



# Heating

2006-07 Product Catalog

DAY IN. DAY OUT.™

**Dayton**®

# Dayton Heating Products: Everything You Need to Keep Your Facility Running This Season

As the temperature drops, it's important for your facility to stay ahead of the cold. When your employees are warm, they are comfortable, and when your employees are comfortable, they get the job done right. With Dayton, you know you will always get quality you can count on to make sure productivity stays high, no matter what the season.

To make sure you always have the right heating products for your facility, we've created a new resource for all your heating needs. With the Dayton Heating Catalog, you have the tools to choose the right heating products and accessories, quickly and easily.

We offer a wide selection of portable infrared, gas-fired and unit heaters, and new for this season we are featuring an expanded lineup of electric unit heaters with a number of mounting styles. From the front office to the warehouse, no matter what your facility, we have the right heater to keep you working all season.

## Heating Products and More

Dayton is your source for everything you need to keep working year-round. In addition to our extensive line of heaters and heating accessories, we offer a broad range of other products, including pumps, motors and ventilation products to make sure your facility is always prepared. Our products are built to last, with heavy-duty construction and design functionality to fit any application.

## Order Dayton Products Today, They Ship Today!\*

Because Dayton is backed by Grainger, you can always get the heater you need, fast. This catalog has all the information necessary to help you find it, order it and get back to work.

Grainger offers four ways to order: call, fax, stop by your local Grainger branch or go online to [grainger.com/dayton](http://grainger.com/dayton). Order Dayton heaters from Grainger and keep working hard.

## Contents

- 3 Introduction to Dayton Infrared Heaters**
- 4 Theory and Benefits
- 5 Common Applications
- 6 Design Considerations
- 7 Recommended Mounting Heights
- 8 High-Intensity Infrared Space Heaters
- 9 Gas-Fired Commercial Infrared Heaters
- 10 Low-Intensity Infrared Tube Heaters
- 11-13 Infrared Heaters and Accessories
- 14 Introduction to Dayton Gas-Fired Unit Heaters**
- 15 Standard Features
- 16 Estimating Heat Loss to Determine Btu Needs
- 17 Design Considerations
- 18 Manufacturers' Cross-Reference for Dayton Gas-Fired and Propeller-Type Unit Heaters
- 19-25 Gas-Fired Unit Heaters
- 26 Introduction to Dayton Hydronic Heaters**
- 27-29 Hydronic Heaters
- 30 Introduction to Dayton Electric Heaters**
- 31-44 Electric Heaters
- 45 Introduction to Dayton Portable Oil-/Gas-Fired Heaters**
- 46-51 Portable Oil-/Gas-Fired Heaters



\*In-stock orders placed directly with a Grainger branch or online at [grainger.com](http://grainger.com) by 5 p.m. local time M-F will ship the same day.

# Dayton: Infrared Heaters

Don't let your heat go to waste. Rather than warming the air around the heater, Dayton infrared heaters allow heat to radiate from the ground, keeping the warmth where you need it most and saving money on fuel while eliminating noisy blowers. Dayton infrared heaters: the right choice for your commercial or industrial facility.

## Quality You Can Depend On Everyday

Dayton infrared heaters are built of heavy-duty materials and designed for long-running performance. You can count on tough, hard-working Dayton products to get the job done right, whatever the application.

Because Dayton is backed by Grainger, you can rely on great service, support and availability. And with so many ways to order, you get the right Dayton product quickly and easily.

**For pricing information, please contact your Grainger representative, call or visit your local branch or go online to [grainger.com/dayton](http://grainger.com/dayton).**



## Contents

- |   |  |
|---|--|
| 4 Theory of Infrared                    | 9 Gas-Fired Commercial Infrared Heaters            |
| 4 Traditional Benefits of Infrared      | 10 Low-Intensity Infrared Tube Heaters             |
| 5 Common Applications                   | 11 Commercial/Industrial Gas Infrared Tube Heaters |
| 6 Design Considerations                 | 12 Residential Garage Infrared Tube Heaters        |
| 7 Recommended Mounting Heights          | 13 Infrared Heater Accessories                     |
| 8 High-Intensity Infrared Space Heaters |  |

DAY IN. DAY OUT.™

**Dayton®**

# Theory of Infrared

## Heat the Floor Zone, Not the Ceiling

Gas-fired infrared heating systems emulate the true efficiency of the sun by generating radiant energy that is converted into heat. Once the infrared energy is absorbed by objects in its path, such as floors, machinery or people, it is then re-radiated to warm the surrounding air by convection.

This method of heating, as opposed to filling a room with warm air, allows the source of heat to begin at the floor level and not the ceiling, reducing heat stratification in high ceiling areas. This creates the most efficient and effective heating method under the diverse and challenging conditions present in most commercial and industrial applications.

# Traditional Benefits of Infrared

**Fuel Savings** – 20% to 50% over conventional forced air units.

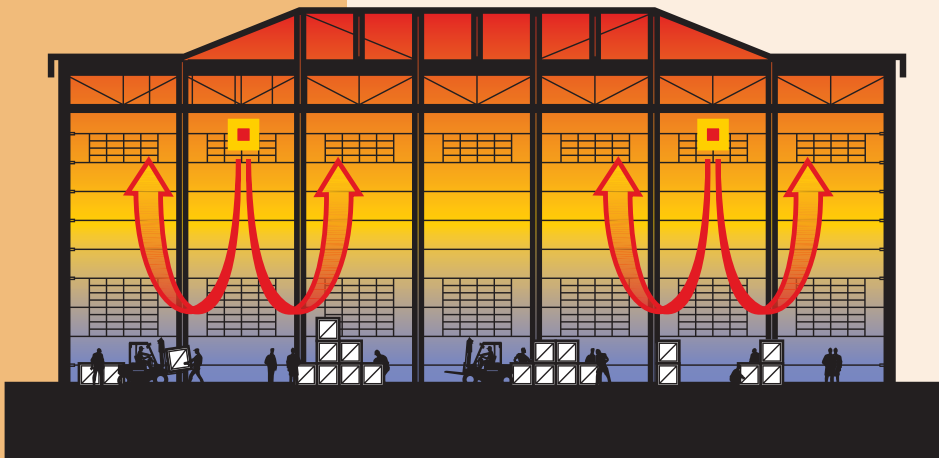
**Flexibility** – Heater can be placed wherever heat is needed.

**Modular Design** – Dayton high-intensity heaters are of a modular design to assure heating protection over a wide coverage area.

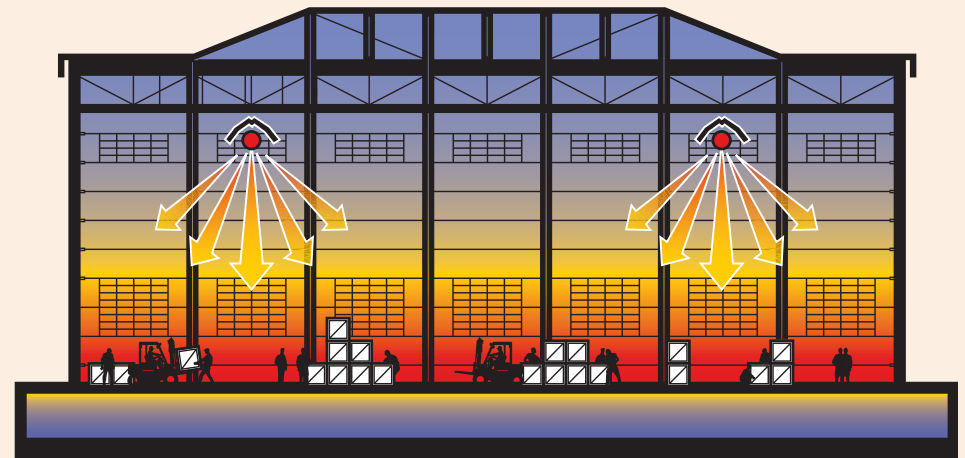
**Superior Comfort** – Heat the floor zone, not the ceiling.

**Durability** – Infrared heaters require very little maintenance and are much easier to clean than air tempering and recirculation units.

**Quiet and Clean** – No noisy blowers pushing dirt and dust around.



Forced Air  
Heating System



Infrared  
Heating System



# Common Applications

Every application is unique and presents its own obstacles. Dayton infrared heaters efficiently and inexpensively provide the heating requirements for a wide variety of facilities.

**SAVE ENERGY** and effectively heat work environments with heaters that target equipment and people, not just empty air.



Aircraft Hangars



Outdoor Patios



Indoor Sporting Arenas




Residential Garages



Fire Station Apparatus Bays

**WARNING**



Infrared heaters are not explosion-proof and may not be placed in a Class 1 or 2 Explosive Environment, such as a spray booth. Infrared heaters are also not for use in residential areas, unless otherwise specified.



Golf Driving Ranges



Vehicle Maintenance

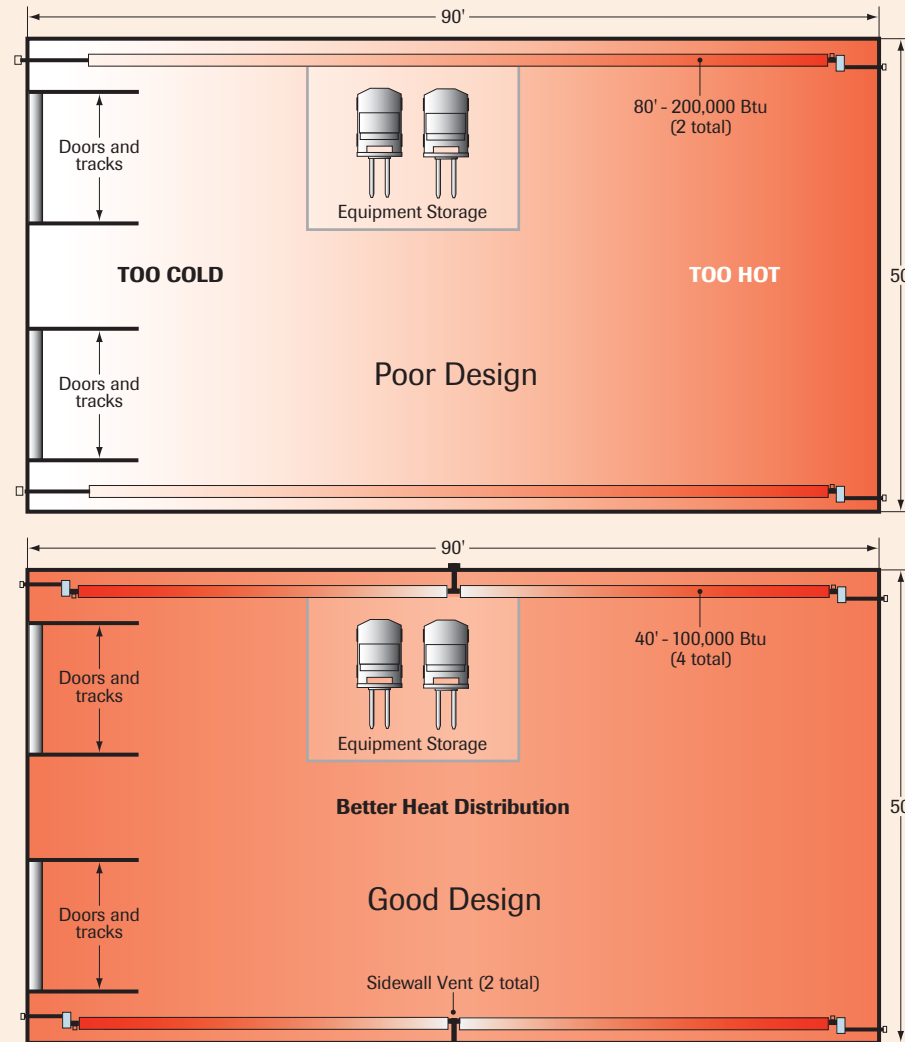
## PRE-CHECKS

When designing an infrared radiant heating system, consider the following:

1. Has the building's heat loss been evaluated?
2. Does the design meet the needs of the space?
3. Have recommended mounting heights been observed?
4. Have all clearance to combustibles situations been observed?
5. Is the supply (burner) end of the heater located where more heat is required?
6. Is it best to offset the heaters and/or rotate the reflectors towards the heat zone?
7. Are extra guards, side shields, "U" or "L" reflector covers required?
8. Does the heater require outside fresh air for combustion?
9. Is the environment harsh or contaminated (requiring outside air for combustion)?
10. Are chemicals or vapors a concern (requiring outside air for combustion or additional ventilation)?

## Design Considerations

Placement of infrared heaters is influenced by many factors. Aside from safety factors, considerations such as the number of heater or vent elbows that are allowed, maximum vent lengths, ducting of combustion air and combining exhaust vents are a few examples. To ensure a properly designed heating system, a layout should be developed for the correct placement of the burner control box, tubes, vents and combustion air intake ducts. Inspect and evaluate the mounting conditions, vent locations, gas supply and wiring.



## Design Scenario

A tube heater system is being installed in a 90' (L) x 50' (W) x 14' (H) space. Two overhead doors are located at one end and an equipment storage area on one side. The calculated heat load is 400,000 BtuH.

### Poor Design

- Two burners (200,000 BtuH each) are placed at one end, opposite the area of highest demand (e.g., overhead doors)
- Recommended mounting heights are not observed
- Produces an uneven heat distribution

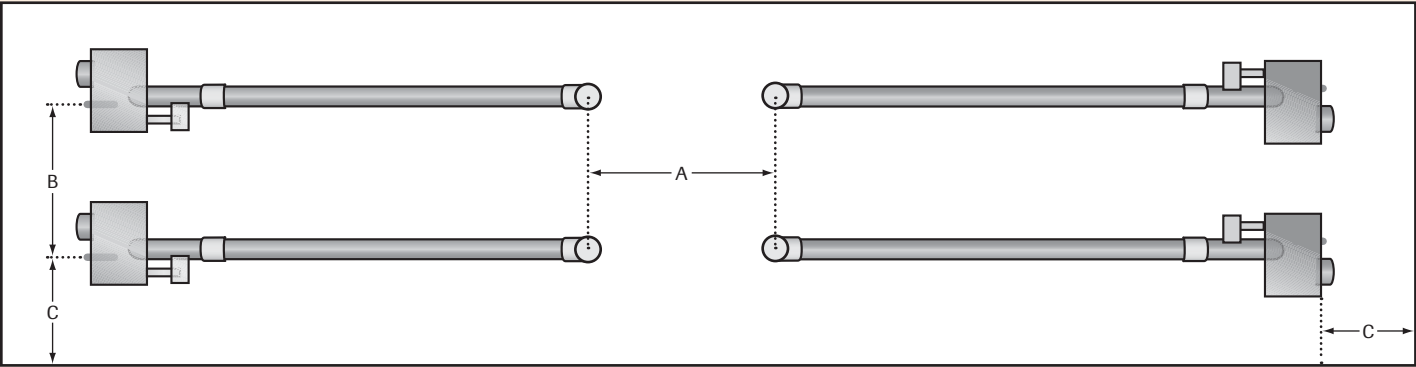
### Good Design

- One burner (100,000 BtuH) is placed in each corner. Burner (hotter) ends direct heat to areas of highest heat demand
- Recommended mounting heights have been observed
- Distributes heat more evenly

# Recommended Mounting Heights

NOTE: Recommended mounting heights are listed as a guideline. If infrared heaters are mounted too low or too high, they may result in heat discomfort or lack of heat. It is generally recommended to observe the recommended mounting heights to optimize comfort conditions. However, certain applications such as spot heating, freeze protection, outdoor patio heating or very high ceilings may result in the heaters being mounted outside of the recommended mounting heights. Clearances to combustibles must always be maintained.

RECOMMENDED MOUNTING HEIGHTS FOR LOW-INTENSITY TUBE HEATERS – REFERENCE CHART BELOW FOR AREAS OF MEASURING							
MODEL	Btu RANGE	SUGGESTED MOUNTING HEIGHTS (IN.)	COVERAGE STRAIGHT CONFIG. (IN.) (LxW)	COVERAGE U-TUBE CONFIG. (IN.) (LxW)	DISTANCE BETWEEN HEATER ROWS (FT.) DIM. A	DISTANCE BETWEEN HEATER ROWS (FT.) DIM. B	MAX. DISTANCE BETWEEN HEATERS AND WALL (FT.) DIM. C
20 ft.	50 MBH	10–16	20 x 12	12 x 12	10–20	20–40	16
	75 MBH	12–20	22 x 15	12 x 12	20–30	30–50	18
30 ft.	100 MBH	13–20	33 x 18	N/A	20–30	30–50	20
40 ft.	100–125 MBH	12–20	44 x 21	23 x 17	20–30	30–50	20
	150 MBH	16–30	45 x 26	24 x 20	30–40	40–60	25
60 ft.	150 MBH	17–40	67 x 34	34 x 26	30–40	40–60	25



## STANDARDS

Refer to the following codes for application-specific guidelines:

### Public Garages

The installation of this heater in public garages must conform with the Standard for Parking Garages, ANSI/NFPA 88A (latest edition), or the Standard for Repair Garages, ANSI/NFPA 88B (latest edition) and must be at least 8-ft. above the floor.

### Aircraft Hangars

The installation of this heater in aircraft hangars must conform with the Standard for Aircraft Hangars, ANSI/NFPA 409 (latest edition).

### Electrical

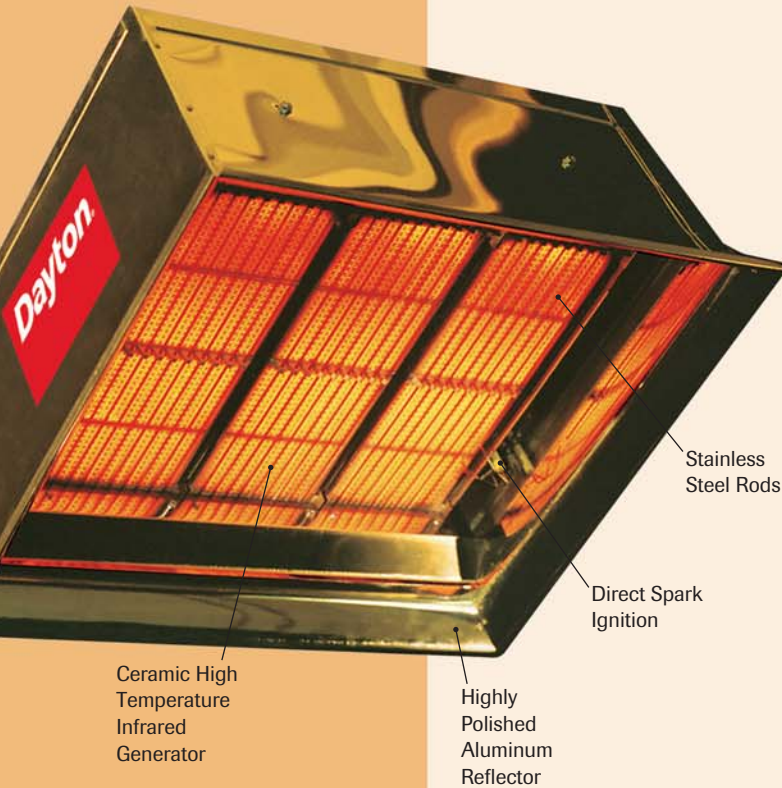
This heater, when installed, must be electrically grounded in accordance with the National Electrical Code ANSI/NFPA 70 (latest edition).

### Venting

Venting must be installed in accordance with the National Fuel Code, ANSI/NFPA 70 and the requirement set forth in the installation and operation manual.



# High-Intensity Infrared Space Heaters



A gas-air mixture passes through a perforated ceramic refractory and ignites on the ceramic surface. The ceramic materials heat to approximately 1780°F (high intensity) and generate a large amount of infrared energy that is directed to the floor level.

Dayton high-intensity heaters not only come assembled to save time and labor, they also can save up to 50% of fuel costs over conventional heating systems. There is no warm-up time, blower, venting or duct-work needed. Instant, uniform heat is directed to people and objects, which then heat the surrounding air. Installation costs are low since the units are preassembled and ready to suspend on threaded rod or chains attached to the ceiling, beams or walls. Gas and electrical connections are in convenient locations and electronic ignition assures reliable operation.

Uses: For high ceiling applications and areas with high air filtration. Widely used for total or spot heating in factories, warehouses, service garages, loading docks, etc.



## Features

- Exclusive ceramic burner provides maximum infrared energy
- Stainless steel rods increase burner surface temperature and efficiency
- Highly polished aluminum reflector
- Direct spark ignition of main burners via solid state ignition
- Loss of gas or power supply causes 100% shutoff of main burners; no pilot
- Thermostatically operated
- Potted circuit board for use in controlling heater in humid or wet applications
- Chain hanging set included
- Lower installation costs through compact modular heater design
- Low maintenance; no moving parts
- Rugged, noncorrosive materials in heater construction
- 5-year limited ceramic burner warranty
- CSA Design Certified, UL-Listed

## WARNING



**Not for residential use.**  
Do not use this heater in the home, sleeping quarters, attached garages, etc.



## Gas-Fired Commercial Infrared Heaters

Save 30% to 50% fuel costs over conventional systems. No warm-up time, blowers, venting or ductwork needed. Instant, uniform heat directly to objects, which then heat the surrounding air.

Aluminized and stainless steel construction. Bright aluminum reflector. 100% automatic gas shutoff control and pressure regulator.

Installation information: Heated area requires 4 CFM of exhaust ventilation for every 1,000 BtuH of infrared heat (e.g., 120 CFM for a 30,000 BtuH heater, 240 CFM for a 60,000 BtuH heater, and 360 CFM for a 90,000 BtuH heater). Heaters must be mounted at a 20° to 35° angle from horizontal, preferably facing inward around the perimeter of heated area. See clearance to combustibles on this page.

Uses: For high ceiling applications and areas with large heat losses. Widely used for total or spot heating in factories, warehouses, service garages, foundries, etc.

- Low maintenance; no moving parts
- Noncorrosive materials throughout
- 1/2" NPT gas inlet, 120V, 60 Hz power required
- Water resistant circuit board on 120V models
- Chain hanging set included

**Note:** Models on this page are not for residential use or car wash applications. See infrared tube heaters on page 12.



3E134



3E133



3E132

### CLEARANCE TO COMBUSTIBLES (IN.)

BtuH INPUT	SIDE	BACK	TOP	BELOW
30,000	30	18	28	72
60,000	32	18	40	72
90,000	48	30	42	98

### NATURAL GAS

BtuH INPUT	OVERALL DIMENSIONS (IN.)			RADIANT SURFACE (SQ. IN.)	TYPICAL FLOOR COVERAGE DIA (FT.) @ MTG. HT. (FT.)	CONTROL VOLTAGE		SHPG. WTS.
	H	W	D			24V STOCK NO.*	120V STOCK NO.*	
30,000	14 1/4	12 3/4	22 1/2	85	17-21 @ 11-14	5VD61	3E132	18.0
60,000	15 1/4	19 1/8	22 1/2	170	21-26 @ 14-17	5VD63	3E133	27.0
90,000	15 1/4	26 5/8	22 1/2	255	27-32 @ 18-21	5VD65	3E134	36.0

### PROPANE GAS

BtuH INPUT	H	W	D	RADIANT SURFACE (SQ. IN.)	TYPICAL FLOOR COVERAGE DIA (FT.) @ MTG. HT. (FT.)	24V STOCK NO.*	120V STOCK NO.*	SHPG. WTS.
30,000	14 1/4	12 3/4	22 1/2	85	17-21 @ 12-14	5VD62	3E460	18.0
60,000	15 1/4	19 1/8	22 1/2	170	21-26 @ 14-17	5VD64	3E461	27.0
90,000	15 1/4	26 5/8	22 1/2	255	27-32 @ 18-21	5VD66	3E462	36.0

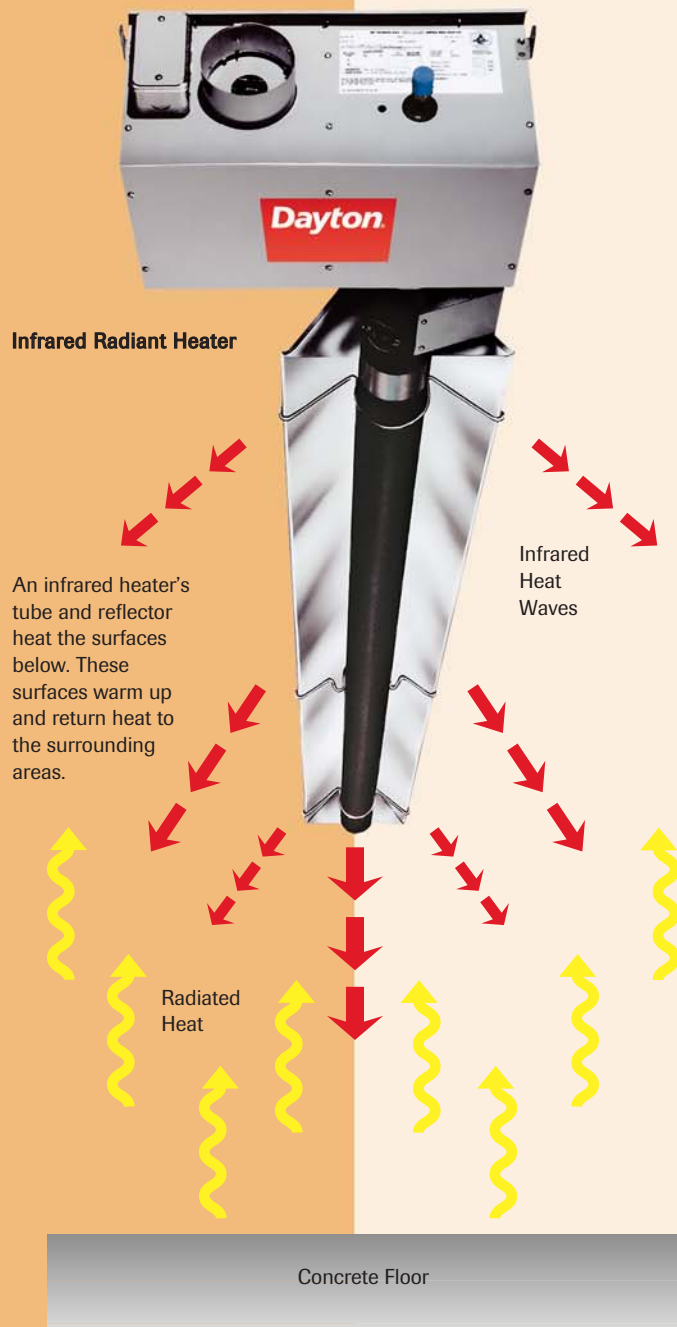
(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**





# Low-Intensity Infrared Tube Heaters

Low-intensity infrared heaters offer more than economy. Quality construction and features make the Dayton system the best choice in this class of equipment. The burner control box delivers heat down the 4" diameter radiant tube, heating it to 900°F or more on the burner end. The infrared rays are then directed by the highly polished, mirror-finished reflector (adjustable 0° to 45°). Features a new stainless steel burner design and lower clearance to combustibles.

## Burner Design

A burner that produces an elongated and spiraled flame is superior to a "cup" style burner that produces a shortened flame, as it emits more flame radiation than other flames and improves heat distribution. Dayton's stainless steel burner is specifically designed for an elongated flame.

## Tube Construction

Radiant tubes are constructed of stainless steel, titanium coated, aluminized coated and hot-rolled steel: different tubes have different tolerances to heat and corrosion. An efficient radiant heater will use 100% aluminized coated tubes at a minimum and a highly emissive (.95+) black coating will further enhance performance.

## Highly Polished Reflectors

Reflector construction is more critical than reflector design. Highly polished aluminum reflectors transmit nearly 90% of radiant energy, while mill finish reflectors have an absorption value of 40% to 60%.

## Other

Hot surface ignition is superior to spark ignition; complete mounting kits (hangers, clamps, flex connectors, end caps and gas cocks) reduce installation time; interlocking tubes are easier to install and offer a superior fit to non-swaged tubes; and titanium combustion chambers offer more protection over aluminized tubes.

Uses: Ideal for most commercial and industrial applications including factories, machine shops, warehouses, loading docks, aircraft hangars, auto service garages, body shops, car washes, ice rinks, tennis houses and more.

## Features

- Mounting chains, stainless steel flexible gas connector and gas shutoff included
- Units are approved for vented (sidewall or roof) or unvented use
- Single unit sidewall venting is 4" diameter
- Up to two units may be common vented (6" dia.) and controlled by a single thermostat
- Units may be placed in "U" or "L" shaped configurations
- Units come equipped to accept outside combustion air from sidewall for use in harsh or dirty environments
- Dayton limited warranty: three years on combustion/heat exchangers; one year on all other components

# Commercial/Industrial Gas Infrared Tube Heaters



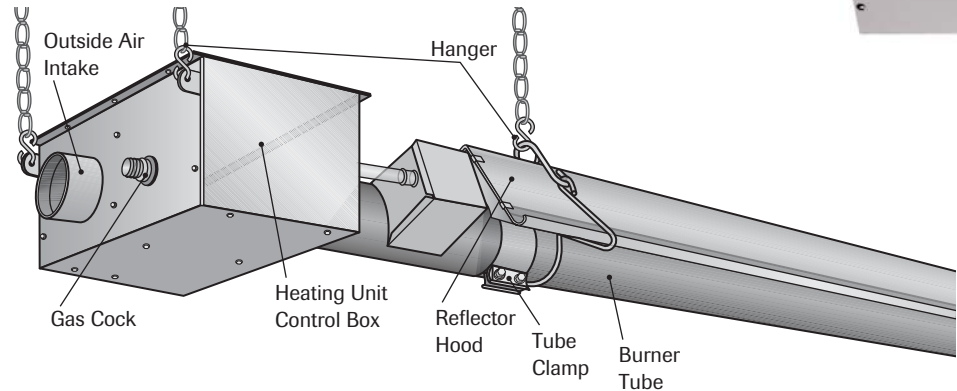
**For Repair Parts**  
Call Your Local Branch

The floor and objects are directly heated and re-radiate heat to the surrounding air. Burner control box delivers heat down the 4" diameter radiant tube, heating it to 900° or more on the burner end. The infrared rays are then directed by a highly polished, mirror-finished aluminum reflector (adjustable 0° to 45°). Features a new stainless steel burner design.

Units are approved for vented (side wall or roof) and unvented use. Up to two units may be commonly vented and controlled by a single thermostat. Units may be placed in "L" or "U" configurations. For "L" configurations see **No. 3T271**, for "U" configurations see **No. 3F835** on page 13. Mounting chains, stainless steel flexible gas connector and gas shutoff included.

Uses: Ideal for most commercial and industrial applications including factories, machine shops, warehouses, loading docks, aircraft hangars, auto service garages, body shops, car washes, ice rinks, tennis houses and more.

- Side wall common venting of two units is 6" diameter; see **Nos. 2F211 and 3F817** on page 13
  - For single unit side wall venting see **No. 2C448** on page 13
  - Units come equipped to accept outside combustion air from sidewall; see **No. 3F837** on page 13
  - 120V, 60Hz, 4.8 amps
  - Gas pressure inlet for natural gas: minimum 5.0, maximum 14.0 (inches water column)
  - Gas pressure inlet for LP gas: minimum 11.0, maximum 14.0 (inches water column)
- Note: Not for residential use. Minimum 10 to 16-ft. mounting height required.



## COMMERCIAL/INDUSTRIAL GAS INFRARED TUBE HEATERS

BtuH INPUT	RADIANT PIPE (FT.)	MIN. MOUNTING HEIGHT (FT.)	CLEARANCE TO COMBUSTIBLES (IN.)			DIMENSIONS (IN.)			NATURAL GAS STOCK NO.*	PROPANE STOCK NO.*	SHPG. WT.
			CEILING	BELOW	SIDE	H	W	L			
50,000	20	10	6	47	9	8 1/2	18 1/8	259 (21 1/2 ft.)	<b>7D837</b>	<b>7D838</b>	<b>122.0</b>
75,000	20	13	6	60	9	8 1/2	18 1/8	259 (21 1/2 ft.)	<b>7D839</b>	<b>7D840</b>	<b>123.0</b>
100,000	30	15	6	66	14	8 1/2	18 1/8	375 (31 1/4 ft.)	<b>7D841</b>	<b>7D842</b>	<b>159.0</b>
100,000	40	15	6	66	14	8 1/2	18 1/8	491 (41 ft.)	<b>7D843</b>	<b>7D844</b>	<b>191.0</b>
125,000	40	15	6	76	20	8 1/2	18 1/8	491 (41 ft.)	<b>7D845</b>	<b>7D846</b>	<b>191.0</b>
150,000	40	16	6	81	24	8 1/2	18 1/8	491 (41 ft.)	<b>7D847</b>	<b>7D848</b>	<b>190.0</b>
150,000	60	16	6	81	24	8 1/2	18 1/8	723 (60 1/4 ft.)	<b>7D849</b>	<b>7D851</b>	<b>264.0</b>

(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**  
Your Grainger branch has many items in stock for immediate pickup. Call for availability.

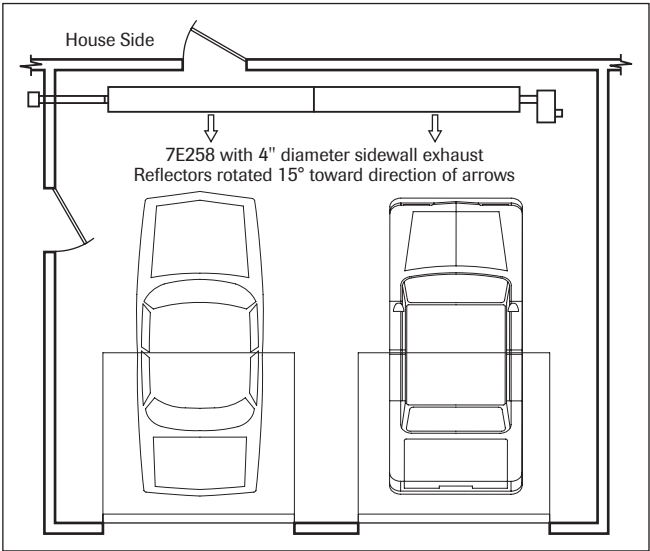


# Residential Garage Infrared Tube Heaters

Heaters are approved for use in both commercial and residential applications. Provide efficient infrared heat when and wherever needed. Proven heater design and components ensure years of reliable operation. When properly applied, a single unit is typically suitable for 1-, 2- or 3-car garages with 9-ft. to 14-ft. ceilings.

Uses: Attached garages, solariums, enclosed patios, swimming pool areas, farm shops, workshops, low ceiling applications, etc.

- Common vent up to two units
- Units accept outside combustion air from sidewall
- Mounting chains, stainless steel flexible gas connector and gas shutoff included
- Uses reliable Glo-Bar™ ignition system
- Polished aluminum reflector directs heat to the floor
- Stainless steel internal baffle adds efficiency
- Dayton limited warranty: three years on combustion/heat exchangers; one year on all other components



For Repair Parts  
Call Your Local Branch



Workshops



Residential Garages

## RESIDENTIAL GARAGE INFRARED TUBE HEATERS

BtuH INPUT	GAS TYPE-CONNECTION	VOLTS/HZ/AMPS.	GAS INLET PRESSURE (IN. W.C.P.)		SUGGESTED MOUNTING HEIGHT (FT.)	CLEARANCE TO COMBUSTIBLES (IN.)*			DIMENSIONS (IN.)			FLOOR COVERAGE† DIA. (FT.) @ MTG. HT. (FT.)	STOCK NO.‡	SHPG. WT.
			MIN.	MAX.		CEILING	BELOW	SIDE	H	W	L			
25,000	Nat.-1/2" NPT	120/60/4.8	5	14	8-11	6	30	10	8.5	18	135 (11 1/4 ft.)	18-20 @ 8-9	7E256	74.0
25,000	LP-1/2" NPT	120/60/4.8	11	14	8-11	6	30	10	8.5	18	135 (11 1/4 ft.)	18-20 @ 8-9	7E257	74.0
40,000	Nat.-1/2" NPT	120/60/4.8	5	14	8-13	6	46	14	8.5	18	258 (21 1/2 ft.)	24-30 @ 10-12	7E258	110.0
40,000	LP-1/2" NPT	120/60/4.8	11	14	8-13	6	46	14	8.5	18	258 (21 1/2 ft.)	24-30 @ 10-12	7E259	110.0

(\*) Clearances published in the installation instructions, operation manual and on warning label supercede data shown in this brochure. (†) Floor coverage based on total building heating. Spot heating coverage will vary. (‡) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.

# Infrared Heater Accessories

## Industrial and Residential

### CLEARANCE SAFETY LIMIT SIGN

Acts as warning to keep clearance to combustible area clear. 10" x 7" aluminum sign. Designed to be hung or adhered at the clearance to combustible limit stated on each heater.

### ANGLE MOUNTING BRACKET

Attaches to heater wire hangers for pre-setting reflector angles at 15°, 30°, or 45°. 20-ft. heater requires quantity of three, 30-ft. heater requires quantity of four, 40-ft. heater requires quantity of five, and 60-ft. heater requires quantity of seven.

### OUTSIDE COMBUSTION AIR INLET CAP

Designed for connecting outside combustion air to a single unit with PVC or other suitable material. 4" O.D. with birdscreen. Mounts to the side wall of the building. 4" ducting material not included.

## Industrial Only

### 5-FT. TUBE AND REFLECTOR EXTENSION

Includes 5-ft. tube with black coating, reflector, tube clamp, and wire hanger. DO NOT use more than two per industrial heater.

### 10-FT. TUBE AND REFLECTOR EXTENSION

Includes 10-ft. tube with black coating, reflector, tube clamp, and two wire hangers. DO NOT use more than one per industrial heater. Truckline shipping only.

### 180° "U" BEND FITTING

Used to turn a straight tube heater into a "U" configuration. Preferable for spot heating or when a wider heat floor coverage pattern is required. Constructed of 16-gauge aluminized steel, black-coated tube, 4" diameter fitting with tube clamp and mounting materials included. Maximum of one per heater.

### SINGLE MOUNTING BRACKET

Attaches to parallel tubes, reduces suspension points and assures uniform spacing between opposing radiant tubes. 20-ft. heater requires quantity of two, 40-ft. heater requires quantity of three and 60-ft. heater requires quantity of four.

Designed to be used on "U"-shaped heaters only.

### REFLECTOR "U"

Highly polished aluminum reflector. Enables continuous reflector run in "U"-shaped heaters. Designed to be used in conjunction with No. 3F835 "U" bend fitting. Also attaches to standard heater reflectors.

### 90° ELBOW PIPE FITTING

90° "L"-shaped bend, 16-gauge aluminized steel elbow. Black coating. Maximum of two per heater.

### REFLECTOR ELBOW

Highly polished aluminum reflector. Enables continuous reflector run in "L"-shaped heaters. Covers No. 3TZ71 elbow and attaches to standard heater reflectors.

### UNVENTED OUTLET CAP

4" O.D. with flapper. Insures proper safety switch operation. Required for use when installing a single tube heater unvented.

### 4" SIDE WALL VENTING KIT

Includes a 4" side wall vent cap, 4" wall thimble, 18" "B" vent, and "B" to "C" adapter. Required for venting single units through a side wall.

### DUAL EXHAUST ASSEMBLY

"Y"-shaped fitting used when common venting two heaters. Constructed of 16-gauge aluminized steel, black coated. Fitting



is 4" x 4" x 6". Must be used when two units are being common-vented.

### 6" SIDE WALL VENTING KIT

Includes a 6" side wall vent cap, 6" wall thimble, 18" "B" vent, and "B" to "C" adapter.

Required for common venting of two units through a side wall.

## Residential Only

### SIDE WALL VENTING PACKAGE

Includes 3" vent cap, wall thimble, 3" x 18" "B" vent, and "B" to "C" adapter.

### INDUSTRIAL AND RESIDENTIAL (3" OR 4" MODELS)

DESCRIPTION	STOCK NO.	SHPG. WT.
Clearance Safety Limit Sign	5VD82	0.2
Angle Mounting Bracket	5VD54	0.3
Outside Combustion Air Inlet Cap	3F837	1.0

### INDUSTRIAL ONLY (4" MODELS ONLY)

5-ft. Tube and Reflector Extension	5VD87	20.0
10-ft. Tube and Reflector Extension	3VH27	44.0
180° "U" Bend Fitting	3F835	12.1
Single Mounting Bracket	5VD85	2.5
Reflector "U"	5VD84	3.9
90° Elbow Pipe Fitting	3TZ71	7.0
Reflector Elbow	5VD83	5.0
Unvented Outlet Cap	3F839	1.2
4" Side Wall Venting Kit	2C448	6.0
Dual Exhaust Assembly	3F817	10.4
6" Side Wall Venting Kit	2F211	9.0

### RESIDENTIAL ONLY (3" MODELS ONLY)

Side Wall Venting Package	3VH28	9.0
---------------------------	-------	-----



3F837



3TZ71



3F839



3F817



2F211

In-stock orders placed by 5 p.m. local time M-F will ship same day.

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**





# Dayton: Gas-Fired Unit Heaters

Dayton's gas-fired heaters can warm up any space, small or large, from a residential garage to a warehouse. With a range of models including Tubular,- Propeller,- Blower-Type and Low-Profile units from 30 to 400 MBtuH, Dayton heaters can fit any application. All of our gas-fired heaters are built from heavy-duty, 20-gauge steel and have a number of energy-saving features.

## Quality You Can Depend On Everyday

Dayton gas-fired heaters are built of heavy-duty materials and designed for long-running performance. You can count on tough, hard-working Dayton products to get the job done right, whatever the application.

Because Dayton is backed by Grainger, you can rely on great service, support and availability. And with so many ways to order, you get the right Dayton product quickly and easily.

**For pricing information, please contact your Grainger representative, call or visit your local branch or go online to [grainger.com/dayton](http://grainger.com/dayton).**

## Contents

- |  |   |
|--|---|
| 15 Standard Features of Gas-Fired Unit Heaters   | 20 Commercial/Industrial Tubular Gas-Fired Standard Heaters |
| 16 Estimating Heat Loss to Determine Btu Needs   | 22 Gas-Fired Spark Ignition Unit Heaters                    |
| 17 Design Considerations   | 23 Gas-Fired Standing Pilot Unit Heaters                    |
| 18 Manufacturers' Cross-Reference for Dayton Gas-Fired and Propeller-Type Unit Heaters | 24 Separated Combustion Unit Heaters                        |
| 19 Low-Profile Garage Heaters  | 25 Blower Unit Heaters                                      |

DAY IN. DAY OUT.™

**Dayton®**



# Standard Features of Gas-Fired Unit Heaters

Dayton Gas-Fired Unit Heaters provide efficient heating for a variety of residential and commercial applications. Several styles are available with capacities ranging from 30 to 400 MBtuH, including Tubular,- Propeller- and Blower-Type.

Our complete line of heaters allow you to order the exact capacity model every time with no energy-wasting oversizing. Applications include residential and commercial garages, workshops, warehouses, factories, shipping areas and public buildings. All our units provide efficiencies up to 81%.

## Heat Exchanger Technology

Unlike heat exchangers that feature lightweight construction, Dayton's minimum metal standard is a heavy-duty 20-gauge. Our heat exchangers and reliable, energy-saving ignition system technology allow heated air to be evenly distributed to the conditioned space. An exceptional balance of motor and blower components ensures quiet operation.

## Ease of Service and Maintenance

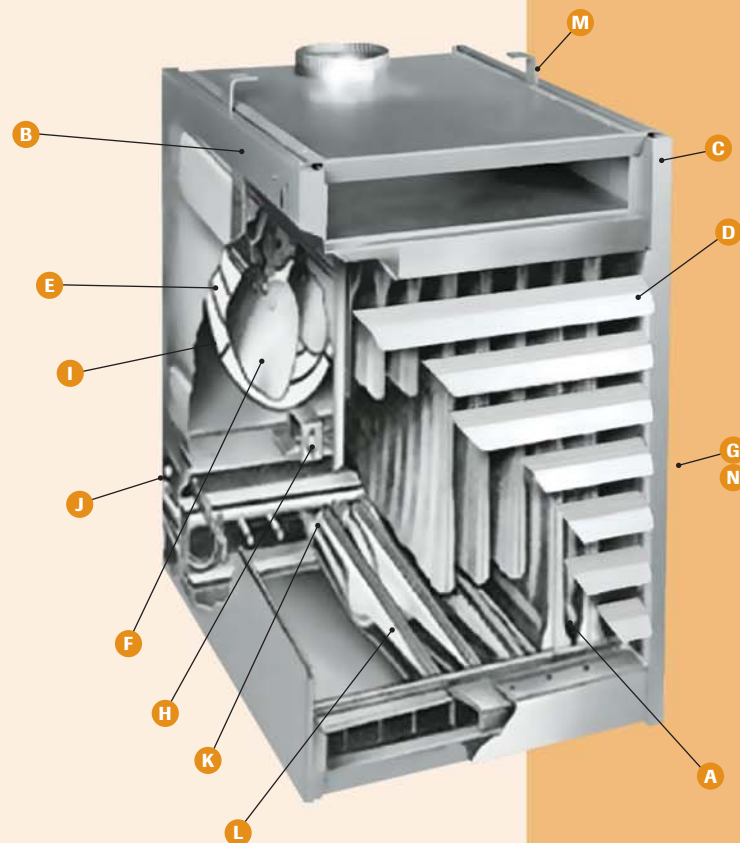
All Dayton unit heaters are designed for ease of installation, service and maintenance. All major components are easily accessible to save time on inspection and service calls. For tubular unit heaters, ignition and control fans are located in one central control panel. Burners are individually removable for inspection and servicing. Quality components throughout ensure long service life.

## Warranty and Factory Assurance

All Dayton unit heaters are covered by a 10-year warranty (unless otherwise indicated) on complete heat exchangers, draft hood assemblies and burners. Each unit is factory test-fired to ensure proper operation when installed.

## Dayton Propeller-Type Unit Heater Features

- A Heat Exchanger:** Designed to achieve over 80% thermal efficiency. 20-gauge aluminized steel tubes: two vertical seams. Heat exchanger tubes welded to heat exchanger top and bottom header panels. Headers of 18-gauge aluminized steel.
- B Draft Diverter:** Corrosion-resistant aluminized steel.
- C Housing:** 20-gauge galvanized steel with gray enamel finish.
- D Louvers:** Independently adjustable for best air distribution. Prevents closure of louvers.
- E Motors:** Shaded pole (SP) motor—sizes 30,000 to 125,000 BtuH. Permanent Split Capacitor (PSC) motor—sizes 150,000 BtuH–400,000 BtuH. Automatic reset thermal protection. 115V, 60 Hz.
- F Fan:** Dynamically balanced, aluminum air foil blade assures quiet, efficient operation while providing maximum heat throw.
- G Fan Switch:** Has built-in heat anticipator to assure positive fan delay (not shown).
- H Limit Switch:** Prevents excessive outlet air temperature.
- I Motor Support:** Exclusive vibration isolators between fan and heater assure quiet operation. Motor and fan guard.
- J Automatic Gas Valve:** 24VAC with 100% safety shutoff.
- K Air Shutters:** Models have individually adjustable, friction locked, manually rotated air shutter adjustment.
- L Burners:** Stamped aluminized steel with stainless steel port protectors.
- M Hangers:** Two-point suspension bolted directly to heat exchanger with 9/16" dia. hanging holes provided at the top of the unit.
- N Control Transformer:** 24VAC (not shown).



## EXAMPLE

- 100' x 50' building with 15' ceilings
- Single story, 4 walls exposed to outside
- RB insulated steel construction with average insulation
- Maintain 60° inside temperature

**Step 1.** Determine cubic feet of space: 100' x 50' x 15' = 75,000 cubic feet

**Step 2.** Use right side of Chart 1 to determine Btu's/cubic feet

**Step 3.** Use Btu's/cubic feet under 60° heading

**Step 4.** Use Btu's/cubic feet factor that corresponds to inside temperature and structure: 2.2

**Step 5.** Multiply cubic feet of space by Btu's/cubic feet factor: 75,000 x 2.2 = 165,000

**Step 6.** Use Chart 2 for correction factors:

a. Minimum outside temperature is -10°:  
165,000 x 1.15 = 189,750 Btu's

b. Average wall insulation is R12:  
189,750 Btu's x .95 = 180,263

A total of 180,263 Btu's of heat would be required to maintain 60° on a winter day with outside temperature of -10°

# Estimating Heat Loss to Determine Btu Needs

This short method uses a building's volume and design to estimate its heat requirements, which will help you select the proper Dayton unit heater. This is for preliminary estimates, NOT final sizing or BtuH loss computation of any heating equipment. Finite figures can only be determined through use of an ASHRAE heat loss study. Failure to use long form method or computer heat loss program may result in improperly sized heating equipment.

Considerations used for the following values: 0° outdoor design, slab construction (if basement involved, multiply final BtuH by 1.7), flat roof, window area 5% of wall area and air change of .5 per hour.

**CHART 1: HEAT REQUIREMENTS IN A BUILDING**

TYPE OF STRUCTURE		FRAME/MASONRY WALL INDOOR TEMP (F°)			RB INSULATED STEEL WALL INDOOR TEMP (F°)		
		60°	65°	70°	60°	65°	70°
		Btu/CUBIC FOOT			Btu/CUBIC FOOT		
Single Story 4 Walls Exposed		3.4	3.7	4.0	2.2	2.4	2.6
Single Story One Heated Wall		2.9	3.1	3.4	1.9	2.0	2.2
Single Floor One Heated Wall Heated Space Above		1.9	2.0	2.2	1.3	1.4	1.5
Single Floor Two Heated Walls Heated Space Above		1.4	1.5	1.6	0.9	1.0	1.1
Single Floor Two Heated Walls		2.4	2.6	2.8	1.6	1.7	1.8
Multi Story	2 Story	2.9	3.1	3.4	1.9	2.1	2.2
	3 Story	2.8	3.0	3.2	1.8	2.0	2.1
	4 Story	2.7	2.9	3.1	—	—	—
	5 Story	2.6	2.8	3.0	—	—	—

**CHART 2: CORRECTION FACTORS**

CORRECT FOR OUTDOOR DESIGN		CORRECT FOR "R" FACTOR (STEEL WALL)	
TEMPERATURE	MULTIPLIER	"R" FACTOR	MULTIPLIER
+50	.23	8	1.00
+40	.36	10	.97
+30	.53	12	.95
+20	.69	14	.93
+10	.84	16	.92
+0	1.00	19	.91
-10	1.15		
-20	1.20		
-30	1.46		

## Steps to Determine Heater Btu Rating

1. Determine cubic feet of the space to be heated, length x width x height
2. From Chart 1 determine the building type:
  - a. Frame/masonry = stick construction or cinder block
  - b. RB insulated = corrugated steel building
3. Determine maximum indoor temperature desired
4. Determine the type of structure based on number of exposed walls
5. Multiply cubic feet of space by Btu/cubic feet factor
6. Use Chart 2 to determine correction factors for minimum outside temperature and insulation

# Design Considerations

## Mounting Height

As a general rule, unit heaters must be installed 8-ft. above the floor. Less efficient air distribution results at higher levels. Occasionally unit heaters must be mounted at 12- to 16-ft. above the floor to clear obstacles. In this case, it is advisable to use centrifugal blower-type heaters. One exception to the minimum mounting height for fan-type heaters would be in school classrooms or other structures where ceiling heights are 10-ft. or less.

In airplane hangars, units must be at least 10-ft. above the upper surface of wings or engine enclosures of the highest aircrafts to be stored in the hangar. Fan-type heaters should be 8-ft. above the floor; blower-type heaters 12-ft. above the floor in shops, offices and other sections of the hangar where aircraft are not stored or housed.

In public garages, fan-type unit heaters must be at least 8-ft. above the floor; blower-type heaters at least 12-ft. above the floor.

## Air Distribution

Direct air towards areas of maximum heat loss. When multiple heaters are involved, circulation of air around the perimeter is recommended. Satisfactory results can also be obtained where multiple heaters are located toward the outside walls. Be careful to avoid obstacles and obstructions which could impede air distribution patterns.

Heat throw distances and examples of heater locations are shown at right.

## Locations to Avoid

Unit heaters should not be installed in corrosive or flammable atmospheres. Avoid locations where extreme drafts can affect burner operation. Do not locate any gas-fired heater where air for combustion contains chlorinated vapors or acid fumes.

**Note:** Unit heater sizing should be based upon heat loss calculations; unit heater output should equal or exceed heat loss.

## Clearances

Every gas appliance should be located with respect to building construction and other equipment for access to the appliance. Clearance between the vertical walls and the vertical sides of the appliance should be no less than 18." Minimum clearance between the top of the appliance and the ceiling is 6." Minimum clearance from combustibles to the bottom of the unit is 12"; however, this bottom clearance should be maintained at 21" for access to the burners. The minimum clearance from combustibles to the flue collector is 6."



### APPROXIMATE DISTANCE OF HEAT THROW IN FEET

DISTANCE FROM FLOOR TO BOTTOM OF UNIT (FT.)	SIZE UNIT - Btu INPUT (x 1000)												
	30/45	60	75	100	125	150	175	200	225	250	300	350	400
8	33	33	40	60	65	70	75	80	85	90	105	110	120
10	28	28	35	54	56	60	64	68	72	78	90	95	100
12	NR	NR	NR	44	46	49	57	61	65	68	80	84	90
15	NR	NR	NR	NR	NR	45	49	52	56	60	70	74	80
20	NR	NR	NR	NR	NR	NR	NR	46	50	54	63	66	70

NR = Not recommended.

# Manufacturers' Cross-Reference for Dayton Gas-Fired and Propeller-Type Unit Heaters



**MANUFACTURERS' CROSS-REFERENCE FOR DAYTON GAS-FIRED AND PROPELLER-TYPE UNIT HEATERS\***

Btu SIZE	STERLING		REZNOR		GRINNELL	TRANE	MODINE	HASTINGS	JANITROL	EMPIRE	LENNOX
	OLD	NEW	OLD	NEW							
30,000	CF-30	QVF-30	XL-30	—	PTO-30A	GPND003	PD-30	—	—	—	—
35,000	—	—	—	—	—	—	—	—	WH-30	—	—
45,000	CF-45	QVF-45	XL-45-1	—	PTO-45A	GPND004	—	—	—	—	—
50,000	—	—	—	F-50	—	—	PD-50	GF-50	WH-50	UH-1050	LF-50
60,000	CF-60	QVF-60	XL-60	—	PTO-60A	GPND006	—	—	—	—	—
70,000	—	—	—	—	—	—	—	—	WH-75	—	—
75,000	CF-75	QVF-75	XL-75	F-75	PTO-75A	GPND007	PD-75	GF-75	—	UH-1075	LF-75
85,000	—	—	—	—	—	—	—	—	—	—	—
100,000	CF-100	QVF-100	—	F-100	PTO-100A	GPND010	—	GF-100	WH-100	UH-1100	LF-110
105,000	—	—	XL-105	—	—	—	PD-105	—	—	—	—
125,000	CF-125	QVF-125	XL-125	—	PTO-125A	GPND012	—	GF-120	WH-125	UH-1125	—
130,000	—	—	—	F-130	—	—	PD-130	—	—	—	—
150,000	CF-150	QVF-150	XL-140	—	PTO-150A	GPND015	PD-150	GF-160	WH-150	UH-1150	LF-165
175,000	CF-175	QVF-175	XL-170	F-165	PTO-175A	GPND017	PD-170	—	—	UH-1175	—
200,000	CF-200	QVF-200	XL-200	F-200	PTO-200A	GPND020	PD-200	GF-200	WH-205	UH-1200	—
225,000	CF-225	QVF-225	XL-225	—	PTO-225A	GPND022	PD-225	—	—	UH-1225	LF-220
250,000	CF-250	QVF-250	XL-250	F-250	PTO-250A	GPND025	PD-250	GF-250	WH-250	UH-1250	—
275,000	—	—	—	—	—	—	—	—	—	—	LF-275
300,000	CF-300	QVF-300	XL-300	F-300	PTO-300A	GPND030	PD-300	GF-300	WH-300	UH-1300	—
350,000	CF-350	QVF-350	XL-350	—	PTO-350A	GPND035	PD-350	GF-350	WH-350	UH-1350	LF-330
400,000	CF-400	QVF-400	XL-400	F-400	PTO-400A	GPND040	PD-400	GF-400	WH-400	UH-1400	—

(\*) Competitive model numbers shown in this chart are base models only. Determine fuel type (natural gas or propane) and ignition type (pilot or spark) of unit heater before cross-referencing to equivalent Dayton stock number.

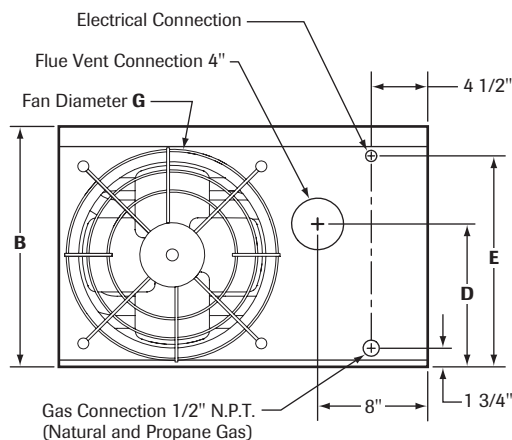
## Low-Profile Garage Heaters

Similar to the Commercial/Industrial Tubular Gas-Fired Standard Heaters, these heaters operate between 30 MBH-90 MBH and feature a low-profile design for installation in low clearance applications. Dayton four-point suspension heaters are approved for installation in residential garage, commercial and industrial applications.

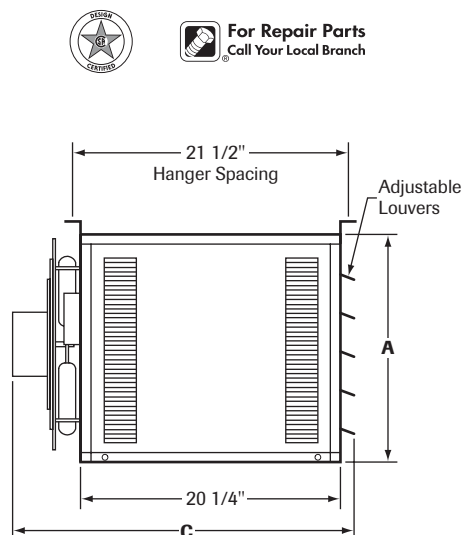
Power vented, propeller-type unit heaters include the latest tubular heat exchanger and inshot burner technology. Hot surface pilot ignition system assures positive and reliable burner ignition. Units are CSA Certified with both category I and III venting requirements, enabling the installer to utilize a single or double wall vent pipe when venting vertically or single wall pipe when venting horizontally.

For altitudes above 2000-ft., consult owner's manual prior to installation for proper adjustments.

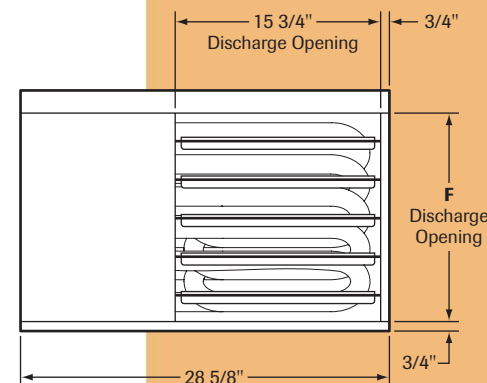
- 120/1/60 supply voltage
- 120/24V control transformer
- 120/1/60V fan motor with internal overload protection
- 20-gauge aluminized steel tubular heat exchangers
- 20-gauge jacket panels with baked enamel finish



Rear View



Side View



Front View

### LOW-PROFILE GARAGE HEATERS — DIMENSIONAL DATA (IN.)

UNIT SIZE	JACKET HEIGHT A	OVERALL HEIGHT B	OVERALL DEPTH C	CENTERLINE HEIGHT OF FLUE D	CENTERLINE ELECTRIC CONNECTION E	DISCHARGE OPENING HEIGHT F	FAN DIAMETER G	NAT. GAS STOCK NO.	LP GAS STOCK NO.
30	12	13	25 1/2	7 1/4	10 1/4	10 1/2	10	4LX42	4LX41
45	12	13	25 1/2	7 1/4	10 1/4	10 1/2	10	4LX44	4LX43
60	17 3/4	18 3/4	26 3/4	10 1/2	16	16 1/4	16	4LX46	4LX45
75	17 3/4	18 3/4	26 3/4	10 1/2	16	16 1/4	16	4LX48	4LX47
90	17 3/4	18 3/4	26 3/4	10 1/2	16	16 1/4	16	4LX50	4LX49

### LOW-PROFILE GARAGE HEATERS

BtuH INPUT	CFM	AIR TEMP. RISE (°F)	MOTOR HP	FULL LOAD AMPS @ 120 VAC	GAS INLET (IN.)	FLUE (IN.)	O.C. MTG. DIM. (IN.)	DIMENSIONS (IN.)			NAT. GAS STOCK NO.	LP GAS STOCK NO.
								H	W	D		
30,000	500	45	1/20	3.0	1/2	4	21 1/2	13	28 5/8	25 1/2	4LX42	4LX41
45,000	750	45	1/20	3.0	1/2	4	21 1/2	13	28 5/8	25 1/2	4LX44	4LX43
60,000	1000	45	1/20	3.7	1/2	4	21 1/2	18 3/4	28 5/8	26 3/4	4LX46	4LX45
75,000	1250	45	1/20	3.7	1/2	4	21 1/2	18 3/4	28 5/8	26 3/4	4LX48	4LX47
90,000	1400	45	1/20	4.8	1/2	4	21 1/2	18 3/4	28 5/8	26 3/4	4LX50	4LX49

BtuH output: 81% input. Depth shown includes power ventor motor.



In-stock orders placed by 5 p.m. local time M-F will ship same day.

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**



## Commercial/Industrial Tubular Gas-Fired Standard Heaters



**For Repair Parts**  
Call Your Local Branch



4LX56

A great alternative to the traditional clam shell designed unit. Power vented, propeller-type unit heaters include the latest tubular heat exchanger and inshot burner technology with the quality and reliability you have come to depend on. A state-of-the-art, direct-spark ignition system assures positive and reliable burner ignition and, coupled with power venting, reduces standby losses and offers improved seasonal efficiency.

The heat exchanger design provides maximum and uniform heat transfer and creates a low-pressure drop that enables heat to be distributed evenly. Curved, non-welded serpentine design reduces thermally induced stress to increase durability and lifespan. All heat exchangers are built with heavy-duty 20-gauge aluminized steel.

For ease in servicing, all components are easily accessible with ignition and fan controls located on a central control panel. A removable access door isolates the controls and an onboard LED indicator provides simple troubleshooting.

Two-point suspension with 20-gauge steel jacket and baked enamel finish ensures durability and strength. CSA and ETL Certified in accordance with both categories I and III venting requirements, single or double wall vent pipe when venting vertically or single wall pipe when venting horizontally.

For altitudes above 2000-ft., consult owner's manual prior to installation for proper adjustments.

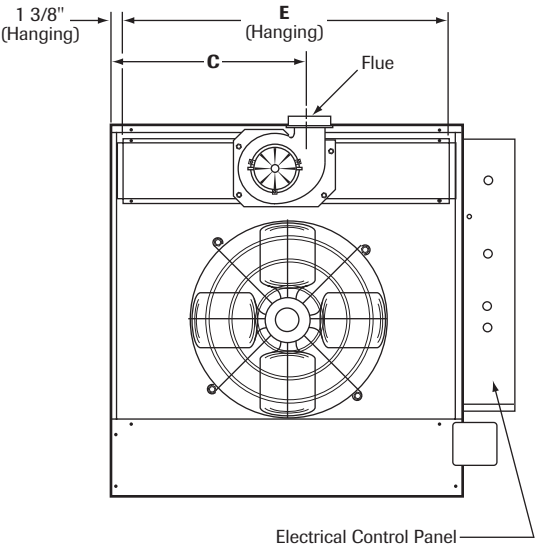
- 120/1/60 supply voltage
- 120/24 volt control transformer
- 120/1/60 volt fan motor with internal overload protection
- Individually adjustable and removable louvers
- Single stage combination gas valve

### COMMERCIAL/INDUSTRIAL TUBULAR GAS-FIRED STANDARD HEATERS

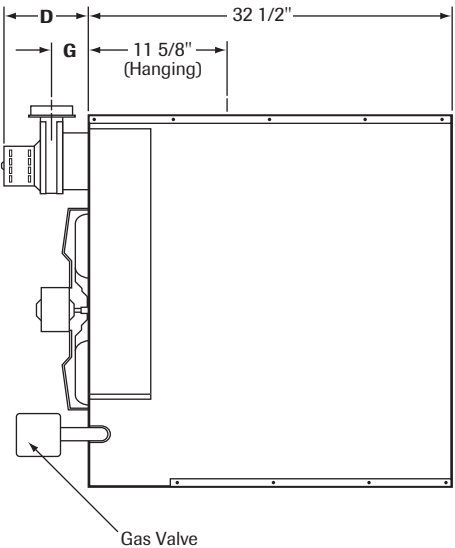
BtuH INPUT	CFM	AIR TEMP. RISE (°F)	FAN DIA. (IN.)	MOTOR HP	FULL LOAD AMPS @ 120 VAC	GAS INLET (IN.)	FLUE (IN.)	O.C. MTG DIM. (IN.)	DIMENSIONS (IN.)			NAT. GAS STOCK NO.	LP GAS STOCK NO.
									H	W	D		
100,000	1600	47	16	1/10	5.3	1/2	5	18 5/8	33 3/4	25 1/4	43 1/2	4LX52	4LX51
125,000	2200	42	16	1/4	5.8	1/2	5	18 5/8	33 3/4	25 1/4	43 1/2	4LX54	4LX53
150,000	2400	47	16	1/4	5.8	1/2	5	18 5/8	33 3/4	25 1/4	43 1/2	4LX56	4LX55
175,000	2850	46	18	1/3	8	1/2	5	30 5/8	33 3/4	37 1/4	43 1/2	4LX58	4LX57
200,000	3200	47	18	1/3	8	1/2	5	30 5/8	33 3/4	37 1/4	43 1/2	4LX60	4LX59
250,000	3450	54	18	1/3	8	1/2	5	30 5/8	33 3/4	37 1/4	43 1/2	4LX62	4LX61
300,000	5000	45	(2) 16	(2) 1/4	11.3	3/4	6	48 5/8	34	55 1/4	44 3/4	4LX64	4LX63
350,000	5600	47	(2) 18	(2) 1/3	13.5	3/4	6	48 5/8	34	55 1/4	44 3/4	4LX66	4LX65
400,000	5800	51	(2) 18	(2) 1/3	13.5	3/4	6	48 5/8	34	55 1/4	44 3/4	4LX68	4LX67

BtuH output: 81% input. Depth shown includes power venter motor.

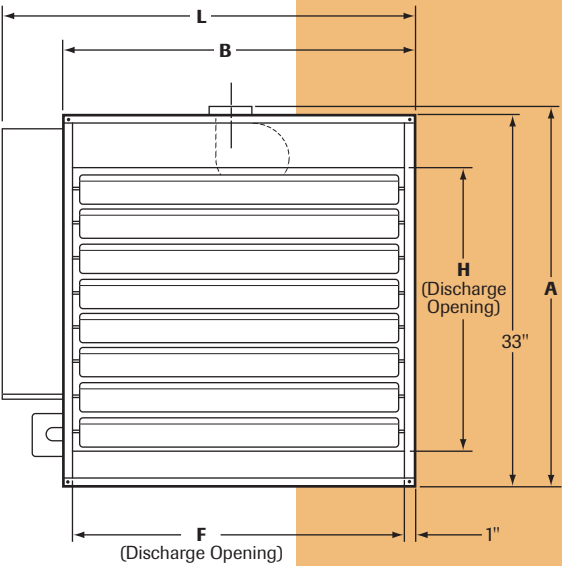
CONTINUED FROM PREVIOUS PAGE



Rear View



Side View



Front View

**COMMERCIAL/INDUSTRIAL TUBULAR GAS-FIRED STANDARD HEATERS – DIMENSIONAL DATA (IN.)**

UNIT SIZE	OVERALL HEIGHT TO TOP OF FLUE A	JACKET WIDTH OF UNIT B	WIDTH TO CENTERLINE FLUE C	DEPTH TO REAR OF HOUSING D	HANGING DISTANCE WIDTH E	DISCHARGE OPENING WIDTH F	DEPTH TO CENTERLINE FLUE G	DISCHARGE OPENING HEIGHT H	OVERALL UNIT WIDTH L	NAT. GAS STOCK NO.	LP GAS STOCK NO.
100	33 3/4	20 3/4	13 3/8	11	18 5/8	18 3/4	4 3/4	24 1/2	25 1/4	4LX52	4LX51
125	33 3/4	20 3/4	13 3/8	11	18 5/8	18 3/4	4 3/4	24 1/2	25 1/4	4LX54	4LX53
150	33 3/4	20 3/4	13 3/8	11	18 5/8	18 3/4	4 3/4	24 1/2	25 1/4	4LX56	4LX55
175	33 3/4	32 3/4	19 3/8	11	30 5/8	30 3/4	4 3/4	24 1/2	37 1/4	4LX58	4LX57
200	33 3/4	32 3/4	19 3/8	11	30 5/8	30 3/4	4 3/4	24 1/2	37 1/4	4LX60	4LX59
250	33 3/4	32 3/4	19 3/8	11	30 5/8	30 3/4	4 3/4	24 1/2	37 1/4	4LX62	4LX61
300	34	50 3/4	28 3/8	12 1/4	48 5/8	48 3/4	5 1/8	24 1/2	55 1/4	4LX64	4LX63
350	34	50 3/4	28 3/8	12 1/4	48 5/8	48 3/4	5 1/8	24 1/2	55 1/4	4LX66	4LX65
400	34	50 3/4	28 3/8	12 1/4	48 5/8	48 3/4	5 1/8	24 1/2	55 1/4	4LX68	4LX67

## Gas-Fired Spark Ignition Unit Heaters



**For Repair Parts**  
Call Your Local Branch

Heat exchanger and burner design achieve over 80% thermal efficiency. Feature the same construction and operating features as Dayton gas unit heaters on page 23 but with gas-saving automatic spark ignition system. Reduces fuel consumption compared to standing pilot operation with constant-burning pilot flame because it allows fuel use only during periods when the heating system thermostat calls for heat. When heat is called for, solid-state ignitor generates a spark at the pilot burner. The flame sensor then proves that a flame exists, the spark ceases and the main gas valve opens. When demand for heat ends, main and pilot valves are de-energized, thereby shutting off the gas supply to the main burners and pilot burner until the next heating cycle. CSA Certified.

Optional drafter kit is available. To order, call your local branch. Uses 24V thermostat, not included.

For applications in altitudes above 2000-ft., the burner orifices need to be derated. Consult a qualified contractor or call your local branch to order orifices.

Note: Units cannot be converted to an alternate fuel source.



3E370

### NATURAL GAS-FIRED

BtuH INPUT	CFM	AIR TEMP. RISE (°F)	FAN DIA. (IN.)	MOTOR HP	FULL LOAD AMPS @ 120 VAC	GAS INLET (IN.)	FLUE (IN.)	O.C. MTG DIM. (IN.)	DIMENSIONS (IN.)			NAT. GAS STOCK NO.*	SHPG WT.
									H	W	D		
30,000	700	30	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	<b>3E366</b>	<b>72.0</b>
45,000	800	42	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	<b>3E367</b>	<b>80.1</b>
60,000	1050	42	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	<b>3E406</b>	<b>95.9</b>
75,000	1100	50	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	<b>3E368</b>	<b>100.0</b>
100,000	1480	50	14	1/20	3.4	1/2	6 R,V	14 3/4	33 1/4	17 7/8	32 1/2	<b>3E369</b>	<b>181.0</b>
125,000	1650	56	16	1/10	3.6	1/2	6 R,V	17 1/2	33 1/4	20 5/8	32 1/2	<b>3E370</b>	<b>202.0</b>
150,000	2200	50	16	1/4	4.8	1/2	7 R,H	17 1/2	38 1/4	20 5/8	36	<b>3E371</b>	<b>214.0</b>
175,000	2530	51	18	1/3	5.8	1/2	7 R,H	20 1/4	38 1/4	23 3/8	36	<b>3E372</b>	<b>232.0</b>
200,000	2640	56	18	1/3	5.8	1/2	8 R,H	23	38 1/4	26 1/8	36	<b>3E373</b>	<b>261.0</b>
225,000	2700	61	18	1/3	5.8	3/4	8 R,H	25 1/5	39 1/8	28 7/8	38 1/4	<b>3E374</b>	<b>289.0</b>
250,000	3100	60	18	1/3	5.8	3/4	8 R,H	28 1/4	39 1/8	31 5/8	38 1/4	<b>3E375</b>	<b>304.0</b>
300,000	4400	50	(2)16	(2)1/4	8.8	3/4	10 O,H	33 3/4	39 1/8	37 1/8	37 3/4	<b>3E376</b>	<b>362.0</b>
350,000	5000	52	(2)18	(2)1/3	10.8	3/4	10 O,H	39 1/4	39 1/8	42 5/8	38 1/4	<b>3E377</b>	<b>405.0</b>
400,000	5300	56	(2)18	(2)1/3	10.8	3/4	12 O,H	44 3/4	39 1/8	48 1/8	38 1/4	<b>3E378</b>	<b>441.0</b>

### PROPANE GAS-FIRED

30,000	700	30	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	<b>3E379</b>	<b>82.3</b>
45,000	800	42	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	<b>3E380</b>	<b>81.0</b>
60,000	1050	42	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	<b>3E407</b>	<b>96.6</b>
75,000	1100	50	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	<b>3E381</b>	<b>99.0</b>
100,000	1480	50	14	1/20	3.4	1/2	6 R,V	14 3/4	33 1/4	17 7/8	32 1/2	<b>3E382</b>	<b>183.0</b>
125,000	1650	56	16	1/10	3.6	1/2	6 R,V	17 1/2	33 1/4	20 5/8	32 1/2	<b>3E383</b>	<b>197.0</b>
150,000	2200	50	16	1/4	4.8	1/2	7 R,H	17 1/2	38 1/4	20 5/8	36	<b>3E384</b>	<b>213.0</b>
200,000	2640	56	18	1/3	5.8	1/2	8 R,H	23	38 1/4	26 1/8	36	<b>3E385</b>	<b>258.0</b>
250,000	3100	60	18	1/3	5.8	3/4	8 R,H	28 1/4	39 1/8	31 5/8	38 1/4	<b>3E386</b>	<b>307.0</b>
300,000	4400	50	(2)16	(2)1/4	8.8	3/4	10 O,H	33 3/4	39 1/8	37 1/8	37 3/4	<b>3E387</b>	<b>354.0</b>
400,000	5300	56	(2)18	(2)1/3	10.8	3/4	12 O,H	44 3/4	39 1/8	48 1/8	38 1/4	<b>3E388</b>	<b>442.0</b>

BtuH output varies from 80% to 81% of input. (R,H) Round, Horizontal. (O,H) Oval, Horizontal. (R,V) Round, Vertical.  
(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.

## Gas-Fired Standing Pilot Unit Heaters

Heat exchanger and burner design achieve over 80% thermal efficiency. Economical, safe and clean units have a removable access door for easy cleaning and servicing. Heater comes with all internal controls and wiring installed. Uses 24V thermostat, not included, to eliminate expensive conduit installation.

Optional drafter kit available. To order, call your local branch.

For applications in altitudes above 2000-ft., the burner orifices need to be derated. Consult a qualified contractor or call your local branch to order orifices. Not for use with air ductwork. CSA Certified for natural or propane gas.

- Standing pilot
- Install 8-ft. – 20-ft. from floor

Note: Not for sale in California.



### PROPELLER-TYPE UNIT HEATERS

BtuH INPUT	CFM	AIR TEMP. RISE (°F)	FAN DIA. (IN.)	MOTOR HP	FULL LOAD AMPS @ 115 VAC	GAS INLET (IN.)	FLUE (IN.)	O.C. MTG DIM. (IN.)	DIMENSIONS (IN.)			NAT. GAS STOCK NO.	LP GAS STOCK NO.
									H	W	D		
30,000	700	30	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	3E402	3E403
45,000	800	42	12	1/30	2.1	1/2	4 R,V	8 5/8	27 1/2	14	27 5/8	3E226	3E239
60,000	1050	42	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	3E404	3E405
75,000	1100	50	14	1/30	2.1	1/2	5 R,V	14 1/8	27 1/2	17 1/2	27 5/8	3E227	3E240
100,000	1480	50	14	1/20	3.4	1/2	6 R,V	14 3/4	33 1/4	17 7/8	32 1/2	3E228	3E241
125,000	1650	56	16	1/10	3.6	1/2	6 R,V	17 1/2	33 1/4	20 5/8	32 1/2	3E229	3E242
150,000	2200	50	16	1/4	4.8	1/2	7 R,H	17 1/2	38 1/4	20 5/8	36	3E230	3E243
175,000	2530	51	18	1/3	5.8	1/2	7 R,H	20 1/4	38 1/4	23 3/8	36	3E231	—
200,000	2640	56	18	1/3	5.8	1/2	8 R,H	23	38 1/4	26 1/8	36	3E232	3E244
225,000	2700	61	18	1/3	5.8	3/4	8 R,H	25 1/2	39 1/8	28 7/8	38 1/4	3E233	—
250,000	3100	60	18	1/3	5.8	3/4	8 R,H	28 1/4	39 1/8	31 5/8	38 1/4	3E234	3E245
300,000	4400	50	2 @ 16	2 @ 1/4	8.8	3/4	10 O,H	33 3/4	39 1/8	37 1/8	37 3/4	3E235	3E246
350,000	5000	52	2 @ 18	2 @ 1/3	10.8	3/4	10 O,H	39 1/4	39 1/8	42 5/8	38 1/4	3E236	—
400,000	5300	56	2 @ 18	2 @ 1/3	10.8	3/4	12 O,H	44 3/4	39 1/8	48 1/8	38 1/4	3E237	3E247

BtuH output varies from 80% to 81% of input. (R,H) Round, Horizontal. (O,H) Oval, Horizontal. (R,V) Round, Vertical.



3E229

In-stock orders placed by 5 p.m. local time M-F will ship same day.

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**

## Separated Combustion Unit Heaters

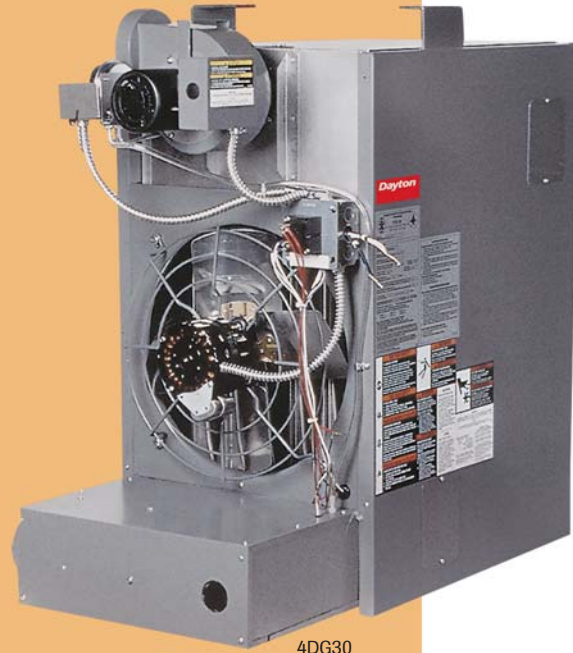
Made  
in  
U.S.A.For Repair Parts  
Call Your Local Branch

**WARNING: Not for use in areas requiring explosion-proof appliances.**

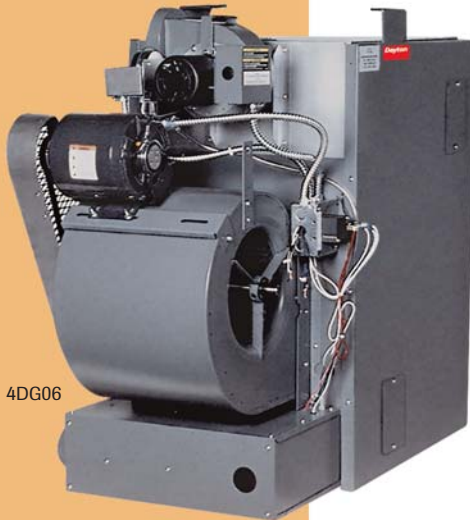
Use outside air for combustion, enabling operation in areas having slight negative pressures (near exhaust fans, etc.) with no adverse effect upon combustion or venting. Special environments can be effectively heated since these heaters isolate the burner from dust, humidity and non-hazardous chemicals. Uses a 24V thermostat, not included. Blower unit is designed to overcome up to 0.2" ESP.

For applications in altitudes above 2000-ft., the burner orifices need to be derated. Consult a qualified contractor or call your local branch to order orifices. CSA Certified.

Uses: Ideal for non-explosive contaminated areas, greenhouses, truck garages and industrial space with wood or textile dust.



4DG30



4DG06

### BLOWER

BtuH INPUT	CFM	BLOWER/FAN DIA. (IN.)	MOTOR HP	GAS INLET (IN.)	FLUE (IN.)	O.C. MTG. DIMENSIONS (IN.)	OVERALL DIMENSIONS (IN.)			NAT. GAS STOCK NO.*	LP GAS STOCK NO.*
							H	W	D		
100,000	1200	9	1/4	1/2	4	14 3/4	34 1/16	17 7/8	42 3/4	4DG07	4DG06
125,000	1575	10	1/3	1/2	4	17 1/2	34 1/16	20 5/8	44 3/8	4DG09	4DG08
150,000	1975	10	1/2	1/2	4	17 1/2	39 1/16	20 5/8	44 3/8	4DG11	4DG10
175,000	2300	12	1/2	1/2	4	20 1/4	39 1/16	23 3/8	47 3/16	4DG13	4DG12
200,000	2400	12	3/4	1/2	5	23	39 1/16	26 1/8	47 3/16	4DG15	4DG14
225,000	2600	12	3/4	3/4	5	25 3/4	39 1/16	28 7/8	50 7/8	4DG17	4DG16
250,000	2850	12	3/4	3/4	5	28 1/2	39 1/16	31 5/8	48	4DG19	4DG18
300,000	3950	(2)10	(2)3/4	3/4	6	34	39 1/16	37 1/8	50 7/8	4DG21	4DG20
350,000	4600	(2)12	(2)1	3/4	6	39 1/2	39 1/16	42 5/8	50 7/8	4DG23	4DG22
400,000	4800	(2)12	(2)1	3/4	6	45	39 1/16	48 1/8	51	4DG25	4DG24

### PROPELLER

100,000	1480	14	1/20	1/2	4	14 3/4	34 1/16	17 7/8	38 11/16	4DG27	4DG26
125,000	1650	16	1/10	1/2	4	17 1/2	34 1/16	20 5/8	38 11/16	4DG29	4DG28
150,000	2200	16	1/4	1/2	4	17 1/2	39 1/16	20 5/8	38 11/16	4DG31	4DG30
175,000	2530	18	1/3	1/2	4	20 1/4	39 1/16	23 3/8	38 11/16	4DG33	4DG32
200,000	2640	18	1/3	1/2	5	23	39 1/16	26 1/8	38 11/16	4DG35	4DG34
225,000	2700	18	1/3	3/4	5	25 3/4	39 1/16	28 7/8	38 11/16	4DG37	4DG36
250,000	3100	18	1/2	3/4	5	28 1/2	39 1/16	31 5/8	38 11/16	4DG39	4DG38
300,000	4400	(2)16	(2)1/4	3/4	6	34	39 1/16	37 1/8	38 11/16	4DG41	4DG40
350,000	5000	(2)18	(2)1/3	3/4	6	39 1/2	39 1/16	42 5/8	38 11/16	4DG43	4DG42
400,000	5300	(2)18	(2)1/3	3/4	6	45	39 1/16	48 1/8	38 11/16	4DG45	4DG44

BtuH Output: 80% Input. Depth shown includes motor.

(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.



## Blower Unit Heaters

Natural gas-fired blower heater units for suspension mounting are designed for use with standard louvers or with short duct runs. Heat exchanger and burner design achieve over 80% thermal efficiency. Units include belt-driven, permanently lubricated, centrifugal blower, proper motor and variable-pitch drive factory preset at minimum RPM; increase blower RPM depending on amount of duct-work added to heater. Removable access door provides easy servicing. All internal controls and wiring are installed.

Features long-life aluminized steel heat exchangers and aluminized steel burners with stainless steel port protectors. Four-point suspension with 9/16" hanging holes provided at top of unit; two additional stabilizing points with 9/16" dia. holes are provided on blower housing.

Recommended mounting height is at least 8-ft. from floor to bottom of unit. CSA Certified for installation with natural gas. Comply with ANSI Standard Z83.8 unit heaters.

For applications in altitudes above 2000-ft., the burner orifices need to be derated. Consult a qualified contractor, or call your local branch to order orifices.

- 115V, 60 Hz, single-phase motors
- Uses 24V thermostat, not included
- Max. external static pressure, 0.2" W.C.
- Gray enamel finish

### Dayton Standing Pilot Units

Combination 24V gas valve has a standing pilot ignition system and includes a manual shutoff valve, pilot safety valve and pressure regulator.

Note: Not for sale in California.

### Dayton Spark Ignition Units

Feature an automatic spark ignition system that reduces fuel consumption compared to standing pilot operation with constant-burning pilot flame. This system allows fuel use only during periods when the heating system thermostat calls for heat. When heat is called for, the solid state ignitor generates a spark to the pilot burner.



The flame sensor then proves that a flame exists, the spark ceases and the main gas valve opens. When demand for heat ends, the main and pilot valves are de-energized, thereby shutting off the gas supply to the main burners and pilot burner until the next heating cycle.

Note: For natural gas only; units cannot be converted for use with LP gas

#### MANUFACTURERS' CROSS-REFERENCE FOR BLOWER-TYPE HEATERS

BtuH INPUT	STERLING	OLD STERLING	MODINE	REZNOR	TRANE
100,000	QVB-100	CB-100	BD-100 SP, BD-100 SPK	B-100	GCND010
200,000	QVB-200	CB-200	BD-200-SP, BD-200 SPK	B-200	GCND020
300,000	QVB-300	CB-300	BD-300 SP, BD-300 SPK	B-300	GCND030
400,000	QVB-400	CB-400	—	B-400	GCND040

#### GAS-FIRED UNIT HEATERS

BtuH INPUT	NO. OF BLOWERS	BLOWER WHEEL DIAMETER (IN.)	FREE AIR CFM	80°F RISE CFM	65°F RISE CFM	MOTOR HP	FULL-LOAD AMPS @ 115VAC	GAS INLET (IN.)	FLUE (IN.)	STOCK NO.
100,000	1	9	1200	925	1140	1/4	5.9	1/2	6 R,V	<b>3E248</b>
200,000	1	12	2400	1850	2280	3/4	12.8	1/2	8 R,H	<b>3E249</b>
300,000	2	10	3950	2780	3400	3/4	12.8	3/4	10 O,H	<b>3E250</b>
400,000	2	12	4800	3700	4550	1	16.2	3/4	12 O,H	<b>3E251</b>
100,000	1	9	1200	925	1140	1/4	5.9	1/2	6 R,V	<b>3E389</b>
200,000	1	12	2400	1850	2280	3/4	12.8	1/2	8 R,H	<b>3E390</b>
300,000	2	10	3950	2780	3400	3/4	12.8	3/4	10 O,H	<b>3E391</b>
400,000	2	12	4800	3700	4550	1	16.2	3/4	12 O,H	<b>3E392</b>

(R,V) Round, Vertical. (R,H) Round, Horizontal. (O,H) Oval, Horizontal. BtuH output: 80% of input.

#### STANDING PILOT UNITS

BtuH INPUT	OVERALL DIMENSIONS (IN.)			DISCHARGE OPENING (IN.)		O.C. MTG. DIMENSIONS (IN.)	STOCK NO.	SHPG WT.
	H	W	D	H	W			
100,000	33 1/4	17 7/8	42 5/8	18	15 3/8	14 3/4	<b>3E248</b>	<b>253.0</b>
200,000	38 1/4	26 1/8	47	18	23 5/8	23	<b>3E249</b>	<b>351.0</b>
300,000	38 1/4	37 1/8	48 1/4	18	34 5/8	33 3/4	<b>3E250</b>	<b>459.0</b>
400,000	38 1/4	48 1/8	51	18	45 5/8	44 3/4	<b>3E251</b>	<b>582.0</b>

#### SPARK IGNITION UNITS

100,000	33 1/4	17 7/8	42 5/8	18	15 3/8	14 3/4	<b>3E389*</b>	<b>256.0</b>
200,000	38 1/4	26 1/8	47	18	23 5/8	23	<b>3E390*</b>	<b>354.0</b>
300,000	38 1/4	37 1/8	48 1/4	18	34 5/8	33 3/4	<b>3E391*</b>	<b>463.0</b>
400,000	38 1/4	48 1/8	51	18	45 5/8	44 3/4	<b>3E392*</b>	<b>585.0</b>

(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.



3E249



3E250

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**



# Dayton: Hydronic Heaters

For facilities with hydronic systems, Dayton has a number of heaters to help you get the most out of your hot water. Offering horizontal and vertical units, as well as OSHA and non-OSHA type guards, Dayton is sure to have the right hydronic heater for you.

## Quality You Can Depend On Everyday

Dayton hydronic heaters are built of heavy-duty materials and designed for long-running performance. You can count on tough, hard-working Dayton products to get the job done right, whatever the application.

Because Dayton is backed by Grainger, you can rely on great service, support and availability. And with so many ways to order, you get the right Dayton product quickly and easily.

**For pricing information, please contact your Grainger representative, call or visit your local branch or go online to [grainger.com/dayton](http://grainger.com/dayton).**

## Contents

- 27 Vertical Hydronic Unit Heaters
- 28 Horizontal Hydronic Unit Heaters

DAY IN. DAY OUT.™

**Dayton®**

## Vertical Hydronic Unit Heaters

Deliver air on a vertical plane. Parallel tube design uses 0.028" wall seamless copper tubing as a primary surface and aluminum fins as the secondary surface. The copper tubes are expanded mechanically for a tight bond between the tubes and the fins.

Construction consists of rectangular 3- or 4-sided, one-pass, multiple-circuit coils. Maximum operating conditions are 75 psi and 320°F.

Unit casing is formed by two square steel plates. Bottom plates form an orifice for air delivery. Air ports are stamped into the top plate for easy conversion of low-output units.

Motors are totally enclosed with thermal overload protection. Fan guard not included.

Uses: Heating warehouses, manufacturing facilities, garages, high bay applications and any large open areas.

### Vertical Unit Accessories

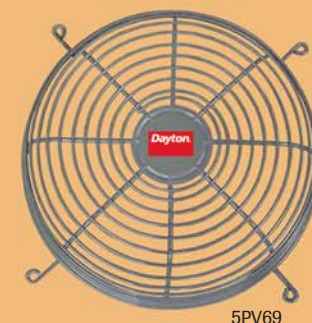
Optional OSHA-type guards are available for applications under 8-ft. in mounting height. Discharge diffusers assist in directing the discharge to the floor.

### VERTICAL UNITS

BtuH OUTPUT		CFM	MOTOR RPM	MOTOR HP	MOTOR AMPS @ 115 VAC	MOTOR AMPS @ 230/460	DIMENSIONS (IN.)			PIPE SIZE CONNECTIONS (IN.)	MAX. MTG. HEIGHT (FT.)	MOTOR PHASE	STOCK NO.	SHPG. WT.
STEAM 2 PSI	200°F WATER 20°F DROP						H	W	D					
41,300	22,700	595	1550	1/40	1.2	—	10.75	18.25	18.25	1 1/2	11	1	5PV63	31.7
65,500	39,600	989	1550	1/20	2.1	—	11.10	21.25	21.25	1 1/2	12	1	5PV66	39.0
80,600	48,400	1200	1550	1/20	2.1	—	11.60	21.25	21.25	1 1/2	15	1	5PV68	41.0
101,800	68,300	1490	1070	1/8	1.2	—	12.10	25.25	25.25	1 1/2	14	1	5PV54	61.2
124,400	83,700	1790	1100	1/6	2.3	—	12.75	25.25	25.25	1 1/2	16	1	5PV55	57.0
152,000	105,200	2220	1100	1/6	2.3	—	13.60	29.50	29.50	2	16	1	5PV56	82.1
173,000	118,600	2620	1100	1/6	2.3	—	14.10	29.50	29.50	2	18	1	5PV57	81.4
210,200	139,700	3200	1100	1/4	3.6	—	16.00	29.50	29.50	2	22	1	5PV58	86.0
249,800	180,100	4180	1100	1/4	3.6	—	15.10	37.50	37.50	2	20	1	5PV59	134.0
283,800	205,400	4430	1100	1/2	5.4	—	15.25	37.50	37.50	2	21	1	5PV60	139.0
333,400	242,900	5210	1140	3/4	—	3.2	16.75	37.50	37.50	2	24	3	5PV61	128.0
386,000	280,800	6140	1140	3/4	—	3.2	17.60	37.50	37.50	2	28	3	5PV62	195.0
496,000	368,100	8020	1160	1 1/2	—	5.0	17.25	42.00	42.00	2 1/2	29	3	5PV64	270.0
585,000	431,100	9450	1160	1 1/2	—	5.0	20.75	42.00	42.00	2 1/2	34	3	5PV65	285.0
705,000	519,400	11,000	1165	3	—	9.8	24.25	42.00	42.00	2 1/2	38	3	5PV67	350.0

### VERTICAL UNIT ACCESSORIES

DESCRIPTION	FOR USE WITH STOCK NO.	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
		H	W	D		
OSHA Fan Guard	5PV63	6.5	14.25	14.25	5PV72	4.0
OSHA Fan Guard	5PV66, 5PV68	8.0	17.0	17.0	5PV74	5.0
OSHA Fan Guard	5PV54, 5PV55	9.75	21.0	21.0	5PV69	8.0
OSHA Fan Guard	5PV56, 5PV57, 5PV58	7.0	24.75	24.75	5PV70	10.0
OSHA Fan Guard	5PV59, 5PV60, 5PV61, 5PV62	13.75	31.5	31.5	5PV71	16.0
OSHA Fan Guard	5PV64, 5PV65, 5PV67	17.0	37.25	37.25	5PV73	24.0
Discharge Diffuser	5PV63	6.5	14.25	14.25	5PV78	4.0
Discharge Diffuser	5PV66, 5PV68	8.0	17.0	17.0	5PV80	5.7
Discharge Diffuser	5PV54, 5PV55	9.75	21.0	21.0	5PV75	9.0
Discharge Diffuser	5PV56, 5PV57, 5PV58	11.5	24.75	24.75	5PV76	7.0
Discharge Diffuser	5PV59, 5PV60, 5PV61, 5PV62	13.75	31.5	31.5	5PV77	10.0
Discharge Diffuser	5PV64, 5PV65, 5PV67	17.0	37.25	37.25	5PV79	12.0



In-stock orders placed by 5 p.m. local time M-F will ship same day.

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**



5PV47

## Horizontal Hydronic Unit Heaters

Delivers air on a horizontal plane. Air flow is directed by manually adjustable louver blades, shipped standard with the unit. Unit casing is constructed of 20-gauge, die-formed steel finished with a baked enamel paint.

Motors smaller than 1/3 HP are totally enclosed; 1/3 thru 1/2 HP are open frame. Motors are 115V thermally protected sleeve-bearing type with 3 1/2 cu.-in. conduit boxes.

Units having no fan guards or having non-OSHA-type fan guards must be mounted at least eight feet above the floor. Units having OSHA-type fan

guards may be mounted at any convenient height. OSHA-type fan guards are not available on units rated 240,000 BtuH and larger.

Uses: Heating warehouses, manufacturing facilities, garages, and other large open non-explosive, non-corrosive areas.

### Header-Type Coils

Coil construction elements and headers are made of heavy wall seamless copper tubing. Element tubes are brazed into the extruded header junctions. Pipe connection saddles are made of cast



bronze and are brazed to the copper headers. Aluminum fins have drawn collars to ensure permanent bond to the expanded element tubes.

### Serpentine-Type Coils

Coil construction design consists of seamless copper tubing and aluminum fins with drawn collars to ensure permanent bond with the expanded tubes. Tubing is 3/8" copper, type "M" and is factory tested to 250 psi. Maximum operating conditions are 75 psi and 320°F.

#### HORIZONTAL HYDRONIC UNIT HEATERS WITH NON-OSHA FAN GUARD

BtuH OUTPUT		COIL TYPE	CFM	MOTOR RPM	MOTOR HP	MOTOR AMPS @ 115 VAC	PIPE SIZE CONNECTIONS (IN.)	DIMENSION (IN.)			MAX. MTG. HEIGHT (FT.)	STOCK NO.	SHPG. WT.
STEAM 2 PSI	200°F WATER 20°F DROP							H	W	D			
18,000	13,050	Header	395	1550	9W	0.53	1 1/4	15.00	14.50	9.00	8	5UT18	26.0
24,000	17,400	Header	450	1550	9W	0.53	1 1/4	18.00	14.50	9.00	8	5UT19	30.0
36,000	26,100	Header	550	1550	16W	1.10	1 1/4	18.00	14.50	9.00	9	5UT20	30.0
48,000	34,800	Header	750	1000	1/20	1.40	1 1/4	20.50	17.00	11.00	9	5UT21	41.0
60,000	43,600	Header	900	1000	1/20	1.40	1 1/4	20.50	17.00	11.00	10	5PV47	41.0
72,000	52,300	Header	1100	1000	1/20	1.40	1 1/4	21.75	18.50	11.00	10	5PV49	44.0
84,000	61,000	Header	1400	1000	1/12	2.20	1 1/4	24.25	21.00	12.00	10	5YH20	47.0
96,000	69,700	Header	1400	1000	1/12	2.20	1 1/2	24.00	19.50	14.00	11	5PV52	49.0
108,000	78,400	Header	1800	1000	1/12	2.20	1 1/2	24.00	19.50	14.00	11	5PV15	49.0
120,000	87,100	Header	1900	1000	1/12	2.20	1 1/2	25.25	21.00	14.00	12	5YH19	55.0
132,000	95,800	Header	2000	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV23	74.0
144,000	104,000	Header	2200	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV27	74.0
156,000	113,000	Header	2600	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV29	74.0
180,000	118,000	Header	2200	1140	1/3	4.50	1 1/2	29.00	24.50	14.00	13	5PV32	90.0
204,000	148,000	Header	2900	1140	1/3	4.50	1 1/2	29.00	24.50	14.00	13	5PV34	90.0
240,000	174,000	Header	3500	1140	1/3	4.50	2	30.25	28.00	19.00	14	5PV38	170.0
280,000	209,100	Header	4200	1140	1/3	7.00	2	30.25	28.00	19.00	14	5PV40	170.0
300,000	230,000	Header	5000	1140	1/3	7.00	2	37.75	33.50	20.00	15	5PV42	218.0
360,000	261,300	Header	5500	1140	1/2	9.00	2	37.75	33.50	20.00	15	5PV45	218.0
—	8,030	Serp	245	1550	9W	0.53	3/8 Copper	16.00	18.00	7.75	8	5PV17	22.0
—	18,400	Serp	500	1550	9W	0.53	3/8 Copper	16.00	18.00	7.75	8	5PV18	24.0
—	24,800	Serp	580	1550	16W	1.10	3/8 Copper	20.50	18.00	8.75	9	5PV21	25.0
—	38,900	Serp	850	1000	1/20	1.40	3/8 Copper	18.50	20.50	10.50	9	5PV25	31.0

CONTINUED ON NEXT PAGE ►



CONTINUED FROM PREVIOUS PAGE

#### HORIZONTAL HYDRONIC UNIT HEATERS WITH OSHA FAN GUARD

BtuH OUTPUT		COIL TYPE	CFM	MOTOR RPM	MOTOR HP	MOTOR AMPS @ 115 VAC	PIPE SIZE CONNECTIONS (IN.)	DIMENSION (IN.)			MAX. MTG. HEIGHT (FT.)	STOCK NO.	SHPG. WT.
STEAM 2 PSI	200°F WATER 20°F DROP							H	W	D			
18,000	13,050	Header	395	1550	9W	0.53	1 1/4	15.00	14.50	9.00	8	5PV31	30.0
36,000	26,100	Header	550	1550	16W	1.10	1 1/4	18.00	14.50	9.00	9	5PV43	34.0
48,000	34,800	Header	750	1000	1/20	1.40	1 1/4	20.25	17.00	11.00	9	5PV46	34.0
60,000	43,600	Header	900	1000	1/20	1.40	1 1/4	20.25	17.00	11.00	10	5PV48	46.0
72,000	52,300	Header	1100	1000	1/20	1.40	1 1/4	21.75	18.50	11.00	10	5PV50	46.0
84,000	61,000	Header	1400	1000	1/12	2.20	1 1/4	24.25	21.00	12.00	10	5PV51	53.0
96,000	69,700	Header	1400	1000	1/12	2.20	1 1/2	24.00	19.50	14.00	11	5PV53	55.0
108,000	78,400	Header	1800	1000	1/12	2.20	1 1/2	24.00	19.50	14.00	11	5PV16	59.0
120,000	87,100	Header	1900	1000	1/12	2.20	1 1/2	25.25	21.00	14.00	12	5PV20	65.0
132,000	95,800	Header	2000	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV24	86.0
144,000	104,000	Header	2200	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV28	86.0
156,000	113,000	Header	2600	1140	1/3	4.50	1 1/2	27.75	23.50	14.00	13	5PV30	86.0
180,000	118,000	Header	2200	1140	1/3	4.50	1 1/2	29.00	24.50	14.00	13	5PV33	105.0
204,000	148,000	Header	2900	1140	1/3	4.50	1 1/2	29.00	24.50	14.00	13	5PV35	105.0
—	8,030	Serp	245	1550	9W	0.53	3/8 Copper	16.00	18.00	7.75	8	5YH18	24.0
—	18,400	Serp	500	1550	9W	0.53	3/8 Copper	16.00	18.00	7.75	8	5PV19	29.0
—	24,800	Serp	580	1550	16W	1.10	3/8 Copper	16.00	18.00	8.75	9	5PV22	27.0
—	35,900	Serp	850	1000	1/20	1.40	3/8 Copper	18.50	20.50	10.50	9	5PV26	40.2

#### HORIZONTAL HYDRONIC UNIT HEATERS WITH NO FAN GUARD

240,000	174,000	Header	3500	1140	1/3	4.50	2	30.25	28.00	19.00	14	5PV37	130.0
280,000	209,100	Header	4200	1140	1/3	7.00	2	30.25	28.00	19.00	14	5PV39	130.0
300,000	230,000	Header	5000	1140	1/3	7.00	2	37.75	33.50	20.00	15	5PV41	166.0
360,000	261,300	Header	5500	1140	1/2	9.00	2	37.75	33.50	20.00	15	5PV44	166.0



5PV21

# Dayton: Electric Heaters

Anywhere you can get electricity, you can use a Dayton electric heater. Our wall and baseboard heaters are ideal for fixed-use situations where heat is a constant need. Or, let your employees take the heat along with one of our new portable electric Salamander heaters, available at the start of 2007. This winter, just plug in and keep working with Dayton.

## Quality You Can Depend On Everyday

Dayton electric heaters are built of heavy-duty materials and designed for long-running performance. You can count on tough, hard-working Dayton products to get the job done right, whatever the application.

Because Dayton is backed by Grainger, you can rely on great service, support and availability. And with so many ways to order, you get the right Dayton product quickly and easily.

**For pricing information, please contact your Grainger representative, call or visit your local branch or go online to [grainger.com/dayton](http://grainger.com/dayton).**

## Contents

- |   |  |   |
|---|--|---|
| 31 Portable Electric Liquid-Filled Baseboard Heater     | 34 Electric Pump House Heater                                    | 40 Electric Unit Heaters                                  |
| 31 Portable Electric Convection Baseboard Heater        | 35 Shallow-Wall Electric Built-In Heaters                        | 41 Mounting Brackets                                      |
| 31 Commercial Electric Baseboard Heaters                | 35 Electric Wall-Mount Heaters                                   | 41 Controls   |
| 32 Residential Electric Baseboard Heaters               | 36 Residential Fan-Forced Zonal Electric Wall-Mount Heaters      | 42 Diffuser Options for Vertical (Downflow) Installations |
| 32 Accessories for Dayton Residential Baseboard Heaters | 36 Tamper-Resistant Built-In Electric Wall Heaters               | 42 Electric Utility Convection Heater                     |
| 33 Hydronic Baseboard Heaters                           | 37 Fan-Forced Electric Wall-Mount Heaters                        | 42 Electric Utility Heaters                               |
| 33 Heavy-Duty Slope Top Baseboard Heaters               | 37 Architectural/Commercial Grade Built-In Electric Wall Heaters | 43 Electric Unit Heater Accessories                       |
| 34 Electric Floor Drop-In Heaters                       | 38 Radiant Cove Heaters  | 43 Counterflow Electric Wall Furnace                      |
| 34 Low-Profile Kickspace Heaters                        | 38 Radiant Ceiling Panel Heaters                                 | 44 Heavy-Duty Convection Heaters                          |
|   | 39 Downflow Ceiling-Mounted Heaters                              | 44 Electric Convection Heaters                            |

DAY IN. DAY OUT.™

**Dayton®**



## Portable Electric Liquid-Filled Baseboard Heater

Low-profile design with no-maintenance sealed system. Two heat settings with built-in automatic thermostat that uses only the required wattage to keep an area warm. Linear high-temperature cut-outs automatically shut off the heater in the event of accidental air blockage and have operating light indicators. Includes 2-prong polarized plug.



### PORTABLE ELECTRIC LIQUID-FILLED BASEBOARD HEATER

DESCRIPTION	WATTS	BtuH	AMPS	VOLTS	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
					H	L	D		
Deluxe Hydronic	750/1500	2560/5120	12.5	120	8 1/2	58	3	3UG02	19.0



3UG02

## Portable Electric Convection Baseboard Heater

Chimney fin element moves air at a greater velocity, filling the room with even heat. Linear high-temperature cut-outs automatically shut off the heater in the event of accidental air blockage and have operating light indicators. Designed with built-in thermostat and carrying handles in the end panels. Includes 2-prong polarized plug.



### PORTABLE ELECTRIC CONVECTION BASEBOARD HEATER

DESCRIPTION	WATTS	BtuH	AMPS	VOLTS	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
					H	L	D		
Convection	1000/1500	3413/5120	12.5	120	7 1/2	45	5 1/2	3UG01	11.0



3UG01

## Commercial Electric Baseboard Heaters

Rugged chimney fin elements with pressure-bonded aluminum fins increase heat transfer and air flow for even room heat. Multiple knockouts at each end, lead wires, ground wire pigtails, built-in cable clamps in each junction box and perforated nail/screw guides every inch provide for easy, drill-free installation.

Ideal for schools, commercial, industrial or institutional use. UL and C-UL Listed for installation on wall at floor level.

- Cold-rolled, prepainted steel construction with 18-gauge front cover and brackets
- Full-length thermal limit prevents overheating
- 6 3/4"H x 2 7/8"D (at top) x 1 3/4"D (at bottom)



### COMMERCIAL ELECTRIC BASEBOARD HEATERS

WATTS	BtuH	AMPS	VOLTS	LENGTH (FT)	FINISH	STOCK NO.	SHPG. WT.
1000	3413	4.8	208	4	Navajo White	3KB39	12.2
1250	4266	6	208	5	Navajo White	3KB40	15.0
1500	5120	7.2	208	6	Navajo White	3KB41	14.5
2000	6826	9.6	208	8	Navajo White	3KB42	22.0
1000/752/564	3413/2567/1925	3.6/3.1/2.7	277/240/208	4	Navajo White	3KB35	12.0
1250/940/705	4266/3208/2405	4.5/3.9/3.4	277/240/208	5	Navajo White	3KB36	14.8
1500/1128/846	5120/3850/2887	5.4/4.7/4.1	277/240/208	6	Navajo White	3KB37	17.6
2000/1504/1128	6826/5133/3850	7.2/6.3/5.4	277/240/208	8	Navajo White	3KB38	18.5



3KB35

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**



## Residential Electric Baseboard Heaters

Designed for quiet operation and easy installation in offices, lobbies, waiting rooms or residential areas. Manufactured from cold-rolled, prepainted steel with aluminum-finned steel tubular heating element. Multiple knockouts at each end, lead wires, ground wire pigtails, built-in cable clamps in each junction box and mounting guides on back of unit provide for easy installation to studs without drilling. UL and C-UL Listed for installation on wall at floor level.

- Full-length thermal limit prevents overheating
- 6 3/4"H x 2 7/8"D (at top) x 1 3/4"D (at bottom)

### RESIDENTIAL ELECTRIC BASEBOARD HEATERS

LENGTH (IN.)	BtuH	TOTAL WATTS	WATTS PER FT.	AMPS	VOLTS	FINISH	STOCK NO.	SHPG. WT.
30	1706/1283	500/376	200	2.1/1.8	240/208	Northern White	<b>3UG82</b>	<b>6.5</b>
36	2560/1925	750/564	250	3.1/2.7	240/208	Northern White	<b>3UG83</b>	<b>7.0</b>
48	3413/2567	1000/752	250	4.2/3.6	240/208	Northern White	<b>3UG84</b>	<b>9.0</b>
60	4266/3208	1250/940	250	5.2/4.5	240/208	Northern White	<b>3UG85</b>	<b>10.0</b>
72	5120/3850	1500/1128	250	6.3/5.4	240/208	Northern White	<b>3UG86</b>	<b>13.0</b>
96	6826/5133	2000/1504	250	8.3/7.2	240/208	Northern White	<b>3UG87</b>	<b>18.0</b>
96	8532/6143	2500/1800	313	10.4/8.7	240/208	Northern White	<b>4TM76</b>	<b>18.0</b>
30	1706	500	200	4.2	120	Northern White	<b>3UG76</b>	<b>6.5</b>
36	2560	750	250	6.3	120	Northern White	<b>3UG77</b>	<b>7.0</b>
48	3413	1000	250	8.3	120	Northern White	<b>3UG78</b>	<b>10.0</b>
60	4266	1250	250	10.4	120	Northern White	<b>3UG79</b>	<b>11.0</b>
72	5120	1500	250	12.5	120	Northern White	<b>3UG80</b>	<b>14.0</b>

3UG82

3UG91

3UG88

3UH07

3UG89

## Accessories for Dayton Residential Baseboard Heaters

### Inside Corner Section

Joins separate heater units at inside corner of wall.

### Unit-Mount Thermostats

Bimetal integral type thermostats come with junction box cover for easy installation and wiring. Rated 22 amps at 120V-277V. Temperature range 40°-100°F. UL and C-UL Listed (E37114).

### Wall Thermostats

Snap action, bimetal line voltage type. 22 amps at 120/240V. 18 amps at 277V. Temperature range 50°-80°F. **No. 3UH07** only is CSA Certified (LR27080).

### 120V Duplex Receptacle

Dual 120V outlets. Easily installs within junction box at either end of heater.   
Note: Not for use with commercial heaters.

### ACCESSORIES FOR DAYTON RESIDENTIAL BASEBOARD HEATERS

DESCRIPTION	FINISH	STOCK NO.	SHPG. WT.
Inside Corner Section	Northern White	<b>3UG88</b>	<b>0.6</b>
Unit-Mount Thermostat with S.P. Snap Action	Northern White	<b>3UG90</b>	<b>0.4</b>
Unit-Mount Thermostat with D.P. Snap Action	Northern White	<b>3UG91</b>	<b>0.6</b>
Wall Thermostat Double Pole, Snap Action	Northern White	<b>3UF74</b>	<b>0.7</b>
Wall Thermostat Single Pole, Snap Action	Northern White	<b>3UH07</b>	<b>0.6</b>
120V Duplex Receptacle	Northern White	<b>3UG89</b>	<b>0.9</b>



## Hydronic Baseboard Heaters



Hydronic design provides soft warmth for even heat, even after the thermostat has turned off. An electric heating element is enclosed in a sealed copper tube filled with heat transfer fluid and spans the length of the heater. High-impact plastic and heavy-gauge steel construction for durability and long life. Large wiring compartment is accessible from end or front for easy installation. Heaters mount flush to wall and flat on wood, tile or carpet flooring. Ideal for heating homes, apartments, condominiums and offices. Units are UL and C-UL Listed for installation on wall at floor level.

- Safe low surface temperature with automatic high temperature shutoff
- Navajo White finish
- 8 3/8"H x 3"D

**No. 3UG32** mounts easily to either end of hydronic baseboard heaters.

### HYDRONIC BASEBOARD HEATERS

LENGTH (IN.)	TOTAL WATTS	BtuH	VOLTS	LINE AMPS	STOCK NO.	SHPG. WT.
28	500/375	1707/1280	240/208	2.1/1.8	<b>3UG30</b>	<b>9.7</b>
34	750/562	2560/1918	240/208	3.1/2.7	<b>3UG31</b>	<b>12.0</b>
46	1000/750	3413/2560	240/208	4.2/3.1	<b>3UG27</b>	<b>15.0</b>
70	1500/1125	5120/3840	240/208	6.3/5.4	<b>3UG28</b>	<b>23.0</b>
94	2000/1500	6826/5120	240/208	8.3/6.3	<b>3UG29</b>	<b>31.0</b>
End Cap w/Double Pole Thermostat					<b>3UG32</b>	<b>0.7</b>



3UG30



3UG32

## Heavy-Duty Slope Top Baseboard Heaters



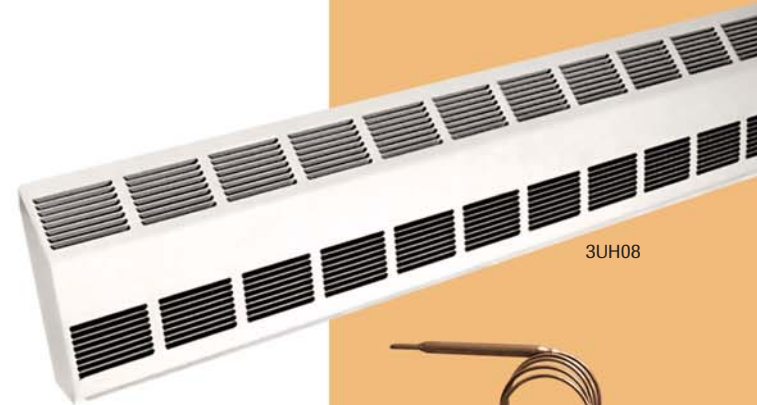
Sloped top design prevents objects from being placed or left on the unit. Incorporates an auto-reset linear, full-length sensing bulb, thermal-type limiter for safe operation and protection against overheating. Heavy 16-gauge steel construction. Mounts directly to floor and carpeting can be brought up to the front of the unit. Mounting holes on back of unit for quick, easy fastening to the wall. Ideal for heating schools, offices, motels and institutions.

- Neutral gray finish
- 10"H x 3 1/4"D

Note: Must be controlled by built-in thermostat **No. 3UH14** or remote wall-mounted thermostat, sold separately. UL and C-UL Listed for nonresidential applications only.

### HEAVY-DUTY SLOPE TOP BASEBOARD HEATERS

LENGTH (IN.)	TOTAL WATTS	BtuH	VOLTS	LINE AMPS	STOCK NO.	SHPG. WT.
28	500/375	1707/1280	240/208	2.1/1.8	<b>3UH08</b>	<b>15.7</b>
35	750/562	2560/1918	240/208	3.1/2.7	<b>3UH09</b>	<b>21.0</b>
48	1000/750	3413/2560	240/208	4.2/3.1	<b>3UH10</b>	<b>25.0</b>
72	1500/1125	5120/3840	240/208	6.3/5.4	<b>3UH11</b>	<b>35.0</b>
96	2000/1500	6826/5120	240/208	8.3/6.3	<b>3UH12</b>	<b>47.0</b>
120	2500/1875	8533/6399	240/208	10.4/9.1	<b>3UH13</b>	<b>58.0</b>
2-Pole Built-In Thermostat					<b>3UH14</b>	<b>0.8</b>
Splice Plate - Covers Gap up to 1/2"					<b>3UH17</b>	<b>1.0</b>



3UH08



3UH14

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

## Electric Floor Drop-In Heaters <sup>NEW</sup>



**For Repair Parts**  
Call Your Local Branch

Quiet, easy-to-install, fan-forced heaters produce a warm air flow pattern five feet wide, four feet high. Units mount between joists, parallel or perpendicular. Push-on-tab wire terminals permit easy connection for desired wattage. Rugged, metal tube, finned, sheathed elements. Heavy-gauge steel, two-directional grille has sandalwood baked enamel finish.

Uses: Provides a draft barrier for large window areas, sliding glass doors, entryways, hallways, open stairwells and other problem areas. Can also be used for supplementary heating in kitchens, bedrooms, recreation rooms and more. For floor mounting only. Not for bathrooms.

- Thermal protector prevents overheating due to obstruction of heater

- 14 1/16"L x 7 1/4"H x 6 5/8"D rough-in housing
- 15 3/4"L x 8 3/4"H grille

Note: Heaters may be controlled by optional built-in thermostat **No. 2YU88**.

### Unit-Mounted Thermostat

Fast-acting, single-pole thermostat kit for **Nos. 2YU86** and **2YU87**. 55°–115°F range.

#### ELECTRIC FLOOR DROP-IN HEATERS

WATTS	VOLTS	BtuH	AMPS	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
1500/750	120	5120/2560	12.5/6.2	3UG09	2YU86	14.2
1125/562	208	3840/1920	5.4/2.7	3UG10	2YU87	14.1
1500/750	240	5120/2560	6.2/3.1			
Unit-Mounted Thermostat				3UG11	2YU88	0.6

## Low-Profile Kickspace Heaters <sup>NEW</sup>



**For Repair Parts**  
Call Your Local Branch

Heater element has an automatic reset safety overheat protector; fan motor is thermally protected. Element heats up before fan cuts in, eliminating cold drafts. Can be easily installed in soffits. Must be mounted in horizontal position. Grille is black.

Uses: For heating applications where conventional heater placement is a problem. Fits in the kickspace/toespace of cabinets in kitchens, bathrooms, laundries, checkout counters, and toll booths.

- Quiet operation
- Compact, slim-line design
- 14 1/4"W x 3 5/8"H rough opening

- 3 1/2"H x 14 1/8"W x 8 7/8"D housing
- 3 5/8"H x 15 3/8"W grille

Note: Must be used with unit-mounted thermostat **No. 2YV12** or a line voltage thermostat having a rating of not less than 16.8 amps at 120V and 8.4 amps at 240V.

### Unit-Mounted Thermostat

Single-pole thermostat kit for low-profile heaters **Nos. 2YV10** and **2YV11**. 45°–85°F range. Mounts on right-hand side of heater.

#### LOW-PROFILE KICKSPACE HEATERS

WATTS	VOLTS	BtuH	AMPS	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
1500/750	120	5120/2560	12.5/6.2	3UG96	2YV10	9.8
1125/562	208	3840/1920	5.4/2.7	3UG97	2YV11	9.8
1500/750	240	5120/2560	6.2/3.1			
Unit-Mounted Thermostat				3UG98	2YV12	1.0

## Electric Pump House Heater <sup>NEW</sup>



**For Repair Parts**  
Call Your Local Branch

Use where heat is needed to prevent pipes, pumps and other water, hydraulic fluid or oil-filled equipment from freezing. Built-in thermostat controls warm air naturally connected to the desired area—no fans, motor or other moving parts. Factory wired at 208/240V; field convertible to 120V. Thermostat with 40°–70°F range accurately senses surrounding air for quick response. Heavy-gauge steel housing with baked enamel neutral gray finish. Built-in mounting brackets.

Uses: Ideal for remote locations.

- Provides automatic 24-hour protection
- Fast discharge of warm air prolongs element life

#### ELECTRIC PUMP HOUSE HEATER

WATTS	VOLTS	BtuH	AMPS	DIMENSIONS (IN.)			OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
				L	H	D			
500	240/208/120	1706	4.2/2.0	20	5	4	3UH18	2YV13	4.4

Dayton has all your heating needs covered this season.

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).

## Shallow-Wall Electric Built-In Heaters

Designed for easy recess-mounting in walls as shallow as 2 1/2". Can also be vertically surface mounted with **No. 5ZK72** mounting kit, sold separately. Must be installed a minimum of 4" from adjacent wall and floor. Feature automatic thermal overload protection with indicator light and built-in thermostat. Grille is 20-gauge louvered steel. Designed for use in bathrooms, small offices, entryways, and workshops.

- Automatic high temperature shutoff
- 9 1/4"W x 12 1/2"H x 2 1/2"D housing dimensions
- 10 1/2"W x 14 1/2"H x 1 1/4"D grille dimensions
- Ceiling-mount models require remote wall thermostat

### Surface-Mounting Kit

For use with **Nos. 5ZK64, 5ZK66, 5ZK68, and 5ZK70.**

#### WALL-MOUNT HEATERS

WATTS	BtuH	VOLTS	AMPS	FINISH	STOCK NO.	SHPG. WT.
1500	5120	120	12.5	Northern White	<b>5ZK68</b>	<b>10.1</b>
2000	6824	240/208	8.4	Northern White	<b>5ZK70</b>	<b>10.1</b>

#### WALL- OR CEILING-MOUNT HEATERS

1000	3412	120	8.3	Chrome	<b>5ZK64</b>	<b>10.3</b>
1000	3412	240/208	4.2	Chrome	<b>5ZK66</b>	<b>10.3</b>
Surface-Mounting Kit				Northern White	<b>5ZK72</b>	<b>2.1</b>



5ZK72



## Electric Wall-Mount Heaters

Designed to provide uniform heat and long service life. Rugged stamped steel front covers and steel finned metal sheath heating elements with low sheath temperatures. Built-in fan delay switch energizes fan only after elements are heated. Integral double-pole thermostat. Surface-mounting configuration designed for 2" x 4" wall stud installation. Ideal mounting height is 18"-24" from floor to bottom of back box. Must be installed a minimum of 8" from adjacent wall and floor. For use in light-duty commercial and residential applications. Surface-mounting frame **No. 3UF66** and security front cover **No. 3UG58** are sold separately (see page 37).

- Automatic high temperature shutoff with manual reset
- 18 1/4"H x 14 3/8"W x 4"D wall opening required
- 19 1/8"H x 15 3/4"W x 5 1/2"D grille dimensions

#### ELECTRIC WALL-MOUNT HEATERS

WATTS	BtuH	VOLTS 60 Hz	AMPS	FINISH	STOCK NO.	SHPG. WT.
3000/1500	10,239/5120	240	12.5/6.3	White	<b>3UG55</b>	<b>20.7</b>
1500/750	5120/2560	208	7.2/3.6			
4000/2000	13,652/6826	240	16.7/8.3		<b>3UG56</b>	<b>20.7</b>
3000/1500	10,239/5120	208	14.5/7.2	White		
4800/2400	16,382/8190	240	20.0/10.0		<b>3UG57</b>	<b>20.8</b>
3600/1800	12,287/6142	208	17.3/8.7			



3UG55

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**



5ZK52



5ZK62

## Residential Fan-Forced Zonal Electric Wall-Mount Heaters



High quality nickel-chromium heating elements provide fast response and uniform heat. Feature built-in thermostat and automatic high temperature shutoff. Factory wired for highest wattage. Designed for recessed installation in 2" x 4" wall sections. For use in homes, apartments, condominiums and offices.

- 11"H x 9 1/8"W wall opening required
- 12 1/4"H x 10 1/2"W x 3 3/4"D grille dimensions
- Northern White finish

### RESIDENTIAL FAN-FORCED ZONAL ELECTRIC WALL-MOUNT HEATERS

WATTS	BtuH	VOLTS 60 Hz	AMPS	STOCK NO.	SHPG. WT.
1500/1125	5118/3839	120	12.5/9.4	5ZK52	8.0
750/375	2560/1280		6.25/3.2		
2000/1500	6824/5118	240	8.3/6.25	5ZK54	8.0
1000/500	3412/1706		4.2/2.1		
1500/1125	5118/3839	208	7.2/5.4	5ZK58	8.4
750/375	2560/1280		4.6/1.8		
2250/1688	7678/5760	240	9.4/7.0	5ZK58	8.4
1125/563	3839/1921		4.7/2.3		
1688/1266	5760/4320	208	8.1/6.1	5ZK58	8.4
844/422	2880/1440		4.1/2.0		

### SURFACE-MOUNT HOUSING ACCESSORIES FOR RESIDENTIAL FAN-FORCED ZONAL HEATER

Surface-Mounting Frame, extends 3 1/2"	5ZK62	2.4
White Adapter Plate, 22"H x 17"W Outside Dimension, Center Cut-Out 11 1/4"H x 9 1/4"W	5ZK60	4.0



5E182

## Tamper-Resistant Built-In Electric Wall Heaters



Rugged, commercial-grade construction with tamper-resistant thermostat and heavy-duty 16-gauge steel bar grille. Integral thermostat can only be adjusted by inserting a narrow blade screwdriver through front grille. Totally enclosed motors are impedance-protected with permanently lubricated bearings for low maintenance and long service life. Built-in fan delay switch energizes fan only after elements are heated. Can be recess-mounted in walls with standard 2" x 4" construction, or vertically surface-mounted with mounting frames **No. 5E188** or **5E189**, sold separately.

Uses: Restrooms, offices, churches, schools, stores and other public buildings or commercial applications.

- Steel finned metal sheath heating element
- Automatic high temperature shutoff with manual reset
- 14 3/8"W x 18 1/2"H x 3 3/4"D housing

### Surface-Mounting Frames

For use with heaters **Nos. 5E182** through **5E187**. Designed for surface installation on brick, concrete block, wood and plaster. Frame extends 3 3/16" from wall. Screws and mounting hardware included.

### TAMPER-RESISTANT BUILT-IN ELECTRIC WALL HEATERS

WATTS	BtuH	VOLTS 60 Hz	AMPS	ENAMEL FINISH	STOCK NO.	SHPG. WT.
4000/2000	13,650/6824	208	19.2/9.6	Brown	5E182	22.5
4000/2000	13,650/6824	208	19.2/9.6	White	5E183	22.4
4000/2000	13,650/6824	240	16.7/8.3	Brown	5E184	25.0
3000/1500	10,236/5118	208	14.4/7.2	White	5E185	22.4
4000/2000	13,650/6824	240	16.7/8.3			
3000/1500	10,236/5118	208	14.4/7.2	Brown	5E186	22.9
4000/2000	13,650/6824	277	14.5/7.2			
3000/1500	10,236/5118	240	12.5/6.3	White	5E187	22.2
4000/2000	13,650/6824	277	14.5/7.2			
3000/1500	10,236/5118	240	12.5/6.3			

### SURFACE-MOUNTING FRAMES

Bronze Brown Frame	5E188	3.9
Navajo White Frame	5E189	3.8

Dayton has all your heating needs covered this season.

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).



## Fan-Forced Electric Wall-Mount Heaters



Versatile units are easy to install in a wide variety of applications. Incorporate an impedance-protected and permanently lubricated motor along with a tangential blower for dependable performance. Heavy-gauge steel-finned heating element with automatic high temperature shutoff. Factory wired for highest wattage. **Nos. 3UG16, 3UG18, and 3UG20** have built-in thermostats. **Nos. 3UG15, 3UG17, and 3UG19** require optional line voltage thermostats.

- 7"H x 14 3/4"W wall opening required
- 7 3/4"H x 16 7/8"W grille dimensions
- Northern White finish

### FAN-FORCED ELECTRIC WALL-MOUNT HEATERS

WATTS	BtuH	VOLTS 60 Hz	AMPS	STOCK NO.	SHPG. WT.
1500/1125/750/375	5120/3840/2560/1280	120	12.5/9.4/6.3/3.1	<b>3UG15</b>	<b>10.5</b>
2000/1500/1000/500	6826/5120/3413/1706	240/208	8.3/6.3/4.2/2.1	<b>3UG17</b>	<b>12.5</b>
2400/1800/1200/600	8190/6142/4095/2047	240/208	10.0/7.5/5.0/2.5	<b>3UG19</b>	<b>10.6</b>
1500/1125/750/375	5120/3840/2560/1280	120	12.5/9.4/6.3/3.1	<b>3UG16</b>	<b>10.5</b>
2000/1500/1000/500	6826/5120/3413/1706	240/208	8.3/6.3/4.2/2.1	<b>3UG18</b>	<b>10.9</b>
2400/1800/1200/600	8190/6142/4095/2047	240/208	10.0/7.5/5.0/2.5	<b>3UG20</b>	<b>10.9</b>



3UG16

## Architectural/Commercial Grade Built-In Electric Wall Heaters



Stylish yet durable design with rugged stamped steel front covers and accessible front panel thermostat. Totally enclosed motors are impedance-protected with permanently lubricated bearings for low maintenance and long life. Built-in fan delay switch energizes fan only after elements are heated. Features include steel finned metal sheath heating element, built-in thermostat and automatic high temperature shutoff. Hole plugs are provided for tamper-resistant installations. For use in light-duty commercial and residential installations.

### No. 3WU90

- 11 1/4"H x 9 1/2"W x 3 3/4"D wall opening required
- 19 1/4"H x 15 3/4"W x 1 1/2"D grille dimensions

### Nos. 3UF59 TO 3UF63

- Built-in Fan Only switch
- 18 1/4"H x 14 3/8"W x 3 3/4"D wall opening required
- 19 1/4"H x 15 3/4"W x 1 1/2"D grille dimensions

### ARCHITECTURAL/COMMERCIAL GRADE BUILT-IN ELECTRIC WALL HEATERS

WATTS	BtuH	VOLTS 60 Hz	AMPS	ENAMEL FINISH	STOCK NO.	SHPG. WT.
2000/1000	6826/3413	240	8.3/4.2	White	<b>3WU90</b>	<b>9.6</b>
1500/750	5120/2560	208	7.2/3.6	White	<b>3UF60</b>	<b>22.0</b>
4000/2000	13,652/6826	240	16.7/8.3	White	<b>3UF61</b>	<b>21.8</b>
3000/1500	10,239/5120	208	14.5/7.2	White	<b>3UF59</b>	<b>21.9</b>
4000/2000	13,652/6826	277	14.5/7.2	White	<b>3UF62</b>	<b>22.0</b>
3000/1500	10,239/5120	240	12.5/6.3	White	<b>3UF63</b>	<b>22.0</b>
3000/1500	10,239/5120	277	10.8/5.4	White	<b>3UF63</b>	<b>22.0</b>
2250/1125	7675/3840	240	9.4/4.7	White	<b>3UF63</b>	<b>22.0</b>
4800	16,382	240	20.0	White	<b>3UF63</b>	<b>22.0</b>
3600	10,287	208	17.3	White	<b>3UF63</b>	<b>22.0</b>
4800	16,382	277	17.3	White	<b>3UF63</b>	<b>22.0</b>
3600	12,287	240	15.0	White	<b>3UF63</b>	<b>22.0</b>

### ACCESSORIES

Surface-Mounting Frame used with <b>No. 3WU90</b> only	<b>4KA69</b>	<b>3.0</b>
Surface-Mounting Frame used with <b>Nos. 3UF59, 3UF60, 3UF61, 3UF62, &amp; 3UF63</b> . Frame extends 3 3/4"	<b>3UF66</b>	<b>2.0</b>
1" Deep Surface-Mounting Sleeve for semi-recessed installation	<b>3UF64</b>	<b>2.1</b>
2" Deep Surface-Mounting Sleeve for semi-recessed installation	<b>3UF65</b>	<b>2.0</b>
Security Front Cover for <b>Nos. 3UF59</b> thru <b>3UF63</b> (above) and <b>3UG55</b> thru <b>3UG57</b> , sold on page 35; 14-gauge steel, Navajo White finish	<b>3UG58</b>	<b>6.0</b>



3WU90



3UF60

**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**

## Radiant Cove Heaters

In addition to providing radiant heat, cove heaters also heat air passing behind and over the heater by convection flow, mixing air in the room to achieve balanced heating. By heating people and objects and not the surrounding air, comfort levels are not dependent upon the air temperature. Room temperature can be lowered 3°–5° while maintaining the same comfort level. Extruded aluminum front panel is coated with a lifetime vitreous enamel, which has one of the highest levels for radiating heat energy of any known substance. Mounts near the ceiling, up and out of the way. Heaters are an off-white color. Operated from remote wall thermostat, **No. 2YU89**, available separately.

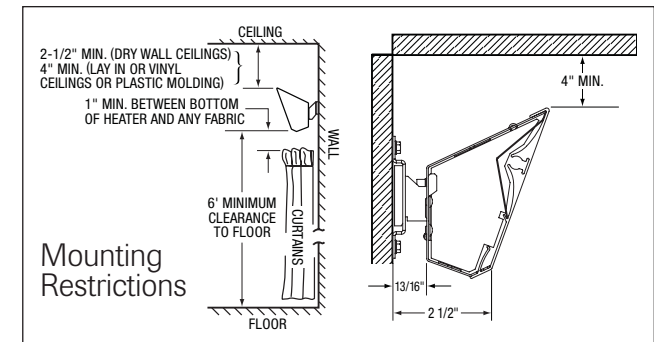


3UH03



**For Repair Parts**  
Call Your Local Branch

Uses: For supplemental heating of offices, reception rooms, game rooms, family rooms, bathrooms and similar light-duty commercial and residential applications.



### RADIANT COVE HEATERS

VOLTS	WATTS	BtuH	AMPS	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
				H	L	D		
240	600	2048	2.5	4	47	2 7/8	3UH04	8.0
240	750	2560	3.1	4	59	2 7/8	3UH05	11.0
240	900	3072	3.7	4	71	2 7/8	3UH06	13.0
240	1050	3584	4.4	4	83	2 7/8	3UH03	13.0

## Radiant Ceiling Panel Heaters NEW



Ideal for offsetting perimeter heat loss and neutralizing downdrafts over glass. Panels radiate energy to heat people and objects rather than all the air in a room. Permits full usage of floor and wall space. Unique crystalline surface, in a birch white finish, enhances radiant characteristics. Encapsulated cassette heating element assures uniform temperatures. Heaters are prewired with wires housed in a 48" length of flexible conduit and connector for J-box mounting. Shells of units are formed steel.

Only 1" in depth, units are designed to be easily installed into any 2-ft. x 2-ft. or 2-ft. x 4-ft. T-bar suspended ceiling system. Combination earthquake/T-bar grip clips. Panels must be controlled using optional remote, wall-mounted thermostats.

Uses: Perfect for spot heating in a variety of commercial, institutional and residential applications.



2YU54

### RADIANT CEILING PANEL HEATERS

PANEL SIZE (IN.)		VOLTS	WATTS	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
W	L					
24	24	120	375	3UF44	2YU50	14.9
24	24	208	375	3UF47	2YU53	14.8
24	24	240	375	3UF45	2YU51	15.0
24	24	277	375	3UF46	2YU52	15.2
24	48	120	750	3UF48	2YU54	27.0
24	48	208	750	3UF51	2YU57	28.0
24	48	240	750	3UF49	2YU55	27.0
24	48	277	750	3UF50	2YU56	27.0
Surface-Mounting Frames for 24" x 24" Panel				3UG94	2YU98	3.4
Surface-Mounting Frames for 24" x 48" Panel				3UG95	2YU99	5.4
Recess-Mounting Frames for 24" x 24" Panel				3UG92	2YU96	2.5
Recess-Mounting Frames for 24" x 48" Panel				3UG93	2YU97	4.0

**Dayton has all your heating needs covered this season.**

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).

## Downflow Ceiling-Mounted Heaters <sup>NEW</sup>

Designed for recessed or surface heating applications. The five-blade aluminum fan and rugged impedance-protected, totally enclosed, permanently lubricated motor achieve whisper-quiet operation.

Enclosure (excluding back box) is heavy-gauge steel, phosphatized and finished with a neutral gray baked enamel electrostatic painting process. Steel fins are copper brazed to low-watt density, steel sheathed, tubular heating elements. These elements are arranged in a uniform grid pattern, covering the entire intake area and resulting in uniform heating of all discharged air. Feature automatic thermal cutout, reset and built-in fan delay.

Uses: Ideal for commercial and industrial areas such as vestibules, hallways, workshops, restrooms and entryways.

- Single person, hands-free installation
- Air delivery up to 14 feet
- Adjustable directional airflow
- Maximum control system variations

### Surface Mounted

Designed to mount flat on the ceiling and extend only six inches into the room. Louvers are adjustable to change directional air throw. 20"L x 16 1/2"W x 5 3/4"D.

#### SURFACE MOUNTED

WATTS	MBtuH	VOLTS	PHASE	AMPS	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
4000/3000/2000	13.7/10.2/6.8	208	1-3	19.2/14.2/9.6	3UF34	2YU40	38.0
4000/3000/2000	13.7/10.2/6.8	277	1	14.4/10.8/7.2	3UF32	2YU38	38.0
5000/3800/2500	17.1/13.0/8.5	208	1-3	24.0/18.3/12.0	3UF38	2YU44	35.0
5000/3800/2500	17.1/13.0/8.5	240	1	20.8/15.8/10.4	3LA85	2YU35	37.0
5000/3800/2500	17.1/13.0/8.5	277	1	18.1/13.7/9.0	3UF36	2YU42	35.5

#### RECESSED MOUNTED

4000/3000/2000	13.7/10.2/6.8	208	1-3	19.2/14.2/9.6	3UF33	2YU39	48.2
4000/3000/2000	13.7/10.2/6.8	277	1	14.4/10.8/7.2	3UF31	2YU37	49.6
5000/3800/2500	17.1/13.0/8.5	208	1-3	24.0/18.3/12.0	3UF37	2YU43	45.0
5000/3800/2500	17.1/13.0/8.5	240	1	20.8/15.8/10.4	3LA86	2YU36	37.0
5000/3800/2500	17.1/13.0/8.5	277	1	18.1/13.7/9.0	3UF35	2YU41	49.1

#### ACCESSORIES

Unit Mount SPST Thermostat, 45°-90°F Range	3UF40	2YU46	0.4
Power Disconnect Switch, 3-Pole, 30A, 600V, 3-Phase, 60Hz	3UF39	2YU45	0.6
Trim Ring for Mounting on Permanent Ceiling	3UF41	2YU47	0.3
208/240V Primary Transformer, 24V Sec. and 24V Holding Coil Control Relay	3UF42	2YU48	1.3
277V Primary Transformer, 24V Sec. and 24V Holding Coil Control Relay	3UF43	2YU49	1.1
DPST, 22A @ 120/240V; 18A @ 277V Wall Mount Stat w/Positive Off, 45°-75°F Range	3UG59	2YU89	0.6



### Recessed Mounted

No protrusions outside the recess box allow the heater to recess only seven inches into ceiling space. Mounts easily into standard 2-ft. x 2-ft. ceiling grids. Can mount into permanent ceiling with trim ring. Thumb pins align and temporarily hold the enclosure cover to the heating section, freeing both hands to finish installation.



2YU40



2YU46



2YU39



2YU45



2YU47

In-stock orders placed by 5 p.m. local time M-F will ship same day.

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**

## Electric Unit Heaters NEW



Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation. Automatic reset linear thermal protector provides protection over entire length of element area to disconnect heater if normal operating temperatures are exceeded. Specially designed venturi outlet with large dynamically balanced fan blade provides maximum air flow. Heavy-duty, totally enclosed motors. Aluminum-finned, copper-clad steel sheath heating element. Heavy-gauge neutral gray die-formed steel housing.

Heaters are 60 Hz, 3-phase models are phase balanced. Some 5KW–15KW units are field convertible from single to three phase. 24V low voltage control circuit standard on all models except 3KW and 5KW 208V, 240/208V and 277V units (line voltage control on these models). All heaters have four top and four back-threaded reinforced holes for field mounting with 5/16"–18 thread rods (not included).

Optional vertical and horizontal mounting brackets available.

**Nos. 2YU61, 2YU58, 2YU60, 2YU65, 2YU62 and 2YU64**

are wired for direct line voltage control. **Nos. 2YU79, 2YU77, 2YU80 and 2YU81** are wired for single- or two-stage low voltage control. These units also contain two-speed motor for Hi-Lo fan selection.

Note: Wall-mounted or unit-mounted thermostat (not included) must be used with these heaters. See page 41.

Uses: Designed for auxiliary, supplemental, or primary heat source in factories, stores, garages, warehouses, public buildings, stock rooms, service stations, any large or exposed areas or additions.

- Adjustable outlet louvers
- 60 Hz fan forced, ceiling or wall mounted
- Meet NEC and OSHA requirements

### ELECTRIC UNIT HEATERS

KW	BtuH (1000'S)	HEATER VOLTAGE	PHASE	MAX. AMP RATING*	CFM AT OUTLET†	AIR RISE AT OUTLET °F	DIMENSIONS (IN.)			MAX. MTG. HT. HORIZ. (FT.)	HORIZ. AIR THROW (FT.)	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
							H	W	D					
3.0	10.2	208	1	14.5	350	27	16	14	8 1/2	8	12	3UF78	2YU61	30.4
3.0/2.2	10.2/7.5	240/208	1	12.5/11.0	350	27	16	14	8 1/2	8	12	3UF75	2YU58	24.0
3.0	10.2	277	1	11.0	350	27	16	14	8 1/2	8	12	3UF77	2YU60	24.9
3.0	10.2	480	3	3.6	350	27	16	14	8 1/2	8	12	3UF76	2YU59	27.9
5.0	17.0	208	1-3	24.0	350	45	16	14	8 1/2	8	12	3UF82	2YU65	24.0
5.0/3.7	17.0/12.6	240/208	1-3	21.0/18.0	350	45	16	14	8 1/2	8	12	3UF79	2YU62	25.1
5.0	17.0	277	1	18.0	350	45	16	14	8 1/2	8	12	3UF81	2YU64	24.0
5.0	17.0	480	3	6.0	350	45	16	14	8 1/2	8	12	3UF80	2YU63	24.0
7.5	25.6	208	1-3	36.0	650	37	21 3/4	19	8 1/2	9	18	3UF85	2YU68	36.7
7.5/5.6	25.6/19.1	240/208	1-3	31.3/27.0	650	37	21 3/4	19	8 1/2	9	18	3UF83	2YU66	36.9
7.5	25.6	480	3	9.0	650	37	21 3/4	19	8 1/2	9	18	3UF84	2YU67	37.2
10.0	34.1	208	1-3	48.0	650	49	21 3/4	19	8 1/2	9	18	3UF88	2YU71	37.1
10.0/7.5	34.1/25.6	240/208	1-3	42.0/36.0	650	49	21 3/4	19	8 1/2	9	18	3UF86	2YU69	37.0
10.0	34.1	480	3	12.0	650	49	21 3/4	19	8 1/2	9	18	3UF87	2YU70	37.1
15.0	51.2	208	1-3	72.0	910	52	21 3/4	19	13 3/4	11	35	3UF91	2YU74	55.5
15.0/11.2	51.2/38.2	240/208	3	36.1/31.3	910	52	21 3/4	19	13 3/4	11	35	3UF89	2YU72	52.6
15.0	51.2	480	3	18.0	910	52	21 3/4	19	13 3/4	11	35	3UF90	2YU73	51.6
20.0/15.0	68.2/51.2	240/208	3	48.0/41.2	1320	48	21 3/4	19	13 3/4	12	41	3UF92	2YU75	54.5
20.0	68.2	480	3	24.0	1320	48	21 3/4	19	13 3/4	12	41	3UF93	2YU76	54.5
30.0	102.3	208	3	84.0	2100/ 1800	45/53	30	26 5/8	13 3/4	12	50	3UF96	2YU79	95.0
30.0/22.5	102.0/77.0	240/208	3	72.3/63.0	2100/ 1800	45/53	30	26 5/8	13 3/4	12	50	3UF94	2YU77	91.0
30.0	102.3	480	3	36.0	2100/ 1800	45/53	30	26 5/8	13 3/4	12	50	3UF95	2YU78	92.0
50.0/37.5	170.0/127.0	240/208	3	120.4/104.2	3000/ 2600	53/61	30	26 5/8	18 1/8	15	60	3UF97	2YU80	140.0
50.0	170.5	480	3	60.2	3000/ 2600	53/61	30	26 5/8	18 1/8	15	60	3UF98	2YU81	126.0

(\*) Maximum amp rating reflects single-phase on combination single-/three-phase units. To obtain amperage draw on three-phase power supply, divide single-phase rating by 1.73. (†) Air delivery data on dual voltage units reflects high voltage.



2YU62



## Mounting Brackets <sup>NEW</sup>

Vertical mounting is desirable in high bay areas or where heater location does not interfere with plant operation. Horizontally mounted units should have air streams wipe the exposed walls without blowing at them. All heaters must be mounted at least 8 feet above the floor and are not intended for use in potentially explosive atmospheres.

Where square footage is large and comfort is essential, both vertical and horizontal installations may be used.

### MOUNTING BRACKETS

USE ON HEATERS WITH KW RATINGS	MOUNT BRACKET FOR HORIZONTAL THROW			MOUNT BRACKET FOR VERTICAL THROW		
	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
3.0 thru 5.0	6X966	<b>2YV16</b>	<b>6.5</b>	3UG05	<b>2YU83</b>	<b>3.6</b>
7.5 thru 10.0	6X966	<b>2YV16</b>	<b>6.5</b>	3UG06	<b>2YU84</b>	<b>4.4</b>
15.0 thru 20.0	6X967	<b>2YV17</b>	<b>7.9</b>	3UG06	<b>2YU84</b>	<b>4.4</b>
30.0	3UG64	<b>2YU91</b>	<b>12.1</b>	3UG08	<b>2YU85</b>	<b>7.2</b>
50.0	3UG65	<b>2YU92</b>	<b>39.9</b>	3UG08	<b>2YU85</b>	<b>7.2</b>



## Controls <sup>NEW</sup>

Wall thermostat must be used in conjunction with heat recovery thermostat. A heat recovery thermostat controls fan only to move stratified warm air. **No. 2YU90**

includes relay. Heaters cannot accommodate two built-in controls. If built-in heat recovery thermostat is used, the control thermostat must be a wall-mounted type.

### CONTROL SELECTION GUIDE

HEATER STOCK NO.	DISCONNECT SWITCH 1-PHASE	CONTROLS & THERMOSTATS				
		3-PHASE	WALL MOUNT	BUILT-IN	HEAT RECOVERY THERMOSTAT	SUMMER FAN SWITCH
2YU58	2YU93	—	4E636	2YU33	2YU90	2YU82
2YU60, 2YU61	2YU93	—	4E636	2YU33	2YU90	2YU82
2YU59	2YU93	2YU93	4E636	2YU33	2YU90	2YU82
2YU64	2YU93	—	4E636	2YU33	2YU90	2YU82
2YU62	2YU93	2YU93	4E636	2YU95	2YU90	2YU82
2YU63	—	2YU93	4E636	2YU33	2YU90	2YU82
2YU66, 2YU68	2YU94	2YU94	4E636	2YU33	2YU90	2YU82
2YU67	—	2YU93	4E636	2YU33	2YU90	2YU82
2YU69, 2YU71	2YU94	2YU94	4E636	2YU33	2YU90	2YU82
2YU70	—	2YU93	4E636	2YU33	2YU90	2YU82
2YU74, 2YU72	—	2YU94	4E636	2YU33	2YU90	2YU82
2YU73	—	2YU93	4E636	2YU33	2YU90	2YU82
2YU75	—	2YU94	4E636	2YU33	2YU90	2YU82
2YU76	—	2YU93	4E636	2YU33	2YU90	2YU82
2YU77, 2YU79	—	—	4E636	2YU33	2YU90	2YU82
2YU78	—	2YU94	4E636	2YU33	2YU90	2YU82
2YU80, 3UF99	—	—	4E636	2YU33	2YU90	2YU82
2YU81	—	2YU94	—	2YU33	2YU90	2YU82

### BUILT-IN CONTROLS

TYPE	CONTACT FORM	AMP	VOLTS RANGE	TEMP. (°F)	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
Power Disconnect Switch	3 Pole	25	120-600	—	<b>3UG68</b>	<b>2YU93</b>	<b>0.8</b>
Power Disconnect Switch	3 Pole	60	120-600	—	<b>3UG69</b>	<b>2YU94</b>	<b>1.9</b>
Thermostat	SPST	25	24-277	45-85	<b>2E569</b>	<b>2YU33</b>	<b>0.6</b>
Thermostat	2-Stage	25	24-277	45-85	<b>3UG72</b>	<b>2YU95</b>	<b>0.8</b>
Heat Recovery Thermostat	SPST	—	24-277	60-120	<b>3UG63</b>	<b>2YU90</b>	<b>0.9</b>
Summer Fan Switch	SPST	—	24-277	—	<b>3UG03</b>	<b>2YU82</b>	<b>0.3</b>



**In-stock orders placed by 5 p.m. local time M-F will ship same day.**

Your Grainger branch has many items in stock for immediate pickup. Call for availability.

**Dayton®**

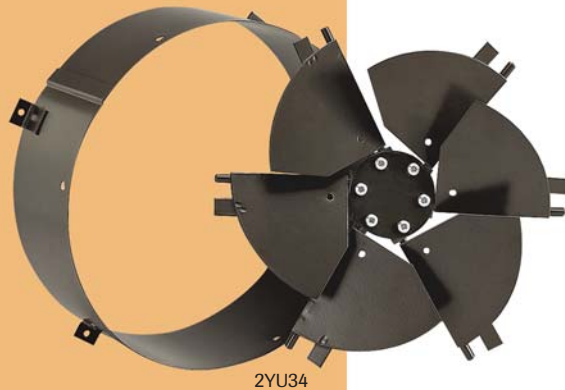
## Diffuser Options for Vertical (Downflow) Installations <sup>NEW</sup>

Standard louvers (included with heater) on Dayton electric unit heaters permit straight line air flow as in air curtain applications over doorways. A rectangular pattern is formed and altered by turning in either direction to desired coverage. If these louvers are removed, heater venturi permits general downflow air pattern distribution which can also be altered using optional radial diffuser **No. 2YU34**. This diffuser has individually adjustable fins which permit increased floor coverage at 45° open. Additional throw is achieved when fins are 90° vertical. Allows higher mounting height.

Note: Radial diffuser not recommended for models under 7.5 KW.

### DIFFUSER OPTIONS FOR VERTICAL (DOWNFLOW) INSTALLATIONS

FOR KW	MAX. MTG. HT. (FT.) 45°	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
7.5, 10.0	14	2E592	2YU34	4.7
15.0	18			



2YU34

## Electric Utility Convection Heater

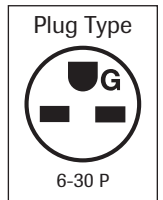
Rugged pull-through design draws ambient air across heating elements, decreasing element operating temperature and increasing unit service life. Totally enclosed, permanently lubricated motor powers the quiet, high-velocity fan. Steel sheathed tube-type heating element with aluminum fins. Built-in thermostat and High/Low heat selector with Fan Only switch. Polycarbonate grille is safe to touch, even on high heat setting. Can be ceiling or wall mounted, at any angle, using predrilled 16" O.C. mounting holes. Mounting bracket includes handles for unit portability and acts as a floor stand. Use for primary, supplemental, spot or dual heat applications for construction sites and garages.

- Manual reset thermal limit
- 22"H x 9.7"W x 18.3"D with bracket
- Meets all UL, CUL, NEC, and OSHA requirements
- Brown finish



### Optional 6-ft. Cord Set

Required when using heater **No. 4E169** for portable applications. NEMA No. 6-30P.



4E169

### ELECTRIC UTILITY CONVECTION HEATER

KW RANGE HIGH/LOW	BtuH (X1000)	VOLTS 60 Hz	AMPS	STOCK NO.	SHPG. WT.
3.7/2.5	12,628-8532	208	17.8/12.0	4E169	25.7
5.0/3.3	17,065-11,263	240	20.8/13.8		
Optional 6-ft. Cord Set		250	30	4E170	1.6

## Electric Utility Heaters

For primary or supplemental heating in factories, stores, garages, warehouses, public buildings, service stations, stockrooms, basements, toll booths, workshops and any large exposed areas or additions. High-limit thermal cutout automatically shuts off heater in the event of overheating. Heater element features rugged plate fin. Neutral gray baked enamel finish with contrasting bronze/brown adjustable louvers. Ceiling-mount bracket included.

- Horizontal and downflow in one unit
- Built-in thermostat



- Automatic fan delay control
- 12 1/2"H x 14"W x 11 1/4"D (not including bracket)

### ELECTRIC UTILITY HEATERS

KW	BtuH (X1000)	VOLTS 60 Hz	LINE AMPS	FAN CFM	TEMP RISE (°F)	STOCK NO.	SHPG. WT.
5.0/4.1/3.3/2.5	17.1/14.0/11.3/8.5	240	20.9/17.4/13.9/10.4	270	60	3UG73	28.0
3.7/3.1/2.5/1.8	12.6/10.6/8.5/6.1	208	24.0/20.0/16.0/12.0				
5.0/4.1/3.3/2.5	17.1/14.0/11.3/8.5	208	24.0/20.0/16.0/12.0	270	60	3UG74	28.4



3UG73

Dayton has all your heating needs covered this season.

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).

# Electric Unit Heater Accessories NEW

For use with Dayton **Nos. 2YU61** thru **2YU81** electric unit heaters.

## Downblow Radial Diffuser

Increases floor coverage. Adjustable fins, in vertical mode, direct downward in tight pattern; at 45° angle, give up to 25% greater floor coverage (at low mounting heights).

## SPDT Heat Recovery Thermostat

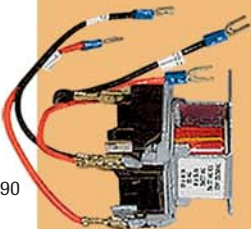
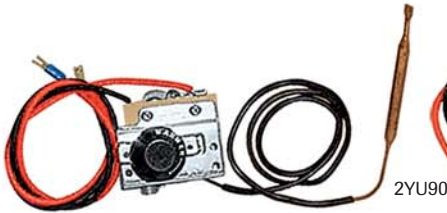
Controls fan to only move stratified warm air. Use in addition to built-in or wall-mount thermostats.

## Unit-Mount SPST Thermostat

Specially designed with an internal thermostat.

## Mounting Brackets

For horizontal-blow mounting only on wall or ceiling. Heater mount adjustable to allow control of air direction.



### ELECTRIC UNIT HEATER ACCESSORIES

DESCRIPTION	FIT KW	MAX. MTG. HT. (FT.)	FLOOR COVERAGE (FT.) DIA.	VOLTAGE (VAC)	TEMP RANGE (°F)	OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
Downblow Radial Diffuser	7.5, 10.0	14	31	—	—	2E592	<b>2YU34</b>	<b>4.7</b>
	15.0	18	40					
SPDT Heat Recovery Thermostat	—	—	—	24–277	60–120	3UG63	<b>2YU90</b>	<b>0.9</b>
Unit Mount SPST Thermostat	—	—	—	120–240	45–85	2E569	<b>2YU33</b>	<b>0.6</b>
Mounting Brackets 3.0 thru 5.0	—	—	—	—	—	6X966	<b>2YV16</b>	<b>6.5</b>
Mounting Brackets 15.0 thru 20.0	—	—	—	—	—	6X967	<b>2YV17</b>	<b>7.9</b>

# Counterflow Electric Wall Furnace NEW

Reduces operating costs because heated air circulates at floor level. Large, powerful and lint-free return air blower at top of furnace pushes air down over heating element and quietly delivers heated air. Features self-cleaning air scoop; no filter required.

Heavy-duty motor is equipped with self-aligning porous bearings. Both blower and motor have vibration-free mountings. Delivers 31,400 BtuH at 240V; 24V thermostat has low differential to prevent excessive swings in temperature. Automatic safety limit switches protect against overheating. 9.2KW input. 40 amps, 375 CFM. 80°F rise at 240V. Wiring controls are easily accessible from front of unit.

Can be installed against wall or recessed (maximum depth of recess 5 3/8"). When recessed, furnace fits between standard wall studs; requires 75 1/2" x 14 3/8" opening. Steel cabinet with soft white electrostatic powder coating.

## Optional Rear Outlet Package

Directs some of the heated air to an adjoining room. Installs in wall behind furnace. Adjustable boot fits walls up to 10" thick.

### COUNTERFLOW ELECTRIC WALL FURNACE

DESCRIPTION	DIMENSIONS (IN.)			OLD STOCK NO.	NEW STOCK NO.	SHPG. WT.
	H	W	D			
Counterflow Electric Wall Furnace	72 1/2	14 1/8	7	5ZK48	<b>2YV14</b>	<b>68.0</b>
Optional Rear Outlet Package				5ZK50	<b>2YV15</b>	<b>7.9</b>



For Repair Parts  
Call Your Local Branch

2YV14



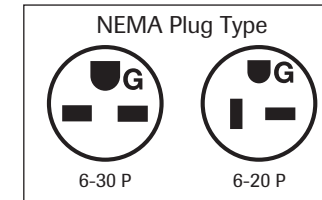




## Heavy-Duty Convection Heaters

Light enough to carry, yet provide heat for large areas. These heavy-duty units include protective steel intake and discharge grills. Permanently lubricated motor and cord reduce maintenance and labor associated with operation of the unit. Thermostat provides temperature control, while safety temperature-limit prevents overheating.

Uses: Workshops and construction sites.



### HEAVY-DUTY CONVECTION HEATERS

WATTS	VOLTS	AMPS	BtuH	NEMA PLUG TYPE	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
					H	W	D		
4000/3000	240/208	16.7/14.4	13,650/10,238	6-20P	14	10 3/4	10 3/4	<b>3VU34</b>	<b>13.3</b>
4800/3600	240/208	20.0/17.3	16,380/12,285	6-30P	14	10 3/4	10 3/4	<b>3VU35</b>	<b>13.9</b>
5600/4200	240/208	23.3/20.2	19,110/14,335	6-30P	15 7/8	11 1/2	11 1/2	<b>3VU36</b>	<b>16.6</b>

3VU34



3VU32

## Electric Convection Heaters

### Milkhouse

Provides concentrated heat where it is needed most. These small units come with high-temperature plug and cord. Audible alarm sounds to indicate an overheating situation. Tip-over switch prevents unit from running unless in upright position. Up to 1500 watts heats small spaces.

#### No. 3VU32

Two-wire polarized plug. White finish.

#### No. 3VU33

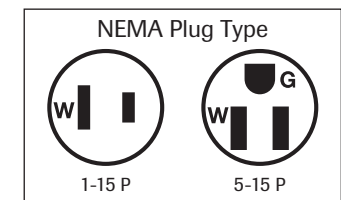
3-wire cord with grounded plug. White finish with chrome standoffs and handle.

### Dual Heat Unit

Provides both radiant and convection heat in one unit. Low setting provides radiant heat, medium setting provides fan-forced heat and high setting provides both fan-forced and radiant heat. Thermostat allows user to control air temperature. Tip-over switch and overheat sensor provide protection if unit is operated outside acceptable parameters. Chrome safety grille and white enamel finish. 3-wire cord with grounded plug.

### Fan Forced

Small, compact heater provides simple operation for either 1000 or 1500 watt use. Controls are top mounted for easy access and a light indicates when power is applied to unit. High-temperature limit shuts unit off if it becomes overheated. Top mounted handle makes it easy to carry.



### ELECTRIC CONVECTION HEATERS

DESCRIPTION	WATTS	VOLTS	AMPS	BtuH	NEMA PLUG TYPE	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
						H	W	D		
Milkhouse	1500/1300	120	12.25	5120/4436	1-15P	16	8	10	<b>3VU32</b>	<b>9.2</b>
Milkhouse	1500/1300	120	12.25	5121/4436	5-15P	16	8	10	<b>3VU33</b>	<b>10.4</b>
Dual Heat Unit	1500/900/600	120	12.25	5120/3071/2047	5-15P	15	11 1/2	11	<b>3VU31</b>	<b>9.2</b>
Fan Forced	1500/1000	120	12.50	5120/3412	5-15P	5 1/2	4 1/5	6	<b>3VU37</b>	<b>4.9</b>

**Dayton has all your heating needs covered this season.**

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).



# Dayton: Portable Oil-/Gas-Fired Heaters

Take warmth with wherever you go. Dayton portable oil-/gas-fired heaters come in both electric and self-powered units, offering the freedom to keep working in any location. And our standard safety features lets you focus on what really matters: getting the job done.

## Quality You Can Depend On Everyday

Dayton portable oil-/gas-fired heaters are built of heavy-duty materials and designed for long-running performance. You can count on tough, hard-working Dayton products to get the job done right, whatever the application.

Because Dayton is backed by Grainger, you can rely on great service, support and availability. And with so many ways to order, you get the right Dayton product quickly and easily.

**For pricing information, please contact your Grainger representative, call or visit your local branch or go online to [grainger.com/dayton](http://grainger.com/dayton).**



## Contents

- |  |  |
|--|--|
| 46 Ultra-Portable Kerosene Heaters       | 49 Tank Sizing Guide for Portable Gas-Fired Forced Air Heaters |
| 47 Portable Oil-Fired Forced Air Heaters | 50 Portable Gas-Fired Convection/Radiant Heaters               |
| 48 Portable Gas-Fired Forced Air Heaters | 51 Portable Propane Heaters                                    |

DAY IN. DAY OUT.™

**Dayton®**

# Ultra-Portable Kerosene Heaters <sup>NEW</sup>

Kerosene, direct-fired, forced-air heaters provide similar heat to a standard torpedo heater but with the added benefit of portability. Heaters feature a fuel delivery system with an air pump, quick-fire ignition system, overheat protection and flame sensor safeguards. Includes 5-ft., three-prong cord and plug.

Uses: Temporary heating of buildings under construction, alteration or repair.

- Safety guard on outlet
- Fuel gauge
- Power indicator lamp
- Electrical outlet
- Fan guard
- Power switch



1VNX6



1VNX5

## ULTRA-PORTABLE KEROSENE HEATERS

Btu/H OUTPUT	HEATING AREA (SQ. FT.)	AMPS AC	TANK (GAL.)	BUILT-IN THERMOSTAT	FUEL CONSUMPTION (GAL./HR.)	HOURS ON ONE FILLING	DIMENSIONS (IN.)			STOCK NO.	SHPG WT.
							H	W	L		
35,000	900	4 1/2	3	No	0.25	12	16	11 1/8	22 3/4	1VNX5	27.26
55,000	1,375	5	3	No	0.43	7	21	12	21 1/4	1VNX6	35.4

# Portable Oil-Fired Forced Air Heaters

Provide heat for open areas that are well ventilated, such as construction sites, farms, warehouses, factories and other outdoor areas. Easy to use, simply fill with any approved fuel and plug into a standard 120V outlet. Factory recommends 1-K kerosene, but #1 or #2 fuel oil (diesel), heating oil or jet fuel are acceptable alternatives. Units come equipped with a convenient On/Off operating switch, easy-to-read fuel gauge, built-in air pressure gauge for in-field adjustment, LED power/failure indicator light, fuse-protected circuitry and additional electric outlet. Additional features include extension cord wrap, hinged service access and contractor-grade fuel cap. Safety features include safety fuel shutoff device and automatic overheat shutoff protection.

Note: For use in well-ventilated areas only; user must supply at least 3 sq.-ft. of fresh air supply for each 100,000 BtuH of heater capacity. Heaters may not be attached to ductwork. Units must be used only in accordance with local codes and ordinances.

## 45K BtuH

Lightweight and convenient for heating small spaces, unit is great for the do-it-yourselfer. Temperature can be controlled by a plug-in thermostat, sold separately.

## 70K BtuH

Easy to transport, ideal for use in a small warehouse or barn. Built-in thermostat for temperature control.

## 125K BtuH

Ideal for large spaces, unit comes complete with heavy-duty pneumatic-wheeled chassis and dual handle bars for greater portability. Includes digital operating system with digital diagnostics. Also includes fuel drain plug, spare parts storage and temperature display.

## 175K BtuH

Designed for large open spaces such as construction sites or small open air factories. Unit features a heavy-duty pneumatic-wheeled chassis and dual handle bars for easy transportation. Includes digital operating system with digital diagnostics. Also includes fuel drain plug, spare parts storage and temperature display.

## 215K BtuH

Designed for use on cold days in large open spaces such as construction sites or factories. Unit features heavy-duty pneumatic-wheeled chassis and dual handle bars for reliable



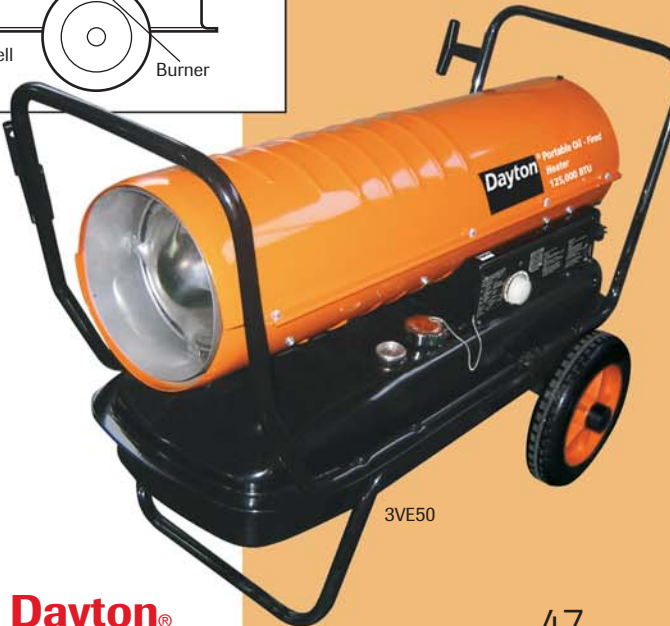
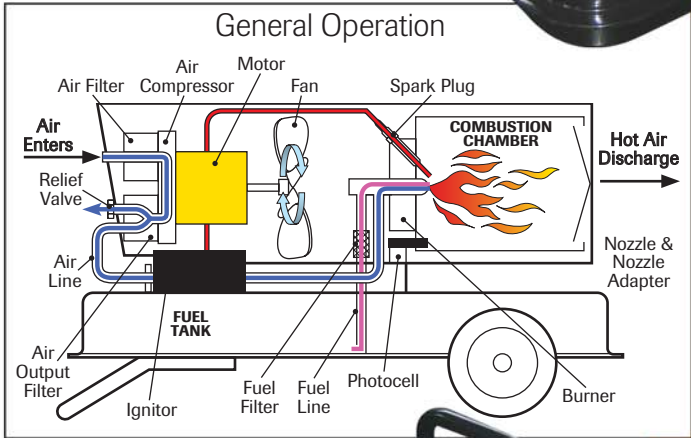
transportation. Includes digital operating system with digital diagnostics. Also includes fuel drain plug, spare parts storage and temperature display.

## 400K and 600K BtuH

Ideal for large construction sites, airplane hangars, warehouses, factories or outdoor environments in the coldest conditions. Unit has heavy-duty pneumatic-wheeled chassis with dual handle bars. Also includes fuel drain plug, spare parts storage and temperature display.



3VE48



3VE50

### PORTABLE OIL-FIRED FORCED AIR HEATERS

MBtuH OUTPUT	HEATING AREA (SQ. FT.)	MOTOR HP	TOTAL AMPS 120V, 60 Hz	FUEL TANK (GAL.)	BUILT-IN THERMOSTAT	APPROX. FUEL CONSUMPTION (GAL./HR.)	HOURS ON ONE FILLING	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
								HEIGHT	WIDTH	LENGTH		
45	1000	1/8	1.4	5	No	0.35	14	15	12	30	3VE48	36.2
70	1700	1/8	1.4	5	Yes	0.50	9	15	12	30	3VE49	39.0
125	3100	1/5	2.3	10	Yes	0.90	10	25	22	38	3VE50	69.0
175	4300	1/4	2.7	13	Yes	1.30	9.5	26	24	43	3VE51	78.0
215	5300	1/4	2.8	13	Yes	1.60	8	26	24	43	3VE52	80.0
400	9500	1/3	3.0	24	Yes	3.05	9.5	35	54	28	3VE53	193.0
600	12,000	1/2	7.1	50	Yes	4.50	11.1	48	34 1/2	78	4XA50	345.0

In-stock orders placed by 5 p.m. local time M-F will ship same day.  
Your Grainger branch has many items in stock for immediate pickup. Call for availability.







**For Repair Parts**  
Call Your Local Branch

## Portable Gas-Fired Forced Air Heaters

Provide instant heat right out of the box; simply connect it to your gas and electrical source. Mobile heaters operate on clean burning liquid propane and any standard 120V outlet (natural gas unit **No. 3VE56** is also available). Standard safety features include fuel shutoff device and automatic overheat shutoff protection. LP units include a 10-ft. hose and regulator assembly.

### 40K BtuH

Small, lightweight unit is ideal for heating smaller open air spaces or removing the chill from the air. Integral Piezo ignition, fixed heat angle and single heat setting. Runs on any standard 20-lb. propane cylinder.

3VE55

### 30K, 40K, 50K BtuH

Lightweight unit for open air workshops or do-it-yourself workshops. Features continuous electronic ignition, variable heat angles and adjustable heat settings (30K-40K-50K Btu). Runs on any standard 20-lb. propane cylinder.

### 70K, 85K, 100K BtuH

Ideal for mid-sized barns, warehouses, construction or other open air sites. Features continuous electronic ignition, variable heat angles and adjustable heat settings (70K-85K-100K Btu). Runs on a 100-lb. propane cylinder.

### 120K, 135K, 150K BtuH

Great for large warehouses, factories, agricultural or other open air applications. Includes manual start, continuous electronic ignition, variable heat angles and adjustable heat settings (120K-135K-150K Btu). Operates on 100-lb. or larger propane cylinder. Also available in natural gas (**No. 3VE56**) where this gas source is available.

### 225K, 300K, 375K BtuH

Designed for airplane hangars, construction sites and other wide open spaces. Features continuous electronic ignition, variable heat angles and adjustable heat settings (225K-300K-375K Btu). Operates on a 500-lb. propane cylinder.



3VE59

#### NUMBER AND TYPE OF CYLINDERS NEEDED

TEMP (°F) AT TANK	NUMBER OF 100 LB. CYLINDERS NEEDED		
	40K-50K Btu/HR.	100K Btu/HR.	150K Btu/HR.
32	1	2	2
20	1	2	2
10	1	3	3
0	1	3	3
-10	2	Use Larger Tank	Use Larger Tank
-20	2	Use Larger Tank	Use Larger Tank

#### PORTABLE GAS-FIRED FORCED AIR HEATERS

Btu (x1000) OUTPUT	GAS TYPE	HEATING AREA (SQ. FT.)	THERMOSTAT INCLUDED	FUEL RATE (LBS./HR.)	MOTOR HP	DIMENSIONS (IN.)			AMPS	STOCK NO.*	SHPG. WT.
						H	L	W			
40	LP	900	No	1.9	1/12	14	7 1/2	18	0.6	3VE55	17.9
50/40/30	LP	1100	No	2.3	1/12	14	7 1/2	18	0.6	3VE54	20.0
100/85/70	LP	2500	No	4.6	1/8	15	8 1/2	25	0.8	3VE57	28.0
150/135/120	LP	3500	No	7	1/8	15	8 1/2	25	0.8	3VE58	29.0
150	NG	3500	Yes	146 Cu. Ft.	1/8	11	17	27	0.8	3VE56	29.0
375/300/225	LP	8500	Yes	10.4	1/5	15	21	38	1.45	3VE59	58.0

(\*) Product covered by California Proposition 65. For California purchases or shipments, call any California branch.

**Dayton has all your heating needs covered this season.**

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).



# Tank Sizing Guide for Portable Gas-Fired Forced Air Heaters

The amount of propane gas that is available for your heater is dependent upon the amount of gas in the cylinder and the outside air temperature. Use the charts below to determine the amount of fuel that will be available; use the lowest temperature in determining the number and size of cylinders required.

**Heaters will not operate if the amount of gas available is less than the rated output of the heater.**

## SINGLE-TANK OPERATION

LBS. OF LP IN CYLINDER	MAXIMUM CONTINUOUS DRAW IN Btu PER HOUR AT VARIOUS TEMPERATURES							
	70°F	60°F	40°F	20°F	0°F	-5°F	-10°F	-15°F
100	300,000	277,000	214,000	167,000	113,000	85,000	57,000	28,000
90	277,000	247,000	200,000	152,000	104,000	78,000	52,000	26,000
80	236,000	214,000	180,000	137,000	94,000	71,000	47,000	23,500
70	214,000	199,000	160,000	122,000	83,000	62,000	42,000	21,000
60	192,000	176,000	140,000	109,000	75,000	56,000	38,000	19,000
50	167,000	154,000	125,000	94,000	64,000	48,000	32,000	16,000
40	141,000	131,000	105,000	79,000	55,000	41,000	28,000	14,000
30	118,000	107,000	85,000	66,000	45,000	34,000	23,000	11,000
20	92,000	83,000	68,000	51,000	36,000	27,000	18,000	9,000
10	66,000	60,000	49,000	38,000	28,000	21,000	14,000	7,000

## MULTI-TANK OPERATION

LBS. OF LP IN CYLINDER	MAXIMUM CONTINUOUS DRAW IN Btu PER HOUR AT VARIOUS TEMPERATURES					
	0°F/1 TANK	20°F/1 TANK	0°F/2 TANKS	20°F/2 TANKS	0°F/3 TANKS	20°F/3 TANKS
100	113,000	167,000	248,000	367,000	545,000	807,000
90	104,000	152,000	228,000	334,000	501,000	734,000
80	94,000	137,000	206,000	301,000	400,000	662,000
70	83,000	122,000	182,000	268,000	363,000	589,000
60	75,000	109,000	165,000	239,000	310,000	453,000
50	64,000	94,000	141,000	206,000	260,000	382,000
40	55,000	79,000	121,000	174,000	217,000	319,000
30	45,000	66,000	99,000	145,000	181,000	266,000
20	36,000	51,000	79,000	112,000	174,000	246,000
10	28,000	38,000	62,000	84,000	136,000	184,000





6BY73



6BY74



6BY75

## Portable Gas-Fired Convection/Radiant Heaters <sup>NEW</sup>

 For Repair Parts  
Call Your Local Branch

Lightweight, portable heaters require no electricity for operation. Durable all-steel construction with a rugged base. All units are equipped with a flame safety system and matchless Piezo ignition. CSA Certified (except **No. 6BY72**).

Uses: Ideal for construction sites, barns, garages, sheds, workshops and other well-ventilated or outdoor areas.

### Convection

Heat open areas quickly with liquid propane convection heaters. Connect with most liquid propane supplies. Feature two fully adjustable heat settings and include a 10-ft. hose and regulator. **No. 6BY71** has hexagon shape; **Nos. 6BY73** and **6BY74** are cylinder shaped.

### 125 MBtuH

Units have built-in wheel kit, removable handle and wraparound screen for added safety. Low pressure burner system. Liquid propane heater **No. 6BY75** includes 10-ft. hose and regulator.

### 250 MBtuH

Natural gas heater designed to warm large areas. Includes regulator and connects with most natural gas supplies.

### Radiant

Radiant-type heat warms objects, not air. Cylinder-shaped units have one heat setting. All units feature chrome-plated guard cage.

#### CONVECTION

MBtuH OUTPUT	GAS TYPE	HEATING AREA (SQ. FT.)	FUEL RATE (LBS. PER HR.)	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
				H	W	L		
25/15	Liquid Propane	600	1.6	12 1/2	13 1/2	11 3/16	<b>6BY71</b>	<b>10.0</b>
80/50	Liquid Propane	1900	3.7	20 5/8	19	14 11/16	<b>6BY73</b>	<b>14.0</b>
200/75	Liquid Propane	4700	9.3	26 1/2	18 1/2	14 11/16	<b>6BY74</b>	<b>17.0</b>

#### RADIANT

125	Liquid Propane	2900	5.4	43	15 3/4	19 1/2	<b>6BY75</b>	<b>44.7</b>
250	Natural Gas	4760	—	46 1/2	15 1/2	15 1/2	<b>6BY72</b>	<b>18.0</b>

Dayton has all your heating needs covered this season.

For a complete selection of Dayton products, see the Grainger catalog or visit [grainger.com/dayton](http://grainger.com/dayton).

# Portable Propane Heaters

## Tank Top

Provide spot heating up to 48 hours on one 20-lb. propane cylinder. Lightweight units accept standard P.O.L. tank connection. Feature a high-efficiency heat reflector, variable heat control valve and rear protective cage. Safety shutoff valve stops gas flow if flame is extinguished. Durable, corrosion-resistant steel construction.

Uses: Construction sites, workshops, garages, barns, car repair, patios and camping.

## Single Head

Piezo igniter offers single-handed push-button ignition.

## Double Head

Dual swivel head with Piezo ignition.

## Portable

Lightweight unit with comfortable carrying handle provides spot heating up to 5 hours on single 1-lb. propane cylinder. Accepts 16.4-oz. (Coleman style) cylinder. Features swivel valve design for easy tank installation. Can be used freestanding or temporarily wall-mounted. Piezo igniter for single-handed ignition. Vent-free gas heater has automatic safety tip-over and low oxygen shutoff sensors. Rugged steel and durable ABS plastic construction with two front, nonskid rubber feet as well as ceramic plate burners.

Uses: Residential and light construction, indoors or out.

## Rolling Cabinet

Features 100% safety tip-over shutoff system, Piezo electric spark ignition and adjustable input ratings. Other features include rolling casters and ceramic plate burners. Operates on 20-lb. cylinder. Wind- and rain-resistant unit comes fully assembled.

Uses: Light construction spot heating.



4XA49



3VE42



4XA48

### PORTABLE PROPANE HEATERS

DESCRIPTION	MBtuH OUTPUT	HEATING AREA (SQ. FT.)	FUEL RATE (LB./HR.)	COMBUSTION CLEARANCE CEILING (IN.)	COMBUSTION CLEARANCE REAR (IN.)	COMBUSTION CLEARANCE SIDE (IN.)	DIMENSIONS (IN.)			STOCK NO.	SHPG. WT.
							H	W	L		
Tank Top, Single Head	15	400	1.4	60	36	36	9	9	11 1/4	3VE41	3.0
Tank Top, Double Head	30	800	0.7	60	36	36	18 1/8	6	13	3VE42	7.0
Portable	8	250	0.2	30	—	6	15	15	7	4XA49	9.0
Rolling Cabinet	18/12/6	600	0.2	24	72	12	24	14	11 3/4	4XA48	38.0

In-stock orders placed by 5 p.m. local time M-F will ship same day.  
Your Grainger branch has many items in stock for immediate pickup. Call for availability.

## Heat Up Productivity

Don't let the cold weather catch you by surprise—use Dayton and keep working all season long. There are many ways to order Dayton products: call, fax, stop by your local Grainger® branch or go online to [grainger.com/dayton](http://grainger.com/dayton).

**Exclusively from Grainger.**