

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that BACM 2007-3 WHARF ST., LLC

Located At 50 WHARF ST

Job ID: 2012-04-3683-HVAC

CBL: 032-V-014-001

has permission to Install a Comfort Air 2-ton A/C rooftop unit at 9 Union St for Beauty Salon 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

4/30/12

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-04-3683-HVAC	Date Applied: 4/4/2012	CBL: 032- V-014-001	
Location of Construction: 50 WHARF ST / 9 UNION ST	Owner Name: BACM 2007-3 WHARF ST., LLC	Owner Address: ONE CANAL PLAZA, PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: THOMAS SMAR @ COASTLINE AIR MECH. LLC	Contractor Address: P.O. BOX 125 WESTBROOK MAINE 04098	Phone: (207) 232-0113
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: B-3
Past Use: 1 st floor restaurant (Havana South) 2 nd floor personal service (Shine)	Proposed Use: Same: 1 st floor restaurant 2 nd floor personal service – to install Comfort Air 2 ton air conditioner	Cost of Work: \$4,000.00	CEO District:
		Fire Dept: <input type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>Capt Shine 4/12/12</i>	Inspection: Use Group: B Type: HVAC Signature: <i>[Signature]</i>
Proposed Project Description: Install Comfort Air A/C 9 Union St		Pedestrian Activities District (P.A.D.) <i>4/30/12</i>	
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	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Date: <i>4/4/12</i>	<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:	- <i>within</i> - <input type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>4/9/12</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

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.**

Final Electrical 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

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

Acting Director of Planning and Urban Development
Gregory Mitchell

Job ID: 2012-04-3683-HVAC

Located At: 50 WHARF ST

CBL: 032- V-014-001

Conditions of Approval:

Historic

1. All rooftop mechanical equipment shall be moved as far away from the edges of the building as possible to limit visibility.

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
2. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.

Fire

2. Installation shall comply with City Code Chapter 10.
3. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;
4. NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;
5. NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.



FILL IN AND SIGN WITH INK

Entered 4/4/12

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

ID# 2012 04 3683 - HVAC

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 9 Union St / 50 Wharf Use of Building Retail B3 Date 4/4/12
 Name and address of owner of appliance BACM 2007-3 Wharf St, LLC
C/O CBRE - The Bonus Company "Shay" One Canal Plaza
 Installer's name and address Coastline Air Mech LLC
PO Box 125 Westbrook, ME 04098 Telephone 207-232-0113 Tom

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Call where done

Type of Fuel:

- Gas
- Oil
- Solid

A/C ONLY!

Appliance Name:

Comfort Aire 2-TON

U.L. Approved Yes No

A/C

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 # _____
- Other RNT # 2671
RSES Certification

ID# 119402623

Type of Chimney:

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

Type of Fuel Tank:

- Oil
- Gas

Size of Tank

Number of Tanks

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 3'600.00 4000

Permit Fee: \$ 60.00

RECEIVED
APR 04 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

Thomas J. Smarck



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 2663

Tender Amount: 50.00

Receipt Header:

Cashier Id: bsaucier

Receipt Date: 4/4/2012

Receipt Number: 42527

Receipt Details:

Referance ID:	5935	Fee Type:	BP-HRAD
Receipt Number:	0	Payment Date:	
Transaction Amount:	50.00	Charge Amount:	50.00
Job ID: Job ID: 2012-04-3683-HVAC - Install Comfort Air A/C 9 Union St			
Additional Comments: 9 Union/50 Wharf			

Thank You for your Payment!



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 2662

Tender Amount: 60.00

Receipt Header:

Cashier Id: bsaucier

Receipt Date: 4/4/2012

Receipt Number: 42526

Receipt Details:

Referance ID:	5934	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	60.00	Charge Amount:	60.00
Job ID: Job ID: 2012-04-3683-HVAC - Install Comfort Air A/C 9 Union St			
Additional Comments: 9 union/50 Wharf			

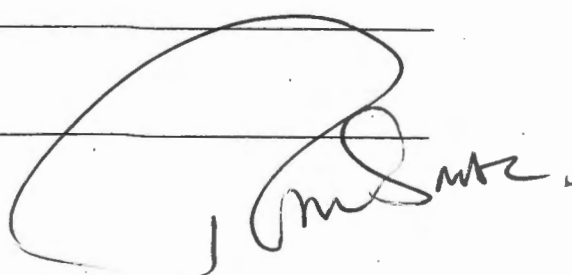
Thank You for your Payment!

Projects in Historic Districts

Has attached
files?
Deb

If your project affects a property located within a designated historic district, please provide the following supplemental information, *as applicable to your project*. Keep in mind that the information you provide Historic Preservation staff is the only description they will have of your project or design. Therefore, it should precisely illustrate the proposed alteration(s).

- Exterior photographs (required for all applications.) Include general streetscape view, view of entire building & close-ups of affected area.
- Sketches or elevation drawings at a minimum 1/4" scale. Please label relevant dimensions. 11" x 17" plans are recommended for legibility.
- Details or sections, where applicable.
- Floor plans, where applicable.
- Site plan showing relative location of adjoining structures.
- Catalog cuts or product information (e.g. proposed windows, doors, lighting fixtures)
- Materials - list all visible exterior materials. Samples are helpful.
- Other(explain) _____



If you have any questions or need assistance in completing this form, please contact Historic Preservation staff: Deb Andrews (874-8726) or by e-mail at dga@portlandmaine.gov

HELEN WATTS ENGINEERING

455 Litchfield Road
Bowdoin, ME 04287
(207) 522-9366 · fax (207) 666-3920
hcwatts@gwi.net

March 30, 2012

BACM 2007-3 Wharf Street, LLC
C/O CBRE – The Boulos Company,
One Canal Plaza
Portland, ME 04101

RE: 9 Union Ductless Split System
Installation; HCW Project No. 12-01



Dear Shay:

At your request, I inspected the visible structural framing of the roof of 9 Union Street in Portland, Maine. This space is to be leased as a beauty salon, and Coastline Air Mechanical Services will be installing a small split HVAC system to condition the space. The purpose of this inspection is to determine if the framing is adequate to support the new equipment. Access was provided by Ms. Lattari of Boulos Property Management and Coastline provided a ladder for roof access. The applicable code for the City of Portland is the City of Portland, Maine Code of Ordinances, which is based on the MUBEC.

The building is a one-story building on the corner of Union Street and Wharf Street. The building has multi-wythe brick masonry load-bearing exterior walls and a timber-framed roof with wood rafters and wood plank sheathing. There is a 1-2-year-old roofing membrane on the roof. The building is approximately 110 years old. The roof rafters are assumed to be 2x6s at 16" on center. The roof decking is assumed to be 1" wood planking. The rafters and decking are assumed to be #1 hemlock. No structural conditions of concern were visible during the inspection. The rooftop unit will be installed on a precast base against uplift. The roof penetrations will be made with a formed boot. The approximate location is shown in the photo.

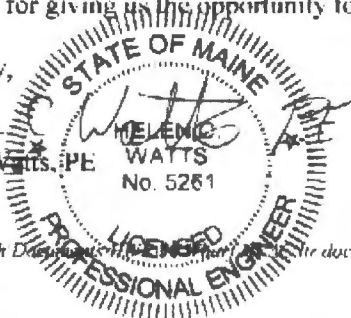
The HVAC unit is a Comfortaire "S" Series SMH245C-1, with a footprint of 35" x 13" and a weight of 152#. Assuming 25# for accessories, and a 42 psf snow load and 15 psf dead load, and the equipment weight distributed on two joists, the roofing is adequate to support the expected loads.

I thank you for giving us the opportunity to be of service to you.

Yours truly,

Helen C. Watts
Helen C. Watts, PE
No. 5261

Principal
C:\Users\Ralph\Desktop\12-01\12-01.dwg



HELEN WATTS ENGINEERING

455 Litchfield Road
Bowdoin, ME 04287
(207) 522-9366 · fax (207) 666-3920
hcwatts@gwi.net

Date 3/30/2012
Invoice # 12-011
Account #
Terms per terms and c...
Due Date 3/30/2012
Project

Bill To

BACM 2007-3 Wharf Street, LLC
C/O Shay Lattari
CBRE - The Boulos Company,
One Canal Plaza
Portland, ME 04101

Description	Qty	Rate	Amount
site visit, design, report 9 Union Street/50 Wharf Street, Portland, ME HVAC system installation	1	400.00	400.00

Thank you for your business.

Payments/Credits	\$0.00
Balance Due	\$400.00

'V' Series

Inverter technology in a wide range of capacities

Comfort and energy efficiency combine in these attractive wall mount mini-splits. Rated as high as 19.3 SEER, they include all the advantages of advanced inverter technology.

You'll find that your room reaches the preset temperature quickly and that the temperature is constant, without the variations that occur in other types due to on-off cycling. Because the units run at low frequency most of the time, energy usage is kept to a minimum. However, during weather extremes (or when you have a room full of people), the compressor ramps up automatically to reach the set point and maintain the comfort level.

"V" Series units are exceptionally quiet. Heavy duty compressors in the condensers are not just efficient, but they also reduce noise and vibration. Inside, the balanced fan circulates large volumes of air at minimal noise levels.

Applications

Single zone models are especially suited to one room residential installations such as bedrooms, sunrooms, additions and workshops. For large spaces up to 1550 square feet such as offices, conference rooms, common areas, etc., the 30,000-36,000 BTUH models deliver big capacity with exceptional efficiency. The inverter technology automatically matches the power delivered with the load requirements for precise temperature control.

Low Ambient Operation

The low ambient feature allows cooling when outdoor temperature falls below freezing—great for temperature/humidity sensitive environments. Additionally, a factory installed crankcase heater keeps compressor oil warm and reduces heat loss to ambient air.

Low Ambient Operation: cooling 32° – 122° F, heating 5° – 93.2° F.



Indoor Unit

208-230V

9,000 to
36,000
BTUH



Outdoor Unit



9,000, 12,000 and
18,000 BTUH Models

Features

- **Attractive Cabinet**—Indoor units feature a slim profile with rounded corners and sleek grilles with a subtle silver metallic looking panel
- **Multiple Modes**—Cooling, dehumidification only, and heating
 - Sleep mode
 - 24-hour timer
 - Turbo mode
 - Auto mode
- **Random Swing**—Continually adjusts fan speed and air direction for a gentle, breeze-like effect that's preferred by most people
- **Remote Control**—Makes it easy to program and operate the unit
- **Multi-Stage Filtration**—Includes ionizer to remove microscope particles, active carbon and dust filter, and freshening filter for improved indoor air quality
- **Low Ambient Operation**—Unit functions even when the outdoor temperature reaches 5° F
- **Defrost Control**—Automatically removes any frost accumulation on the coil as needed
- **Auto Restart**—Reverts to the last setting following a power failure

'S' Series

13 SEER Single Zone Ductless Mini-Splits Systems

	Cooling Only				Heat Pump Models			
FEATURES	SMA09SC-0	SMA12SC-0	SMA18SC-1	SMA24SC-1	SMH09SC-0	SMH12SC-0	SMH18SC-1	SMH24SC-1
Power Supply	115-1-60	115-1-60	208/230-1-60	208/230-1-60	115-1-60	115-1-60	208/230-1-60	208/230-1-60
Cooling Capacity (BTUH)	9,000	11,800	18,000	23,000	9,900	11,700	17,400	24,000
EER	11.5	11.50	11.65	11.80	12.70	11.50	9.80	12.10
HSPF	N/A	N/A	N/A	N/A	8.00	8.60	8.00	8.60
Cooling Amps	7.3	10.0	6.8/6.8	8.8/8.8	7.3	10.0	6.8/6.8	8.8/8.8
Dehumidification (Pts/Hr.)	2.1	2.5	3.8	5.3	2.1	2.5	3.8	5.3
Heating Capacity (BTUH)	N/A	N/A	N/A	N/A	9,900	13,100	16,700	24,000
Heating Amps	N/A	N/A	N/A	N/A	7.6	10.0	7.0/7.0	8.8/8.8
INDOOR UNIT								
Air flow (CFM)	342/271/218	471/412/371	618/589/547	795/689/624	342/271/218	500/430/394	618/589/547	795/689/624
Fan Speeds (Cool/Heat/Fan)	3/-/3	3/-/3	3/-/3	3/-/3	3/3/3	3/3/3	3/3/3	3/3/3
Sound Level (dBA) H-M-L	42/36/29	47/43/40	48/45/42	52/49/46	42/39/36	47/44/41	48/45/42	52/49/46
AIR DIRECTION								
Vertical Adjustment	Remote	Remote	Remote	Remote	Remote	Remote	Remote	Remote
Horizontal (left/right)	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Random Swing	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
INDICATOR LAMPS								
ON/OFF	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
24 Hr. Timer/Sleep Mode	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Defrost	N/A	N/A	N/A	N/A	Standard	Standard	Standard	Standard
Temperature Setting	Remote Temperature Set Range: 62°F to 88°F				Remote Temperature Set Range: 62°F to 88°F			
INDOOR UNIT DIMENSIONS								
Width (inches)	31 ¹ / ₈	36 ¹ / ₄	42 ¹ / ₂	49 ³ / ₁₆	31 ¹ / ₈	36 ¹ / ₄	42 ¹ / ₂	49 ³ / ₁₆
Height (inches)	10 ⁷ / ₁₆	11 ¹ / ₂	13	12 ¹³ / ₁₆	10 ⁷ / ₁₆	11 ¹ / ₂	13	12 ¹³ / ₁₆
Depth (inches)	7 ¹ / ₁₆	8 ⁷ / ₈	9	9 ¹ / ₁₆	7 ¹ / ₁₆	8 ⁷ / ₈	9	9 ¹ / ₁₆
Net Wt/Shipping Wt (lbs.)	16.5/19.8	28.7/33.0	33.0/46.3	39.7/55.1	16.5/19.8	28.7/33.0	33.0/46.3	39.7/55.1
OUTDOOR UNIT DIMENSIONS								
Width (inches)	30 ¹¹ / ₁₆	29 ¹⁵ / ₁₆	33 ¹ / ₄	35 ¹ / ₄	30 ¹¹ / ₁₆	29 ¹⁵ / ₁₆	33 ¹ / ₄	35 ¹ / ₄
Height (inches)	21 ⁵ / ₈	23 ³ / ₄	27 ³ / ₈	33 ⁷ / ₈	21 ⁵ / ₈	23 ³ / ₄	27 ³ / ₈	33 ⁷ / ₈
Depth (inches)	9 ⁷ / ₈	11 ¹ / ₄	13 ³ / ₁₆	13	9 ⁷ / ₈	11 ¹ / ₄	13 ³ / ₁₆	13
Net Wt/Shipping Wt (lbs.)	70.5/77.1	79.3/86.0	116.9/125.7	141.1/150.0	68.3/74.9	83.8/90.4	116.9/125.7	148.3/152.1
ELECTRICAL DATA OUTDOOR UNIT*								
Main Power Connection	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit
Max. Circuit Ampacity	13.6	17.2	12.7	16.5	13.6	17.2	12.7	16.5
Max. Fuse/HACR Circuit Breaker	15A	20A	15A	20A	15A	20A	15A	20A
Recommended Indoor/Outdoor Connecting Cable Type*	14 AWG / 4 conductor 600V THHN unshielded bare copper				14 AWG / 4 conductor 600V THHN unshielded bare copper			
LINE SETS O.D. (inch)								
Liquid Connection (flare) (inch)	1/4	1/4	1/4	3/8	1/4	1/4	1/4	3/8
Suction Connection (flare) (inch)	3/8	1/2	1/2	5/8	3/8	1/2	1/2	5/8
Maximum Line Set Length ¹	65.5 feet	65.5 feet	82 feet	82 feet	65.5 feet	65.5 feet	82 feet	82 feet
Maximum Elevation (outdoor) ²	26 feet	26 feet	32 feet	32 feet	26 feet	26 feet	32 feet	32 feet

* Always follow local, state and national electrical codes.

¹ Min. 10 ft. line set recommended.

² Oil trap should be installed every 16.5 to 23 feet (5-7m).

Design, specifications and performance data subject to change without notice.

Warranty—5 years on compressor, 1 years on parts
(Some limitations apply; see printed warranty for details.)



'S' Series

*Single zone cooling only
and heat pump models*

Our "S" Series, rated at 13 SEER, offers economical zone control because only the room or area being used is conditioned. Also, no energy is used to force air through a duct system.

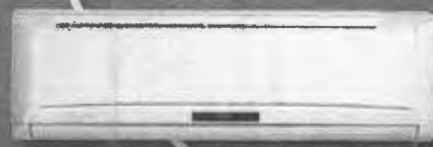
Since the unit is independent of any other heating or cooling system, specific comfort requirements can be set for the space. A wireless remote makes it easy to select both temperature and mode.

The indoor air handler features a sleek design that extends just 9" or less into the room, depending on the model. For installation flexibility, the indoor section can be located up to 82 feet from the outdoor section.

Not only is the air handler visually unobtrusive, it's also so quiet you'll forget it's even there. Fan speed and mode can be selected so the air flow provides the comfort needed without being disruptive. All models feature three fan speeds.

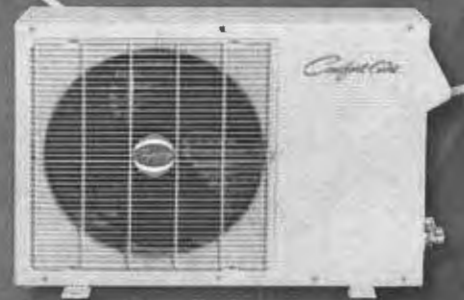
Built with quality components, the system includes a three minute delay at start-up to protect the compressor from short cycling.

Ambient operating temperature:
cooling 5° to 109.4° F, heating 19.4°
to 75.2° F.



Indoor Unit

9,000 to
24,000
BTUH



Outdoor Unit



Includes a fully featured
wireless remote

Features

- **Whisper Quiet**—High tech fan in the indoor unit delivers balanced air flow
- **Temperature Compensation**—Indoor unit adjusts automatically as needed to eliminate stratification between ceiling and floor temperature
- **Random Swing**—Continually adjusts air direction for a gentle, breeze-like effect
- **Multiple Modes**—Cooling, dehumidification only, air circulation (heating in heat pump models) plus:
 - Sleep mode
 - 24-hour timer
 - Turbo mode
- **Auto Operation**—Automatically adjusts to maintain a constant temperature/humidity level
- **Air Filtration**—An air filter helps trap dust, pollen, and other particles in the air; this permanent filter is designed to be washed on a regular basis and re-installed
- **Auto Restart**—Reverts to the last setting following a power failure
- **Low Ambient Operation**—Crankcase heater allows operation to 5° F (cooling)
- **Defrost**—On heat pump models

Owners of historic homes will appreciate the comfort and convenience of ductless mini-splits. Adding air conditioning to older homes can be expensive and difficult, while window units destroy the exterior appearance of the home. But with a mini-split, the outdoor condenser can be located where it doesn't detract from the curb appeal, and simple conduit containing refrigerant and electrical lines is inconspicuous. Remodelers and renovators will appreciate these same qualities.

'S' Series

13 SEER Single Zone Ductless Mini-Split Systems

FEATURES	Cooling Only				Heat Pump Models			
	SMA09SC-0	SMA12SC-0	SMA18SC-1	SMA24SC-1	SMH09SC-0	SMH12SC-0	SMH18SC-1	SMH24SC-1
Power Supply	115-1-60	115-1-60	208/230-1-60	208/230-1-60	115-1-60	115-1-60	208/230-1-60	208/230-1-60
Cooling Capacity (BTUH)	9,500	11,800	18,000	23,000	9,900	11,700	17,400	24,000
EER	12.10	11.50	11.65	11.80	12.70	11.50	9.80	12.10
HSPF	N/A	N/A	N/A	N/A	8.00	8.60	8.00	8.60
Cooling Amps	7.3	10.0	6.8/6.8	8.8/8.8	7.3	10.0	6.8/6.8	8.8/8.8
Dehumidify (Pts/Hr.)	2.1	2.5	3.8	5.3	2.1	2.5	3.8	5.3
Heating Capacity (BTUH)	N/A	N/A	N/A	N/A	9,900	13,100	16,700	24,000
Heating Amps	N/A	N/A	N/A	N/A	7.6	10.0	7.0/7.0	8.8/8.8
INDOOR UNIT								
Air flow (CFM)	342/271/218	471/412/371	618/589/547	795/688/624	341/271/218	500/430/394	618/589/547	795/688/624
Fan Speeds (C/H/F)	3/-/3	3/-/3	3/-/3	3/-/3	3/3/3	3/3/3	3/3/3	3/3/3
AIR DIRECTION								
Vertical Modulating	Remote	Remote	Remote	Remote	Remote	Remote	Remote	Remote
Horizontal (left/right)	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Random Swing	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
INDICATOR LAMPS								
ON/OFF	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
24 Hr Timer/Sleep Mode	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Defrost	N/A	N/A	N/A	N/A	Standard	Standard	Standard	Standard
Temperature Setting	Remote Temperature Set Range 62° F to 88° F				Remote Temperature Set Range 62° F to 88° F			
INDOOR UNIT DIMENSIONS								
Width (inches)	31 ¹ / ₈	36 ¹ / ₄	42 ¹ / ₂	49 ³ / ₁₆	31 ¹ / ₈	36 ¹ / ₄	42 ¹ / ₂	49 ³ / ₁₆
Height (inches)	107 ⁷ / ₁₆	11 ¹ / ₂	13	12 ¹³ / ₁₆	107 ⁷ / ₁₆	11 ¹ / ₂	13	12 ¹³ / ₁₆
Depth (inches)	7 ¹¹ / ₁₆	8 ⁷ / ₈	9	9 ¹ / ₁₆	7 ¹¹ / ₁₆	8 ⁷ / ₈	9	9 ¹ / ₁₆
Net Wt/Shipping Wt (lbs)	16.5/19.8	28.7/33.0	33.0/46.3	39.7/55.1	16.5/19.8	28.7/33.0	33.0/46.3	39.7/55.1
OUTDOOR UNIT DIMENSIONS								
Width (inches)	30 ¹¹ / ₁₆	29 ¹⁵ / ₁₆	33 ¹ / ₄	35 ¹ / ₄	30 ¹¹ / ₁₆	29 ¹⁵ / ₁₆	33 ¹ / ₄	35 ¹ / ₄
Height (inches)	21 ⁵ / ₈	23 ¹ / ₄	27 ³ / ₈	33 ⁷ / ₈	21 ⁵ / ₈	23 ¹ / ₄	27 ³ / ₈	33 ⁷ / ₈
Depth (inches)	9 ⁷ / ₈	11 ¹ / ₄	13 ³ / ₁₆	13	9 ⁷ / ₈	11 ¹ / ₄	13 ³ / ₁₆	13
Net Wt/Shipping Wt (lbs.)	70.5/77.1	79.3/86.0	116.9/125.7	141.1/150.0	68.3/74.9	83.8/90.4	116.9/125.7	143.3/152.1
ELECTRICAL DATA OUTDOOR UNIT*								
Main Power Connection	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit	Outdoor Unit
Max. Circuit Ampacity	13.6	17.2	12.7	16.5	13.6	17.2	12.7	16.5
Max. Fuse/HACR Circuit Breaker	15A	20A	15A	20A	15A	20A	15A	20A
Recommended Indoor/Outdoor Connecting Cable Type*	14 AWG / 4 conductor 600V THHN unshielded bare copper							
LINE SETS O.D. (inch) / REFRIGERANT								
Refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Liquid (flare) (inch)	1/4	1/4	1/4	3/8	1/4	1/4	1/4	3/8
Suction (flare) (inch)	3/8	1/2	1/2	5/8	3/8	1/2	1/2	5/8
Max. Line Set Length ¹	65.5 feet	65.5 feet	82 feet	82 feet	65.5 feet	65.5 feet	82 feet	82 feet
Max. Outdoor Elevation ²	26 feet	26 feet	32 feet	32 feet	26 feet	26 feet	32 feet	32 feet

Warranty—5 years on compressor, 1 year on parts

(Some limitations apply; see printed warranty for details.)

*Always follow local, state and national electrical codes. Main power connection is 208-230V.

¹ Min. 10 ft. line set length recommended.

² Oil trap should be installed every 16.5 to 23 feet (5-7m).

Design, specifications and performance data subject to change without notice.

