



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

061 Foot  
OCT 7  
OCT 11 2007

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 70 STURER ST Use of Building School Date 25 Sept 07

Name and address of owner of appliance Wayn Plete School

Installer's name and address JOHNSON + JORDAN MECH. Telephone 883-8375  
18 Mussey Rd SCAR Me TX Call Scott

**Location of appliance:**

- Basement
- Attic
- Floor
- Roof

**Type of Fuel:**

- Gas
- Oil
- Solid
- NONE

Appliance Name: AIR EXCHANGER

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 # 2051C
- Solid Fuel # \_\_\_\_\_
- Oil # \_\_\_\_\_
- Gas # \_\_\_\_\_
- Other \_\_\_\_\_

**Type of Chimney:** NONE

Masonry Lined  
Factory built \_\_\_\_\_

Metal  
Factory Built U.L. Listing # \_\_\_\_\_

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

**Type of Fuel Tank:** NONE

- Oil
- Gas

Size of Tank \_\_\_\_\_

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

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

Cost of Work: \$ 20,000 -

Permit Fee: \$ 220 -

**Approved**

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

**Approved with Conditions**

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer William O'Neil

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

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

<b>Permit No:</b> 07-1229	<b>Date Applied For:</b> 10/01/2007	<b>CBL:</b> 061 F007001
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<b>Location of Construction:</b> 20 STORER ST	<b>Owner Name:</b> WAYNFLETE SCHOOL THE	<b>Owner Address:</b> 360 SPRING ST	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Johnson & Jordan	<b>Contractor Address:</b> 18 Mussey Road Scarborough	<b>Phone</b> (207) 883-8345
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> HVAC	

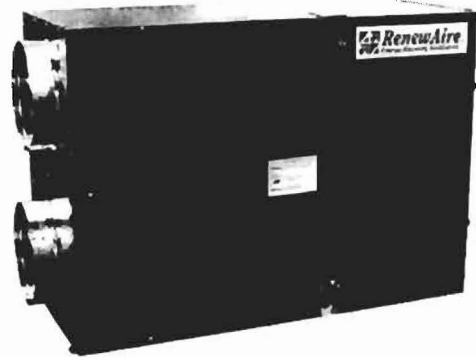
<b>Proposed Use:</b> Institutional "Waynflete School" install new HE1XINH indoor air exchanger unit	<b>Proposed Project Description:</b> install new HE1XINH indoor air exchanger unit
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Ann Machado	<b>Approval Date:</b> 10/12/2007
<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>		
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Tom Markley	<b>Approval Date:</b> 10/17/2007
<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>		
1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.			
<b>Dept:</b> Fire	<b>Status:</b> Approved	<b>Reviewer:</b> Capt Greg Cass	<b>Approval Date:</b> 10/15/2007
<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>		

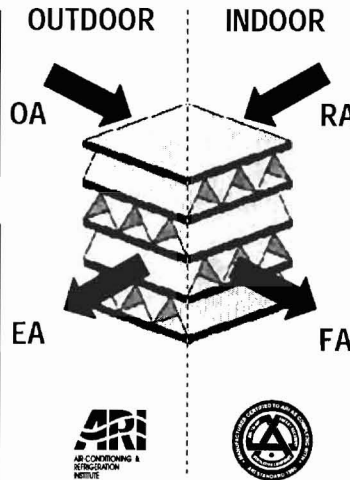
# HE1XINH Indoor Unit

## Submittal Data

Job Name:		
Job Location:		
Job Reference Number:		
Unit Reference Number:		
Engineer:		
Distributor:		
Contractor:		
For Reference: <input checked="" type="checkbox"/>	For Approval: <input checked="" type="checkbox"/>	For Construction: <input checked="" type="checkbox"/>
Requested Delivery Date:		
Submitted by:	Date:	
Address:		
Tel:	Fax:	



Winter	Summer	Units
		DB °F
		WB °F
		RH %
		Enthalpy BTU/Lb



Winter	Summer	Units
		Airflow CFM
		DB °F
		WB °F
		RH %
		Enthalpy BTU/Lb

Design Ventilation Load		
Winter	Summer	BTU/Hr
	BTUs Tons	Without RenewAire
	BTUs Tons	With RenewAire
	BTUs Tons	<b>RenewAire Savings</b>

Winter	Summer	Units
		Airflow CFM
		DB °F
		WB °F
		RH %
		Enthalpy BTU/Lb

ARI-1060 Certified Performance - Model Number L125-00													
Type		Tilt Angle			Nominal Airflow				Pressure Drop				
Plate		N/A			100% - 750 SCFM 75% - 563 SCFM				0.7 in. H <sub>2</sub> O 0.5 in. H <sub>2</sub> O				
Leakage Ratings					Thermal Effectiveness Ratings at 0" Pressure Differential								
	Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow	Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total	
Test 1	-1 in. H <sub>2</sub> O	1.5%	1.0	N/A	750 CFM	Heating	70%	45%	62%	750 CFM	70%	45%	62%
Test 2	0 in. H <sub>2</sub> O	0.0%	1.02	N/A	750 CFM	Cooling	69%	25%	42%	69%	25%	42%	
Test 3	1 in. H <sub>2</sub> O	0.0%	1.05	N/A	563 CFM	Heating	74%	50%	66%	563 CFM	74%	50%	66%
					563 CFM	Cooling	73%	31%	47%	73%	31%	47%	

NOTE: SCFM = Standard Cubic Feet per Minute OACF = Outdoor Air Correction Factor EATR = Exhaust Air Transfer Ratio N/A = Not Applicable

Energy recovery component certified in accordance with ARI standard 1060-2000. Actual performance in packaged equipment may vary.



Toll Free: 800.627.4499 Fax: 608.221.2824 For Technical Updates and other current info, visit: [www.renewaire.com](http://www.renewaire.com)

# HE1XINH K (G4)

F (std) H (0.75) E (std) H (0.75)

FA Hp

EA Hp

Contactor

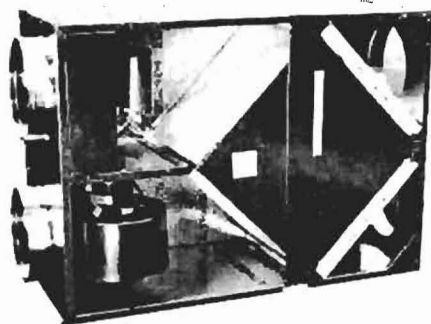
Disconnect

Transformer

Other

UL

\* Every option is not available on every model.



D (Direct) P V  
 Wall Drive Phase Voltage

## Specifications

Ventilation Type: Static Plate, Heat and Humidity Transfer					
Typical Airflow Range: 250-925 CFM					
ARI 1060 Certified Core: One L125-00					
Airflow Rating Points (for ARI): 750 CFM and 560 CFM					
Number Motors: Two, 0.75 hp					
Field Selectable Voltage (you must order phase)					
V	HZ	Phase	FLA	Min. Cir. Amps	Max. Fuse Size
115	60	Single	8.6	19.4	25
208-230	60	Single	4.3	9.7	15
277	60	Single	2.4	5.4	15
208-230	60	Three	2.1	4.7	15
460	60	Three	1.1	2.5	15
Control Voltage: 24, 115, 230 VAC					
Filters: Two total, MERV 8, 2" pleated, 20" x 20" nominal size					
Weight: 211 lbs (unit), 250 lbs (shipping weight)					
Shipping Dimensions: 44" W x 56" L x 27" H					
Options: Controls (see pages 66 & 67) Wall caps					

## G4 Performance

Airflow CFM	ESP in H <sub>2</sub> O	Watts		Temp EFF%	Total EFF% Winter/Summer*
		1P	3P		
560	1.35	875	597	75	67/53
635	1.25	950	691	73	66/51
750	0.90	1,090	856	71	63/48
795	0.75	1,160	928	70	62/47
860	0.50	1,270	1,039	69	61/46
925	0.25	1,375	1,158	67	59/44
970	0.00	1,490	1,246	66	58/43

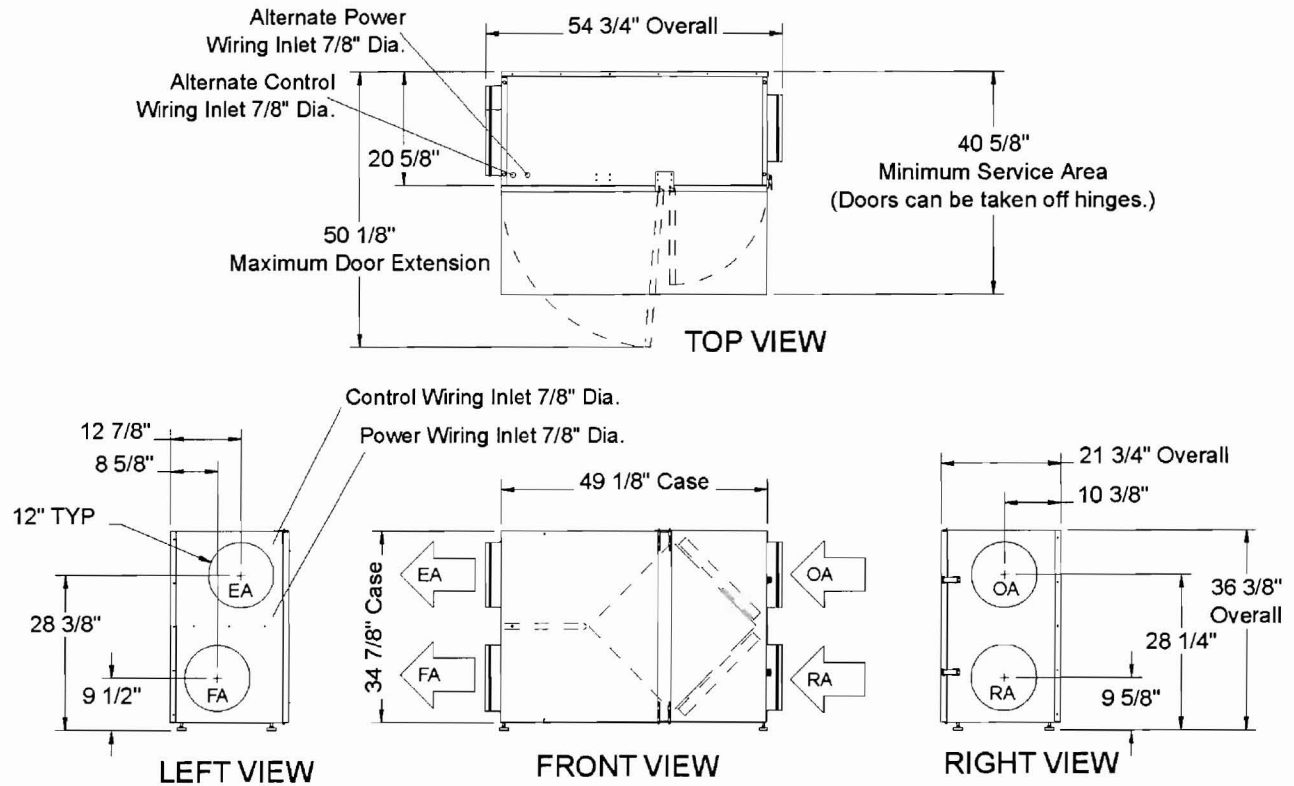
\*At ARI 1060 standard conditions  
 (See certified data on page 68 for core components).



# HE1XINH

## Unit Dimensions

EA: Exhaust Air to outdoors  
 OA: Outdoor Air intake  
 RA: Room Air to be exhausted  
 FA: Fresh Air to inside

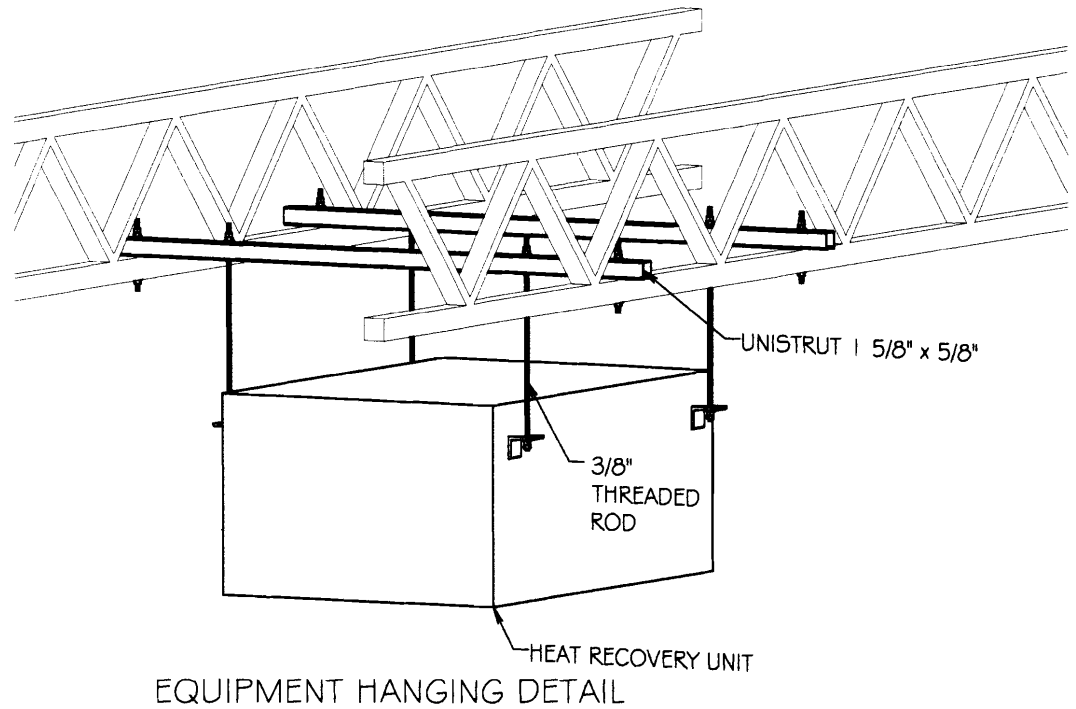
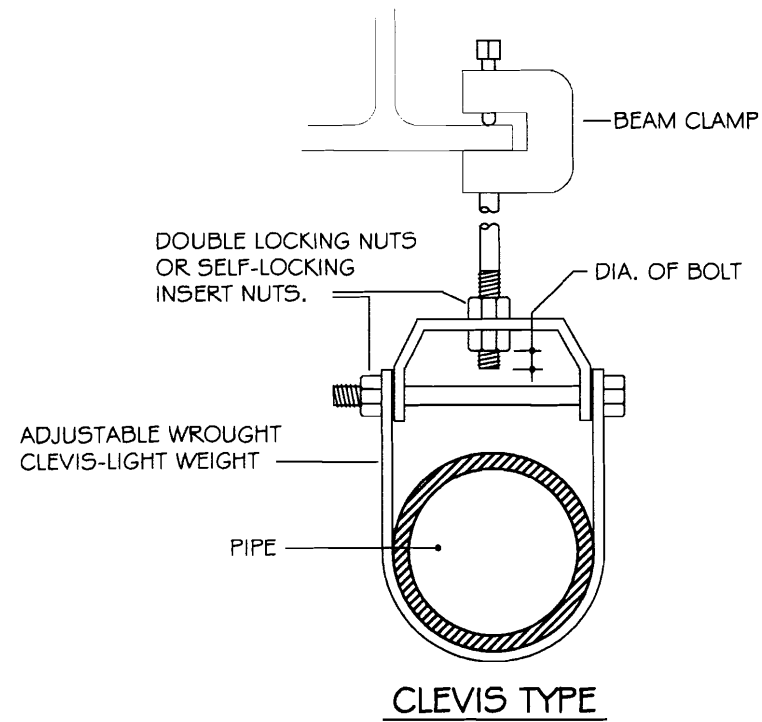


## Model Configuration HE1XINH...

Core	Wall	Drive	Phase	Voltage	FA Hp		EA Hp		Contactor
K (G4)	S (Single)	D (Direct)	P1	V1 (115)	F (Std)	H (0.75)	F (Std)	H (0.75)	A (24 VAC)
				V4 (460)					Y (Inv Rdy)
	D (Double)	V5 (208-230)			C (230 VAC)				
		V6 (115/208-230)			D (Two 24VAC)				
		V7 (208-230/460)			N (None)				
		V9 (277)							

Disconnect	Transformer	Other	UL
- (None)	- (None)	- (None)	L (UL Listed)
N (Nonfused)	A (TR40)	PA (Paint)	N (Not UL Listed)
F (Fused)			





SCALE : N.T.S.

STATE OF MAINE  
 MICHAEL PETER JOHNSON  
 No. 4528  
 LICENSED PROFESSIONAL ENGINEER  
*Michael Johnson*  
 10/07

<b>JOHNSON &amp; JORDAN</b>		MECHANICAL CONTRACTORS	
18 MUSSEY ROAD		SCARBOROUGH, MAINE 04074	
TEL. (207) 883-8345		FAX (207) 883-8619	
TITLE: HANGER DETAILS			
PROJECT: WAYNFLEET FOUNDERS			
JOB No.:		DATE:	9-25-07
SKETCH No.:		REV: 0	DRN By: FAM