

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1311	Issue Date:	CBL: 148 A003001
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Location of Construction: 165 READ ST	Owner Name: URS REAL ESTATE LP	Owner Address: 31 STATE ST 9TH FLOOR	Phone:
Business Name:	Contractor Name: Dead River Company	Contractor Address: PO Box 467 Scarborough	Phone 2078839515
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: I-M

Past Use: Commercial - Americold/ Pack Edge	Proposed Use: Commercial - Americold/ Pack Edge - install (4) 120 Gallon propane tanks and (2) Modine PDP	Permit Fee: \$80.00	Cost of Work: \$5,395.00	CEO District: 4
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied * See Conditions	INSPECTION: Use Group: F/S Type: HVAC LPTANKS JMC-2003	

**Proposed Project Description:**  
Americold/ Pack Edge - install (4) 120 Gallon propane tanks and (2) Modine PDP

Signature: *(Signature)*  
Signature: *JMB 12/1/09*  
**PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)**  
Action:  Approved  Approved w/Conditions  Denied  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Permit Taken By: Ldobson	Date Applied For: 11/16/2009	<b>Zoning Approval</b>		
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p><b>Special Zone or Reviews</b></p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>11/18/09</i>	<p><b>Zoning Appeal</b></p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<p><b>Historic Preservation</b></p> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>9</i>
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**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

**PERMIT ISSUED**

SIGNATURE OF APPLICANT	ADDRESS	DATE DEC 1	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE City of Portland	PHONE

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

<b>Permit No:</b> 09-1311	<b>Date Applied For:</b> 11/16/2009	<b>CBL:</b> 148 A003001
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<b>Location of Construction:</b> 165 READ ST	<b>Owner Name:</b> URS REAL ESTATE LP	<b>Owner Address:</b> 31 STATE ST 9TH FLOOR	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Dead River Company	<b>Contractor Address:</b> PO Box 467 Scarborough	<b>Phone:</b> (207) 883-9515
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Commercial - Americold/ Pack Edge - install (4) 120 Gallon propane tanks and (2) Modine PDP	<b>Proposed Project Description:</b> Americold/ Pack Edge - install (4) 120 Gallon propane tanks and (2) Modine PDP
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Marge Schmuckal	<b>Approval Date:</b> 11/18/2009	<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Jeanine Bourke	<b>Approval Date:</b> 12/01/2009	<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) Equipment must be installed in compliance per the manufacturer's specifications 2) Tanks shall be installed per NFPA 58 3) The appliance and venting shall be installed in accordance with the UL listing, IMC 2003 and NFPA 211. 4) Permit approved based on the plans submitted and reviewed w/owner/contractor, with additional information as agreed on and as noted on plans.					
<b>Dept:</b> Fire	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Capt Keith Gautreau	<b>Approval Date:</b> 11/24/2009	<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) Provide physical protection to the tanks if needed. 2) Install shall comply with all manufacture's specifications. 3) Install shall comply with NFPA 58 A compliance letter is required.					

**Comments:**  
12/1/2009-jmb: Left vcmmsg for mngr. At Deadriver for questions on venting and protection of tanks that border a parking lot. Dick Conley called to verify there will be 10' of jersey barriers for protection of the tanks and the vent terminates at the wall.

PERMIT ISSUED

DEC 1 2009

City of Portland

**BUILDING PERMIT INSPECTION PROCEDURES**

**Please call 874-8703 or 874-8693 (ONLY )**

**to schedule your inspections as agreed upon**

**Permits expire in 6 months, if the project is not started or ceases for 6 months.**

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

**By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.**

**A Pre-construction Meeting will take place upon receipt of your building permit.**

  X   **Final inspection required at completion of work.**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

**If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

**CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.**

\_\_\_\_\_  
Signature of Applicant/Designee

\_\_\_\_\_  
Signature of Inspections Official

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

12/1/09

PERMIT ISSUED

DEC 1 2009

City of Portland



FILL IN AND SIGN WITH INK

PERMIT ISSUED

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

DEC 1

City of Portland

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 148 A 3 Use of Building \_\_\_\_\_ Date 11-17-09  
 Name and address of owner of appliance AMERICOLD / PACK EDGE  
165 READ STREET  
 Installer's name and address DEAD RIVER CO  
73 Pleasant Hill Rd - SCARBOROUGH, ME 04074 Telephone 883-9515

### Location of appliance:

- Basement  Floor  
 Attic  Roof

### Type of Fuel:

- Gas  Oil  Solid

### Appliance Name:

Modine PDP

U.L. Approved  Yes  No

Will appliance be installed in accordance with the manufacture's installation instructions?  Yes  No

IF NO Explain: \_\_\_\_\_

### The Type of License of Installer:

- Master Plumber # \_\_\_\_\_  
 Solid Fuel # \_\_\_\_\_  
 Oil # \_\_\_\_\_  
 Gas # PVI 3776  
 Other \_\_\_\_\_

### Type of Chimney:

- Masonry Lined  
 Factory built \_\_\_\_\_  
 Metal  
 Factory Built U.L. Listing # \_\_\_\_\_  
 Direct Vent  
 Type Buena

RECEIVED

### Type of Fuel Tank

NOV 17 2009

- Oil  
 Gas Dept. of Building Inspections  
 City of Portland Maine

Size of Tank ONE HUNDRED TWENTY

Number of Tanks FOUR

Distance from Tank to Center of Flame + 40 feet.

Cost of Work: \$ 5395.00

Permit Fee: \$ \_\_\_\_\_

### Approved

### Approved with Conditions

Fire: \_\_\_\_\_

See attached letter or requirement

Ele.: \_\_\_\_\_

Bldg.: JMB

Inspector's Signature

Date Approved

Signature of Installer DEAD RIVER Co. BY

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy



Scarborough Office  
 73 Pleasant Hill Road  
 Scarborough Me 04074  
 Phone: (207) 883-9515  
 Fax: (207) 883-5921

# Fax

**To: Lannie Dobson**

**From: Dick Connolly**

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Fax: 874-8716

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Pages: 4 (including coversheet)

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Date: 11/18/09

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Re: 165 Read Street

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CC:

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Here is the information that you requested

Thanks!

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# DURALOCK™

**An Innovative System for a Lock-Tight Connection for Type B Gas Vent. DuraLock.  
See, Hear, and Feel the Difference....**



An innovative system for a lock-tight connection that you see, feel, and hear... assuring a snug fit every time.

See... the alignment indicators meet when connection locks into place.

Feel... the ends grasp together as sections twist into their locked position.

Hear... the snap as the connection firmly locks into place.

With DuraLock, there is no need to find sharp tabs to bend into slots. DuraLock is a sleek design without perforations to minimize heat loss.

DuraLock is a welcome solution to installations. No sheet metal screws are needed. No tools are required. Installation time minimized.

Even with a firm lock, the DuraLock system still allows the installer to unlock the pipe to change lengths, if needed. No tools are required to bend or to pry the lock apart.

DuraLock is compatible with existing inventories of Simpson DuraVent Type B Gas Vent. Patent pending.

# DURACONNECT®

**SIMPSON**

**Dura-Vent**

## DuraConnect II

### Materials and Construction

.010" Double-wall aluminum flex inner wall (two-ply .005"), .018" galvalume outer wall, with twist-lock connections.

Clearances 1" to combustibles.

Diameters 3", 4", 5", and 6".

### Listings

c-UL-us Listed to UL 411 and ULC/ORD-C441 (MH14089).



## DuraConnect I

### Materials and Construction

.010" Single-wall aluminum flex (two-ply .005"), with twist-lock connections.

.018" Single-wall galvalume components with twist-lock connections.

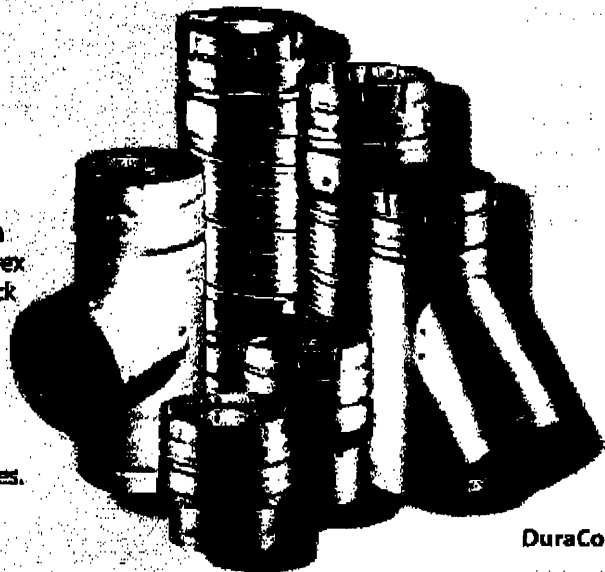
Clearances 1" to combustibles.

Diameters 3", 4", 5", and 6".

Patented

### Listings

c-UL-us 411 and ULC/ORD-C441 (MH14089).



## c-UL-us 441 System

### DuraConnect II

The DuraConnect II system is designed for use with a variety of venting applications. It features a double-wall aluminum flex inner wall and a galvalume outer wall, providing superior durability and performance. The system is listed to UL 411 and ULC/ORD-C441 (MH14089).

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### DuraConnect I

The DuraConnect I system is designed for use with a variety of venting applications. It features a single-wall aluminum flex inner wall and a galvalume outer wall, providing superior durability and performance. The system is listed to UL 411 and ULC/ORD-C441 (MH14089).

The DuraConnect I system is designed for use with a variety of venting applications. It features a single-wall aluminum flex inner wall and a galvalume outer wall, providing superior durability and performance. The system is listed to UL 411 and ULC/ORD-C441 (MH14089).

# SI (METRIC) CONVERSION FACTORS / UNIT LOCATION

## SI (METRIC) CONVERSION FACTORS

Table 3.1

To Convert	Multiply By	To Obtain	To Convert	Multiply By	To Obtain
°W.C.	0.24	KPa	CFH	1.699	m³/min
psig	6.893	kPa	Btu/h	0.0374	mJ/m²
°F	(°F-32) x 0.555	°C	pound	0.453	kg
inches	25.4	mm	Btu/hr	0.000283	kW/hr
feet	0.305	meters	gallons	3.785	liters
CFM	0.028	m³/min	psig	27.7	°W.C.

## UNIT LOCATION

**⚠ DANGER**

Appliances must not be installed where they may be exposed to a potentially explosive or flammable atmosphere.

**IMPORTANT**

To prevent premature heat exchanger failure, do not locate ANY gas-fired appliances in areas where corrosive vapors (i.e. chlorinated, halogenated or acid) are present in the atmosphere.

### Location Recommendations

- When locating the furnace, consider general space and heating requirements, availability of gas and electrical supply, and proximity to vent locations.
- Avoid installing units in extremely drafty locations. Drafts can cause burner flames to impinge on heat exchangers which shortens life. Maintain separation between units so discharge from one unit will not be directed into the inlet of another.
- Be sure the structural support at the unit location site is adequate to support the weight of the unit. For proper operation the unit must be installed in a level horizontal position.
- Do not install units in locations where the flue products can be drawn into the adjacent building openings such as windows, fresh air intakes, etc.
- Be sure that the minimum clearances to combustible materials and recommended service clearances are maintained. Units are designed for installation on non-combustible surfaces with the minimum clearances shown in Figure 3.1 and Tables 3.2 and 3.3.
- Units exposed to inlet air temperatures of 40°F or less, may experience condensation, therefore, provisions should be made for disposal of condensate.
- When locating units, it is important to consider that the exhaust vent piping must be connected to the outside atmosphere.
- In garages or other sections of aircraft hangars such as offices and shops that communicate with areas used for servicing or storage, keep the bottom of the unit at least 7 feet above the floor unless the unit is properly guarded to provide user protection from moving parts. In parking garages, the unit must be installed in accordance with the standard for parking structures ANSI/NFPA 88A, and in repair garages the standard for repair garages NFPA #88B. In Canada, installation of heaters in airplane hangars must be in accordance with the requirements of the enforcing authority, and in public garages in accordance with the current CAN/CGA-B149 codes.
- Do not install units in locations where gas ignition system is exposed to water spray, rain, or dripping water.
- Do not install units below 7 feet, measured from the bottom of the unit to the floor, unless properly guarded to provide protection from moving parts.

- In aircraft hangars, keep the bottom of the unit at least 10 feet from the highest surface of the wings or engine enclosure of the the highest aircraft housed in the hangar and in accordance with the requirements of the enforcing authority and/or NFPA No. 409 - Latest Edition.

Figure 3.1 Combustible Material and Service Clearances

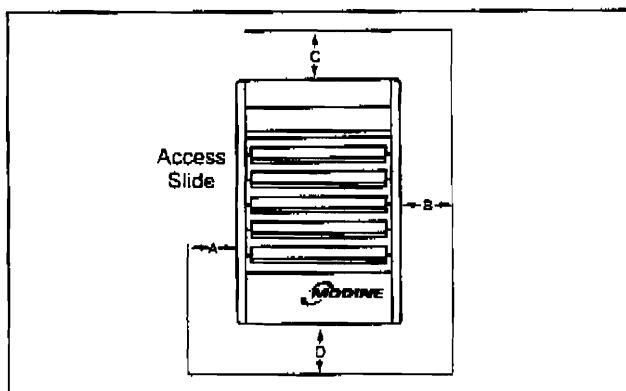


Table 3.2 Combustible Material Clearances Ⓞ

Model Size	Access Side (A)	Non-Access Side (B)	Top (C)	Bottom (D)	Top of Power Exhauster (Not Shown)
30-100	1	1	6	12	3
125	1	1	3	12	2
150-175	1	1	4	12	2
200-300	1	1	5	12	3
350-400	1	1	5	12	3

Ⓞ Provide sufficient room around the heater to allow for proper combustion and operation of fan. Free area around the heater must not be less than 1-1/2 times the discharge area of the unit.

Table 3.3 Recommended Service Clearances

Model Size	Access Side (A)	Non-Access Side (B)	Top (C)	Bottom (D)	Top of Power Exhauster (Not Shown)
30-50	18	18	6	15	1
75-100	18	18	6	20	1
125-175	18	18	6	22	1
200-400	18	18	6	25	1

### Combustion Air Requirements

Units installed in tightly sealed buildings or confined spaces must be provided with two permanent openings, one near the top of the confined space and one near the bottom. Each opening should have a free area of not less than one square inch per 1,000 BTU per hour of the total input rating of all units in the enclosure, freely communicating with interior areas having, in turn adequate infiltration from the outside. For further details on supplying combustion air to a confined (tightly sealed) space or unconfined space, see the National Fuel Gas Code ANSI Z223.1 of CAN/CGA B149.1 or 2 Installation Code, latest edition.



REAR STREET

FRONT LOT

165 REAR ST

MEDICINE  
PDR 150 AL

MEDICINE  
PDR 150 AL

Proposed Jersey Burnetts  
4/1/20 YOUNG  
LP JAMES  
Deadriver  
12/1/09

The diagram is a hand-drawn site plan of a rectangular lot. A dashed line runs down the center of the lot, representing a driveway or a center line. On the left side of the lot, there are two square structures, each with a vertical post extending upwards. Below each structure is the text 'MEDICINE PDR 150 AL'. On the right side of the lot, there are two circular markers arranged in a horizontal line. A bracket above these circles is labeled '10''. To the right of the circles, there is a vertical line with an arrow pointing to the right, labeled 'Proposed Jersey Burnetts'. Below this line, there is another vertical line with an arrow pointing to the right, labeled '4/1/20 YOUNG LP JAMES'. At the bottom of the lot, there is a horizontal line with an arrow pointing to the right, labeled 'Deadriver 12/1/09'. The lot is bounded by a solid line on the top and bottom, and a dashed line on the left and right. The text '165 REAR ST' is written in the center of the lot. The text 'REAR STREET' is written at the top of the page, and 'FRONT LOT' is written at the bottom of the page.

**80% Thermal Efficiency Rotating Power Exhaust Horizontal or Vertical Venting Field-Convertible to Propane  
Field-Adjustable Level Hanging Intermittent Pilot Ignition, 100% Shut-Off with Continuous Retry**

## ***HIGH EFFICIENCY II***

The PDP (propeller) and BDP (blower) High Efficiency II gas-fired unit heaters are a generation of products that are inexpensive to install, easy to use, and offer excellent in-service economy.

**Each Modine power-exhausted unit heater has been engineered to include the following features:**

80% thermal efficiency, maximizing seasonal efficiency through the use of a collector box and the power exhauster.

A power exhaust that can be rotated 180°. The unit can be vented vertically or horizontally.

A 100% shut-off, intermittent pilot-ignition system with continuous retry, at no extra charge. This ignition system allows for all PDP/BDP units to be field-converted to propane, if desired.

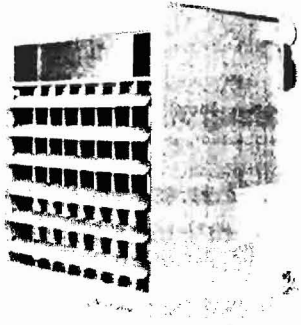
A safety pressure-switch to assure safe venting conditions.

Designed to utilize the smallest-diameter vent pipe possible.

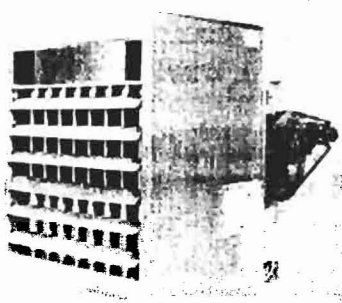
PDP models are designed to operate against 0.5 inches of external static pressure.

"Wing" screws so that the bottom pan can be dropped without a screwdriver or nut driver.

A level hanging mechanism for easy field adjustments after adding accessories that may change the unit's center of gravity.



**MODEL PDP**



**MODEL BDP**

### **Performance Data**

	Model Number											
	PDP 30	PDP 50	PDP 75	PDP 100	PDP 125	PDP 150	PDP 175	PDP 200	PDP 250	PDP 300	PDP 350	PDP 400
<b>Btu/Hr Input</b>	30,000	50,000	75,000	100,000	125,000	150,000	175,000	200,000	250,000	300,000	350,000	400,000
<b>Btu/Hr Output</b>	24,000	40,000	60,000	80,000	100,000	120,000	140,000	160,000	200,000	240,000	280,000	320,000
<b>Vent Dia. (in.)</b>	3 or 4	3 or 4	4	4	4	5	5	5	6	6	6	6
<b>CFM @ 70°F</b>	440	740	1100	1460	1850	2180	2550	2870	3700	4460	4870	5440
<b>Air Temp. Rise (°F)</b>	51	50	51	51	50	51	51	52	50	50	53	54
<b>Maximum Mounting Height (Ft)</b>	7	9	12	14	14	16	17	15	19	21	20	19
<b>Heat Throw (Ft) ①</b>	25	33	41	49	51	55	59	51	67	74	70	69
<b>Motor HP</b>	1/40	1/40	1/12	1/12	1/8	1/8	1/6	1/6	1/3	1/2	3/4	3/4

① At 65° ambient temperature and unit fired at full-rated input. Mounting height is measured from floor to bottom of unit.

	Model Number										
	BDP 50	BDP 75	BDP 100	BDP 125	BDP 150	BDP 175	BDP 200	BDP 250	BDP 300	BDP 350	BDP 400
<b>Btu/Hr Input</b>	50,000	75,000	100,000	125,000	150,000	175,000	200,000	250,000	300,000	350,000	400,000
<b>Btu/Hr Output</b>	40,000	60,000	80,000	100,000	120,000	140,000	160,000	200,000	240,000	280,000	320,000
<b>Vent Dia. (in.)</b>	3 or 4	4	4	4	5	5	5	6	6	6	6
<b>Motor HP (Std 115V/60Hz/1Ph)</b>	1/4	1/4	1/4	1/4	1/4	1/3	1/4	1/3	3/4	1	1-1/2
<b>Air Flow CFM Range</b>	529-926	794-1389	1058-1852	1323-2315	1587-2778	1852-3241	2116-3704	2646-4630	3175-5556	3704-6481	4233-7407
<b>Air Temp. Rise Range (°F)</b>	40-70	40-70	40-70	40-70	40-70	40-70	40-70	40-70	40-70	40-70	40-70

Note: Maximum mounting heights and heat throws for BDP models, without ductwork or nozzles, and at a CFM yielding a 55° temperature rise, are the same as those listed for equivalent size PDP units.

**DO NOT LOCATE ANY GAS-FIRED UNIT IN AREAS WITH CHLORINATED, HALOGENATED OR ACIDIC VAPORS IN ATMOSPHERE.**



Request Catalog 6-189 For Complete Technical Information and Specifications.