 600 3 21 35 (19) 1/4 600 1 *HX-238-UL20Z 25 480 3 32 66 (37) 1/4 480 1 HX-238-UA25U 600 3 26 44 (24) 1/4 600 1 *HX-238-UA25Z 480 3 38 79 (44) 1/4 480 1 HX-238-UA30U 600 3 31 53 (29) 1/4 600 1 *HX-238-UA30Z 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 35 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 480 3 48 70 (39) 1/4 480 1 *HX-238-UA35U										
20 600 3 21 35 (19) 1/4 600 1 *HX-238-UL20Z 25 600 3 26 44 (24) 1/4 600 1 *HX-238-UA25U 30 480 3 38 79 (44) 1/4 480 1 HX-238-UA30U 30 600 3 31 55 (29) 1/4 600 1 *HX-238-UA30U 31 53 (29) 1/4 600 1 *HX-238-UA30U 32 480 3 44 61 (34) 1/4 480 1 HX-238-UA35U 33 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 34 480 3 48 70 (39) 1/4 600 1 *HX-238-UA35U 35 480 3 48 70 (39) 1/4 480 1 *HX-238-UA35U										
25	20					1				
30	25	1	1							
30 600 3 31 53 (29) 1/4 600 1 *HX-238-UA30Z 35 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 600 3 35 61 (34) 1/4 600 1 *HX-238-UA35Z 480 3 48 70 (39) 1/4 480 1 *HX-238-UA39U	25	600	1	26	44 (24)	1/4	600	1	*HX-238-UA25Z	
600 3 31 53 (29) 1/4 600 1 *HX-238-UA30Z 480 3 44 61 (34) 1/4 480 1 *HX-238-UA35U 600 3 35 61 (34) 1/4 600 1 *HX-238-UA35Z 480 3 48 70 (39) 1/4 480 1 *HX-238-UA35Z	30	480	1	38	79 (44)	1	480			
35 600 3 35 61 (34) 1/4 600 1 *HX-238-UA35Z 480 3 48 70 (39) 1/4 480 1 *HX-238-UA39U	30	1								
38.4 480 3 48 70 (39) 1/4 480 1 *HX-238-UA39U	35									
384			1					î e		
	38.4	600	3	38	70 (39)	1/4	600	1	*HX-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.

UNIT HEATER





Shown with optional diffuser



Applications

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

The 240 Series unit heater is available in four unit sizes with 59 standard models with ratings up to 50 KW at voltages of 208, 240, 277, 480 and 600 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 240 Series 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.

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 delay 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.



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
М	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
_	Built-in Thermostat - 1 - Stage
Т	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

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

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

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	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)	- - - -
open to 45 degrees in a radial pattern which increases floor coverage by approxiately 20%.	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)	- - -



⁽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.

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

UNIT HEATER

Heater Listing

			Total	Approx. Air	2-Stage	Std.	Unit	Catalog
KW	Volts	Ph	Amps*	Temperature Rise °F (°C)	Control	Control Voltage	Size	Number (2)
	208	1	12.30	Rise F (C)	1B	208	1	HX-240-U1025C
2.5	240	1	10.7	23 (-5)	1B	240	1	HX-240-U1025J
2.0	277	1	9.40	20 (0)	1B	277	1	HX-240-U1025N
	208	1	16.17		1B	208	1	HX-240-U1033C
3.3	240	1	14.05	30 (-1.1)	1B	240	1	HX-240-U1033J
	277	1	12.21		1B	277	1	HX-240-U1033N
3.7	480	3	4.66	34 (1.1)	1A	24	1	HX-240-U1037U
2.0	208	3	10.85	25 (1.6)	1A	24	1	HX-240-U1038D
3.8	240	3	9.44	35 (1.6)	1A	24	1	HX-240-U1038K
	208	1	24.34		1B	208	1	HX-240-U1050C
	240	1	21.13		1B	240	1	HX-240-U1050J
	277	1	18.35		1B	277	1	HX-240-U1050N
5	208	3	14.18	46 (7.77)	1A	24	1	HX-240-U1050D
	240	3	12.33		1A	24	1	HX-240-U1050K
	480	3	6.22		1A	24	1	HX-240-U1050U
	208	1	32.91		1B	24	2	HX-240-U2067C
6.7	240	1	28.62	33 (0.5)	1B	24	2	HX-240-U2067J
01.	277	1	24.79	33 (3.3)	1B	24	2	HX-240-U2067N
	208	1	36.80		1B	24	2	HX-240-U2075C
	240	1	32.00		1B	24	2	HX-240-U2075J
7.5	208	3	21.52	37 (2.7)	1A	24	2	HX-240-U2075D
1.5	240	3	18.74	31 (2.1)	1A	24	2	HX-240-U2075K
	480	3	9.39		1A	24	2	HX-240-U2075U
				()				
9.9	208	1	48.30	49 (9.4)	1B	24	2	HX-240-U2099C
	240	1	42.37		1B	24	2	HX-240-U2100J
	277	1	36.70		1B	24	2	HX-240-U2100N
10	208	3	28.46	49 (4.9)	1A	24	2	HX-240-U2100D
	240	3	24.76		1A	24	2	HX-240-U2100K
	480	3	12.40		1A	24	2	HX-240-U2100U
13.2	277	1	48.35	28 (-2.2)	1B	24	3	HX-240-U3132N
13.3	208	1	64.79	28 (-2.2)	Standard	24	3	HX-240-U3133C-X (1)
	240	1	56.27		Standard	24	3	HX-240-U3133J-X
15	208	3	42.48	22 (0)	1B 1B	24	3	HX-240-U3150D
15	480	3	36.93	32 (0)	1B	24 24	3	HX-240-U3150K
	208	1	18.44 96.52		Standard	24	3	HX-240-U3150U HX-240-U3199C-X (1)
19.9	240	3	48.72	43 (6.11)	1B	24	3	HX-240-U3199K
	240	1	84.18		Standard	24	3	HX-240-U3200J-X (1)
	277	1	72.90		Standard	24	3	HX-240-U3200N-X (1)
20	208	3	56.36	43 (6.11)	Standard	24	3	HX-240-U3200D-X
	480	3	24.46		1B	24	3	HX-240-U3200U
	208	3	70.90		Standard	24	4	HX-240-U4250D-X
25	240	3	61.64	26 (-3.3)	Standard	24	4	HX-240-U4250K-X
	480	3	30.77	, ,	1B	24	4	HX-240-U4250U
	208	3	93.93		Standard	24	4	HX-240-U4333D-X
33.3	240	3	81.61	35 (1.6)	Standard	24	4	HX-240-U4333K-X
	480	3	40.75		1B	24	4	HX-240-U4333U
	208	3	105.59		Standard	24	4	HX-240-U4375D-X
37.5	240	3	91.71	39 (3.8)	Standard	24	4	HX-240-U4375K-X
	480	3	45.80		1A	24	4	HX-240-U4375U
49.8	208	3	139.73	52 (11.1)	Standard	24	4	HX-240-U4498D-X
50	240	3	121.8	E2 (11 1)	Standard	24	4	HX-240-U4500K-X
50	480	3	60.84	52 (11.1)	Standard	24	4	HX-240-U4500U-X

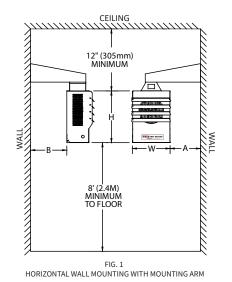
^{*}Total Amps = Heating element amps and motor amps.

⁽¹⁾ Disconnect switch unavailable.
(2) All Standard heaters are supplied with transformer and contactor except up to 5 KW single-phase units.

240 Series Unit Heater

Heater Dimensions

Unit Size	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)	l In. (mm)	J In. (mm)
Size 1	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)
Size 2	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)
Size 3	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)
Size 4	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)



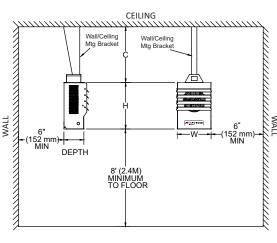


FIG. 2 HORIZONTAL CEILING MOUNT WITH MTG ARM

FIG. 3 HORIZONTAL CEILING MOUNT WITH THREADED ROD

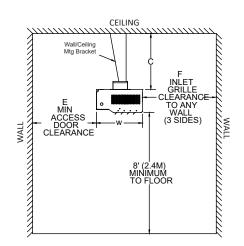


FIG. 4 VERTICAL CEILING MOUNT WITH MTG ARM

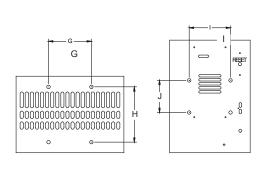


FIG. 5
THREADED ROD (3/8 - 16) ATTACHMENT POINT DIMENSIONS

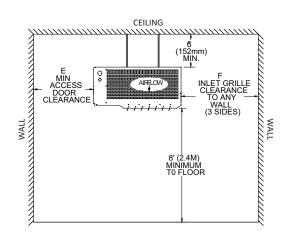


FIG. 6
VERTICAL CEILING MOUNT WITH THREADED ROD



UNIT HEATER

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

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)

Remote Thermostat Selection Chart

KW	Catalog Number	Voits		1-Stage Line Voltage	1-Stage Low Voltage (b)	2-Stage Low Voltage (b)
	HX-240-U1025C	208	1	1007014	1006998 (a)	1007030 (a)
2.5	HX-240-U1025J	240	1	1007014	1006998 (a)	1007030 (a)
	HX-240-U1025U	277	1	1007014	1006998 (a)	1007030 (a)
	HX-240-U1033C	208	1	1007014	1006998 (a)	1007030 (a)
3.3	HX-240-U1033J	240	1	1007014	1006998 (a)	1007030 (a)
	HX-240-U1033N	277	1	1007014	1006998 (a)	1007030 (a)
3.7	HX-240-U1037U	480	3	NA	1006998	1007030
2.0	HX-240-U1038D	208	3	NA	1006998	1007030
3.8	HX-240-U1038K	240	3	NA	1006998	1007030
	HX-240-U1050C	208	1	NA	1006998 (a)	1007030 (a)
5	HX-240-U1050J	240	1	1007014	1006998 (a)	1007030 (a)
	HX-240-U1050N 27		1	1007014	1006998 (a)	1007030 (a)
	All Other UHIR Hea	ters		NA	1006998	1007030







1007030

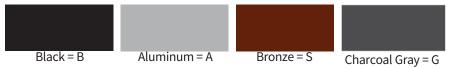
(a) Add option 'R1' for 24V control on these units.

Color Selection Chart

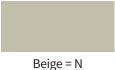
Standard Colors 900 Series



Special Colors 900 Series



Standard Colors 240 Series



Special Colors 900 Series





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.

Special colors may have an extended lead time



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

^{*}Add option code to catalog number, mounting brackets or field installed options where applicable

GENERAL INDUSTRIAL/COMMERCIAL UNIT HEATER





Technical Specifications:

Temp Range: 45°-90°F

CFM: 270–1800

Applications:

Factories

• Maintenance Rooms

Garages

Warehouses

• Stockrooms

Service Stations

• Stores

Workshops

• Stairwells



Beige

Standard Construction Features

- Heater comes equipped with ceiling-mount bracket for horizontal or vertical flow mounting or any position in between
- Built-in single-pole thermostat
- Copper-brazed steel fins with steel sheathed tubular elements for uniform heating and longevity
- Adjustable louvers control air throw direction

- Automatic fan delay eliminates cold drafts on start-up and discharges residual heat from the heater body during shut down
- High limit cut-off with visual alarm automatically shuts off current in event of overheating and reactivates unit when temperature returns to normal
- Disconnect switch (DS30) option available for heaters 24 amps or lower.



GENERAL INDUSTRIAL/COMMERCIAL UNIT HEATER

Models & Specifications:

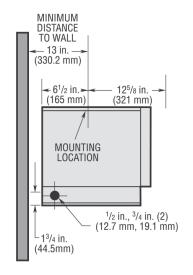
ITEM INFORMATION							
CATALOG NO.	VOLTS	SHIP WT.					
		1874	6396	9			
	208	2500	8553	12	1		
	200	3123	10659	15			
925HU-UH5004-N		3750	12799	18	24 lbs		
923110-0113004-N		2500	8533	10.4	24 103		
	040	3332	11365	13.9			
	240	4165	14215	17.4			
		5000	17065	20.9			
		2812	9598	13.5			
	200	3750	12799	18	27 lbs		
	208	4685	15990	22.5			
00511111117504 N		5625	19198	27.1			
925HU-UH7504-N		3750	12799	15.6			
	0.40	5000	17065	20.8			
	240	6250	21331	26			
		7500	25598	31.3			
		2500	8533	12			
00511111115000 N	000	3332	11365	16			
925HU-UH5008-N	208	4165	14215	20	26 lbs		
		5000	5000 17065 24				

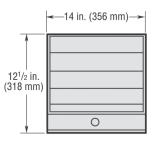
NOTE: Disconnect switch (UIS-DS30-X) option available for heaters 24 amps or lower. Optional UIB-CWB1-N combination wall/ceiling bracket available.

Controls and Accessories:

	CATALOG NO.	DESCRIPTION
1	UIS-DS30-X	3-pole power disconnect switch for field installation on all heaters. Complies with "positive off" requirements.
	UIB-CWB1-N	Wall mounting brackets for all units. (Ceiling mounting bracket is included with all heaters.)

Dimensions and Clearances:







961 SeriesConfined Space Unit Heater



Applications

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



Heatrex'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.



CONFINED SPACE UNIT HEATER

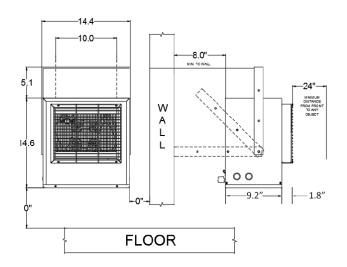
Field-Installed Options

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)
	5000	17065			21	57					
	4165	14215	240		17	48	40-120	1.0	275	32	
	3332	11365	240	1	14	38	(5-49)	16	275		
LIV D OCTUE	2500	8533			10	29					
HX-P-961U5000V-T	3750	12798		1	18	43	40-120 (5-49)		275	32	AS
	3123	10659			15	36		16			
	2500	8553	208		12	29					
	1874	6396			9	21					
LIV D OCTUE	3750	12799	208		10.4	43	40-110	10	275		
HX-P-961U5000K-T	5000	17065	240	3	12	57	(5-43)	16	275	32	
HX-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.





PLENUM RATED UNITS FOR ENCLOSED SPACES



Applications

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



Heatrex's 962 Series 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 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) are direct drive and resiliently mounted on a rigid heavy gauge frame for quiet operation and long life. The motor(s) is rated for continues 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.



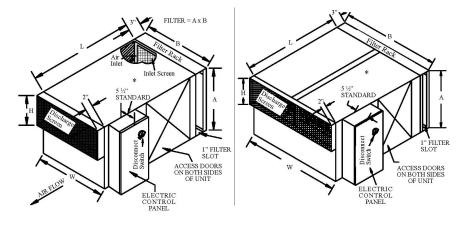
PLENUM RATED UNITS FOR ENCLOSED SPACES

Factory Built-in Options

Code	Description	Availability Code (2)
-	1-Stage built-in adjustable thermostat	
I	2-Stage built-in adjustable thermostat	AS
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	
1007030	Two-Stage Low Voltage Remote Thermostat – White - Bimetal	AS
1032432	Low Voltage Electronic Duct Discharge Sensor – SSR Controlled heater	



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

Dimensions											
	A	В	L	Discl	narge						
962 Series	(In.)	(In.)	(In.)	w	н	Weight					
3 KW	12	14	32	14	8	98					
5 KW	14	18	36	18	8	118					
10 & 15 KW	18	18	36	18	10	141					
20 KW	18	22	36	22	10	163					
23 & 25 KW	18	26	36	26	10	201					

Dimensions										
062 6	A	В	С	Disch	arge	141-1-l-4				
962 Series	(In.)	(In.)	(In.)	W	Н	Weight				
25-30-25 KW	18	44	36	44	10	278				
40-45-50 KW	18	52	36	52	10	319				

^{*} Note: Control box depth depends on actual components. Consult factory for exact dimensions.



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)
HX-P-962U1N03C-DU6L4			208/1	15.4						
HX-P-962U1N03J-DU6L4			240/1	13.5		277				
HX-P-962U1N03N-DU6L4	3	70-270	277/1	11.83	1		1	1/15	98	
HX-P-962U1N03D-DU6L4			208/3	9.32						
HX-P-962U1N03K-DU6L4			240/3	8.21						
HX-P-962U1N05C-DU6L4			208/1	25.13						
HX-P-962U1N05J-DU6L4			240/1	21.93						
HX-P-962U1N05N-DU6L4	5	200-650	277/1	19.15	1	277	1 1	1 /6	118	
HX-P-962U1N05D-DU6L4	3	200-650	208/3	14.97	1		1.1	1/6	118	
HX-P-962U1N05K-DU6L4			240/3	13.12						
HX-P-962U1T05U-DU6L4			480/3	7.11		480				
HX-P-962U1N10D-DU6L4			208/3	29.45					141	AS
HX-P-962U1N10K-DU6L4			240/3	25.75	1	277				
HX-P-962U1N10U-DU6L4	10	500- 1200	480/3	13.72						
HX-P-962U2N10D-DU6L4	10		208/3	29.45						
HX-P-962U2N10K-DU6L4			240/3	25.75	2					
HX-P-962U2T10U-DU6L4			480/3	13.75		480	1.7	1/4		
HX-P-962U1N15D-DU6L4			208/3	43.33	1	277	1.7			
HX-P-962U1T15U-DU6L4			240/3	37.78		211	-			
HX-P-962U1T15U-DU6L4	15	500- 1200	480/3	19.74		480				
HX-P-962U2N15D-DU6L4	15		208/3	43.3		277				
HX-P-962U2N15K-DU6L4			240/3	37.78	2	277				
HX-P-962U2T15U-DU6L4			480/3	19.74		480				
HX-P-962U2N20D-DU6L4		750	208/3	58.01		277				
HX-P-962U2N20K-DU6L4	20	750- 1600	240/3	50.61	2	211	2.5	1/2	163	
HX-P-962U2T20U-DU6L4		1000	480/3	26.55		480				
HX-P-962U2N23D-DU6L4	23	1200	208/3	68.14		277				
HX-P-962U2N23K-DU6L4	23	1300- 2000	240/3	59.63	2	277	4.3	3/4	210	
HX-P-962U2T25U-DU6L4	25	2000	480/3	34.37		480				
HX-P-962U2N30K-DU6L4	30	1000	240/3	78.47		277		2 Motors		
HX-P-962U2T30U-DU6L4	30	1800- 2800	480/3	42.38	2	480	6.3	@ 1/2 HP	278	
HX-P-962U2T35U-DU6L4	35	2500	480/3	48.39		480		each		
HX-P-962U2T40U-DU6L4	40	2022		56.71				2 Motors		
HX-P-962U2T45U-DU6L4	45	2000- 36000	480/3	62.72	2	480	8.6	@¾HP each		
HX-P-962U2T50U-DU6L4	50	20000		68.74						



PLENUM RATED 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)
HX-P-962U1N03C-DEU6L4			208/1	15.4						
HX-P-962U1N03J-DEU6L4			240/1	13.5						
HX-P-962U1N03N-DEU6L4	3	70-270	277/1	11.83		277	1	1/15	98	
HX-P-962U1N03D-DEU6L4			208/3	9.32						
HX-P-962U1N03K-DEU6L4			240/3	8.21						
HX-P-962U1N05C-DEU6L4			208/1	25.13						
HX-P-962U1N05J-DEU6L4			240/1	21.93			1.1	1/6	118	
HX-P-962U1N05N-DEU6L4	_	200 650	277/1	19.5	SSR	277				
HX-P-962U1N05D-DEU6L4	5	200-650	208/3	14.97			1.1			
HX-P-962U1N05K-DEU6L4			240/3	13.12						
HX-P-962U1T05U-DEU6L4			480/3	7.11		480				С
HX-P-962U1N10D-DEU6L4			208/3	29.45	33K	277				C
HX-P-962U1N10K-DEU6L4	10	500-1200	240/3	25.75		277				
HX-P-962U1N10U-DEU6L4			480/3	13.72		480	. 17	1 / 4	1.41	
HX-P-962U1N15D-DEU6L4			208/3	43.33		277	1.7	1/4	141	
HX-P-962U1N15K-DEU6L4	15	500-1200	240/3	37.78		277				
HX-P-962U1T15U-DEU6L4			480/3	19.74		480				
HX-P-962U2T20U-DEU6L4	20	750-1600	480/3	26.55			2.5	1/2	163	
HX-P-962U2T25U-DEU6L4	25	1300-2000	480/3	34.37			4.3	3/4	201	
HX-P-962U2T30U-DEU6L4	30		480/3	42.38		480		2 Motors		
HX-P-962U2T35U-DEU6L4	35	1800-2800	480/3	48.39			6.3	@ 1/2 HP each	278	

^{(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.

⁽⁵⁾ Includes Viconics VT7225 Remote Thermostat.

963 Series LOW PROFILE PLENUM HEATER



Applications

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



Heatrex'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.

- 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 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 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 continues 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



LOW PROFILE PLENUM HEATER

Standard Construction Features (continued)

minal 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 is provided. Control terminal block allows for remote disabling of the fan, remote switch to be provided by the installer.

Fan Speed - The variable fan motor speed control is field adjustable to increase temperature rise, factory set at max-

inside the heater enclosure.

imum. Controller is located inside the control enclosure for ease of adjustment.

by a remote thermostat. Thermostat field connections are

made at a clearly marked control terminal block located

Temperature Control - The unit is designed to be controlled

Heater Lieting Stone Controlled Heaters

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)
HX-P-963U1N05C-DU6L4			208/1	26						
HX-P-963U1N05J-DU6L4			240/1	22						
HX-P-963U1N05N-DU6L4	5		277/1	20		277	2			
HX-P-963U1N05D-DU6L4	5		208/3	15			Z			
HX-P-963U1N05K-DU6L4			240/3	14	1					
HX-P-963U1T05U-DU6L4		170-950	480/3	8		480		1 / 4	163	
HX-P-963U1N10D-DU6L4		170-950	208/3	30		277		1/4		
HX-P-963U1N10K-DU6L4			240/3	26		277				
HX-P-963U1T10U-DU6L4	10		480/3	14		480	2			
HX-P-963U2N10D-DU6L4	10		208/3	30	2	277	<u>Z</u>			
HX-P-963U2N10K-DU6L4			240/3	26						
HX-P-963U2T10U-DU6L4			480/3	14		480				С
HX-P-963U1N12K-DU6L4			240/3	32	1	277	2			C
HX-P-963U1T12U-DU6L4			480/3	17	1	480	3			
HX-P-963U2N12D-DU6L4	12		208/3	37		277	2			
HX-P-963U2N12K-DU6L4			240/3	32	2	277	2			
HX-P-963U2T12U-DU6L4			480/3	17		480	3			
HX-P-963U2T12U-DU6L4		270-	240/3	39	1	277	2	2 Motors	219	
HX-P-963U1T15U-DU6L4		1500	480/3	21	1	480	3	@ 1/4 HP Each	219	
HX-P-963U2N15D-DU6L4	15		208/3	45		277	4			
HX-P-963U2N15K-DU6L4			240/3	39	2	277				
HX-P-963U2T15U-DU6L4			480/3	21		480	2			
HX-P-963U1T18U-DU6L4	18		480/3	25	1	480	3			
HX-P-963U2T18U-DU6L4	18		480/3	25	2	480				

^{(1) 60} Hz only

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



⁽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.

963 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)
HX-P-963U1N05C-DEU6L4			208/1	26						
HX-P-963U1N05J-DEU6L4			240/1	22			2		163	
HX-P-963U1N05N-DEU6L4	_		277/1	20		277		1/4		
HX-P-963U1N05D-DEU6L4	5	170-950	208/3	15	SSR					
HX-P-963U1N05K-DEU6L4			240/3	14						
HX-P-963U1T05U-DEU6L4			480/3	8		480				
HX-P-963U1N10D-DEU6L4			208/3	30		277				
HX-P-963U1N10K-DEU6L4	10		240/3	26		277				С
HX-P-963U1T10U-DEU6L4			480/3	14		480				
HX-P-963U1N12K-DEU6L4	10		240/3	32		277				
HX-P-963U1T12U-DEU6L4	12		480/3	17		480		2 Motors	219	
HX-P-963U1N15K-DEU6L4	1.5	270- 1500	240/3	39		277	3	@ 1/4		
HX-P-963U1T15U-DEU6L4	15		480/3	21		480		HP Each		
HX-P-963U1T18U-DEU6L4	18		480/3	25		480				

⁽¹⁾ Includes Viconics VT7225 Remote Thermostat.

Factory Built-in Options

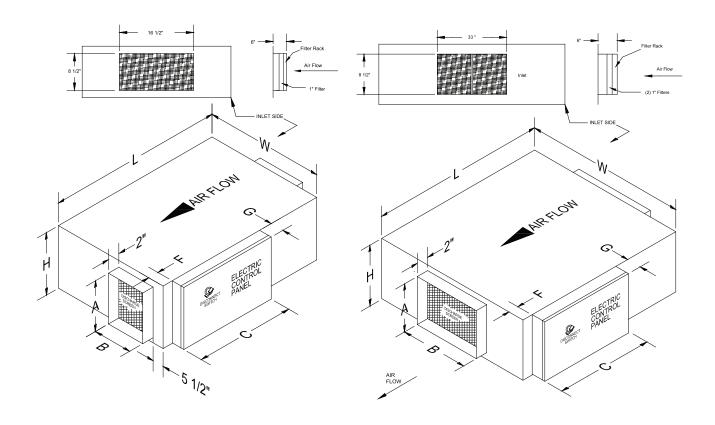
Code	Description	Availability Code (2)
-	1-Stage built-in adjustable thermostat	
I	2-Stage built-in adjustable thermostat	AS
U4L6	Optional left and connection in place of standard right hand.	

Accessory Remote Room Thermostat

Catalog Number	Description	Availability Code (2)
1006998	Single-Stage Low Voltage Remote Thermostat - White - Bimetal	
1007030	Two-Stage Low Voltage Remote Thermostat – White - Bimetal	AS
1032432	Low Voltage Electronic Duct Discharge Sensor - SSR Controlled heater	



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								
HX-P-963	С	F	G	Н	L	W	Disch	narge	
	11X-1-303	ln.	ln.	ln.	ln.	ln.	ln.	Α	В
	5 & 10 KW	28.75	1	6	11.75	45	26	8	10

Dimensions								
HX-P-963	С	F	G	Н	L	W	Disch	narge
ПА-Р-303	ln.	ln.	ln.	In.	ln.	ln.	Α	В
12, 15 & 18KW	28.75	2	6	11.75	45	43	8	20

Note: Dimensions C and G will vary with accessories.



Limited Warranty

Heatrex 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 Heatrex is authorized to give any other warranty or assume any liability.

Warranty Period

18 months from the date of shipment from Indeeco's factory, or 12 months from the date the product is first placed into service, whichever period lapses first.

Conditions of Warranty

Heatrex products must be installed, operated, and maintained in accordance with Heatrex's instructions. Heatrex 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. Heatrex 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 Heatrex sales department at 1-888-731-7010 or sales@Heatrexmfg. com, for a Return Material Authorization Number (RMA#) and return instructions.

If after receipt of the product and the claim, Heatrex 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 Heatrex'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 Heatrex for repair or inspection, shall be at the purchaser's risk and expense.

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



Warranty Period

Heatrex Product Line	Warranty Period
BBI (903)	1 year* and 10 years on heating element
BISI/BII (905/907)	1 year* and 5 years on heating element
BCI (906)	1 year* and 5 years on heating element
BASI (908)	1 year* and 5 years on heating element
BAI/BAPI (909/911)	1 year* and 5 years on heating element
LBAI/LBAPI (912/913)	1 year* and 5 years on heating element
BMI (914)	1 year* and 5 years on heating element
BHI (916)	1 year* and 5 years on heating element
RCI (918)	1 year* and 5 years on heating element
CUI (922)	1 year* and 5 years on heating element
ULIR (925)	1 year* and 5 years on heating element
WRI (930)	1 year* and 5 years on heating element
CCI (931)	1 year* and 5 years on heating element
WCI (932)	1 year* and 5 years on heating element
WAI (933)	1 year* and 5 years on heating element
WLI (934)	1 year* and 1 year on heating element
CDI (937)	1 year* and 5 years on heating element
TSI (938)	1 year* and 5 years on heating element
FFI (939)	1 year* and 5 years on heating element
CLI (941)	1 year* and 5 years on heating element
WCZ (950)	1 year* and 1 year on heating element
All Other Product Lines	18 months from the date of shipment from Heatrex's factory, or 12 months from the date the product is first placed into service, whichever period lapses first.



