

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

Permit No: 08-1497	Issue Date:	CBL: 139 K014001
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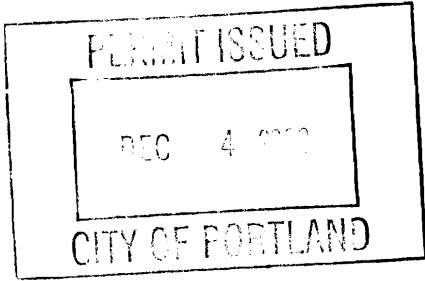
Location of Construction: 116 PARSONS RD	Owner Name: LAWLER DEBORAH ANN	Owner Address: 116 PARSONS RD	Phone: 207-232-5513
Business Name:	Contractor Name: Vincent HVAC	Contractor Address: 111 Greenwood Lane Portland	Phone 2078787900
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R3

Past Use: Single Family Home	Proposed Use: Single Family Home - Install viessman WBIA Direct Vent Natural Gas Heating System	Permit Fee: \$410.00	Cost of Work: \$38,300.00	CEO District: 4
Proposed Project Description: Install viessman WBIA Direct Vent Natural Gas Heating System		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R3 Type: SB IRC 2003	
		Signature: _____		Signature: <i>Jm</i> 12/3/08
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: 11/26/2008	<b>Zoning Approval</b>		
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input checked="" type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date: <i>Jm</i> 12/3/08	Date: _____	Date: 12/3/08



**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



FILL IN AND SIGN WITH INK

139-K-014

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



08-1497

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 116 PARSONS RD. Use of Building HOME Date 10/26/08  
 Name and address of owner of appliance LAWLER 116 PARSONS RD  
PORTLAND ME, 04103  
 Installer's name and address CHARLES SPIZWALO (BBA VINCENT HVAC) 111 GREENWOOD LN.  
PORTLAND ME, 04103 Telephone \_\_\_\_\_

### Location of appliance:

- Basement
- Attic
- Floor
- Roof

### Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: VIESSMAN WR31A-8-30

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 # PNT1064
- Other \_\_\_\_\_

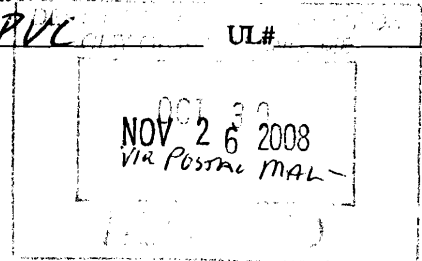
### Type of Chimney:

- Masonry Lined  
Factory built \_\_\_\_\_
- Metal  
Factory Built U.L. Listing # \_\_\_\_\_

Direct Vent  
Type PVC UL# \_\_\_\_\_

### Type of Fuel Tank

- Oil
- Gas



Size of Tank NATURAL GAS.

Number of Tanks \_\_\_\_\_

Distance from Tank to Center of Flame \_\_\_\_\_ feet.

Cost of Work: \$ 38,300

Permit Fee: \$ 403.00

### Approved

### Approved with Conditions

Fire: \_\_\_\_\_  
 Ele.: \_\_\_\_\_  
 Bldg.: \_\_\_\_\_

See attached letter or requirement

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

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

Signature of Installer Charles Spizwalo

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

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

<b>Permit No:</b> 08-1497	<b>Date Applied For:</b> 11/26/2008	<b>CBL:</b> 139 K014001
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<b>Location of Construction:</b> 116 PARSONS RD	<b>Owner Name:</b> LAWLER DEBORAH ANN	<b>Owner Address:</b> 116 PARSONS RD	<b>Phone:</b> 207-232-5513
<b>Business Name:</b>	<b>Contractor Name:</b> Vincent HVAC	<b>Contractor Address:</b> 111 Greenwood Lane Portland	<b>Phone:</b> (207) 878-7900
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

<b>Proposed Use:</b> Single Family Home - Install viessman WBIA Direct Vent Natural Gas Heating System	<b>Proposed Project Description:</b> Install viessman WBIA Direct Vent Natural Gas Heating System
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Tom Markley	<b>Approval Date:</b> 12/03/2008
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.			
2) This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.			
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Tom Markley	<b>Approval Date:</b> 12/03/2008
<b>Note:</b>			<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
1) The installation must comply with the State of Maine Gas Regulations.			
2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.			

<b>Comments:</b> 11/26/2008-lmd: The permit application came in the mail. The check was short by \$7:00. I invoiced the balance and put it in the mail.
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# Work Order

FOR LISA - CODE DEPT,

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## VINCENT HEATING AND AIR CONDITIONING

111 GREENWOOD LANE  
PORTLAND, ME. 04103  
OFFICE 207-878-7900 CELL 232-5513

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September 16, 2008

Summary: INSTALLATION

Reference #: 1689-101

Tech: C.SPIZUOCO

my cell 232-5513

### Bill To:

ROBERT ROHNER  
152 BOLTON ST.  
PORTLAND, ME 04103

### Job Name:

LAWLER RESIDENCE  
116 PARSONS RD.  
PORTLAND, ME 04103

207-775-5390 HOME

207-272-6128 CELL

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### Description of Work

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INSTALL TWO 15 SEER HEATPUMP SYSTEMS WITH HYDRO AIR BACK UP AND A GAS BOILER WITH A 45 GALLON DOMESTIC HOT WATER STORAGE SYSTEM. THE FOLLOWING WILL BE INCLUDED.

A) INSTALL ONE VISSMAN ( VITODENS WB1A-8-30 ) 29 TO 100,000 BTUH FULL MODULATING GAS BOILER.

B) INSTALL ONE SUPER STOR (SSU-45) 45 GALLON DOMESTIC HOT WATER STORAGE SYSTEM WITH MIXING VALVE AND OUTLET THERMOMETER.

C) INSTALL TWO WESTINGHOUSE (B4VM-X24-B) 2 TON VARIABLE SPEED AIR HANDLERS WITH A HYDRONIC HOT WATER HEATING COIL. ( THIS WILL BOOST THE AIR TEMPERATURE TO AID THE HEAT PUMP AND TAKE OVER AT 30 DEGREES).

D) INSTALL TWO WESTINGHOUSE (FT4BF025K) 2 TON HEAT PUMP TWO STAGE 15 -16 SEER CONDENSING UNITS OUTSIDE BEHIND THE GARAGE. (THIS SAME UNIT COOLS IN THE SUMMER).

E) INSTALL TWO HONEYWELL VisionPRO IAQ 8000 THERMOSTATS WITH OUTSIDE AIR SENSORS.

F) INSTALL ALL GAS PIPING TO EQUIPMENT AND APPLIANCES.

G) ALL REFRIGERATION PIPING.

H) ALL BOILER PIPING.

I) ALL CONTROLS AND WIRING. (OUTDOOR UNIT WILL BE WIRED BY OTHERS).

J) ALL INSULATED DUCTWORK WITH ONE ZONE FOR THE FIRST FLOOR AND TWO ZONES FOR THE SECOND FLOOR. (BEDS AND FAMILY ROOM)

### **\*\*NOT INCLUDED\*\***

1) LINE VOLTAGE WIRING.

2) CUTTING AND PATCHING STRUCTURE.

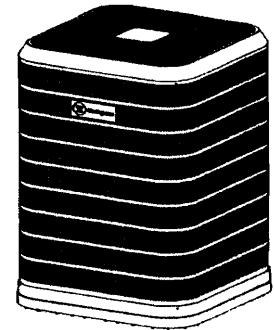
3) ANY ENGINEERING COSTS IF THE CITY OF PORTLAND WANTS THEM.

### **\*OPTIONS\***

1) CARNES (HCAG 10) COMMERCIAL GRADE HUMIDIFICATION SYSTEM.....\$2500.00

## **FT4BF Series**

### **R-410A Extra High Efficiency Heat Pump 15+ SEER Residential System 2 - 5 Ton Capacity**

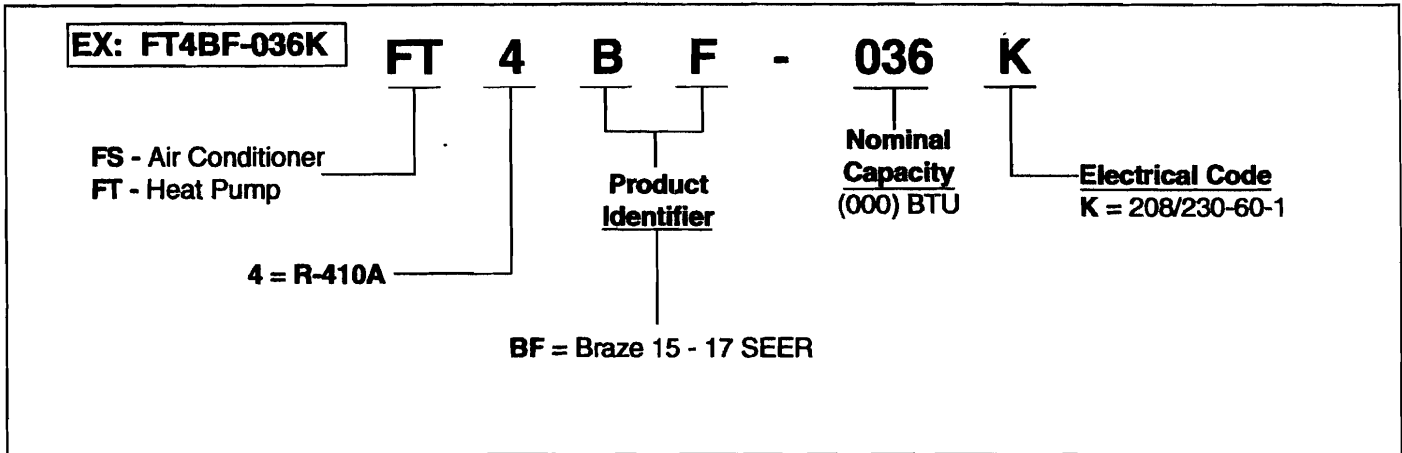


Westinghouse now offers the choice of a heat pump that uses a more efficient and environmentally friendly refrigerant designated R-410A. The FT4BF Series of Westinghouse heat pumps offers exceptional performance as well as environmental protection. These models, when matched with our variable speed air handlers or variable speed equipped gas furnaces, offer a line of high quality heat pump systems rated up to 15+ SEER and 8.5 HSPF.

#### **FEATURES and BENEFITS**

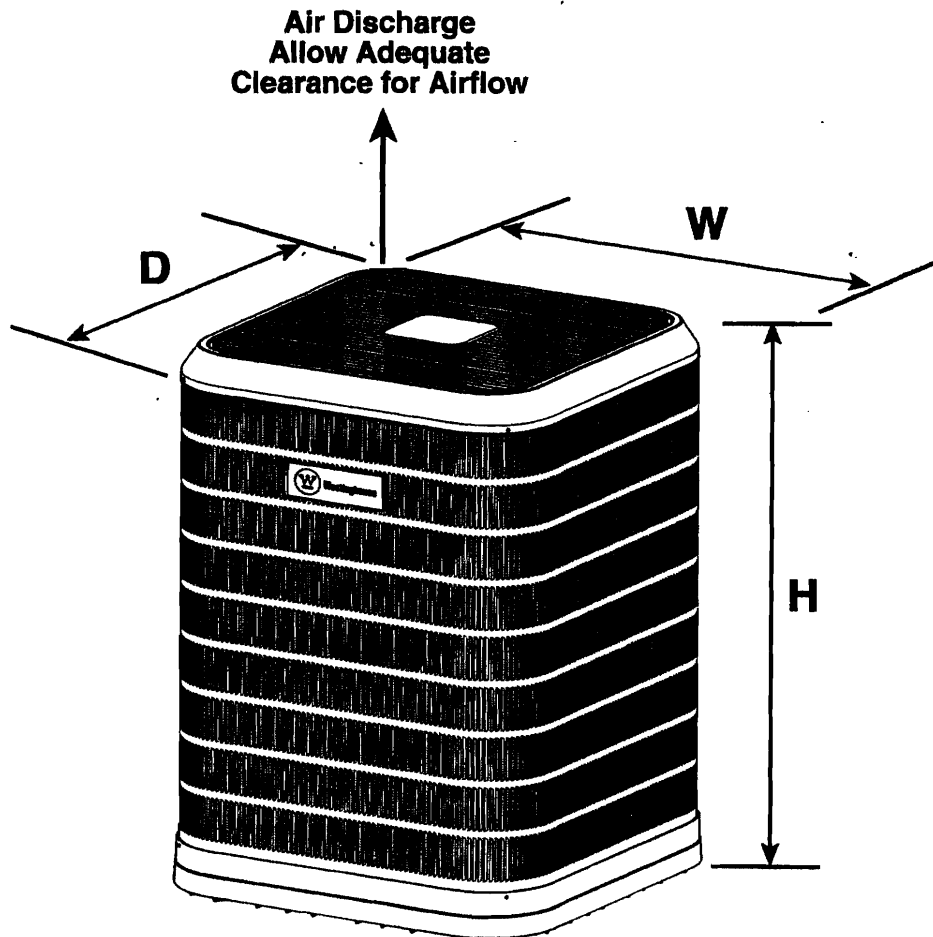
- **Warranty**
  - This product offers a 10-year all-parts warranty.
  - This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner. All split system products must be installed with a matched indoor air handler or indoor coil to qualify.
  - Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- **R-410A Refrigerant** – Earth friendly non-ozone depleting refrigerant.
- **Comfort Alert™ Module** – Detects system and electrical problem conditions. A diagnostics key directs the service technician to the root cause of a problem.
- **Copeland Scroll UltraTech™ Compressor** – The Ultra Tech Compressor operates with 2 stages of heating and cooling capacities to provide superior comfort and efficiency. Copeland's proven and simple design equates to years of comfort and reliability for the homeowner with virtually silent operation.
- **Durable, Attractive Cabinet** – Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Copper Tube / Aluminum Fin Coils** – Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation.
- **Requires no maintenance and is completely protected from rain and snow.**
- **Full Port Service Valves** – Full port brass ball valves provide low pressure drop and ease of service. The valves are actuated by 1/4 turn full open to full close.
- **Louvered Condenser Guard** – Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **Compressor Sound Blanket** – Engineered to significantly reduce unwanted compressor noise.
- **Swept-Wing Fan Blade**
- **Low Pressure Switch** – Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **Common Suction Service Port** – This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Suction Accumulator** – Protection from liquid flood back and future compressor failures.
- **Hot Gas Muffler** – Reduces compressor noise and vibration.
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.

# MODEL IDENTIFICATION CODES



# DIMENSIONS HEAT PUMP OUTDOOR SECTION

FT4BF	024	036	048	060
H	41	45	45	45
W	31 1/4	31 1/4	31 1/4	31 1/4
D	31 1/4	31 1/4	31 1/4	31 1/4



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 15+ SEER — R-410A Extra High Efficiency — Single Phase

Model Number FT4BF		024	036	048	060	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	11.3	17.9	22.4	26.9	
	Delay Fuse Max. (2)	20	35	45	50	
	Min. Circuit Ampacity	13.9	22.1	27.7	33.3	
Condenser Data	Coil	Area	22.8	25.4	25.4	25.4
		Rows-FPI	2-16	2-18	2-18	2-18
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC
		Speeds	1	2	2	2
		Amps	1.0	1.3	1.3	1.3
		Lo/Hi Spd Watts	200	187/250	187/250	187/250
		HP	1/4	1/4	1/4	1/4
	Fan Blade	Dia-# Blades	24"- 2	24"- 2	24"- 2	24"- 2
		SCFM	3600	4000	4000	4000
	Compressor Data	RLA	10.3	16.6	21.1	25.6
		LRA	52	82	96	99
	Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)	0-24 ft.	3/4"	7/8" (4)	7/8"	7/8"
25-39 ft.		7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)	
40-75 ft.		7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)	
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.		208	272	272	272	
Weight	Net	253	277	277	301	
	Approximate (lbs.)	Ship	265	289	289	313

- (1) Operating voltage range: 187V minimum - 253 V maximum
- (2) HACR type circuit breakers may be used
- (3) Requires 1-1/8 to 7/8" reducer from unit to lineset.
- (4) Use of a 3/4" lineset will result in approximately 2% loss in capacity.

## ACCESSORIES - Condensing Unit

### Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

# SYSTEM HEATING AND COOLING CAPACITIES

15+ SEER — Extra High Efficiency — Single Phase

		With this Coil								
Outdoor Unit Number FT4BF	Indoor Unit Number C4BA-	Cooling				Indoor CFM		Heating		
		Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	HSPF
024K	X24(C,U)-B+VSB	18000	24000	15.2	13.0	640	840	18000	25000	8.2
036K	X36(C,U)-B+VSB	24000	35000	15.0	12.8	800	1155	25000	37000	8.2
048K	X48(C,U)-C+VSB	33000	46000	15.0	11.7	1100	1595	32000	43000	8.5
060K	X60(C,U)-C+VSB	39000	56000	14.0	11.1	1170	1700	38000	56000	8.4

		With this Air Handler								
Outdoor Unit Number FT4BF	Indoor Unit Number B4VM-	Cooling				Indoor CFM		Heating		
		Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	HSPF
024K	X24KB	18000	24000	15.2	13.0	640	840	18000	25000	8.2
036K	X36KB	24000	35000	15.0	12.8	790	1140	25000	37000	8.2
048K	X48KC	33000	46000	15.0	11.7	1070	1555	32000	43000	8.5
060K	X60KC	39000	56000	14.0	11.1	1150	1665	38000	56000	8.4

Air handlers and coils used in tables are designed and manufactured by NORDYNE.

## COMFORT ALERT™ DIAGNOSTIC MODULE

Green POWER LED Indicates Voltage Is Present At The Power Connection Of The Module

Pass Through Ports Detect Run/Start Current; Spade Connectors Detect Tstat Demand and Pilot Voltage; Microprocessor Monitors Behavior To Determine Faults

Yellow ALERT LED Flashes To Indicate Fault Code

Red TRIP LED Indicates If Compressor Is Tripped Or Has No Power

Diagnostics Key Directs Service Tech To The Root Cause Of A Problem



Westinghouse products are manufactured and distributed by NORDYNE.

072C-0108 (Replaces 072C-0207)

www.westinghousehvac.com

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O'Fallon, MO

**NORDYNE**

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A. (10/01)



**Vitodens 100-W Technical Data**

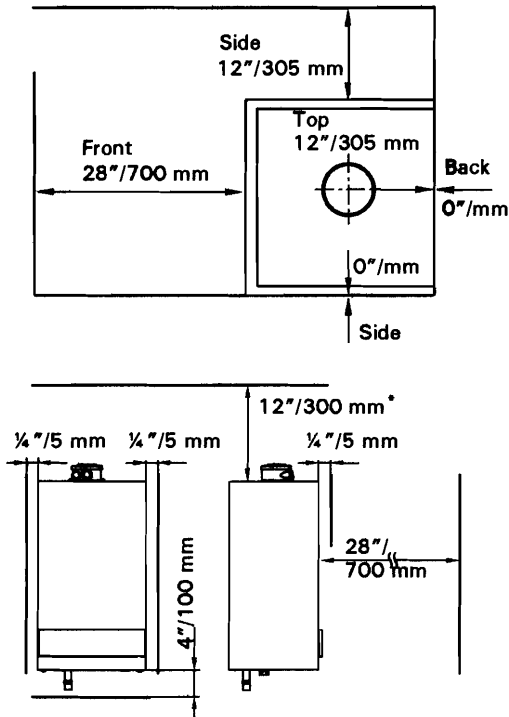
Model		WB1A 8-24	WB1A 8-30
Natural gas			
CSA input	MBH kW	29-80 9-23	29-100 9-29
CSA output *	MBH kW	26-72 8-21	26-90 8-26
A.F.U.E.	%	95.1	95.1
Overall dimensions			
Depth	inches	13½	13½
	mm	340	340
Width	inches	15¼	15¼
	mm	400	400
Height	inches	27½	27½
	mm	700	700
Weight (incl. fittings)	lbs	101	101
	kg	46	46
Boiler water content	USG	0.82	0.82
	ltr	3.1	3.1

\* Output based on 140°F / 60°C, 120°F / 49°C system supply/return temperature.

◀ Back

# Vitodens 100-W/Technical Data

## Recommended Minimum Service Clearances



## Minimum Clearances to Combustibles

Top	Front	Rear	Left	Right	Vent pipe*1
0	0 AL, CL	0	0	0	0

AL = Alcove

CL = Closet

\*1 Refer to the Installation Instructions of the Vitodens Venting System for details.

### Note:

The Vitodens 100-W boiler has passed the zero inches vent clearance to combustibles testing requirements provided by the boiler Harmonized Standard ANSI Z21.13. CSA 4.9.2005 and therefore is listed for zero clearance to combustibles when vented with a single wall special venting system (AL-29-4C material) or UL/JLC-listed CPVC gas vent material. The zero inches vent clearance to combustibles for the Vitodens 100-W boiler supercedes the clearance to combustibles listing that appears on the special venting system label.

## Vitodens 100-W Venting Alternatives



### Max. Equivalent Length

horizontally vented	20	26	33	52	66	33	52	66
	6	8	10	16	20	10	16	20
vertically vented	33	39	46	66	79	40	66	79
	10	12	14	20	24	12	20	24

Layouts on the following pages are for illustrative purposes only.

Do not use this manual for installation purposes. This is not a design tool.

Always follow Viessmann Vitodens Venting System Installation Instructions (PN 5285 268).

Select vent material based on vent configuration, preferred material, and necessary maximum equivalent length.

## B4VM-X Series

### Air Handler with TXV

15+ SEER Residential System

24,000 - 60,000 Btuh (Heat Pump & Air Conditioner)

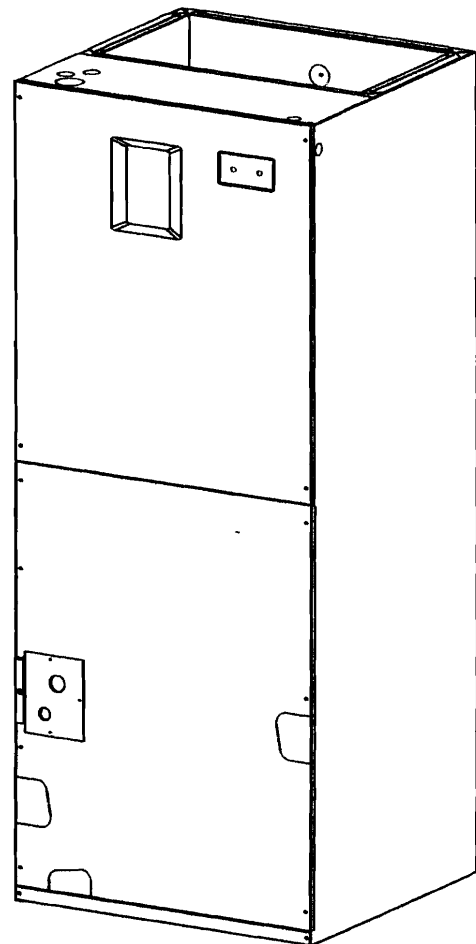
R-410A Refrigerant

one in the ATTIC  
one in BASEMENT

The B4VM-X Series of air handlers, when combined with our 2-stage heat pump or 2-stage air conditioner, offers a full line of quality, split system heating and cooling equipment.

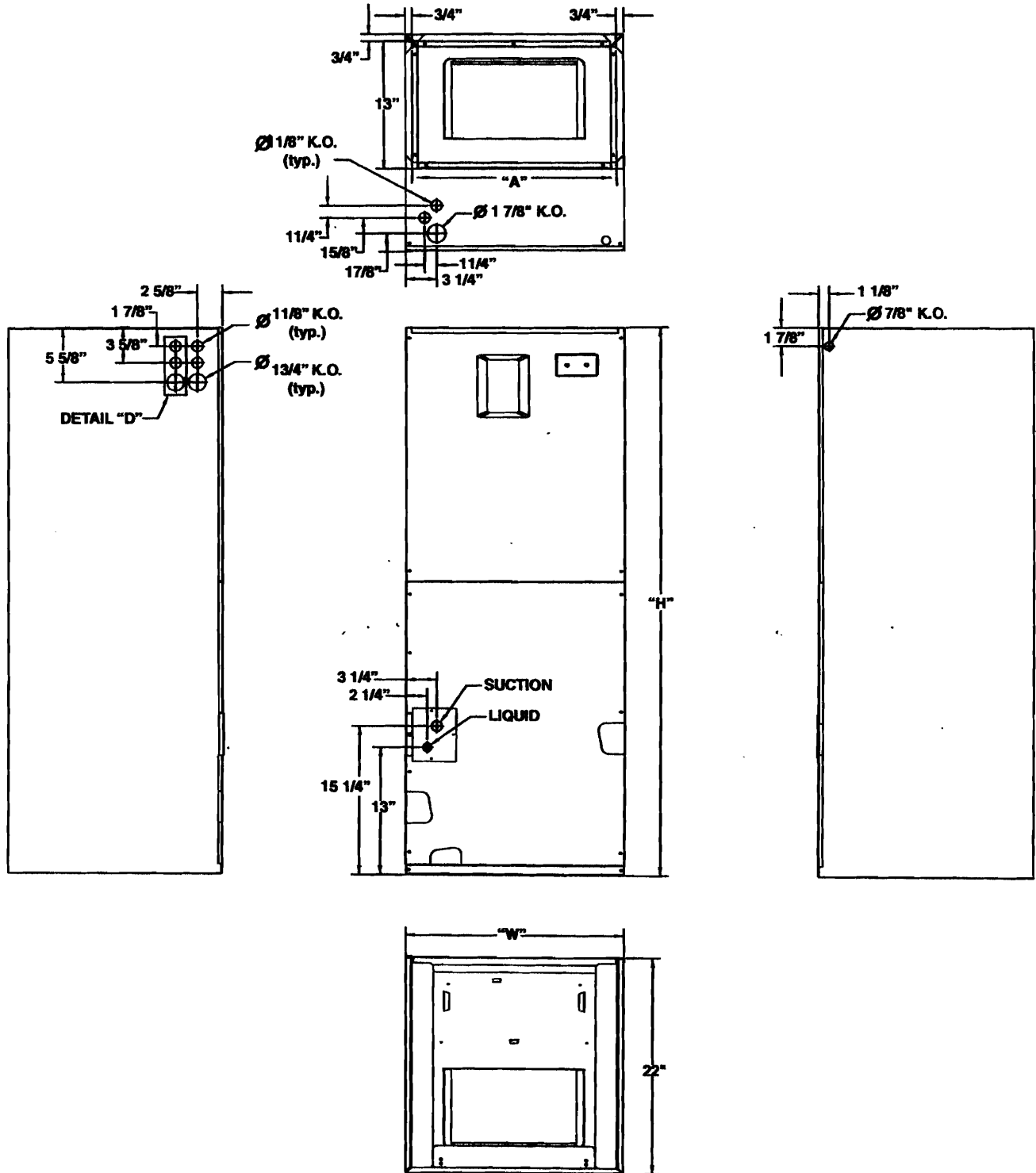
### FEATURES and BENEFITS

- **Warranty** — This product offers a 10-year all-parts warranty when registered. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- **Increased Efficiencies**-Air conditioning and heat pump efficiencies up to 16 SEER and 8.5 HSPF.
- **ECM Variable Speed Motor** - Programmed to provide 12 field-selectable cooling airflows and 4 heating airflows to match any application.
- **Quiet Blower Operation** - Extra quiet and smooth blower on and off cycles.
- **Constant airflow** - Motor automatically adjusts to different static loads.
- **Selectable delay profiles** - Increases efficiency and comfort.
- **Reduced air stratification** - This results in improved air quality by optimizing humidity removal and filtration capabilities.
- **Multi-poised** - Can be used in horizontal, upflow, downflow and vertical applications.
- **Built in Filter Rack** - makes the air handler easy to service.
- **Plug-in Heater Kits** - Available in 5 kw through 30 kw (Not for use in 115 Volt units)
- **Circuit Board** — Incorporating blower time delay relay, low voltage terminal strip, and heat-strip sequencing.
- **Breaker Accessibility** - Breaker accessible from the front of the unit when heater is applied.
- **Plastic Drain Pan** - Provides corrosion resistance.
- **Durable Cabinet** - Galvanized steel with a polyurethane finish. The finish will endure 950 hours of salt spray and resist corrosion 50% better than comparable units.
- **2-Stage Cooling** - ECM variable speed motor is programmed to operate at 75% of selected CFM when the system is operating in low stage cooling.
- **Thermal Expansion Valve** - Factory installed externally equalized thermal expansion valve provides precise refrigerant control under varying load conditions.
- **Cabinet Insulation** — 1" insulation with an R-value of 4.2 contributes to quiet operation and prevents cabinet sweating in difficult applications.

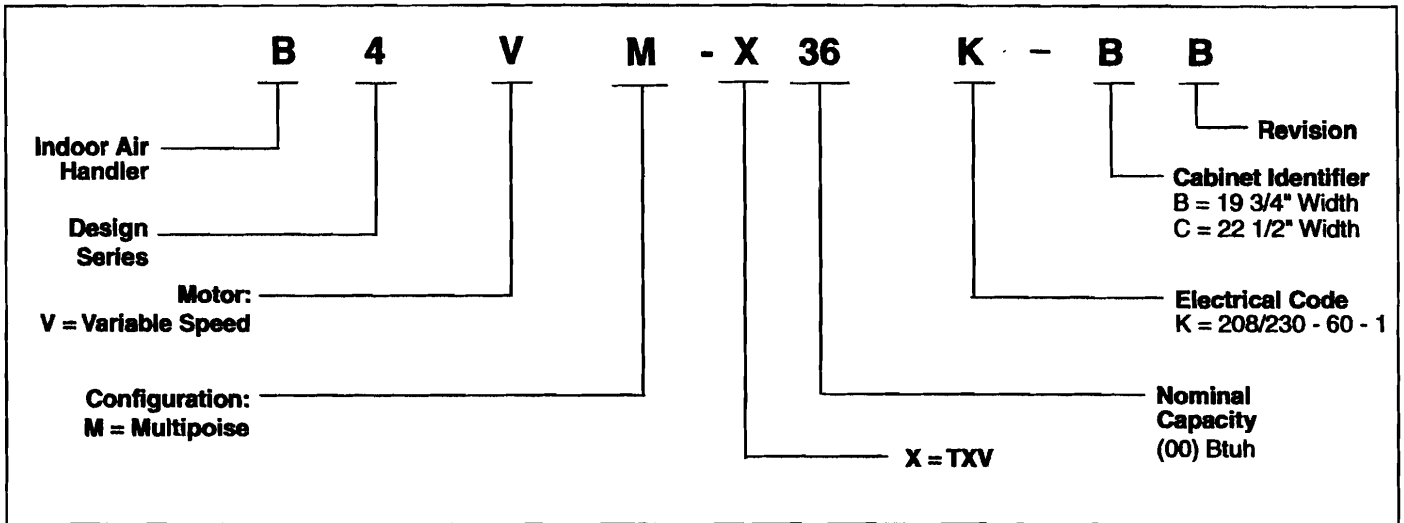


# DIMENSIONS

Models B4YM-X	H	W	Refrigerant Connections		Filter Size	Supply Air Duct Dimensions
			Suction Dia.	Liquid Dia.		
24K-B	43 1/2	19 3/4	3/4	3/8	18 x 20 x 1	12 7/8 x 18 1/4
36K-B	49 1/2	19 3/4	7/8	3/8	18 x 20 x 1	12 7/8 x 18 1/4
48K-C	56	22 1/2	7/8	3/8	20 x 20 x 1	12 7/8 x 21
60K-C	56	22 1/2	7/8	3/8	20 x 20 x 1	12 7/8 x 21



# MODEL IDENTIFICATION CODE



# SPECIFICATIONS

Model B4VM-X	24-B	36-B	48-C	60-C
Refrigerant Flow Control	TXV	TXV	TXV	TXV
Maximum Available Auxiliary Heat (kw)	20	20	20	20
Nominal Blower Size (D x W)	11 x 8	11 x 8	11 x 10	11 x 10
Variable Speed Motor HP	1/2	1/2	3/4	3/4
Rated External Static Pressure (in. W.C.)	.30	.35	.35	.40
CFM*	720 - 1450	720 - 1450	1075 - 2150	1075 - 2150
Filter Size	18 x 20 x 1	18 x 20 x 1	20 x 20 x 1	20 x 20 x 1
Approximate Shipping Weight (lbs.)	120	140	170	170

\*Field selectable in 12 steps

### NOTES:

1) See current ARI Directory for certified combinations and ratings.

# ACCESSORIES

Accessory Kit Description	Order Number
Downflow B	919321
Adaptor Kit C	919322
Single Circuit Adaptor Kit	913874
Humidistat	913769

## 240v Single Phase Electric Heat Kits

Nominal KW	Matched Units				Order Number	
	24-B	36-B	48-C	60-C	With Circuit Breakers	Without Circuit Breakers
5	X	X	X	X	904407	904406
8	X	X	X	X	904409	904408
10	X	X	X	X	904412	904411
15	X	X	X	X	904414	n/a
20	X	X	X	X	904416	n/a
25	n/a	n/a	X	X	904417	n/a
30	n/a	n/a	X	X	904418	n/a

# ELECTRICAL DATA

Model Number H6HK- Voltage KW			Variable Speed Air Handler							
			Min. Circuit Ampacity				Max. Over-Current Protection			
			Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit
005H-XX	240	4.8	-	-	-	33.5	-	-	-	40
008H-XX	240	7.5	-	-	-	48.1	-	-	-	50
010H-XX	240	9.6	-	-	-	58.5	-	-	-	60
015H-XX	240	14.4	58.5	25.0	-	83.5	60	30	-	90
020H-XX	240	19.2	58.5	50.0	-	108.5	60	50	-	125
025H-XX	240	24.0	58.5	50.0	25.0	133.5	60	30	30	150
030H-XX	240	28.8	58.5	50.0	50.0	158.5	60	50	60	175
005H-XX	208	3.6	-	-	-	30.9	-	-	-	40
008H-XX	208	5.6	-	-	-	43.1	-	-	-	50
010H-XX	208	7.2	-	-	-	52.5	-	-	-	60
015H-XX	208	10.8	52.5	21.6	-	74.2	60	30	-	80
020H-XX	208	14.4	52.5	43.3	-	95.8	60	50	-	100
025H-XX	208	18.0	52.5	43.3	21.6	74.2	60	30	25	125
030H-XX	208	21.6	52.5	43.3	43.3	95.8	60	50	50	150
009Q-XX	240	9.0	-	-	-	35.6	-	-	-	40
015Q-XX	240	14.4	-	-	-	51.9	-	-	-	60
009Q-XX	208	6.8	-	-	-	32.1	-	-	-	40
015Q-XX	208	10.8	-	-	-	46.0	-	-	-	50

## Basic Airflow Setting

CFM	B-CABINET				Nominal Capacity								CFM	C-CABINET				Nominal Capacity				
	1	2	3	4	1.5	2.0	2.5	3.0	3.5	4.0	1	2		3	4	3.0	3.5	4.0	5.0			
720	0	0	0	1																		
800	0	0	0	0																		
850	1	0	0	1																		
880	0	0	1	0																		
945	1	0	0	0																		
1040	1	0	1	0																		
1085	0	1	0	1																		
1140	1	1	0	1																		
1205	0	1	0	0																		
1265	1	1	0	0																		
1325	0	1	1	0																		
1390	1	1	1	0																		

Notes: 1=ON, 0=OFF

We Encourage Professionals



US

Through Technician Certification by NATE



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH AIR

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