

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 08-0512	Issue Date: 5/21/08	CBL: 040 D001001
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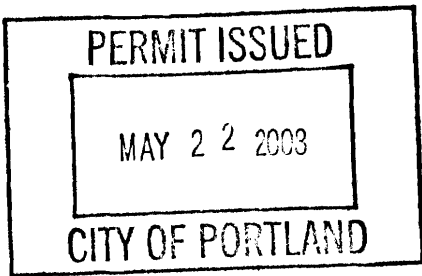
Location of Construction: 20 DANFORTH ST	Owner Name: BROWN J B & SONS	Owner Address: PO BOX 207	Phone:
Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone 2078544822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B-3

Past Use: Commercial - office/JB Brown & Sons	Proposed Use: Commercial - office/JB Brown & Sons - Install Direct Vent York Heating and AirConditioning System	Permit Fee: \$160.00	Cost of Work: \$14,000.00	CEO District: 1
Proposed Project Description: Install Direct Vent York Heating and AirConditioning System		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: B Type: SB IMC 2003 Signature: 5/21/08	

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	Signature: _____ Date: _____

Permit Taken By: lmd	Date Applied For: 05/16/2008	Zoning Approval	
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 5/20/09	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<p>Historic Preservation</p> <input 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:
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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

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Business Name:	Contractor Name: HVAC Services, Inc.	Contractor Address: 73 Bradley Drive Westbrook	Phone (207) 854-4822
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Commercial - office/JB Brown & Sons - Install Direct Vent York Heating and AirConditioning System	Proposed Project Description: Install Direct Vent York Heating and AirConditioning System
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 05/20/2008	Note:	Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Chris Hanson	Approval Date:	Note:	Ok to Issue: <input checked="" type="checkbox"/>
1) Equipment must be installed in compliance with the manufacturer's specifications 2) The appliance shall be installed in accordance with the IMC 2003 and NFPA 211 3) Prior to installing the solid fuel appliance, the product information which includes the UL listing shall be submitted. The heating unit shall be installed per the Listing, NFPA 211, IMC 2003 and the manufacturers instructions. 4) The installation must comply with the State of Maine Gas Regulations.					

Comments:
5/20/2008-mes: I found this permit in the "building basket" signed out to zoning - so I took it and zoned it and returned it today to the "building basket".

Heating and Air Conditioning

TECHNICAL GUIDE

AFFINITY

MODELS: PS9*UP

**GAS-FIRED
CONDENSING / HIGH EFFICIENCY
UPFLOW SINGLE STAGE FURNACES**

92% TO 94% AFUE

**NATURAL GAS
40 - 135 MBH INPUT**



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.york.com for the most up-to-date technical information.

Additional rating information can be found at www.gamanet.org.

DESCRIPTION

These Category IV, highly efficient, compact, condensing type furnaces are designed for residential and commercial installations in a basement, closet, alcove, recreation room or garage where the ambient temperature is above 32°F, or higher. They may be either side wall or thru-roof vented using approved plastic type combustion air and vent piping. All units are factory assembled, wired and tested to assure dependable and economical installation and operation.

WARRANTY

Lifetime limited warranty on both heat exchangers to the original purchaser; a 20-year limited warranty from original installation date to subsequent purchaser.

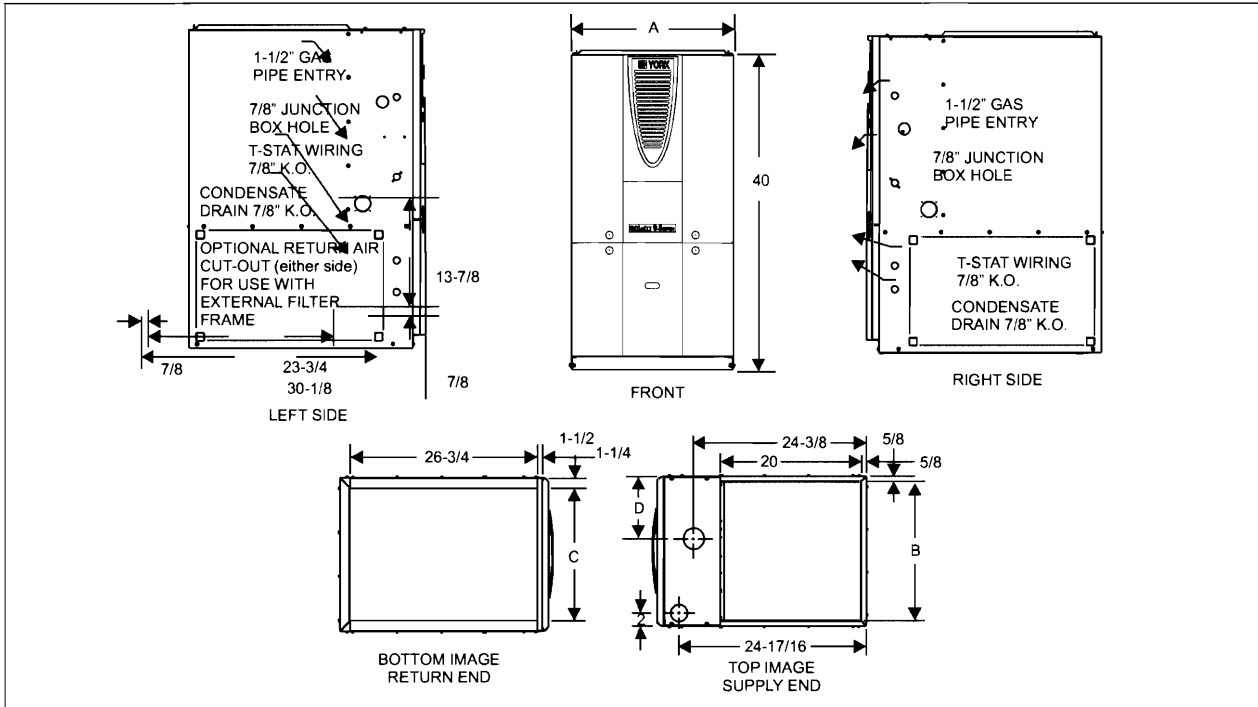
10-year warranty on the heat exchanger in commercial applications.

5-year limited parts warranty.

FEATURES

- Compact, easy to install, ideal height 40" cabinet.
- Blower-off delay for cooling SEER improvement.
- Easy to connect power/control wiring.
- Built-in, high level self diagnostics with fault code display.
- Low unit amp requirement for easy replacement application.
- Integrated control module for reliable, economical operation.
- May be installed as either two-pipe (sealed combustion) or single pipe vent (using indoor combustion air)
- Top intake & vent connection allows installation in narrow locations.
- Electronic Hot Surface Ignition saves fuel cost with increased dependability and reliability.
- Induced combustion system with inshot main burners for quiet, efficient operation.
- No special vent termination kit required.
- 100% shut off main gas valve for extra safety.
- PSC four speed, direct drive motor with large, quiet blower.
- 24V, 40 VA control transformer and blower relay supplied for add-on cooling.
- Hi-tech tubular aluminized steel primary heat exchanger.
- Secondary (condensing) heat exchanger of 29-4C high-grade stainless steel.
- Timed on, adjustable off blower capability for maximum comfort.
- Solid removable bottom panel allows easy application.
- Easy access from front of unit for cleaning, maintenance or service.
- Protection from intake, exhaust or condensate blockage.
- Insulated blower compartment for quiet operation.
- Independent door removal for greater durability and ease of access.

FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE



CABINET AND DUCT DIMENSIONS

Models	Nominal CFM	Cabinet Size	Cabinet Dimension			
			A (in.)	B (in.)	C (in.)	D (in.)
PS9A12N040UP11	1200	A	14-1/2	13-1/4	11-1/2	6-1/4
PS9B12N060UP11	1200	B	17-1/2	16-1/4	14-1/2	8-1/2
PS9B12N080UP11	1200	B	17-1/2	16-1/4	14-1/2	8-1/2
PS9C16N080UP11	1600	C	21	19-3/4	18	8-7/8
PS9C20N080UP11	2000	C	21	19-3/4	18	8-7/8
PS9C16N100UP11	1600	C	21	19-3/4	18	8-7/8
PS9C20N100UP11	2000	C	21	19-3/4	18	8-7/8
PS9D20N120UP11	2000	D	24-1/2	23-1/4	21-1/2	10-5/8
PS9D20N135UP11	2000	D	24-1/2	23-1/4	21-1/2	10-5/8

*180lbs
on floor
inside space*

ELECTRICAL AND PERFORMANCE DATA

Model	Input/ Cabinet	Output	Nominal Airflow	Cabinet Width	Total Unit	AFUE	Air Temp. Rise
	MBH	MBH	CFM	In.	Amps	%	°F
PS9A12N040UP11	40/A	38	1200	14-1/2	9	94.0	35 - 65
PS9B12N060UP11	60/B	56	1200	17-1/2	9	92.0	40 - 70
PS9B12N080UP11	80/B	74	1200	17-1/2	9	92.0	45 - 75
PS9C16N080UP11	80/C	75	1600	21	12	92.0	45 - 75
PS9C20N080UP11	80/C	75	2000	21	14	92.0	40 - 70
PS9C16N100UP11	100/C	93	1600	21	12	92.0	45 - 75
PS9C20N100UP11	100/C	93	2000	21	14	92.0	40 - 70
PS9D20N120UP11	120/D	112	2000	24-1/2	14	92.0	40 - 70
PS9D20N135UP11	135/D	127	2000	24-1/2	14	92.0	45 - 75

Model	Input/ Cabinet	Max. Outlet Air Temp.	Blower		Blower Size	Max. Over-current Protect	Min. Wire Size (awg) @ 75 ft. One Way	Operating Weight
	MBH	°F	HP	Amps	In.			Lbs.
PS9A12N040UP11	40/A	165	1/2	7.0	11 x 8	20	14	121
PS9B12N060UP11	60/B	170	1/2	7.0	11 x 8	20	14	135
PS9B12N080UP11	80/B	175	1/2	7.0	11 x 8	20	14	142
PS9C16N080UP11	80/C	175	3/4	10.2	11 x 10	20	14	157
PS9C20N080UP11	80/C	170	1	12.7	11 x 11	20	12	159
PS9C16N100UP11	100/C	175	3/4	10.2	11 x 10	20	14	162
PS9C20N100UP11	100/C	170	1	12.7	11 x 11	20	12	164
PS9D20N120UP11	120/D	170	1	12.7	11 x 11	20	12	180
PS9D20N135UP11	135/D	175	1	12.7	11 x 11	20	12	180

Nominal external static pressure is 0.50" w.c. at furnace outlet ahead of cooling coils.

Annual Fuel Utilization Efficiency (AFUE) numbers are determined in accordance with DOE Test procedures.

Wire size and over current protection must comply with the National Electrical Code (NFPA-70-latest edition) and all local codes.

NOTES:

1. For altitudes above 2000 ft. reduce capacity 4% for each 1000 ft. above sea level.
2. Wire size based on copper conductors, 60°C, 3% voltage drop.
3. Continuous return air temperature must not be below 55°F.



Heating and Air Conditioning

TECHNICAL GUIDE

SPLIT-SYSTEM AIR CONDITIONERS

13 SEER – R-22

MODELS:
TCGD12 THRU 60
(1 THRU 5 NOMINAL TONS, 1 PHASE)



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.york.com

Additional rating information can be found at www.ahridirectory.org

DESCRIPTION

The 13 SEER Series condensing unit is the outdoor part of a versatile system of air conditioning. It is designed to be custom-matched with one of UPG's complete line of evaporator sections, with each serving a specific function. Matching Air Handlers are available for upflow, downflow, or horizontal applications to provide a complete system. Electric Heaters are available, if required. Add-On coils are available for use with upflow, downflow, or horizontal furnaces and air handlers.

WARRANTY

Single Phase Units:

5-year limited parts warranty.

5-year limited compressor warranty.

FEATURES

- **QUALITY CONDENSER COILS** - The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protects the compressor if undesirable operating conditions occur. A liquid line filter-drier further protects the compressor.
- **DURABLE FINISH** - The cabinet is made of pre-painted steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by easy power and control wiring connections. Available in sweat connect models only. The unit contains enough refrigerant for matching indoor coils and 15 feet of interconnecting piping. The small base dimension means less space is required on the ground or roof.
- **TOP DISCHARGE** - The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **LOW OPERATING SOUND LEVEL** - The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds.
- **LOW MAINTENANCE** - Long life permanently lubricated motor-bearings need no annual servicing.
- **EASY SERVICE ACCESS** - Fully exposed refrigerant connections, and a single panel covering the electrical controls make for easy servicing of the unit.
- **SECURED SERVICE VALVES** - Secured re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **U.L. and C.U.L. listed** - approved for outdoor application. Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

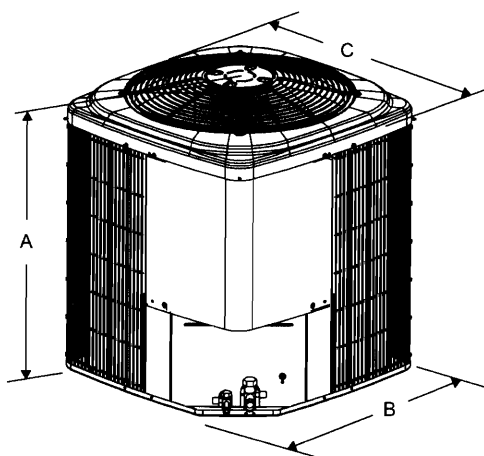
Physical and Electrical Data

MODEL	TCGD12 S21S2(H)	TCGD18 S21S2(H)	TCGD24 S21S2(H)	TCGD30 S21S2(H)	TCGD36 S21S2(H)	TCGD42 S21S2(H)	TCGD48 S21S2(H)	TCGD60 S21S2	
Unit Supply Voltage	208-230V, 1 ϕ , 60Hz								
Normal Voltage Range ¹	187 to 252								
Minimum Circuit Ampacity	6.2	9.5	11.3	14.0	18.2	19.9	22.7	33.5	
Max. Overcurrent Device Amps ²	15	15	15	20	30	30	35	50	
Min. Overcurrent Device Amps ³	15	15	15	15	20	20	25	35	
Compressor Type	Rotary	Rotary	Rotary	Recip	Recip	Recip	Recip	Scroll	
Compressor Amps	Rated Load	4.5	7.2	8.4	10.6	13.4	14.7	17.0	25.6
	Locked Rotor	26.0	40.0	47.0	61.0	78.0	78.0	86.0	150.0
Crankcase Heater	No	No	No	No	No	No	No	No	
Fan Motor Amps	Rated Load	0.50	0.50	0.80	0.80	1.4	1.5	1.5	1.5
Fan Diameter Inches	18	18	18	18	18	22	22	22	
Fan Motor	Rated HP	1/12	1/12	1/8	1/8	1/4	1/4	1/4	1/4
	Nominal RPM	1100	1100	1075	1075	1100	850	850	850
	Nominal CFM	1350	1550	1850	1950	2400	3000	3000	3300
Coil	Face Area Sq. Ft.	8.1	9.7	9.7	11.3	12.1	16.5	16.5	19.75
	Rows Deep	1	1	1	1	1	1	1	1
	Fin / Inches	23	23	23	23	23	23	23	23
Liquid Line Set OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
Vapor Line Set OD (Field Installed)	5/8	5/8	3/4	3/4	3/4	7/8	7/8	1-1/8	
Unit Charge (Lbs. - Oz.) ⁴	3 - 2	3 - 0	3 - 13	3 - 7	3 - 15	4 - 2	4 - 5	5 - 4	
Charge Per Foot, Oz.	0.66	0.66	0.68	0.68	0.68	0.70	0.70	0.76	
Operating Weight Lbs.	96	110	130	150	160	175	176	200	

on roof

Models with "H" on the end of the model number have a factory installed start kits.

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
12	24	23-1/2	23-1/2	3/8"	3/4"
18	28	23-1/2	23-1/2		
24	28	23-1/2	23-1/2		
30	32	23-1/2	23-1/2		
36	34	23-1/2	23-1/2		7/8"
42	34	29	29		
48	34	29	29	1-1/8"	
60	40	29	29		

1. Including Fan Guard.



FILL IN AND SIGN WITH INK

08-0512

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 040-D-001-001 36 Danforth Use of Building Comm. office Date 5/14/08
 Name and address of owner of appliance J.B. Brown & Sons
482 Congress St. Suite 500 Portland, ME 04101
 Installer's name and address HVAC Services, Inc.
73 Bradley Dr. Westbrook 04092 Telephone 854-4822

Location of appliance:

- Basement Floor
 Attic Roof

Type of Fuel:

- Gas Oil Solid MAY 16 2008

Appliance Name: York

U.L. Approved Yes No

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

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # PNT1564
 Other _____

Type of Chimney:

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

Type of Fuel Tank

- Oil
 Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 14,000.00

Permit Fee: \$ _____

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Chris L. [Signature]
Inspector's Signature

5/21/08
Date Approved

Signature of Installer Jim O'Leary