

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

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

**PERMIT ISSUED:**  
 Issue Date: 05-00\$1  
 398 A001001

Location of Construction: 83 Summit St	Owner Name: White Paul G	Owner Address: 5 Lester Dr	Phone: JAN 12 2005
Business Name: Avery Services, Inc.	Contractor Name: Avery Services, Inc.	Contractor Address: 7 Thomas Drive Westbrook	Phone: 28687
Lessee/Buyer's Name:	Permit Type: HVAC	Zone: R2	

Past Use: Single Family Home	Proposed Use: Single Family Home- Install Carrier Heating & cooling system	Permit Fee: \$237.00	Cost of Work: \$23,985.00	CEO District: 5
Proposed Project Description: Install Carrier Heating & cooling system		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <b>R3</b> Type: <b>HMC</b>	
		Signature: PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	Signature: <b>JMB 1/11/2005</b>	
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Date:	

Permit Taken By: **Idobson** Date Applied For: **01/11/2005**

**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 information may invalidate a building permit and stop all work..	Special Zone or Reviews <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: <b>JMB 1/11/05</b>	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	Historic Preservation <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: <b>JMB</b>
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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.

SIGNATURE OF APPLICANT \_\_\_\_\_ ADDRESS \_\_\_\_\_ DATE \_\_\_\_\_ PHONE \_\_\_\_\_

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE \_\_\_\_\_ DATE \_\_\_\_\_ PHONE \_\_\_\_\_

7/20/05 - Footing / Subgrade - ok @

7/27/05 - Backfill - ok @

10/8 - Churn

@ Need Specs on Steel Flans  
 @ Need Mason Churny Cert.  
 Will need Rear auto weld, meet code  
 Dept Secondary to allow for Garage  
 Floor windows in bedroom &  
 Porch and Glass in 2nd floor. Bathroom &  
 Plumbing vent pipes and Trench Roof get

1/7/05 - ~~Churn Churny Cert.~~  
~~Steel Steel Specs.~~  
~~Need Mech. Plans for AS~~  
~~Need Paper for permit~~

6/2/12/05  
 @ These are not go at all. Need Tuffix Sheesh  
 Floor, they have many which holds the wooden strips  
 and if water seeps need damp barrier pip  
 Seal lights, masonry temp, must be boxed  
 Above #2 (ok at job)

1/12/05 ok for temp of 8 to 6/1/05

83 Summit  
 ALPHA  
 37 Rowland  
 West

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

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

Permit No: 05-0031

PERMIT ISSUED:  
Issue Date: 398 A001001

Location of Construction: 83 Summit St	Owner Name: White Paul G	Owner Address: 5 Lester Dr	Phone: 398 A001001
Business Name: Avery Services, Inc.	Contractor Name: Avery Services, Inc.	Contractor Address: 7 Thomas Drive Westbrook	Phone: 28687
Lessee/Buyer's Name:	Permit Type: HVAC	Zone: R2	

Past Use:  
Single Family Home

Proposed Use:  
Single Family Home- Install Carrier Heating & cooling system

Proposed Project Description:  
Install Carrier Heating & cooling system

Permit Fee: \$237.00  
Cost of Work: \$23,985.00  
CEO District: 5

FIRE DEPT:  Approved  Denied

INSPECTION:  
Use Group: R3 Type: HVAC

Signature: ME Eco Rules

Signature: JMB 1/11/05

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action:  Approved  Approved w/Conditions  Denied

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Permit Taken By: Idobson  
Date Applied For: 01/11/2005

**Zoning Approval**

<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: JMB 1/11/05</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 District 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: JMB</p>
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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

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 83 Summit St 388 A1 Use of Building HOME Date 1-11-05  
Name and address of owner of appliance Paul White

Installer's name and address 83 Summit  
7 THOMAS DC WESTBANK ME 04074 Telephone 772-8687

**Location of appliance:**

- Basement
- Floor
- Attic
- Roof

**Type of Fuel:**

- Gas
- Oil
- Solid

**Appliance Name:** Garmin

U.L. Approved  Yes  No

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

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

**The Type of License of Installer:**

- Master Plumber # \_\_\_\_\_
- Solid Fuel # \_\_\_\_\_
- Oil # \_\_\_\_\_
- Gas # PAW-1439
- 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: \$ 23,985

Permit Fee: \$ 237.00

Approved

Approved with Conditions

See attached letter or requirement

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

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

Bldg.: JMB

Signature of Installer Michael Sedy

Inspector's Signature \_\_\_\_\_

Date Approved \_\_\_\_\_

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

**City of Portland, Maine - Building or Use Permit Application**  
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-00011

Issue Date: [Redacted]

398 A001001

Owner Name: White Paul G

5 Lester Dr

Contractor Name: Avery Services, Inc.

7 Thomas Drive Westbrook ME 04092

Phone: [Redacted]

Permit Type: HVAC

Zone: R2

**PERMIT ISSUED:**

JAN 12 2005

CITY OF PORTLAND

200728687

Permit Fee: \$237.00

Cost of Work: \$23,985.00

CEO District: 5

FIRE DEPT:  Approved  Denied

INSPECTION: Use Group: R3 Type: HVAC

Signature: ME Gas Rules

Signature: JMB 1/11/05

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action:  Approved  Approved w/Conditions  Denied

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Proposed Use: Single Family Home- Install Carrier Heating & cooling system

Proposed Project Description: Install Carrier Heating & cooling system

Date Applied For: 01/11/2005

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Special Zone or Reviews <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: JMB 1/11/05	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	Historic Preservation <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: JMB
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SIGNATURE OF APPLICANT: \_\_\_\_\_ ADDRESS: \_\_\_\_\_ DATE: \_\_\_\_\_ PHONE: \_\_\_\_\_

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_ PHONE: \_\_\_\_\_

# City of Portland, Maine - Building or Use Permit

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

Location of Construction:		Permit No:	Date Applied For:	CBL:
83 Summit St		05-0031	01/11/2005	398 A001001
Business Name:	Owner Name:	Owner Address:	Phone:	
	White Paul G	5 Lester Dr		
Lessee/Buyer's Name	Contractor Name:	Contractor Address:	Phone	
	Avery Services, Inc.	7 Thomas Drive Westbrook	(207) 772-8687	
	Phone:	Permit Type:		
		HVAC		
Proposed Use:	Proposed Project Description:			
Single Family Home- Install Carrier Heating & cooling system	Install Carrier Heating & cooling system			
Dept: Zoning	Status: Approved	Reviewer: Jeanine Bourke	Approval Date: 01/11/2005	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
Dept: Building	Status: Approved	Reviewer: Jeanine Bourke	Approval Date: 01/11/2005	Ok to Issue: <input checked="" type="checkbox"/>
Note:	1) The installation must comply with the State of Maine Gas Regulations.			

# PROPOSAL 571

**AVERY SERVICES, INC.**  
7 Thomas Drive  
WESTBROOK, MAINE 04092  
(207) 772-8667

**FAX (207) 874-0933**

TO: Chamberlain Construction  
1022 Portland Road  
Saco ME 04072

PHONE 282-7377/Fax 282-6568	DATE 8/11/04
JOB NAME / LOCATION White Residence Gas Fired Furnace	

JOB NUMBER MSD - 470226	JOB PHONE
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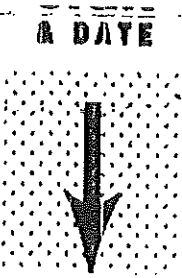
We hereby submit specifications and estimates for:

Avery Services, Inc. is pleased to submit a quote to do the following work:

- Provide & install a Carrier 58MVP gas fired furnace with variable speed blower that uses 80% less electricity & is 12 times quieter than a standard unit.
- Provide & install PVC flue venting.
- Provide & install gas piping to the furnace, Continuum & one other appliance, i.e. fireplace.
- Provide & install a Carrier cased cooling coil.
- Provide & install a Carrier Puron condensing unit (12 SEER) on a polymer pad. Low voltage wiring included.
- Provide & install refrigerant lines between the two components.
- Provide & install a Carrier mechanical air cleaner.
- Provide & install a Carrier bypass humidifier.
- Provide & install a Carrier Comfort Zoning System comprised of six zones.
- Provide & install a galvanized duct work system comprised of up to seven ceiling supplies and two ceiling returns on the second floor. On the first floor there will be up to seven floor supplies and one floor return grille. All duct work in the attic area will be wrapped with 1-1/2" insulation with a vapor barrier.
- Provide & install a Continuum on demand hot water heater with gas piping and flue venting.

**EXCLUSIONS:** Power wiring, carpentry, structural

\* Add Infrared as no cost per Mike.



We Propose hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of: Twenty Three Thousand Nine Hundred Eighty Five and 00/100 Dollars dollars (\$ 23,985.00 ).  
Payment to be made as follows:

**25% Upon acceptance - Progress billing/net 10 days - All balances due at completion.**

**If payment is not made as outlined above, a service charge of 2% per month on the overdue balance plus all reasonable costs of collection, including attorney's fees will be paid.**

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

Authorized Signature

*[Handwritten Signature]*  
Note: This proposal may be withdrawn by us if not accepted within thirty days.

**Acceptance of Proposal**—The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

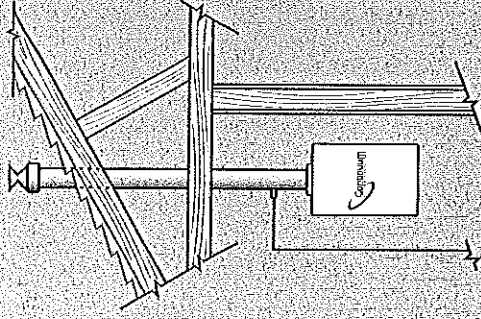
Signature *[Handwritten Signature]*

Date of Acceptance: \_\_\_\_\_

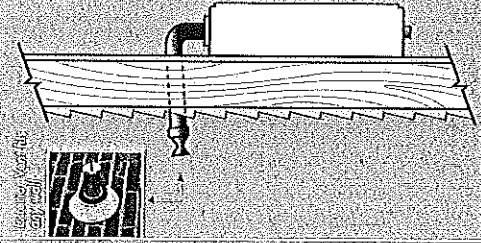
# AVAILABLE INSTALLATIONS

- When the Rinnai Continuum is installed on an exterior wall, it requires no additional venting accessories.
- For indoor installations, the Rinnai Continuum exhausts air through a 3" pipe within the center of a 3" concentric air intake pipe.
- This Rinnai advantage results in only one wall or roof penetration, and it uses no indoor makeup air.

Interior - roof penetration



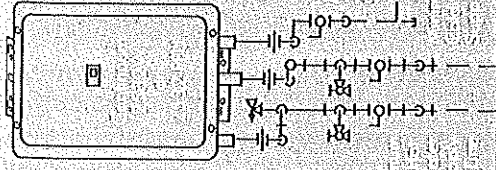
Interior - wall penetration



Exterior - wall mount



Custom Recessed Installation



## SPECIFICATIONS

Maximum/Minimum Gas Rate (Input BTU's)  
 Energy Factor (EF)  
 Hot Water Capacity Range  
 Maximum Hot Water Capacity (35°F Rise)  
 Maximum Hot Water Capacity (77°F Rise)  
 Maximum Hot Water Capacity (90°F Rise)  
 NOx Emissions (At 3% O<sub>2</sub>)  
 Setpoint Temperature (Without Remote)  
 Temperature Range With Remote  
 Key Pads Connected

## V2532W

199,000 BTU's - 15,000 BTU's  
 Natural Gas: 0.82 Propane: 0.84  
 0.5 to 8.5 GPM  
 8.45 GPM (507 GPH)  
 4.26 GPM (256 GPH)  
 3.64 GPM (219 GPH)

Less Than 40 PPM  
 Factory Setting - 120°F  
 MC Controller: 96-140°F  
 BC and BSC Controller: 96-120°F

## V2532FFU

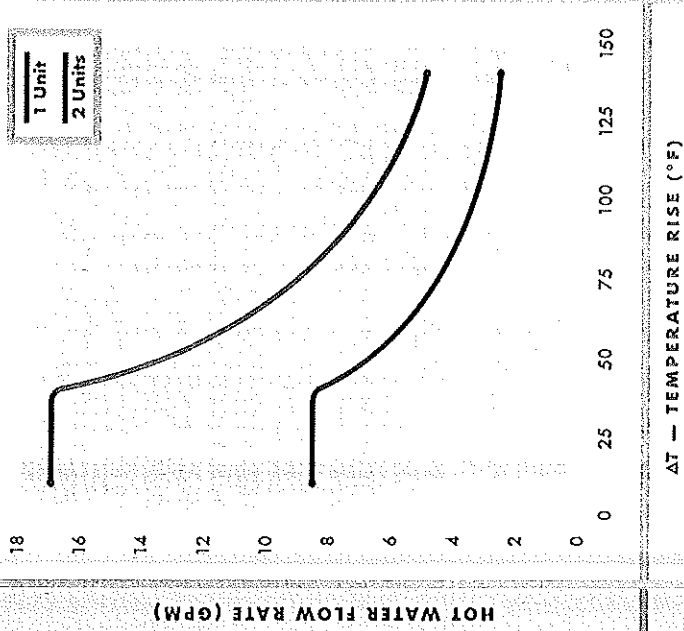
180,000 BTU's - 15,000 BTU's  
 Natural Gas: 0.82 Propane: 0.87  
 0.5 to 8.5 GPM  
 8.45 GPM (507 GPH)  
 3.87 GPM (232 GPH)  
 3.30 GPM (198 GPH)

NOTE: Data shown in the table and chart is for 2532W water heaters. Flows for 2532FFU water heaters are slightly less, but may be approximated using the table and chart.



**Meets the low NOx emissions requirements, for water heaters.**

Temperature Rise [°F]	Rinnai 2532 Water Heaters - Manifold Installations			
	1 Unit GPM	1 Unit GPH	2 Units GPM	2 Units GPH
140	2.4	143.3	4.8	286.6
135	2.5	148.6	5.0	297.2
130	2.6	154.3	5.1	308.6
125	2.7	160.5	5.3	320.9
120	2.8	167.2	5.6	334.3
115	2.9	174.4	5.8	348.9
110	3.0	182.4	6.1	364.7
105	3.2	191.0	6.4	382.1
100	3.3	200.6	6.7	401.2
95	3.5	211.1	7.0	422.3
90	3.7	222.9	7.4	445.8
85	3.9	236.0	7.9	472.0
80	4.2	250.7	8.4	501.5
75	4.5	267.5	8.9	534.9
70	4.8	286.6	9.6	573.1
65	5.1	308.6	10.3	617.2
60	5.6	334.3	11.1	668.6
55	6.1	364.7	12.2	729.4
50	6.7	401.2	13.4	802.4
45	7.4	445.8	14.9	891.5
40	8.4	501.5	16.7	1003.0
35	8.5	507.0	16.9	1014.0
30	8.5	507.0	16.9	1014.0
25	8.5	507.0	16.9	1014.0
20	8.5	507.0	16.9	1014.0
15	8.5	507.0	16.9	1014.0
10	8.5	507.0	16.9	1014.0



Rinnai.

**Continuum®**  
 NEVER RUN HOT DI-BAL WATER AGAIN

FOR MORE INFORMATION OR FREE DEMONSTRATION CONTACT US AT: 1-866-RINNAI-1 (1-866-746-6241)  
 OR VISIT OUR WEB SITE AT [www.foreverhotwater.com](http://www.foreverhotwater.com)





## Safety And Convenience

With old technology water tanks you can only set the temperature once, at the highest setting required in your home. This can be dangerous, particularly for young and elderly people. The Continuum Hot Water System allows you to set the temperature, so there is no more scalding.



## For More Information

The Continuum Hot Water Heating System can make your customers' home a safer and more efficient home. You can provide them with the luxury of controllable, endless hot water.

For more information contact Rinnai at:

1-866-RINNAI-1

(1-866-746-6241)

or visit our web site at:

[www.foreverhotwater.com](http://www.foreverhotwater.com)

# HEY WANT.

Rinnai



### Model 2532W External Residential

#### FEATURES

- 15,000 TO 199,000 BTUH Capacity (No Pilot Light With Our Direct Electronic Ignition)
- 5 to 8.5 Gallons Per Minute Delivered Endlessly
- Natural Gas or Propane Models Available
- External Installation With No Indoor Combustion
- 9" Depth, 14" Width, 24" Height
- Easily Installed

#### CABINET

- Heavy Gauge, Textured, White Powder Coated Cabinet

#### VENTING

- External - No Venting Required

#### WARRANTY

- Exceptional 10-Year Limited Warranty On The Heat Exchanger and a 5-Year Warranty On All Other Parts

Rinnai



Model 2532W

External Residential

15,000 TO 199,000 BTUH Capacity

5 to 8.5 GPM

9" Depth, 14" Width, 24" Height

External Venting

10-Year Limited Warranty

On Heat Exchanger

5-Year Warranty

On All Other Parts

### Model 2532-FFU Internal Residential

#### FEATURES

- 15,000 TO 180,000 BTUH Capacity (No Pilot Light With Our Direct Electronic Ignition)
- 5 to 8.5 Gallons Per Minute Delivered Endlessly
- Natural Gas or Propane Models Available
- Internal Installation With No Indoor Combustion
- 9" Depth, 14" Width, 24" Height
- Easily Installed

#### CABINET

- Heavy Gauge, Textured, White Powder Coated Cabinet

#### VENTING

- Internal - Direct Vent

#### WARRANTY

- Exceptional 10-Year Limited Warranty On The Heat Exchanger and a 5-Year Warranty On All Other Parts

Rinnai



Model 2532-FFU

Internal Residential

15,000 TO 180,000 BTUH Capacity

5 to 8.5 GPM

9" Depth, 14" Width, 24" Height

Internal Venting

10-Year Limited Warranty

On Heat Exchanger

5-Year Warranty

On All Other Parts



# 58MVP

Carrier Corporation • Syracuse, N.Y. 13221  
SUBJECT TO CHANGE WITHOUT NOTICE

## WEATHERMAKER™ INFINITY 4-WAY MULTIPOISE VARIABLE-CAPACITY DIRECT-VENT CONDENSING GAS FURNACE

The 58MVP Variable-Capacity Condensing Gas Furnace features ComfortHeat™ Technology and IdealHumidity™ that controls a 2-stage gas valve, variable-speed blower motor, and variable-speed inducer motor, for maximum heating comfort, quiet operation, humidity control, and ultra-high annual fuel utilization efficiency (AFUE) of up to 96.6 percent. The unit is CSA (A.G.A. and C.G.A.) certified for installation on combustible flooring and in alcoves, basements, closets, attics, crawlspaces, garages, or utility rooms. The 58MVP can be installed in upflow, downflow, or horizontal applications, and can be used in conjunction with a Split-System product for cooling. The direct-vent, sealed-combustion system uses 100 percent outdoor air for combustion. A Carrier Thermostat™ Control, humidifier, and air cleaner can be used to form a complete controlled environment system. All units meet California air quality management district emission requirements. All sizes are design certified in Canada.



*IdealHumidity*  
SYSTEM



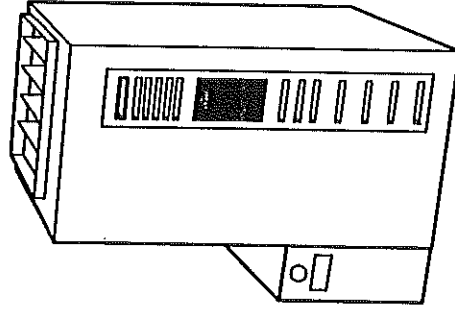
*ComfortHeat*  
TECHNOLOGY

### STANDARD FEATURES

- Factory-configured ready for upflow applications
- 4-way multipoise design for upflow, downflow, or horizontal installation
- ComfortHeat™ Technology Control
- Integral part of the IdealHumidity™ System
- SmartEvap™ can lower the humidity level in the home by nearly 10%
- Monoport inshot burners with hot surface ignition
- Propane convertible
- Variable-speed blower and inducer motors, 2-stage slow opening gas valve, and self-diagnostics
- Adjustable blower speed for cooling, continuous fan, and dehumidification
- Aluminum-steel primary heat exchanger
- Serpentuff™ polypropylene-laminated condensing heat exchanger
- Fully insulated casing including blower section
- Convenient electronic air cleaner and humidifier connections
- Media Filter Cabinet included
- ComfortFan™ allows control of continuous fan speed from the thermostat
- Installation flexibility: sidewall or vertical vent
- Ultra quiet: no special noise or vibration isolation measures are required
- Sealed combustion uses outside air for combustion
- Up to 80 percent less electrical use than standard models
- Residential installations eligible for consumer financing through the Retail Credit Program

### LIMITED WARRANTY

- Limited lifetime warranty on heat exchangers
- 5-year parts warranty on all other components



A00204



AS AN ENERGY STAR® Partner,  
Carrier Corporation has determined  
that this product meets the  
ENERGY STAR® guidelines for  
energy efficiency.



UL  
Listed Corporation  
REGISTERED  
ISO 9001

QUALITY SYSTEM



ODS CATALOG ORDERING NO.*	RATED HEATING OUTPUT (BTUH)		HEATING		COOLING CFM @ 0.5 ESP**	MOTOR HP (VARIABLE SPEED)	MEDIA CABINET SUPPLIED (IN.)	APPROX SHIP. WT(LB)	PRICE
	Low	High	CFM†Low/High	ESP					
58MVP040-F-1-14	25,000	37,000	565 (650†) / 780	0.10	1400	1/2	24	231	1779
58MVP060-F-1-14	36,000	56,000	515 (590†) / 1010	0.12	1400	1/2	16	189	1836
56MVP080-F-1-14	49,000	75,000	690 (795†) / 1345	0.15	1400	1/2	20	218	1958
58MVP080-F-1-20	49,000	75,000	690 (795†) / 1345	0.15	2000	1/2	20	221	2082
58MVP100-F-1-20	61,000	93,000	860 (990†) / 1425	0.20	2000	1	20	243	2182
58MVP120-F-1-20	73,000	112,000	1035 (1190†) / 1710	0.20	2000	3/4	24	270	2303

\*14 designates 1400 CFM air model. 20 designates 2000 CFM air model.

† Capacity in accordance with DOE test procedures.

‡ Low heat CFM when bypass humidifier switch (SW1-3) on control board is used

~ Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery table - in Product Data Digest - for other options.  
ESP-External Static Pressure

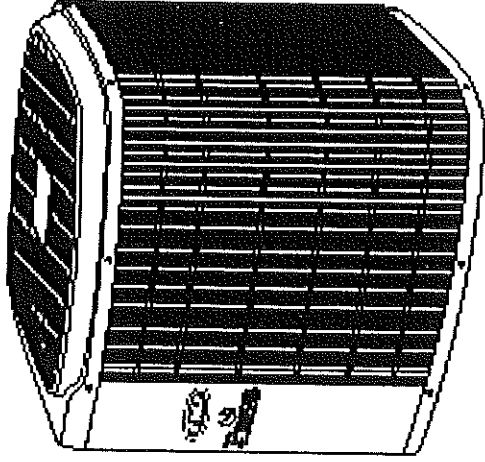


# 38TZA with Puron® Refrigerant

Carrier Corporation • Syracuse, N.Y. 13221  
SUBJECT TO CHANGE WITHOUT NOTICE

## 38TZA WeatherMaker® AIR CONDITIONER with PURON® refrigerant

The model 38TZA air conditioner incorporates Puron® refrigerant to provide quiet, efficient operation with a standard cooling efficiency of 12 SEER. Consult the PD for performance ratings. Additional features include WeatherArmor™ coil protection, High and Low Pressure switches for compressor protection and a standard 16 cubic inches filter drier for improved compressor reliability.



requirements. Refer to the combination ratings in the product data digest

### STANDARD FEATURES

- SEER up to 13+ with specified Carrier equipment
- Copper tube aluminum fin coil
- External brass back seating service valves with sweat connections

### Silencer System™ for extra quiet operation:

- Compressor sound hood
- Silencer™ top design
- Compressor vibration isolator plate
- Slit Post Compressor Grommets

### WeatherArmor™ condenser coil grille

- Easy to Clean-Natural Clean
- Lower Maintenance Costs
- Unit maintains higher lifetime efficiency over the competition
- Powder paint finish
- Ceramic-coated cabinet screws

### Reliability, Quality, and Toughness:

- Heat pump style base pan
- Totally enclosed PSC fan motor (024, 036-060 sizes)
- Solid-state outdoor ambient sensor
- Compressor internal pressure relief
- Compressor internal overloads
- Self-diagnostics
- Liquid line filter drier (factory supplied)
- High- and low-pressure switches

### LIMITED WARRANTY

- 5-year parts limited warranty on entire unit
- 10-year parts limited warranty on compressor
- Several extended warranty options available

A01021



US



REGISTERED  
QUALITY  
SYSTEM



As an ENERGY STAR® Partner, Carrier Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.\*

\*Only those system combinations that meet Energy Star® efficiency



**Puron**  
the environmentally sound refrigerant

ODS CATALOG ORDERING NO.	NOMINAL COOLING SIZE	VOLT-PHASE (60 HZ)	OPERATING VOLTAGE RANGE	PACKAGED DIMENSIONS (IN.) H X W X D*	APPROX SHIP. WT (LB)	PRICE
38TZA018-3	018	208/230-1	187-253	31 X 31 X 36	205	1275
38TZA024-3	024	208/230-1	187-253	31 X 31 X 36	210	1385
38TZA030-3	030	208/230-1	187-253	31 X 31 X 36	210	1621
38TZA036-3	036	208/230-1	187-253	31 X 31 X 36	213	1839
38TZA042-3	042	208/230-1	187-253	31 X 31 X 36	214	1963
38TZA048-3	048	208/230-1	187-253	31 X 31 X 36	216	2239
38TZA060-3	060	208/230-1	187-253	43 X 31 X 36	258	2525

\* All units individually skidded for shipment.

PC101  
CATALOG NO. 503-80029

SUPERSEDE DATE 01/07/202

EFFECTIVE DATE 12/30/2002  
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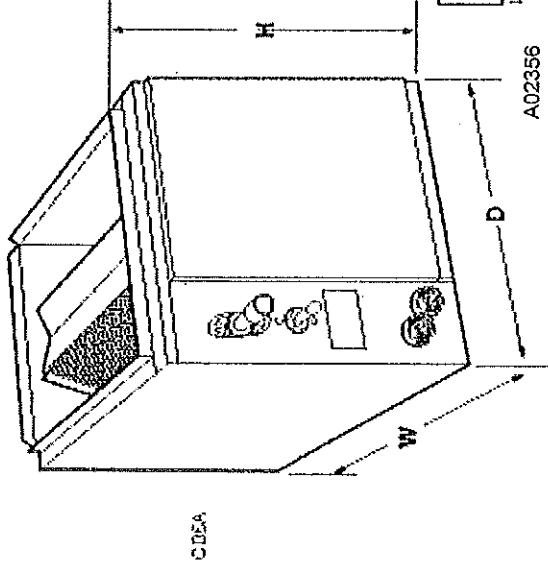


# CD5A/P

Carrier Corporation • Syracuse N.Y. 13221  
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Model CD5A Cased A-Coils are designed for either upflow or downflow applications. The casing is pre-painted steel.

The coils are equipped with an AccuRater® for refrigerant metering, sweat type connections, and have grooved copper tube/aluminum plate fin design. A thermo-plastic condensate pan has primary and secondary drain connections.



### STANDARD FEATURES

- Painted finish casing matches furnace
- Brass inserts for leak-free condensate connections
- Easily attaches to furnace
- AC and Heat pump duty coil with AccuRater®
- Coil designed to meet strict condensate removal requirements
- Grooved copper tube/aluminum fin
- Sweat refrigerant connections
- Works with R-22 or Puron®

### LIMITED WARRANTY

- 5 year warranty on all parts



ISO 9001

Cert. 12 100 7854 TMS



OPTIONAL EXTENDED WARRANTIES	NET PRICE
Labor Only — 2nd through 5th year Parts and Labor — 6 <sup>th</sup> through 10 <sup>th</sup> year (requires 2 <sup>nd</sup> through 5 <sup>th</sup> year labor) Parts Only — 6th year through 10th year Purchase within 5 years from date of installation	See <b>Optional Warranty Price Section</b>



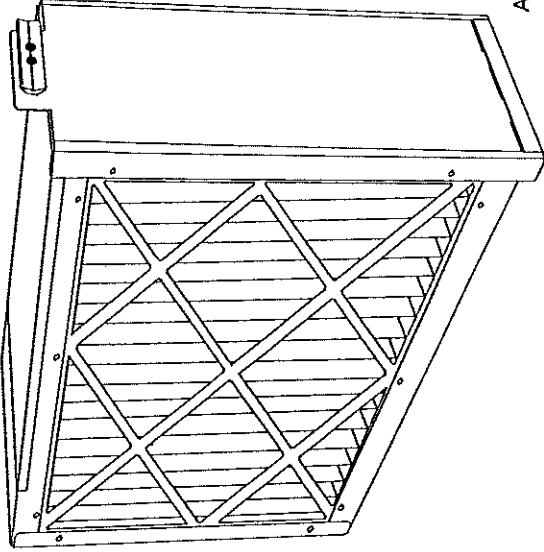
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Limited Availability

# MACA

### MECHANICAL FILTER AIR CLEANER

The Model MACA Efficient Mechanical Air Cleaner is designed for installation in the return-air duct of any forced-air heating/cooling system. It is designed for use in systems with airflow up to 2000 CFM. The Model MACA is available in 3 sizes, 1200, 1400, and 2000 CFM. The model MACA features a non-woven radial pleating of its highly efficient synthetic filter media to clean the air of particles as small as 0.3 microns.



A98152

### STANDARD FEATURES

- Pre-painted steel cabinet
- Pleated media filter
- System friendly pressure drop
- High cleaning efficiency
- Silent operation
- No ozone generation
- No electricity consumption
- Eligible for consumer financing
- Protects heating and cooling equipment

### LIMITED WARRANTY

- 10-year (filter not included)

ODS CATALOG ORDERING NO.	DESCRIPTION	APPROX SHIP. WT (LB)	PRICE
MACAXCCCX012	Efficient Mechanical Air Cleaner 600-1200 CFM	15	107

EXTENDED WARRANTIES	NET PRICE
Parts and Labor - 2nd through 5th year, 2nd through 10th year Parts Only - 2nd through 5th year Mechanical Air Cleaner warranty available at NO ADDITIONAL CHARGE when accompanied with an extended warranty registration for an eligible system.* Purchase within 5 years from date of installation.	See Optional Warranty Price Section

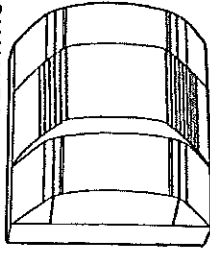
\* See warranty pricing sheets for eligibility.

ACCESSORIES		
ACCESSORY	ODS CATALOG ORDERING NO.	DESCRIPTION
Cartridge Filter Media Kit	KEAF L0101012	Replacement pleated media filters
		PRICE
		23



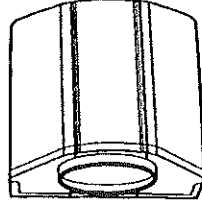
# HUM

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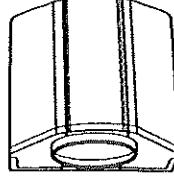


Large Fan Power  
Model HUMCCLFP1218

*(Requires field-provided 24-volt relay)*



Large Bypass  
Model HUMCCLBP2217



Small Bypass  
Model HUMCCSBP2212

## FEATURES/BENEFITS

**EASY ACCESS FOR CLEANING AND MAINTENANCE** – The treated aluminum pad ensures top performance. Front access door allows for quick and convenient removal and replacement of pad.

**SMOOTH, LOW NOISE OPERATION** – Nearly silent operation is the result of Carrier's precision-engineered fan and motor combination. Air is drawn through the evaporator pad quietly and efficiently, turning water into the water vapor that humidifies your home.

**LONG LASTING, ATTRACTIVE COVER** – The outside casing of all Carrier humidifiers are made from durable UV Resistant Plastic. This plastic resists deterioration, even when exposed to ultra-violet light sources common in many systems.

**OPTIMAL DISTRIBUTION OF MOISTURE** – Through the combination of Carrier's solenoid valve and water distribution system, your home will benefit from the optimal distribution of moisture.

**THREE HUMIDITY CONTROL OPTIONS** – Choose between three separate control options – the Humidistat, the HumidTrac™, and the Thermidstat™ Control. Each of these controls provides precise control over the humidity levels in your home.

## FAN AND BYPASS HUMIDIFIERS

ODS CATALOG ORDERING NO.	CAPACITY	POWER SUPPLY	APPROX SHIP. WT (LB)	PRICE
HUMCCLFP1218	18 gal / day	120V/60Hz/1Ph & 24V	17	254
HUMCCLBP2217	17 gal / day	24V/60Hz/1Ph	12	157
HUMCCSBP2212	12 gal / day	24V/60Hz/1Ph	11	146

\* Rated in accordance with ARI standard 610-96.

NOTE: Residential installations eligible for consumer financing through the Comfort Credit Program.

## EXTENDED WARRANTIES

Labor - 2nd through 5th year; 2nd through 10th year Humidifier warranty available at NO ADDITIONAL CHARGE when accompanied with an extended warranty registration for an eligible system.\* Purchase within 5 years from date of installation.

\* See warranty pricing sheets for eligibility.

EXTENDED WARRANTIES	NET PRICE
See Optional Warranty Price Section	

## HUMIDIFIER ACCESSORIES

DESCRIPTION	ODS ORDERING NO.	USED WITH	PRICE
HumidTrac™ Automatic Control	KUAWC0101CAC-1	HUMCCLFP1218 HUMCCLBO2217 HUMCCSBP2212	51

## \*HUMIDIFIER REPLACEMENT EVAPORATOR PADS

DESCRIPTION	TOTAL LINE® ORDERING NO.	USED WITH	*PRICE
Replacement Evaporator Pad	P110-3545	HUMCCLFP1218 HUMCCLBP2217 HUMCCSBP2212	
Replacement Evaporator Pad	P110-1045		

\*Please refer to Parts Department for pricing.

PC101

SUPERSEDES DATE 1/01/2002

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