

HAZARDOUS LOCATION WALL CONVECTOR HEATERS



**ELECTRIC WALL MOUNTED CONVECTORS
DESIGNED FOR HAZARDOUS LOCATION
AREAS REQUIRING RATINGS OF:
CLASS I, GROUP B, C, & D, DIVISION 1 & 2**

FEATURES

- ETL C/US listed for indoor commercial & industrial heating applications for hazardous location rated areas
- Rated for Class I, Group B, C, & D, Division 1 & 2, NEMA-4 washdown rated and temperature rating of 536°F (280°C)
- Housing material contains a heavy-duty 16-gauge steel slope top design with gray epoxy textured powder coated finish
- Units equipped with NEMA 4 cast aluminum terminal enclosure located on the left side of the heater
- Units designed for bottom air in and front out airflow distribution of heat output
- Stainless steel cartridge element inserted into aluminum finned copper tubular sheath
- Minimum mounting height is 9" clearance from a floor surface for all units
- Heaters are designed to mount directly a wall surface using the supplied brackets
- 1-Phase, 50/60-Hz, 120, 208, 240, & 480-Volt electrical connections (480-Volt models are rated for 3-phase)



FEP-18/FEP-36

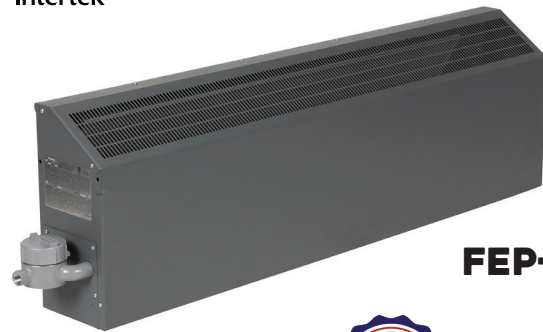


BENEFITS

- Control compartment is located on the side of the housing for easier access of installation and service.
- Supplied wall bracket allows the customer to install these heaters in a horizontal operating position on all types of wall surfaces.
- Heaters have a compact construction designed to operate in corrosive and hazardous location rated environments.

APPLICATION SOLUTIONS

- Heaters are constructed for use in areas that require washing or hosing of equipment in dirty or dusty environments in hazardous location areas.
- Heaters are ideal for water treatment facilities, industrial and maintenance locations, chemical storage and many more.



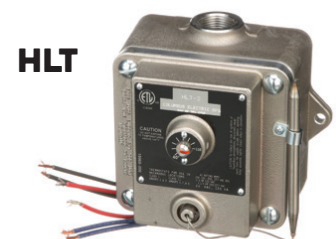
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GRAINGER MODEL #	MFG MODEL #	WATTS	BTUs	VOLTS	AMPS	PHASE	WT. (lbs.)	DIMENSIONS (in.)		
								L	D	H
49CT92	FEP-1812-1RA	1,800	6,143	120	15.0	1	50	34.0	8.3	17.9
49CT93	FEP-1820-1RA			208	8.7					
49CT94	FEP-1824-1RA			240	7.5					
49CT95	FEP-3620-1RA	3,600	12,286	208	17.3	3	64	34.0	8.3	17.9
49CT96	FEP-3624-1RA			240	15.0					
49CT97	FEP-3648-3RA			480	4.3					
49CT98	FEP-7624-1RA	7,600	25,938	240	31.7	1	85	58.0	8.3	17.9
49CT99	FEP-7648-3RA			480	9.2	3				

OPTIONAL ACCESSORY THERMOSTATS - LINE VOLTAGE

GRAINGER MODEL #	MFG MODEL #	ITEM	DESCRIPTION	MAX AMP	VOLTS	FOR USE WITH	WT. (lbs.)
6GVX9	HLT-2	Wall Mounting Thermostat	Line Voltage DPDT Stat, 50-90° F Temp Range	22 Amps	24-277 VAC	All FEP Heaters (49CT92 thru 49CT99)	12



HAZARDOUS LOCATION ELECTRIC UNIT HEATERS



ELECTRIC FAN-FORCED UNIT HEATERS DESIGNED AND CONSTRUCTED FOR HAZARDOUS LOCATION AREAS FOR ENVIRONMENTS REQUIRING RATINGS OF:
CLASS I, GROUP C & D, DIVISION 1 & 2
CLASS II, GROUP E, F, & G, DIVISION 1 & 2

HLA-SERIES

FEATURES

- ETL C/US listed for indoor commercial & industrial heating applications for hazardous location rated areas
- Rated for Class I, Group C & D, Division 1 & 2, Class II, Group E, F, & G, Division 1 & 2
- 14-gauge steel cabinet design with an epoxy powder coated "gray finish" contains heater core, motor, and fan assembly
- Permanently sealed, liquid to air, finned tube heat exchanger core
- Ethylene Glycol to water mixture uses a heat transfer fluid in the heater core, providing -49° F. (-45° C) freeze damage protection
- Cast aluminum control enclosure is factory wired and sealed to the side of the heater housing containing contactors and back-up contactors with 24-volt control circuit supplied by an internal step down transformer
- Units equipped with manual reset capillary type high limit provides high temperature regulation and is rated for 6,000 cycles of service
- Permanent split capacitor type single speed, 1725 RPM, ball bearing, thermal protected fan motor
- Louvers are individually adjustable for directional control of airflow
- Plated fan guards with less than ¼" spacing to cover motor and fan, complies to all OSHA requirements
- Heaters are designed to mount directly to an optional wall mounting bracket
- 3-Phase, 60-Hz, 480-Volt electrical connections
- ABS Type Approved



BENEFITS

- Heaters are designed for rugged industrial applications in hazardous locations where the possibility of explosion or fire exists due to the presence of certain flammable gases, vapors, powdered metals or dust.
- Units are factory wired with a 24-volt control circuit system, for operating remote low voltage wall mounted thermostats.
- Optional wall bracket allows the customer to install these heaters in a horizontal position.
- ETL listed for both U.S. and Canadian standards.

APPLICATION SOLUTIONS

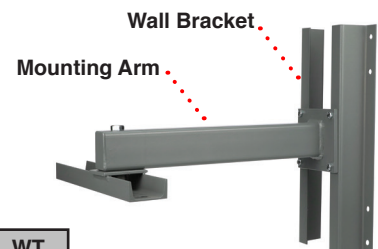
- Explosion proof fan-forced electric unit heaters are constructed for use in areas that require hazardous locations rated equipment.
- The permanently sealed construction made with corrosion-resistant material makes these heaters ideal for chemical treatment and storage facilities, industrial and maintenance locations.
- Designed for spot, supplemental, and primary comfort heating systems.

GRAINGER MODEL #	MFG MODEL #	WATTS	BTUs	VOLTS	AMPS	TEMP RISE	CFM	AIR THROW	REC MOUNT HT.	WT. (lbs.)	DIMENSIONS (in.)		
											L	D	H
49CU01	HLA 12-480360-3.0-24-G	3,000	12,250	480	4.3	16.5°	580	24'	8'	167	22.38	19.75	17.75
49CU02	HLA 12-480360-5.0-24-G	5,000	17,100	480	6.7	27.6°					22.38	19.75	17.75
49CU03	HLA 12-480360-7.5-24-G	7,500	25,600	480	9.7	41.4°					22.38	19.75	17.75
49CU04	HLA 16-480360-10.0-24-G	10,000	34,150	480	12.7	21.7°	1500	40'	10'	193	26.38	20.75	20.75
49CU05	HLA 20-480360-15.0-24-G	15,000	51,200	480	19.0	19.2°	2450				30.38	22.50	24.75
49CU06	HLA 20-480360-20.0-24-G	20,000	68,300	480	25.1	26.2°	2450	43'	13'	225	30.38	22.50	24.75
49CU07	HLA 20-480360-25.0-24-G	25,000	85,400	480	31.1	32.8°					30.38	22.50	24.75

Note: Before selecting a hazardous location electric heater refer to Article 500 or other applicable standard referenced in the National Electric Code.

OPTIONAL ACCESSORIES WALL MOUNTING BRACKET

GRAINGER MODEL #	MFG MODEL #	DESCRIPTION	FOR USE WITH	WT. (lbs.)
49CU08	HLWM37	Wall Mounting Bracket	49CU01 thru 49CU03 (3.0-7.5kW size)	27
49CU09	HLWM10		49CU04 (10.0kW size)	28
49CU10	HLWM1525		49CU05 thru 49CU07 (15.0-25.0kW)	29



WALL MOUNTING THERMOSTAT

GRAINGER MODEL #	MFG MODEL #	ITEM	DESCRIPTION	MAX AMP	VOLTS	WT. (lbs.)
6GVX9	HLT-2	Wall Mounting Thermostat	Line Voltage DPDT Stat, 50-90° F Temp Range	22	125-277 VAC	12



PORTABLE HAZARDOUS LOCATION ELECTRIC UNIT HEATERS



ELECTRIC FAN-FORCED UNIT HEATERS DESIGNED AND CONSTRUCTED FOR HAZARDOUS LOCATION AREAS FOR ENVIRONMENTS REQUIRING RATINGS OF:
CLASS I, GROUP C & D DIVISION 1 & 2
CLASS II, GROUP E, F, & G, DIVISION 1 & 2

PHLA-SERIES

FEATURES

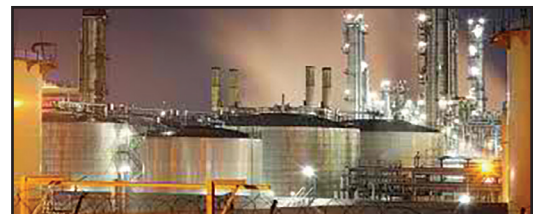
- ETL C/US listed for indoor commercial & industrial heating applications for hazardous location rated areas
- Rated for Class I, Group C & D, Division 1 & 2, Class II, Group E, F, & G, Division 1 & 2
- 14-gauge steel cabinet design with an epoxy powder coated "gray finish" contains heater core, motor, and fan assembly
- Portable cart design with handle for easy maneuverability, and fork-lift channels for additional product placement
- Cart has locking anti-static wheel base to reduce risk of static discharge
- All units include the following:
 - 24-Volt Control in NEMA-7 Enclosure
 - Transformer & Contractor
 - Disconnect Switch w/ Manual Reset
 - Male & Female Plug
 - Pilot Light
 - Thermostat
- Permanently sealed, liquid to air, finned tube heat exchanger core
- Ethylene Glycol to water mixture uses a heat transfer fluid in the heater core, providing -49° F. (-45° C) freeze damage protection
- Cast aluminum control enclosure is factory wired and sealed to the side of the heater housing containing contactors and back-up contactors with 24-volt control circuit supplied by an internal step down transformer
- Units equipped with manual reset capillary type high limit provides high temperature regulation and is rated for 6,000 cycles of service
- Permanent split capacitor type single speed, 1725 RPM, ball bearing, thermal protected fan motor
- Louvers are individually adjustable for directional control of airflow
- Plated fan guards with less than 1/4" spacing to cover motor and fan, complies to all OSHA requirements
- 3-Phase, 60-Hz, 240 & 480-Volt electrical connections
- ABS Type Approved



BENEFITS

- Units are engineered to separate (3) critical parts to avoid fire and prevent combustion or explosion; separates - the fuel, the oxygen, and the spark.
- Heaters are designed for portable applications in rugged industrial applications for hazardous location areas where the possibility of explosion or fire exists due to the presence of certain flammable gases, vapors, powdered metals or dust.
- Units are factory wired for direct plug-in, using a cast aluminum "Killark" male/female connection.
- Portable cart contains an all aluminum construction, light weight design makes it easy to maneuver.
- ETL listed for both U.S. and Canadian standards.

Indoor Spot Heating



APPLICATION SOLUTIONS

- Explosion proof fan-forced electric unit heaters are constructed for use in areas that require hazardous locations rated equipment.
- The permanently sealed construction made with corrosion-resistant material makes these heaters ideal for chemical treatment and storage facilities, industrial and maintenance locations.
- Designed for spot, supplemental, and primary comfort heating systems.
- Ideal for petrochemical, mining, oil & gas, water treatment, power generation, and pulp & paper facilities.



240 & 480 Volt Application

GRAINGER MODEL #	MFG MODEL #	WATTS	BTUs	VOLTS	AMPS	PH	CONTROL VOLTAGE	CFM	AIR THROW	TEMP RISE	WT. (lbs.)
21EX17	PHLA 20-240360-15.0-24-TDP	15,000	51,200	240	38.1	3	24	2450	43'	19.2°	193
21EX18	PHLA 20-480360-15.0-24-TDP	15,000	51,200	480	19.0					19.2°	193
21EX19	PHLA 20-480360-25.0-24-TDP	25,000	85,400	480	31.1					32.8°	225

Note: Before selecting a hazardous location electric heater refer to Article 500 or other applicable standard referenced in the National Electric Code.

