

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that THOMAS J ROBINSON

Located At 47 LAFAYETTE ST

Job ID: 2012-09-5050-HVAC

CBL: 014- C-007-001

has permission to Installing a new Mantis Fireplace
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues 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

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.**

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

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-09-5050-HVAC

Located At: 47 LAFAYETTE ST

CBL: 014- C-007-001

Conditions of Approval:

Building

The installation must comply with the State of Maine gas regulations.

City of Portland, Maine - Building or Use Permit Application

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

| | | | |
|--|---|--|---|
| Job No: 2012-09-5050-HVAC | Date Applied: 9/27/2012 | CBL: 014- C-007-001 | |
| Location of Construction: 47 LAFAYETTE ST | Owner Name: JOSHUA WOJCIK | Owner Address: 126 NORTH STREET PORTLAND, ME 04101 | Phone: |
| Business Name: | Contractor Name: Austin Foss @ ABT Plumbing Heating Cooling | Contractor Address: PO BOX 743 WILTON MAINE 04294 | Phone: (207) 491-9087 |
| Lessee/Buyer's Name: | Phone: | Permit Type: HVAC | Zone: R-6 |
| Past Use: Two Family Dwelling | Proposed Use: Same: Two Family Dwelling – to install Mantis Fireplace | Cost of Work: \$13,000.00 | CEO District: |
| | | Fire Dept: Approved Denied N/A | Inspection: Use Group: R-3 Type: SB HVAC Signature: |
| Proposed Project Description: Installing a new Mantis Fireplace | | Pedestrian Activities District (P.A.D.) | |
| Permit Taken By: Brad | | Zoning Approval | |

| | | | |
|---|---|--|---|
| <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 informatin may invalidate a building permit and stop all work.</p> | <p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: 9/27/12</p> | <p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p> | <p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p> |
| | 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.

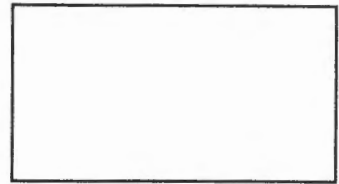
SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



2012-09-5050-HVAC R-6 Entred 9/27/12 (15)

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 49 LAFAYETTE 014 C007 Use of Building 2 FAMILY Date 9-26-2012

Name and address of owner of appliance JOSHUA WOJCIK 47 LAFAYETTE ST. 126 NORTH ST

Installer's name and address AUSTIN FOSS ABT PLUMBING HEATING COOLING
PO Box 743 WILTON ME 04294 Telephone 654-2711 491-9057

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel: NATURAL

- Gas
- Oil
- Solid

Appliance Name: MANTIS FIREPLACE

U.L. Approved Yes No

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

IF NO Explain: _____

RECEIVED
SEP 26 2012
Dept. of Building Inspections
City of Portland Maine

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 1644
- Other _____

Type of Chimney:

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

Type of Fuel Tank

- Oil
- Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 13,000
~~12,600.00~~

Permit Fee: \$ 150.00

Approved

Fire: _____
Ele.: _____
Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Signature of Installer Austin Foss

Inspector's Signature _____

Date Approved _____



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 2195

Tender Amount: 150.00

Receipt Header:

Cashier Id: bsaucier

Receipt Date: 9/27/2012

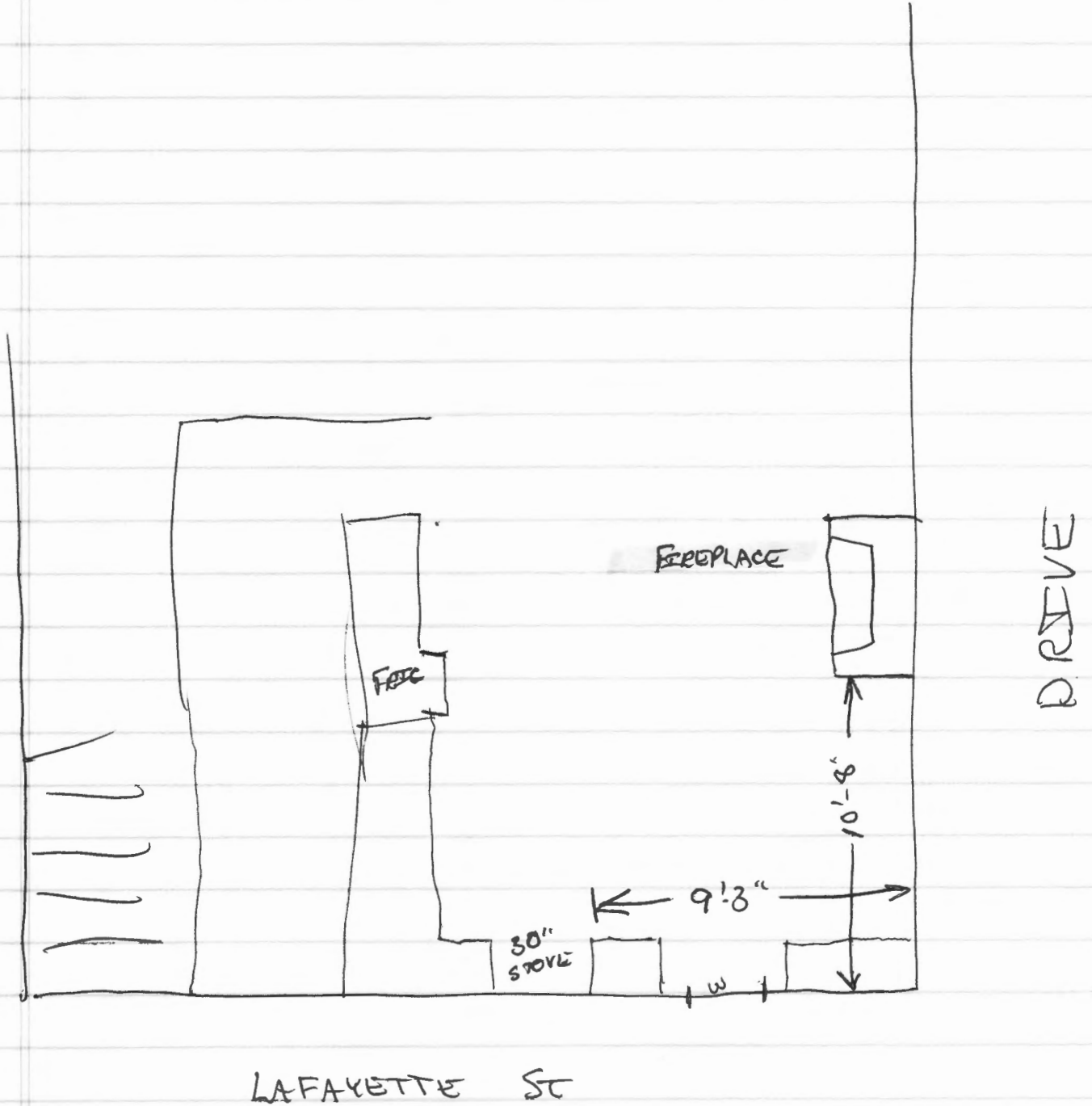
Receipt Number: 48689

Receipt Details:

| | | | |
|---|--------|----------------|-----------|
| Referance ID: | 8158 | Fee Type: | BP-Constr |
| Receipt Number: | 0 | Payment Date: | |
| Transaction Amount: | 150.00 | Charge Amount: | 150.00 |
| Job ID: Job ID: 2012-09-5050-HVAC - Installing a new Mantis Fireplace | | | |
| Additional Comments: 49 Lafayette (2 of 2) | | | |

Thank You for your Payment!

1st Floor



The World's Most *Efficient* and
Versatile
Fireplace System



The First and ONLY Vented Fireplace That

- Exceeds 90% Efficiency
- Uses PVC Pipe for Low-Cost Venting Installation
- Humidifies as it Heats
- Installs as Fireplace, Insert, or Freestanding Stove
- Installs as a Direct-Vent or Single-Vent System

*Mantis*TM
by Empire Comfort Systems



Above: Mantis
Fireplace Package
(Shown with Stainless
Steel Louverless
Surround)

Below: Mantis Bay
Window Pedestal
Package (Shown with
Silver Window Frame)

Welcome to MANTIS

The World's Most Efficient and Versatile Fireplace

The Mantis exceeds 90% efficiency – which means it uses about 35 percent less fuel compared to any other vented heater or fireplace system per Btu of heat in your room. This makes Mantis the greenest fireplace you can buy. Because its inexpensive 1 1/2-inch PVC vent pipe can be run inside a conventional 2 x 4 framed wall, the Mantis costs less to install – in materials, time, and labor. The Mantis is the first and only vented fireplace that adds humidity to the dry winter air, making your home feel warmer and more comfortable.

The Mantis comes in several versions – the original Bay Window models, Traditional Fireplaces models (with a flat glass front) and the all-new G-Class Fireplace models with flat glass front and a contemporary linear burner in place of the log set.

The Traditional and G-Class models allow installation in a wall, in a mantel, or as an insert in an existing wood-burning fireplace. The Mantis Bay Window comes in three models for installation in a mantel, as an insert, or as a freestanding stove – with or without a pedestal.

| | Mantis | Conventional DV Fireplace |
|-------------------------------|--------|---------------------------|
| Efficiency | 90%* | 60% |
| Gas Input (Btu/H) | 28,000 | 28,000 |
| Heat Output (Btu/H) | 25,200 | 16,800 |
| Exhaust Gas Heat Loss (Btu/H) | 2,800 | 11,200!! |
| Annual Savings | 35% | 0 |

Green Heating with Gas

According to the US Environmental Protection Agency, heating with any gas appliance generates far less particulate pollution than heating with any other common fuel. The worst polluter, a wood fireplace, generates 28 pounds of particulates (measuring 2.5 microns or more) for every million Btu of fuel you put in. Heating with gas generates a tiny fraction of that (just 0.0083 pound) for every million Btu input. Compared to an EPA-certified wood stove, gas heat still generates less than 1 percent of the particulate pollution. And gas produces less than 2 percent of the pollution emitted by a pellet stove.

| Particulate Pollution Generated by Heat Source | PM 2.5 lb/ million BTU | Percentage Compared to a Wood Fireplace |
|--|------------------------|---|
| Fireplace Burning Wood | 28 | - |
| Uncertified Wood Stove | 4.6 | 16.43% |
| EPA-certified Wood Stove | 1.4 | 5.00% |
| Pellet Stove | 0.49 | 1.75% |
| Oil Furnace | 0.013 | 0.05% |
| Gas Furnace | 0.0083 | 0.03% |



What Makes Mantis Unique?

Inside the Mantis a three-stage heat exchanger sends more than 90 percent of the heat energy into your home – not up the flue. While the temperature inside the combustion chamber may exceed 900 degrees F, the exhaust gas exits the flue at just 120 to 130 degrees F – as little as two feet away!

This makes Mantis the first and only condensing fireplace, which means the exhaust is cool enough to run in PVC. Using PVC for venting makes the total installed price (unit, labor, and materials) comparable to a direct-vent fireplace or pellet stove, while the energy savings can add up year after year. The Mantis puts the green in environmentally friendly. Its power-vented heat-exchanger technology ensures the optimal air/fuel mixture for consistently clean-burning operation. With its clean burn and super-efficient heat exchanger, the Mantis generates fewer greenhouse gases – CO and CO₂.

The Mantis earned a zero-clearance certification for installation against any combustible building materials.

The Traditional and Bay Window models feature dual burners that deliver a total of 28,000 Btu. Operating the front burner alone lets you enjoy the ambiance of the attractive log set and gas fire without overheating the room. But, when the temperature dips, the Mantis rises to the occasion, switching on the second burner to produce maximum heat output.

The new G-Class Mantis features a single 20,000 Btu linear burner and a sophisticated control system that lets you manually turn down the heat output by up to 50 percent or can operate automatically to vary the flame height to meet heat demand. Porcelain black panels line the G-Class Mantis to reflect the flames. Optional glass droplets or crushed glass add color to complement your décor.

The Award Winning Mantis

The Mantis won the 2007 Innovation Award, which recognizes products that best help HVAC contractors provide safer, healthier, more efficient, and more comfortable environments. Sponsored by the American Society of Heating, Refrigerating and AirConditioning Engineers, the Air Conditioning & Refrigeration Institute, and The International Exposition Company.

The Mantis earned the 2007 Dealer Design Award, which recognizes products that advance home heating & air conditioning, and attain new levels of installation, maintenance, and service ease. Sponsored by the NEWS, a monthly magazine serving HVAC Contractors.

The Home Builders Association of Connecticut awarded the 2009 HOBI Award for Best Green Product to the Mantis Fireplace in The Homes at Greenbrier sustainable community. The HOBI awards were sponsored by HBA of Connecticut, Inc.

Developed in Australia more than 10 Years Ago

Patented Design – Worldwide

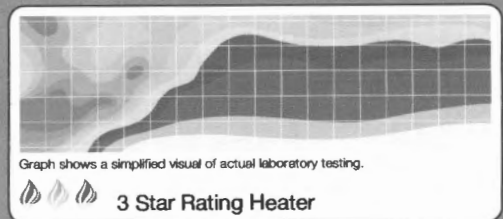
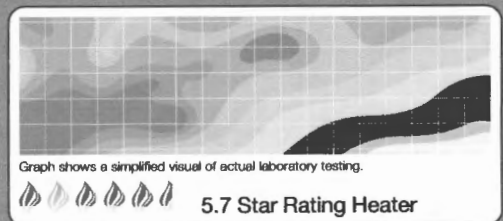
If the Mantis is so efficient, why does it not carry an Energy Star rating? Mantis fits no current Energy Star category, however, it outperforms most Energy Star rated central furnaces in heat transfer efficiency.

(The Mantis does not fit the furnace classification because it does

not need “ductwork” to convey the heated air. Ironically, a central furnace’s ductwork contributes to heat loss.)

In Australia, however, where this technology was originally developed, the Mantis earns a 5.52 out of 6 on that country’s Star Rating system. No vented zone heating system – U.S. or Australian – outperforms it.

The American Heating and Refrigeration Institute is working with the U.S. Department of Energy to create an Energy Star category for gas-fired zone heating products.



Australia's Star system graphically represents heat transfer efficiency. The red and orange areas represent area of 1,500-sq ft room heated after one hour at 28,000 Btu/H input in Independent Laboratory Testing. For comparison, a typical 60-percent AFUE system would rate just three stars.



Advanced Technology and Solid-State Controls

The sophisticated control system monitors every critical aspect of the Mantis' operation to maximize efficiency, comfort, and safety.

For all its advanced technology, the Mantis is amazingly easy to use. All of the traditional Mantis fireplaces ship with a simple Thermostat Remote Control for set-it-and-forget-it operation. Upgrade to the optional programmable thermostat, and let your Mantis deliver the right amount of heat for each day of the week and time of the day.

G-Class Mantis systems include a thermostat remote with 10 pre-set programs. Select a program to automatically turn down the heat when you sleep and wake to a warm room every morning. Manual override lets you warm the room any time.

The Mantis automatically purges unburned gas from the combustion chamber for 40 seconds before each ignition for controlled, even starts every time. The modern, hot-surface ignitors conserve gas by eliminating the need for a standing pilot.

The three-speed automatic circulating fan cycles on only after the Mantis reaches operating temperature and continues blowing as long as it senses warm air. You never feel a cool draft – just warm, humidified air.



Traditional Mantis Remote



Inside the Mantis, separate systems create the heat and distribute the heat, so room air stays isolated from the combustion process.

Creating the Heat (White, Black and Gray Arrows)

(A) The power vent blower draws in outdoor air (White Arrow) via the PVC intake pipe.

(B) Inside the fireplace the three-stage burner, below the log set, mixes the air and gas (LP or natural) and burns it to produce heat.

(C) The power vent blower extracts the hot combustion gases (up to 900° Fahrenheit) out of the combustion chamber and through the heat exchanger (Black Arrow).

(D) The combustion gases exit the heat exchanger (now cooled to less than 130°) and are forced outdoors through the PVC vent pipe (Gray Arrow).

Circulating the Warmth (Blue and Red Arrows)

(E) The circulation blower draws in room air (Blue Arrow) via louvers beneath the fireplace...

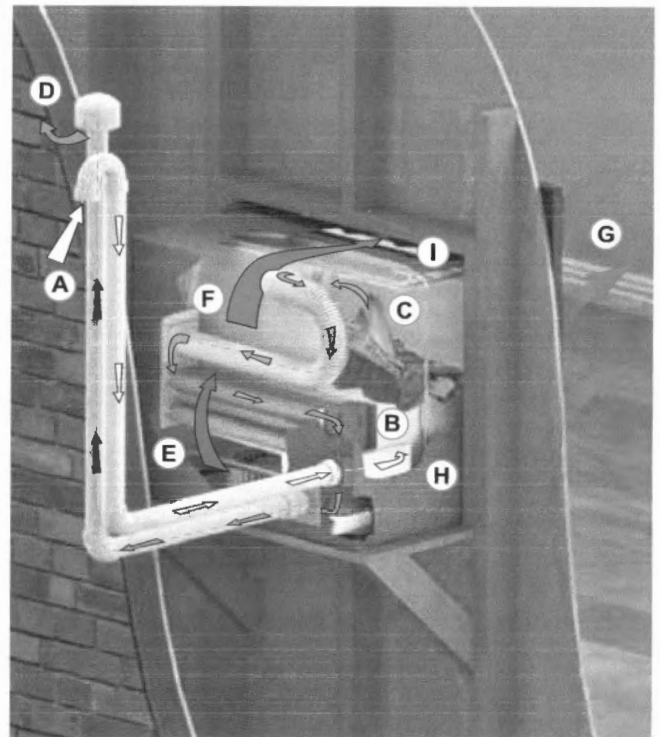
(F) ...and forces it across the heat exchanger fins. This transfers more than 90% of the heat inside the tubes to the room air.

(G) The blower forces this warm air out through louvers above the fireplace to warm the home (Red Arrow).

Adding the Humidity

(H) Droplets of moisture, a by-product of the Mantis' super-efficient heat exchanger, are captured in a holding tank (not visible).

(I) Once the Mantis reaches operating temperature, a pump cycles on to send any collected water onto a stainless steel tray above the combustion chamber, where heat and airflow circulate the water vapor. This added humidity helps alleviate the static shocks, wood furniture damage, and even sore throats caused by dry winter air.



Opposite Page: Mantis In-Wall Fireplace Package (Shown with Copper Metallic In-Wall Surround Kit)

Right: Mantis Fireplace Package (Shown with Matte Black Mantel Surround Kit and Oak Mantel)





Quality Construction – Factory Tested

Critical internal components in the Mantis – including the heat exchanger – are manufactured from the same corrosion-resistant and heat-resistant stainless steel that was developed for high-efficiency central furnaces.

The steel cabinet is finished in matte black powder coating to resist chipping and smudging. The Mantis Bay Window is available with decorative fireplace frames in contemporary nickel chrome plating, or matte black.

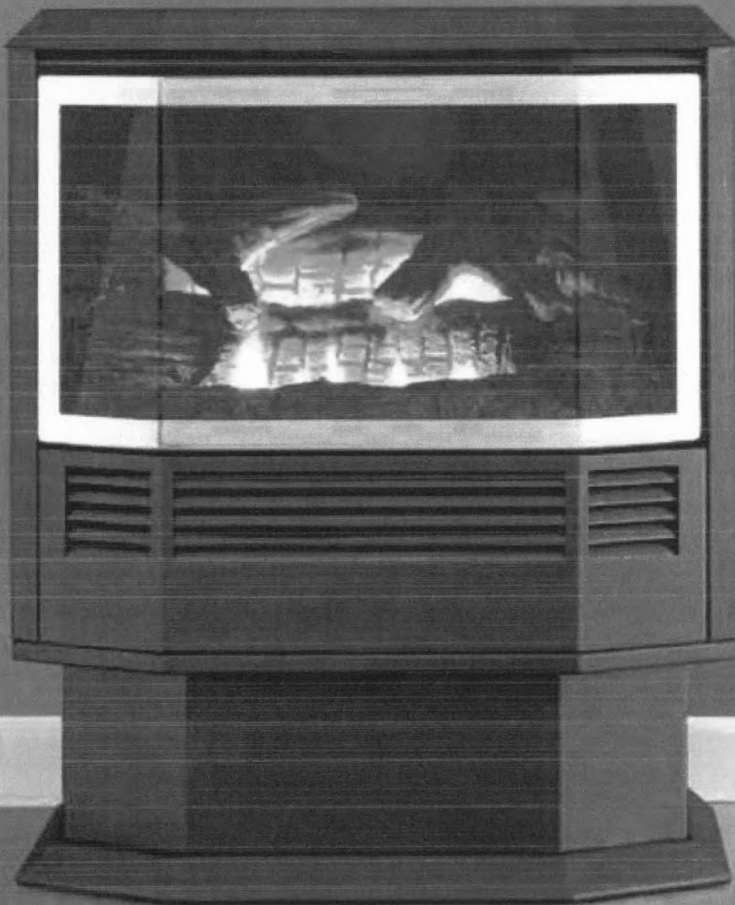
Ceramic glass withstands temperatures in excess of 1,500-degrees F and radiates more heat into the room, while providing a great view of the flames and log set.

The Mantis' hand-painted ceramic fiber log set complements the flame pattern, and glows when heated to provide exceptional realism.

Two rugged printed circuit boards – designed specifically for the Mantis – monitor all functions and controls. The hand assembled wiring harness is made from heat-insulated copper wire fitted with click-lock connectors for reliable performance.

Two powerful blowers inside the Mantis feature maintenance-free motors driving precisely balanced fans for a lifetime of quiet, efficient performance. One fan draws air into the combustion chamber and draws hot gases through the heat exchanger. The second fan draws room air across the heat exchanger and circulates the heated air throughout the room.

To ensure your fireplace performs flawlessly, every Mantis is connected to gas, electricity, and a PVC exhaust system, and test fired before it leaves our factory.



*Mantis Bay Window
Pedestal Package with
Chrome Window Frame*

Humidify While You Heat - Greater Comfort

The Mantis captures condensed water – a by-product of its clean combustion and super-efficient heat exchanger – and evaporates it to introduce humidity to the room air.

This water contains fewer contaminants than the drinking water in most homes. An automatic blower in the Mantis gently diffuses the humidified air into the room.

The result is a more comfortable home environment.



Automatic Humidification

Most heaters dry the air. Mantis actually adds humidity to the home for greater winter comfort.

- (A) Water vapor, a combustion by-product, condenses out of the rapidly cooled exhaust and collects in a holding tank (not shown).
- (B) Mantis pumps the water onto an evaporation tray above the firebox.
- (C) Heat and circulating air evaporate the water to create humidity.

Mantis Packages

Fireplace packages require metal surround available in Matte Black, Copper Metallic, Hammered Pewter, and Stainless Steel. Bay Window Fireplace and Insert packages include a Matte Black surround. Mantis Bay Window may be ordered with Black or Chrome window frame.

| Mantis Fireplace Package for Zero-Clearance Fireplace <i>Includes PVCA Co-linear Adaptor, PVVKSH Vent Adaptor, 24-V Thermostat</i> | |
|---|--|
| BF28-BM | Mantis Bay Window Fireplace Package, Black Window Frame (for use with mantel) - includes Slim Top & Surround |
| BF28-CM | Mantis Bay Window Fireplace Package, Chrome Window Frame (for use with mantel) - Includes Slim Top & Surround |
| FF28-BM | Mantis Fireplace Package - Requires FFK-28 Surround for mantel installation or FWK-28/FGK-28 Surround for in-wall installation |
| FG28-BM | NEW! Mantis G-Class Fireplace Package - Requires FFK-28 Surround for mantel installation or FWK-28/FGK-28 Surround for in-wall installation |
| Mantis Insert Package for Installation in an Existing Fireplace <i>Includes PVCA Co-linear Adaptor, PVVKSH Vent Adaptor, PVTC Termination Cap, PVVKCFA Vent Flex Kit (x 2), 24-V Thermostat</i> | |
| BI28-BM | Mantis Bay Window Insert Package, Black Window Frame - Includes Slim Top & PVE-1 Surround |
| BI28-CM | Mantis Bay Window Insert Package, Chrome Window Frame - Includes Slim Top & PVE-1 Surround |
| FI28-BM | Mantis Fireplace Insert Package - Requires FIK-28 Surround |
| IG28-BM | NEW! Mantis G-Class Insert Package - Requires FIK-28 Surround |
| Mantis Pedestal Package for Installation as a Freestanding Stove (with or without pedestal) <i>Includes PVCA Co-linear Adaptor, PVVKSH Single-Vent Adaptor, PVPK Pedestal, PVVTC Termination Cap, 24-V Thermostat</i> | |
| BP28-BM | Mantis Bay Window Pedestal Package, Black Window Frame - Includes Full Top |
| BP28-CM | Mantis Bay Window Pedestal Package, Chrome Window Frame - Includes Full Top |
| Mantis Accessories | |
| TDV-1 | Wall Thermostat, Wire, 24-V |
| TMV2 | Wall Thermostat, 2-Stage |
| TRW | Wall Thermostat, Wireless |
| FRBTC | Remote Control, Thermostat, Battery Operated |
| FRBC | Remote Control, Battery Operated |
| FRBTP | Remote Control, Programmable, Battery Operated |
| FSW-1 | Wall Switch |
| Mantis Bay Window Accessories | |
| PV-4H | Top, 10-inch, for insert installation, projects Mantis further into room |
| PVSH | Black Metal Rear Shroud, 5-inch deep, conceals vent pipes on Pedestal Package |
| BFFS-28S-BL | Bay Window Fireplace Screen, Black |
| Floor Pad | May be required for applications over carpet or tile – see dealer |
| Mantis Fireplace and G-Class Accessories <i>(FWK, FIK, and FFK surrounds available in Matte Black, Copper Metallic, Hammered Pewter, or Stainless Steel. FHK surround available in Matte Black and Stainless Steel)</i> | |
| FHK-28 | Mantis Fireplace Louverless In-Wall Surround Kit for use with FF28-BM, FG28-BM |
| FWK-28 | Mantis Fireplace In-Wall Surround Kit for use with FF28-BM, FG28-BM |
| FIK-28 | Mantis Fireplace Insert Surround Kit for use with FI28-BM, IG28-BM |
| FFK-28 | Mantis Fireplace Mantel Surround Kit for use with FF28-BM, FG28-BM |
| FWFS-28SBL | Fireplace Screen, Short, Black (NOTE: For Louverless Surround order FHFS28SBL) |
| EMBF-9S | Cabinet Mantel* |
| EMBC-9S | Corner Cabinet Mantel* |

* Mantels are available in Cherry, Dark Oak, Oak, Nutmeg, Unfinished Hardwood, Unfinished Oak, and White.

Specifications:

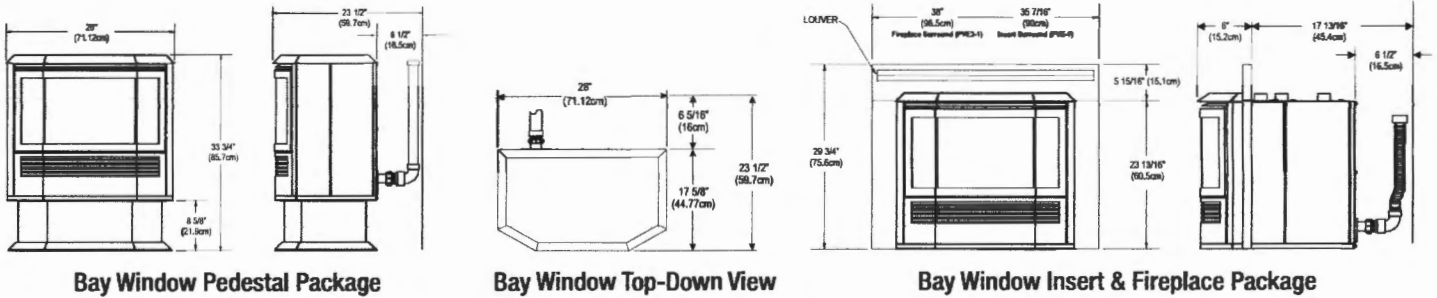
| Btu/H | Bay Window Input/Output |
|---------------------|-------------------------|
| High (Both Burners) | 28,000/25,200 |
| Med (Back Burner) | 19,000/17,100 |
| Low (Front Burner) | 9,000/8,100 |

| Btu/H | Fireplace Input/Output |
|---------------------|------------------------|
| High (Both Burners) | 28,000/25,200 |
| Med (Back Burner) | 15,000/13,500 |
| Low (Front Burner) | 13,000/11,700 |

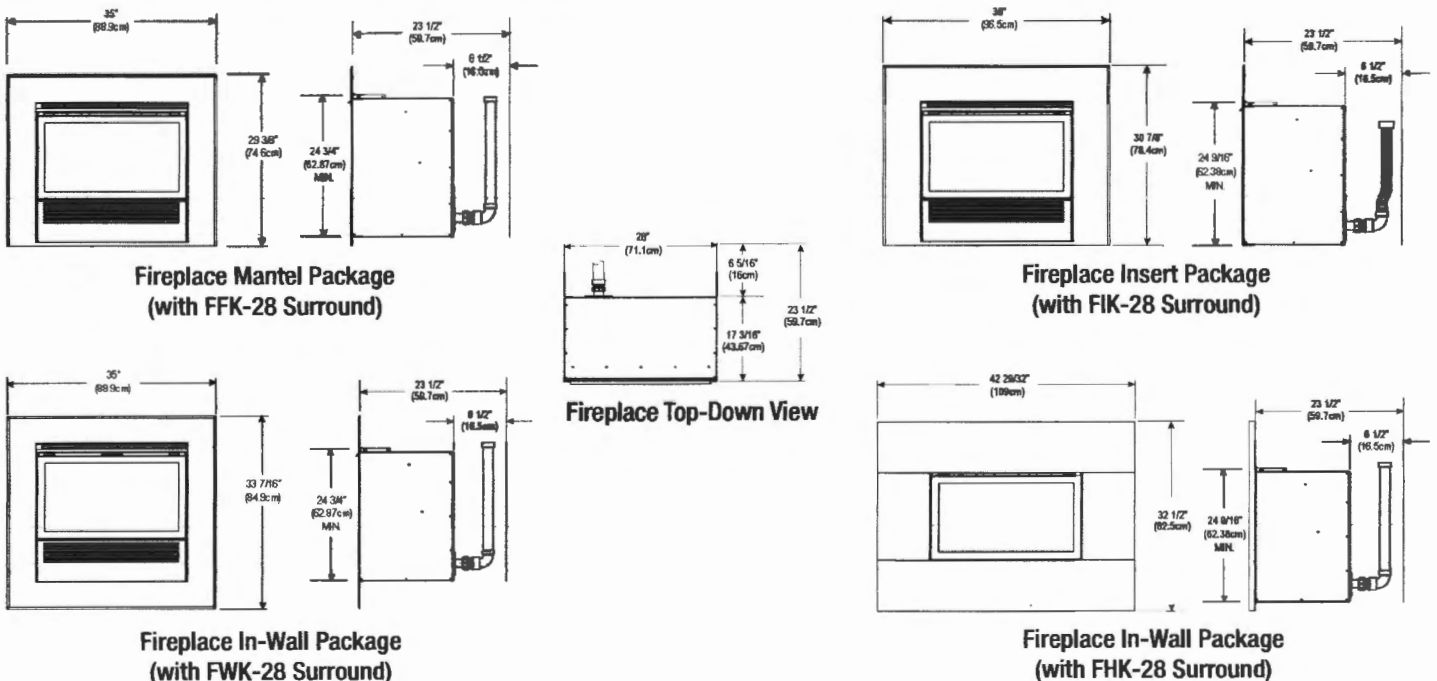
| Btu/H | G-Class Input/Output |
|----------|----------------------|
| High | 20,000/18,000 |
| Med-High | 17,500/15,750 |
| Med | 15,000/13,500 |
| Med-Low | 12,500/11,250 |
| Low | 10,000/9,000 |

| | |
|----------------|--|
| Efficiency | 90+% |
| Fan | 3-Speed Automatic (cycles on only when heat is available) |
| Ignition | Hot Surface (eliminates standing pilot) |
| Humidification | Automatic |
| Heating | Heats up to 1,600 sq ft (actual area will depend on heater position, floorplan, and home insulation) |
| Clearance | Zero Clearance to combustibles |

Mantis Bay Window Dimensions:



Mantis Fireplace and G-Class Dimensions:



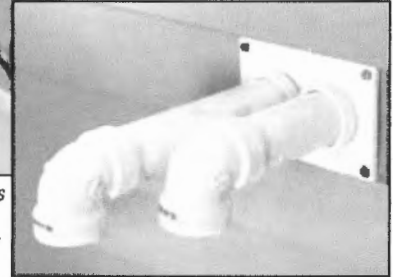
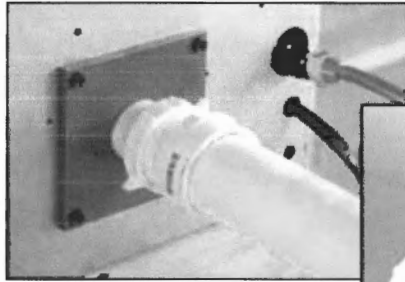
Dimensions in this brochure are approximate; read and follow the framing dimensions in the owners manual supplied with your Empire product.

Versatile Installation

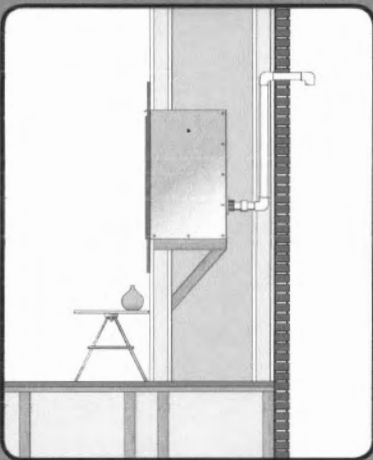
With the power-vented exhaust and intake made from PVC, the venting options are numerous. Install the Mantis as a direct-vent co-axial system, as a direct-vent co-linear, or as a single-vent system.

Any vent configuration may be used with any Mantis package. Using PVC for venting significantly reduces installation time, and requires cutting a much smaller opening in the home's exterior than is required for conventional metal venting. This makes Mantis ideal for any installation, especially for sunrooms, basements, and other applications that demand unobtrusive venting.

Packages include PVC vent adaptors for single and co-linear venting. Lengths of 1 1/2-inch PVC to complete the vent run are available at your local hardware store.

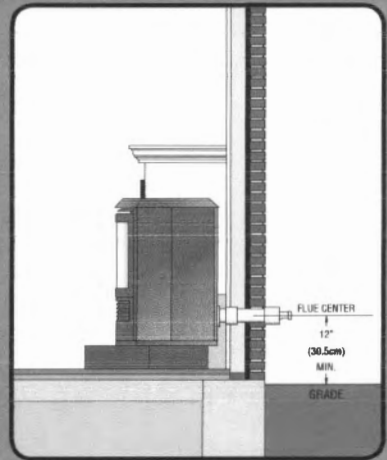


All Mantis packages include PVC vent adaptors for single vent (shown above coming from the unit) and co-linear (shown right on the exterior wall). Vent pipe and elbows not included.



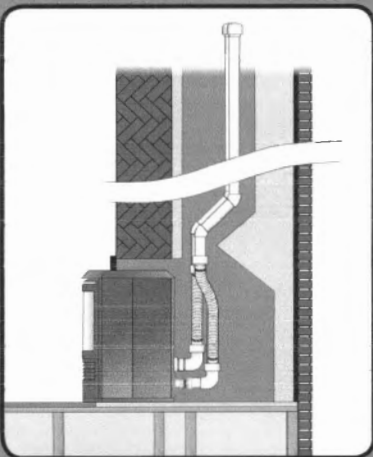
► Zero-Clearance Fireplace Package

Mantis installed with co-axial direct-vent along an outside wall (up to 4 ft). Bay Window model shown with Empire cabinet mantel.



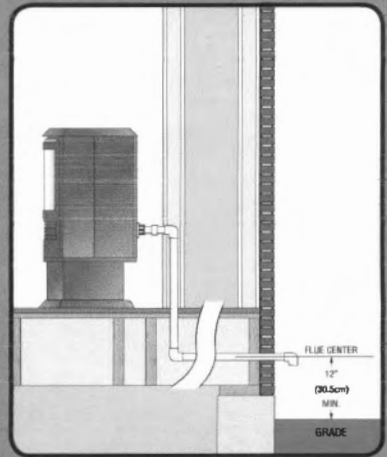
◀ Fireplace Picture Frame Package

Mantis Fireplace installed in-wall with single-vent running up and out through a horizontal termination (up to 40 ft of PVC).



◀ Fireplace Insert Package

Mantis Bay Window installed as an insert in an existing wood-burning or vented gas fireplace, with co-linear direct-vent vertical termination (up to 40 ft of PVC).



► Freestanding Pedestal Stove Package

Mantis Bay Window Pedestal Package installed with single vent running down and out through a basement or crawlspace to a horizontal termination (up to 40 ft of PVC). Single-vent and direct-vent 1 1/2-inch PVC runs can also route up and out an exterior wall or up and out through the roof.



Right: Mantis Fireplace Insert Package with Matte Black Surround

Left: Mantis Bay Window Pedestal Package with Black Window Frame (installed without pedestal)

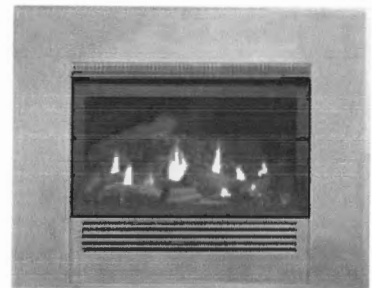
Surround Options and Available Finishes



Mantis Bay Window (BF28-BM) with surround



Mantis Fireplace (FF28-BM) with Mantel Surround (FFK-28)



Mantis Fireplace (FI28-BM) with Insert Surround (FIK-28)



Mantis Fireplace (FF28-BM) with In-Wall Surround (FWK-28)



Mantis Fireplace (FF28-BM) with Louverless Surround (FHK-28)

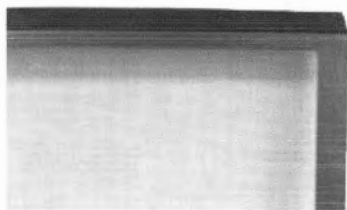
● Matte Black

● Stainless Steel

● Copper Metallic

● Hammered Pewter

Mantis Fireplace Screens



Bay Window Screen (BFFS-28S-BL)
Fireplace Screen (FWFS-28S-BL)
For Louverless Surround (FHFS-28-BL)

Window Frame Color Choices for Mantis Bay Window



Black Frame



Chrome Frame