

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that MICHAEL J JENNINGS

Located At 44 JERSEY AVE

Job ID: 2012-06-4284-HVAC

CBL: 403- C-027-001

has permission to Install an HVAC system (Single Family Residence).

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer



Code Enforcement Officer / Plan Reviewer

07/24/2012

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

1. Close-In: (Electrical, Plumbing, Framing)
2. Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

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Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-06-4284-HVAC

Located At: 44 JERSEY AVE

CBL: 403- C-027-001

Conditions of Approval:

Building

1. The installation must comply with UL, the Manufacturers' Listing, MUBEC (IRC, 2009), and State of Maine Gas Regulations.
2. Separate permits are required for any electrical: plumbing, sprinkler, fire alarm, HVAC systems, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
3. Maintain proper setback(s) from property lines/buildings and proper clearances from vertical openings when direct venting
4. A Carbon Monoxide (CO) alarm shall be installed in each area within or giving access to bedrooms. That detection must be powered by the electrical service (plug-in or hardwired) in the building and battery.
5. M1804.2.5 Direct vent terminations. Vent terminals for direct-vent appliances shall be installed in accordance with the manufacturer's installation instructions.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-06-4284-HVAC	Date Applied: 6/19/2012	CBL: 403- C-027-001	
Location of Construction: 44 JERSEY AVE	Owner Name: MICHAEL J JENNINGS	Owner Address: 44 JERSEY AVE PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: MAIETTA TITUS BLASCHKE P & H	Contractor Address: 1566 FOREST AVENUE, PORTLAND, ME 04103	Phone: 797-2685
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-3
Past Use: Single family with a home occupation	Proposed Use: Same: Single family with a home occupation – to install new Slant/Fin Intrepid TRDV heating system – direct vent	Cost of Work: \$6,000.00	CEO District:
		Fire Dept: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> N/A Signature:	Inspection: Use Group: R3 Type: SB IRC, 2009 Home Gas Regs Signature: <i>[Signature]</i>
Proposed Project Description: Install Intrepid TRDV		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Brad	Zoning Approval		
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building Permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK 6/25/12</i>	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in Dist 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>[Signature]</i>
	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 appication 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.

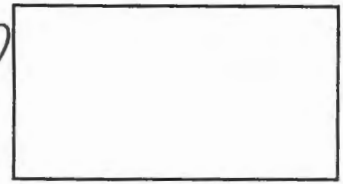
SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

23



To the INSPECTOR OF BUILDINGS, PORTLAND, ME. A 2012-06-4284-HVAC

Standard 419 (B)

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 44 Jersey St 403 0027 Use of Building residence Date 6-19-12
Name and address of owner of appliance Moody St Development Michael & Virginia James

Installer's name and address Marietta Titus Blaschke P&H Inc.
1566 Forest Avenue Portland Maine 04103 Telephone 797-2685

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Slant fin

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 # 5236
- Gas # _____
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type Concentric vent UL# _____

Type of Fuel Tank

- Oil
- Gas

Size of Tank 275

Number of Tanks 1

Distance from Tank to Center of Flame more than 5 feet.

Cost of Work: \$ 6000
5700.00

Permit Fee: \$ 80.00

RECEIVED

JUN 19 2012

Dept. of Building Inspections
City of Portland Maine

Approved

Fire: _____
Ele.: _____
Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Gary B. Blaschke

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 12254
Tender Amount: 80.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 6/19/2012
Receipt Number: 45120

Receipt Details:

Referance ID:	6946	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	80.00	Charge Amount:	80.00
Job ID: Job ID: 2012-06-4284-HVAC - Install Intrepid TRDV			
Additional Comments: 44 Jersey			

Thank You for your Payment!

FLEX- L

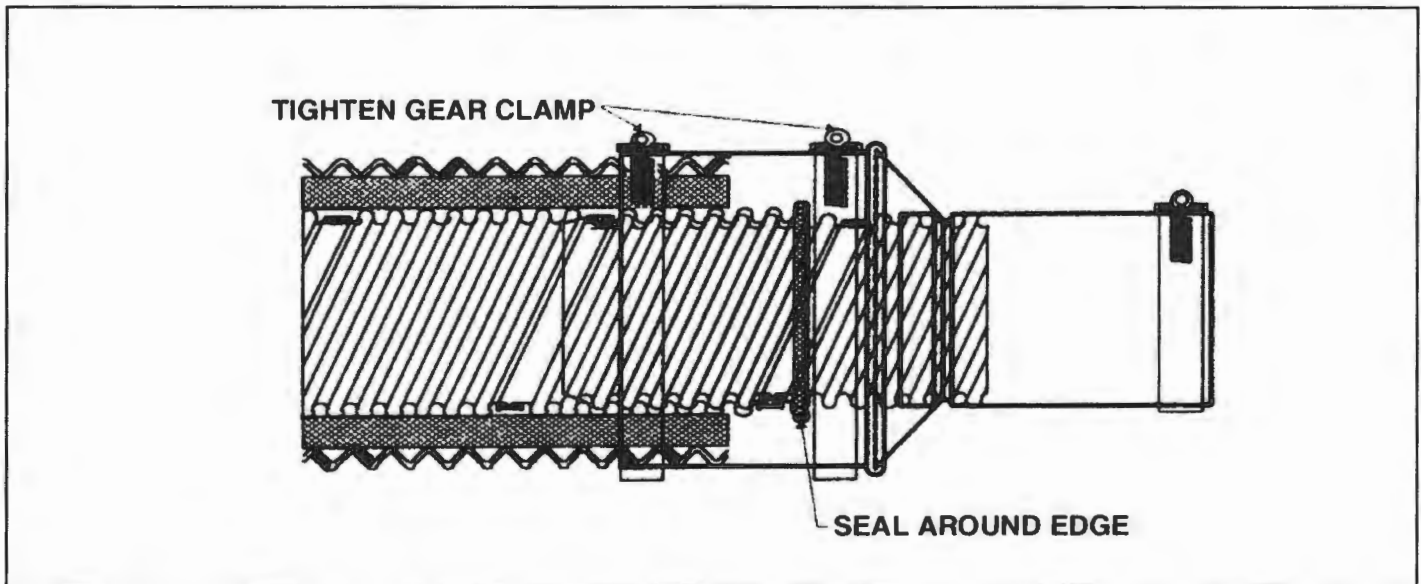


FIGURE 4: Joint assembly

INSTALLING THE JOINT ASSEMBLY

1. Loosen the gear clamps attached to the adapter sleeve and slide the adapter sleeve over the vent pipe, Figure 4 and Figure 5.
 2. Pull the corrugated inner tube out of the vent pipe for easy access and insert the adapter.
 3. Apply sealant around the corrugated end of the adapter.
 4. Align the flat seams at the end of both corrugated tubes and insert the adapter into the vent tube. Screw the adapter into the vent pipe with a counter-clockwise motion. The adapter
- should be fully inserted into the inner vent tube until it's tight. The seams of both tubes must be aligned for ease of insertion. If the adapter does not completely screw into the vent pipe, unscrew it and try again as per Step #4.
5. Seal around the edge of vent pipe inner tube.
 6. Slide the adapter sleeve back onto adapter and tighten the gear clamps to complete the connection.
 7. If the vent requires cutting to length, a fine tooth hacksaw can be used. Remove any burrs and flare out the end of the inner vent tube for easy installation of the adapter.

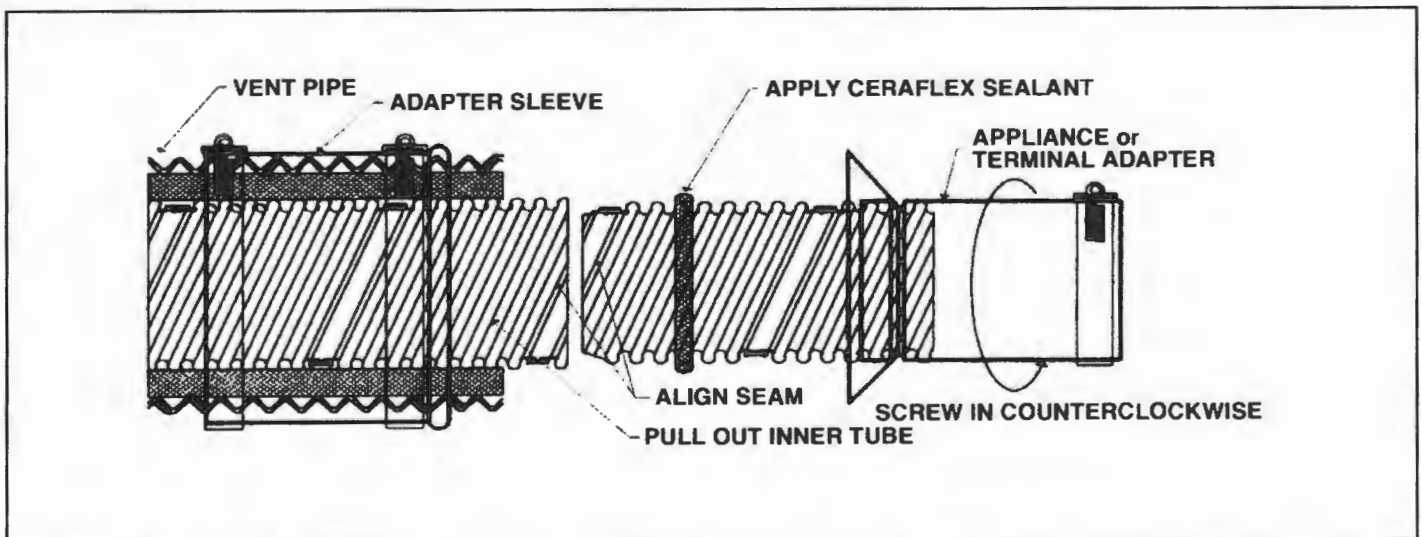


FIGURE 5: Joint assembly

FLEX- L

Do not install vent terminals on prevailing wind wall side of structure. Moisture and ice may form around terminal. Make sure the surface is in good repair and protected from damage.

Slant/Fin models TRDV boilers can be installed on sealed or direct vented systems. They must be ordered from the factory with an approved Direct Vent System. Part numbers for the kits and accessories can be found on page 8 of this manual.

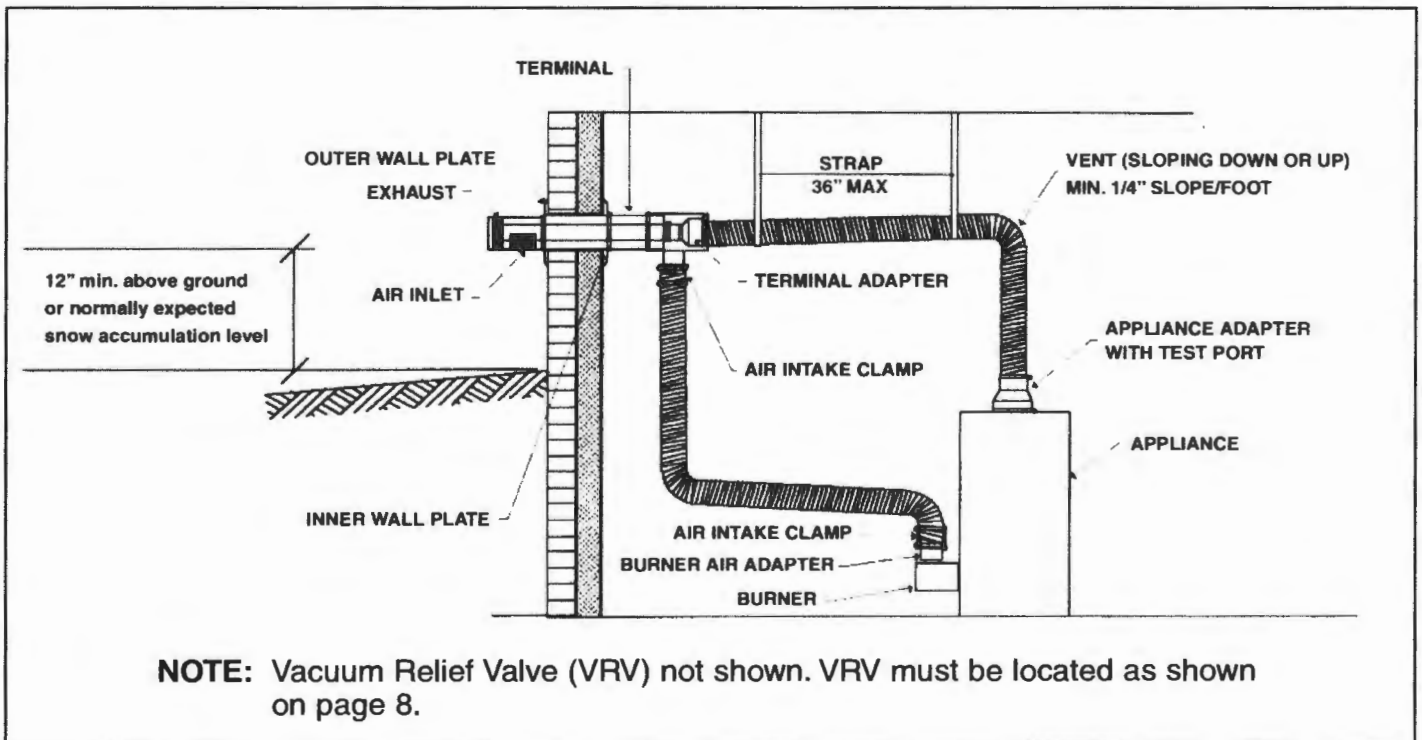


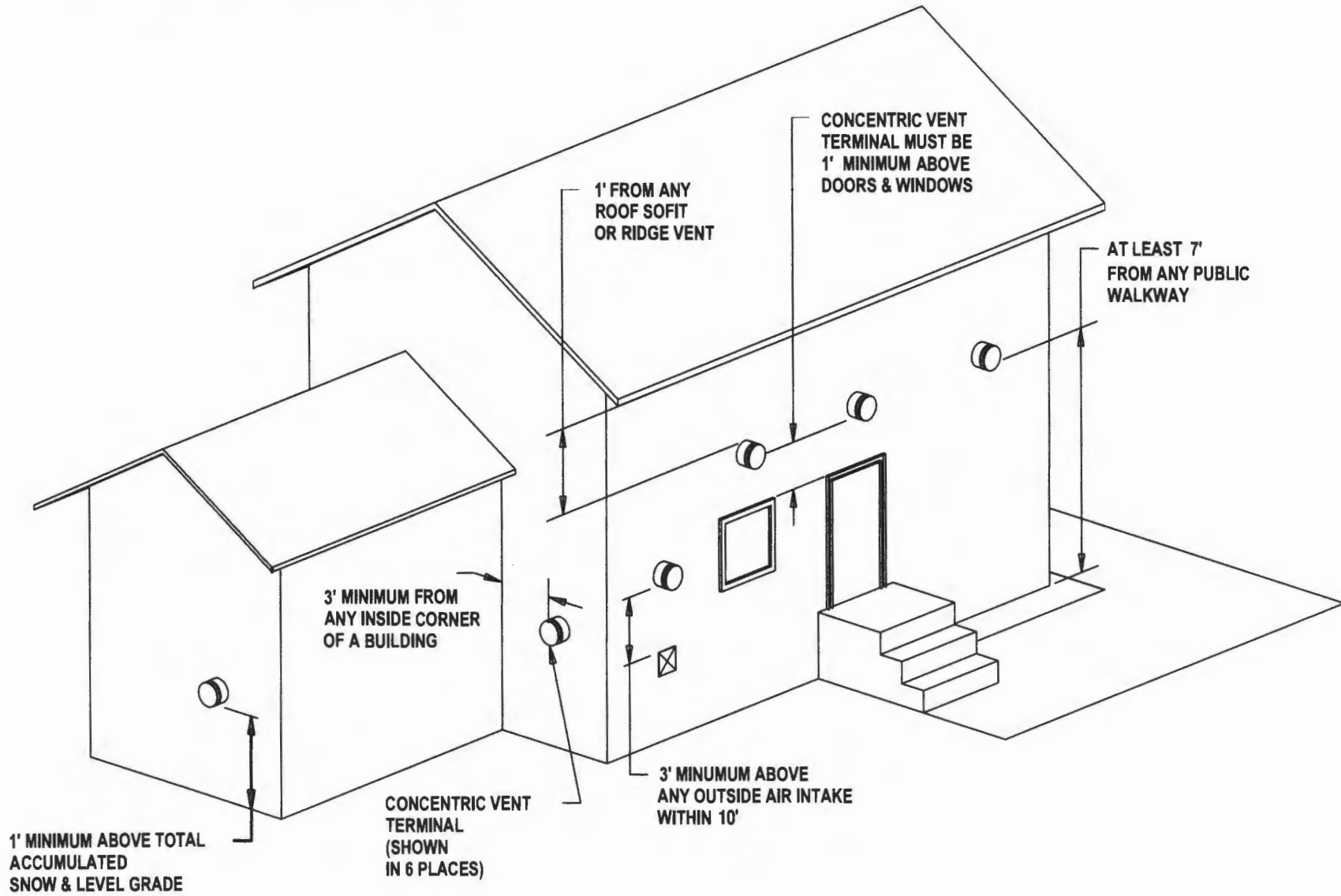
FIGURE 3: Typical installation

ADDITIONAL INSTALLATION CONSIDERATIONS (Figures 2 & 3)

- 1) Kit or system may vary based on specific needs of appliance.
- 2) Utilize the appliance adapter test port for combustion testing required by appliance manufacturers.

The vent terminal has a 0" clearance to combustibles
 The insulator to vent pipe has 1" clearance to combustibles.

FIGURE 2: Vent terminal installation locations



CODE APPROVALS:

Slant/Fin boilers meet most codes throughout the United States. Listed below are code approvals which **we are most frequently asked about**. However, please consult your Slant/Fin representative regarding other approvals you may have to meet.

National: All Slant/Fin gas boilers are A.G.A design certified. All oil burners used by Slant/Fin are U.L. listed. All boilers meet or exceed the National Appliance Energy Compliance Act effective January 1, 1992.

All Slant/Fin boilers have I=B=R approved ratings. Ratings for boilers with inputs less than 300,000 Btuh are established under ASHRAE Standard 103 as required by DOE and are verified annually by Hydronics Institute under the I=B=R DOE Verification Program.

Ratings for boilers with inputs 300,000 Btuh and over are established by Hydronics Institute under I=B=R test procedures.

Slant/Fin is a holder of an ASME Certificate of Authorization and Code Stamp. All cast-iron boilers are built to the requirements of Section IV of the ASME Boiler and Pressure Vessel Code.

New York City: Slant/Fin boilers meet the requirements of BAR "Bureau of Air Resources" and M.E.A. "Material and Equipment Acceptance" as follows:

GX, GXH Boiler and GXT, GXHT Caravan modules . . . . .	.MEA — 25-96-E
GG Boiler and GGT, GGHT Caravan modules . . . . .	.MEA — 283-93-E Vol. II
GXHA Boiler . . . . .	.MEA — 130-04-E
Liberty Caravan . . . . .	.MEA — 214-88-E Vol. IV
Intrepid Boiler . . . . .	.MEA — 214-88-E Vol. IV
Intrepid Boiler . . . . .	.MEA — 214-88-E Vol. III
Victory II Boiler . . . . .	.MEA — 416-90-E
Victory VSP . . . . .	.MEA — 40-02-E
Victory VSPH . . . . .	.MEA — 187-03-E
Sentry Boiler . . . . .	.MEA — 335-92-E Vol. II
Sentinel Boiler . . . . .	.MEA — 335-92-E Vol. III
XL-2000 Boiler . . . . .	.MEA — 34-97-E
EC-10 Series Boiler . . . . .	.MEA — 193-07-E Vol. II
EC-20 Series Boiler . . . . .	.MEA — 193-07-E
Lynx Boiler . . . . .	.MEA — 225-07-E
Bobcat Boiler . . . . .	.MEA — 415-07-E
Jaguar Boiler . . . . .	.MEA — 191-08-E

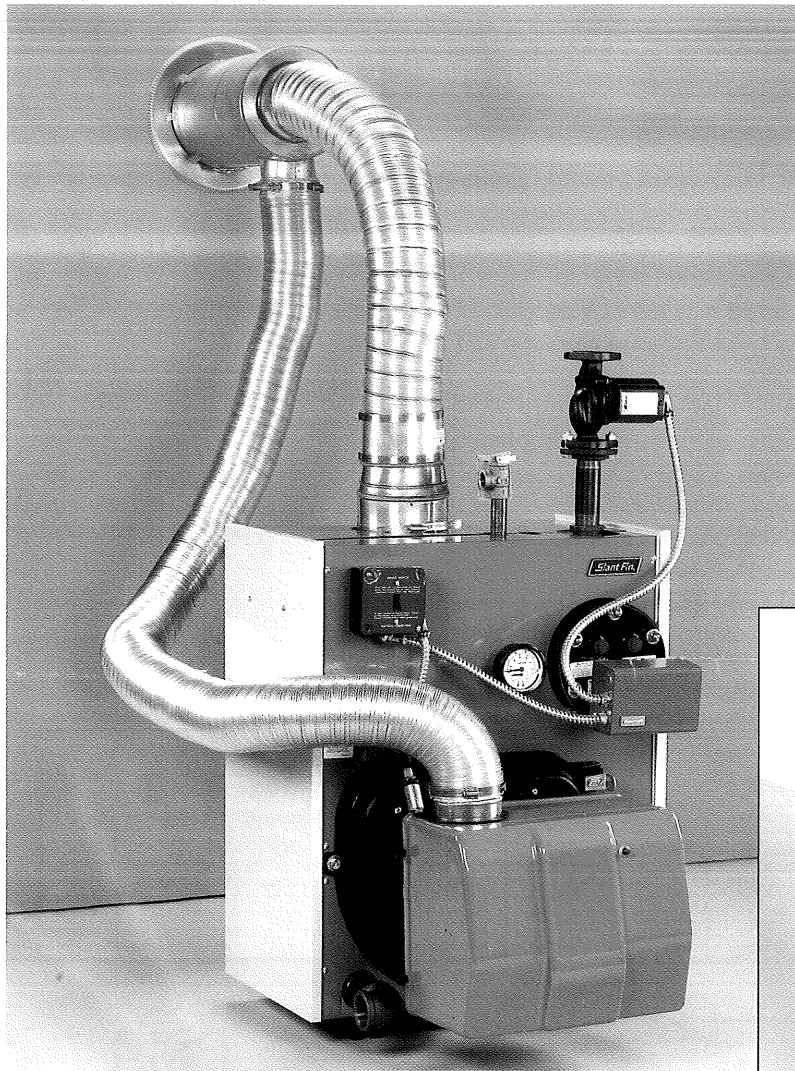
New York City BAR No. 51-88
Slant/Fin Vent Damper NYS Approval No. 8859.

Pennsylvania All Slant/Fin oil and gas boilers are approved in Pennsylvania by PA Cert 3893 for individual boilers and 174-BT-S for Caravan.

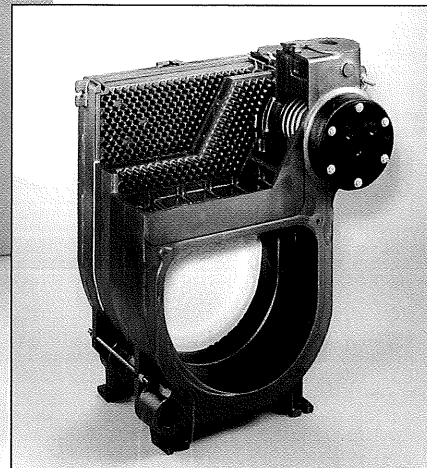
Slant/Fin

INTREPID TRDV

Direct vent, cast-iron oil boiler



- Vents direct to outdoors without a chimney
- More boiler location options using up to 15' of flexible vent pipe
- Concentric vent termination kit
- 0.85 to 1.10 GPH oil input
- AFUE to 87.2%
- Swing out burner door
- Speedy service flue collector uses a resealable gasket
- Easy access, higher output tankless heater coil available
- Refractory target wall increases combustion efficiency
- Front and rear tapings



The direct vent, Intrepid TRDV oil-fired cast iron boiler offers high-efficiency heating without a chimney. TRDV series boilers feature superb combustion with Energy Star AFUE's to 87.2%. Available in hot water models with or without a tankless heater. The computer-aided design heat exchanger is wider and lower for more even heat

transfer. The push nipple ports do not obstruct the flue passage. More BTU's per section than ordinary boilers. Features include metal push nipples, stainless steel tankless heater bolts, return tee for additional zones and brand name controls.

Slant/Fin®

PUBLICATION NO. TRDV-10
Printed in U.S.A. 1107

INTREPID TRDV

Direct vent, cast-iron oil boiler



New high performance direct vent Intrepid TRDV oil boilers from Slant/Fin require no chimney. They are an ideal choice for new construction, or as an alternative to making costly repairs to poor chimneys. For reliable performance, the TRDV boiler is designed with silicone sealant or silicone coated rope at all flue passage joints. Install with TRDV concentric vent termination kit and flexible exhaust tubing. Tankless coil optional. Input rates of 0.85, 1.0, and 1.1 gph.

- Swing open burner door
- Rugged heavy-duty jacket
- Front mounted service switch
- Concentric vent terminal requires just one wall opening
- Vent exhaust tubing kits: 10 and 15 ft. lengths
- Uses galvanized or flexible air intake pipe (not included)
- Resealable flue collector gasket
- Burners available: Beckett NX, Riello BF 5
- Vacuum relief included
- Lifetime Limited Warranty

Cast-iron reliability and Energy Star efficiency make the TRDV boiler an ideal homeowner choice for years of trouble-free heating performance.



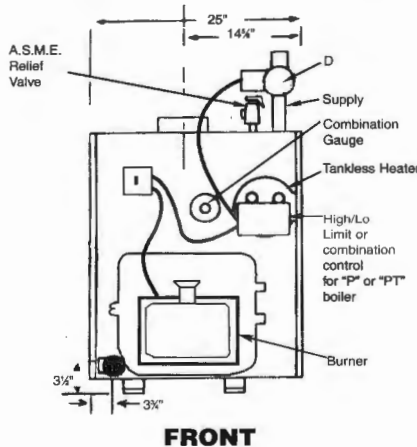
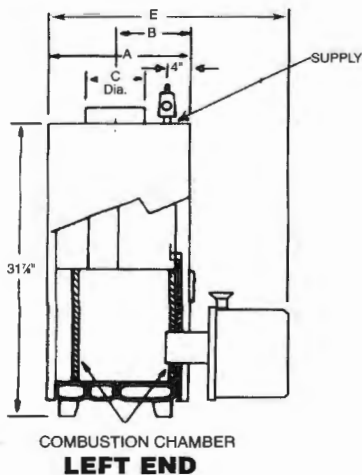
A return piping kit, packaged with every TRDV boiler, provides a utility tapping that is ideal for connecting an extra circulator. Includes a 3/4" reducing bushing and drain.



Tankless heater models utilize long-life stainless steel cap nuts on coil.

Ratings and Dimensions

Boiler Model	I.B.R. Burner Capacity Oil Input		D.O.E. Heating Capacity MBH	I=B-R Net Ratings MBH	AFUE%	Dimensions (inches)					
	GPH	BTUH				Water	Water	Water	Boiler Length "A"	Front to Flue "B"	Flue Dia. "C"	Circulator Flange "D"	Overall Length "E"	Boiler Sect
TRDV-30-0.85	0.85	119,000	103	90	87.22	14 7/8"	10 1/8"	6"	1 1/4"	27 3/4"	3
TRDV-30-1.00	1.00	140,000	121	105	86.57	14 7/8"	10 1/8"	6"	1 1/4"	27 3/4"	3
TRDV-30-1.10	1.10	154,000	132	115	86.12	14 7/8"	10 1/8"	6"	1 1/4"	27 3/4"	3



Standard working pressure 30 psi water. All boilers hydrostatically tested — A.S.M.E.

* For forced hot water heating systems where the boiler and all piping are located within the area to be heated, the boiler may be selected on the basis of gross D.O.E. capacity output. The net I=B-R output ratings shown are based on an allowance for piping and pickup of 1.15 (water). D.O.E. capacity gross output is divided by the allowance to obtain net rating. The manufacturer should be consulted before selecting a boiler for unusual piping and pickup requirements such as intermittent system operation, extensive piping, etc.

† Ratings apply to the use of light oil at 140,000 Btu per gallon.

** Tankless heater rating based on intermittent draw.