

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that SHELDON J ASHBY

Located At 288 EASTERN PROMENADE

Job ID: 2012-04-3656-HVAC

CBL: 015-C-003-001

has permission to install an HVAC system (Single Family Residence).

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

04/18/2012

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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



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: 2012-04-3656-HVAC

Located At: 288 EASTERN
PROMENADE

CBL: 015- C-003-001

Conditions of Approval:

Zoning

1. This property shall remain a single family dwelling. Any change of use shall require a separate permit application for review and approval.

Building

1. A separate Electrical Permit is required in conjunction with this permit.
2. The installation must comply with UL, the Manufacturers' Listing, and State of Maine HVAC Regulations.
3. All conditions under Permit # 2011-10-2509-ALTR apply.

Jonathan Rioux - FW: HFI

From: "Roger Willett" <RWillett@srgirep.com>
To: <jrioux@portlandmaine.gov>
Date: 4/18/2012 9:35 AM
Subject: FW: HFI
CC: <bill@gelinashvac.com>

Here is the numbers you requested. Please let me know if there is anything else you require.

Thank you.

Sincerely,

Roger Willett
Territory Manager
Sweeney Rogers Geraghty
Cell:207-385-5422
Corporate Office: 508-822-3939
rwillett@srgirep.com



From: Arturo Thur De Koos [mailto:athurdekoos@fujitsugeneral.com]
Sent: Wednesday, April 18, 2012 9:29 AM
To: Roger Willett
Cc: Bill Hick
Subject: RE: HFI

Roger,

The HFI models are ETL certified, which is the independent lab chosen by AHRI.
The controller number is 91987. All units, indoor and outdoor, have this number printed with the name plate.

Regards,

Arturo Thur de Koos
Government & Regulatory Compliance Engineer
Fujitsu General America Inc.
353 Route 46 West
Fairfield, NJ 07004
Phone: 973-575-0380 x 1641
Fax: 866-264-5065
please visit our web site <http://www.fujitsugeneral.com/>

From: Roger Willett [<mailto:RWillett@srgirep.com>]

Sent: Wednesday, April 18, 2012 9:18 AM

To: Arturo Thur De Koos

Cc: Bill Hick

Subject: HFI

I have an inspector asking for the UL listings for the HFI multi and Flex systems. Can you send them to me?

Thank you.

Sincerely,

Roger Willett

Territory Manager

Sweeney Rogers Geraghty

Cell:207-385-5422


Corporate Office: 508-822-3939

rwillett@srgirep.com



City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-04-3656-HVAC	Date Applied: 4/2/2012	CBL: 015- C-003-001	
Location of Construction: 288 EASTERN PROMENADE	Owner Name: SHELDON J ASHBY	Owner Address: 288 EASTERN PROMENADE PORTLAND, ME 04101	Phone:
Business Name:	Contractor Name: William W Gelinas – Gelinas HVAC Services Inc	Contractor Address: 2 Washington AVE SCARBOROUGH MAINE 04074	Phone: (207) 885-0771
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC - HVAC	Zone: R-6
Past Use: Single family	Proposed Use: Same - Single family – Install a Fujitsu hybridflex inverter on wall	Cost of Work: 42000.00	CEO District:
		Fire Dept: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R3 Type: HVAC
		Signature:	Signature: 
Proposed Project Description: install 7 hybrid flex inverter on wall		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	Zoning Approval		

<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 informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>OK w/condition 4/4/12 ASU</i></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 Dist 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: <i>ASU</i></p>
	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

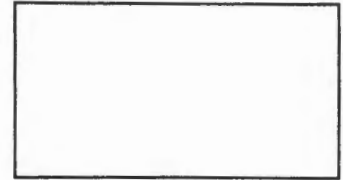
R-6

2012 04 3656 66

FILL IN AND SIGN WITH INK



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



015 C003

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 288 EASTERN PROM Use of Building Residence Date 4/2/12'
 Name and address of owner of appliance Sheldon Abby
PO Box 3793 Portland, ME. 04104-3793
 Installer's name and address William Gelinias Gelinias HVAC Services INC Scarborough, ME. 04074
 Telephone 207 885-0771

RECEIVED

APR 02 2012

Dept. of Building Inspections
City of Portland Maine

Location of appliance:
 Basement Floor
 Attic Roof
 wall

Type of Fuel:
 Gas Oil Solid
 ELECTRIC

Appliance Name: Fujitsu
 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 # _____
 Other Refrigeration Type I & II
 10 # 059205417

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

Type of Fuel Tank
 Oil N/A
 Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 41,100

Permit Fee: \$ _____

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer William W. Gelinias



Products

- Wall Mounted

- **Hybrid Flex Inverter**
Multi-Zone Line (2 - 4 Zones)
Flex Inverter Line (2 - 8 Zones)

- Cassette

- Large Ceiling

- Universal Floor / Ceiling

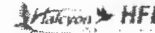
Locate A Contractor



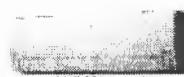
Download the Flex-Zone Brochure (2 - 8 Zones)



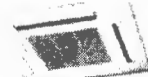
Products > Halcyon Hybrid Flex Inverter



Halcyon Hybrid Flex Inverter - Up to 8 Zones



Wall Mounted Indoor Unit
ASU7RLF, 9RLF, 12RLF, 18RLF, 24RLF



Compact Cassette Indoor Unit
AUU9RLF, AUU12RLF, AUU18RLF



Slim Duct Indoor Unit
ARU9RLF, 12RLF, 18RLF, 24RLF



Outdoor Unit
AOU48RLXFZ

A Halcyon Hybrid Flex Inverter (HFI) system allows you to connect up to 8 indoor units to one outdoor condensing unit, creating 8 individual zones of comfort. HFI provides both heating and cooling for year-round comfort. Choose from three indoor unit styles - wall mounted, cassette and slim duct - to best match your decor. A Central Remote Control allows you to control all of the indoor units from one keypad. Create the right combinations, the right quantity, the right style indoor units, and the right capacity. It's the right choice for your home or business.

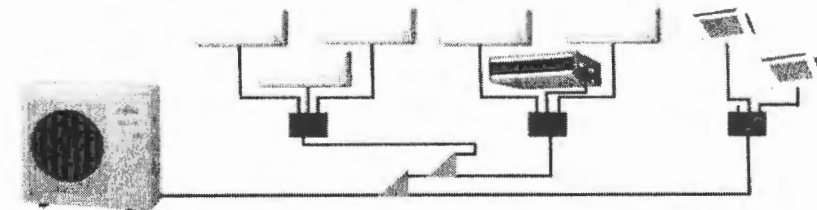
Ask Fujitsu

Need Pricing?
Contact a local contractor.

Features Specifications Dimensions Downloads

Individual Zoning

Each indoor unit can be operated independently. That is, on/off, temperature, air movement, up/down (wall mount unit only), time clock operation, can all be controlled from their own remote.



Inverter Technology

Through new, advanced technology, Inverter air conditioners are more economical to operate and quieter to run than conventional units. They can handle greater extremes in temperature, are smoother and more stable in operation, and reach the desired temperature faster than conventional air conditioners.

Inverter control

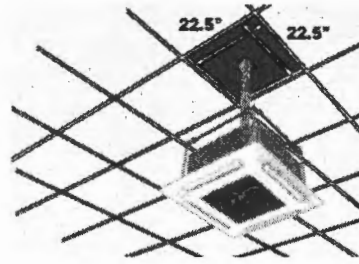
The Inverter component allows the outdoor unit to vary its speed and output to match the required capacity of the indoor unit. Thus, the Inverter model can achieve 30% more operating efficiency than conventional models and therefore, is much less expensive to run.

130% Connectable Capacity

The HFI system is rated at 48,000 BTUs but you can connect up to 130%, or 62,000 BTUs of rated evaporator capacity to the AOU48RLXFZ. All indoor units can operate at once, however if all the evaporators are calling for cooling or heating at the same time it will decrease the capacity of each evaporator not to exceed the condenser's capacity. As zones meet desired set point the system's other evaporators increase output up to the evaporator's rated capacity.

For example: The load on a small 2-story office building with a business downstairs and worker apartments upstairs is 62,000 BTUs (38,00 BTUs downstairs and 24,000 BTUs upstairs) but the workers aren't upstairs and downstairs at the same time, therefore not all units will be running simultaneously allowing 100% heating or cooling to occupied spaces.

Cassette Model Fits Into Standard Ceiling Tile



Central Remote Control (Optional Accessory Part #UTY-DMMUM)

One wired Central Remote Control can control up to 8 indoor units. Features include:



- Centralized control
- Monitor each indoor unit
- Large backlit LCD panel
- 4-way navigation pad
- Absent home operation mode
- Economy mode

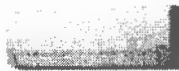
Hidden or Showcased Indoor Unit

Choose from either a wall mounted, compact cassette or slim duct unit for either a showcased or hidden look.

Stable and comfortable

The air conditioner's output power is stabilized at the optimum setting within the range from maximum to minimum to match the load, which is affected by factors such as the room temperature and the number of people present.

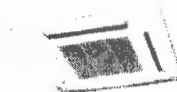
Other Standard Features Include:



Wall Mount

- Apple Catechin Filter
- Ion Deodorizing Filter
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: Up/ Down
- Auto Louver: 4-way*
- Auto Mode
- Minimum Heat Mode
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Power Diffuser*

*Feature of models ASU18, 24RLF only.



Cassette

- Weekly Timer
- Dry Mode
- Auto Louver: Up/ Down
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Long Piping Length
- Remote Temperature Sensor
- High Ceiling Mode
- Condensate Pump
- 2-Stage Turbo Fan
- Fresh Air Intake**

**Requires Fujitsu's Optional Fresh Air Kit part #UTZ-VXAA. Allows for a 4-inch flex duct connection and a field supplied duct booster capable of 60 CFM at a .2" W.C. or 90 CFM at .4" W.C. For fan curve, see installation manual.



Slim Duct

- Dry Mode
- Weekly Timer
- Sleep Timer*
- 24-Hour Timer*
- Minimum Heat Mode*
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Long Piping Length
- Condensate Pump
- Fresh Air Intake

*Available only with optional wireless remote control.

Gelinas HVAC Services Inc.
2 Washington ave.
Scarborough, Me. 04074
(207)885-0771

Date: March 26, 2012

To: Sheldon Ashby
288 Eastern Prom
Portland, Me.

Re: **OPTION V**: Installation of Fujitsu heat pump system for all living areas.

Gelinas HVAC Services, Inc. is pleased to have this opportunity to offer our services to you. We appreciate your business and the confidence you have placed in us. We propose to: Install One (1) Fujitsu multi-flex heat pump system includes one outdoor unit, 3-12k units and 2-9K units for upper floors. A Fujitsu dual system shall be utilized for the 1st floor areas with ducted concealed units located in basement and outdoor heat pump located alongside other. One Fujitsu Dual system utilized for area above garage and 3 HRV units.

Furnish and Install;

1. One (1) Fujitsu outdoor multi-flex heat pump unit. (to be located outside in rear of home)
2. Two (2) Fujitsu 9K indoor concealed type units for upper 2 floors.
3. Three (3) Fujitsu 12K indoor concealed units for upper 2 floors.
4. One (1) Fujitsu 18K outdoor heat pump with condenser pad. (to be located next to others)
5. One (1) Fujitsu 24K outdoor heat pump multi unit. (to be located alongside others)
6. One (1) Fujitsu 12K concealed type unit for open area above garage.
7. One (1) Fujitsu 9K concealed type unit for the 2 bedrooms.
8. All wired thermostats needed for each indoor unit.
9. All refrigeration line sets needed for complete installation.
10. All sheet metal supply ducting needed with insulation wrap.
11. All floor type supply grills to be (typical Hart & Cooley).
12. All wall and ceiling type grills to be (typical Hart & Cooley)
13. All insulated flexible supply hose needed *max length of 7ft.
14. All low voltage control wiring.
15. All PVC condensate piping needed (to terminate in basement drain piping).
16. Three (3) HRV system to be installed. *includes fresh air & stale air outdoor hoods with 6inch indoor ducting for ceiling grills.
17. Three (3) UV light assy. *to be installed in HRV units.

18. Start, test and adjust newly installed systems.
19. Seal all exterior penetrations weather tight.
20. Warranty; Gelinas HVAC Services Inc. shall support all manf. Parts/labor warranties.*see manf. Warranty.
21. Proper clean up of work areas daily.

Exclusions:

- 1) All electrical power wiring of equipment.
- 2) All concealing of units, ducts and hose kits.
- 3) Underground conduit suitable for routing of refrigeration lines.

Notes: 1) to utilize some of the existing installed floor boots.

2) Customer to supply 18hrs of labor primarily drilling of holes for routing of refrigeration lines.

The above referenced heat pump installation shall be completed for:
\$41,100.00Dollars. Forty one thousand one hundred dollars and no cents.

Payment terms

- *30% upfront with signed contract.
- *40 % to be billed at roughed-in stage
- *30% remaining balance to be billed at completion

- a. Installation to begin within two (2) weeks of receipt of the signed contract and deposit given materials are available.
- b. Work to be performed Monday through Friday, 8:30 A.M – 4:30 P.M.
- c. Should installation be stopped for any reason, Gelinas HVAC Services, Inc. shall be paid in full for all labor and materials provided up to point of interruption.
- d. There shall be a one (1) year warranty on labor once installation has been completed.
- e. Materials are covered by manufacturers' warranties.
- f. Should a dispute arise concerning the provisions of this contract or the performance by the parties, the parties agree to settle this dispute by jointly paying for mediation with the attempt to resolve differences.
- g. Any alteration or deviation from the above contractual specifications that results in a revision of the contract price will be executed only upon the parties entering into a written change order.
- h. Prices good, only for fifteen (15) days from said date.

- i. The undersigned has authority as owner or owner's agent to authorize the work described in this contract.

PROPOSED BY: _____ DATE: _____

ACCEPTED BY: _____ DATE: _____

PROPOSAL MUST BE SIGNED AND RETURNED ALONG WITH THE FIRST PAYMENT BEFORE WORK CAN BEGIN. IN THE EVENT THAT THE OWNER FAILS, FOR ANY REASON, TO PAY FOR ALL LABOR, MATERIALS AND PARTS WITHIN THIRTY (30) DAYS OF THE DATE OF INVOICE, THE OWNER AGREES TO PAY, IN ADDITION TO ALL OTHER AMOUNTS DUE UNDER THIS CONTRACT, A FINANCE CHARGE COMPUTED AT A PERIODIC RATE OF 18%. OWNER ALSO AGREES TO PAY A \$25.00 PENALTY FOR ANY DISHONORED CHECK. IN THE EVENT THAT OWNER FAILS, FOR ANY REASON, TO PAY FOR ALL LABOR, MATERIALS AND PARTS WITHIN THIRTY (30) DAYS OF THE DATE OF INVOICE, THE OWNER AGREES TO PAY TO GELINAS HVAC SERVICES INC ENFORCING ITS RIGHTS HEREUNDER.

Gelinas HVAC Services Inc.
2 Washington ave.
Scarborough, Me. 04074
(207)885-0771

Date: March 26, 2012

To: Sheldon Ashby
229 Congress Street
Portland, Me.

Re: **OPTION VI:** Installation of two Fujitsu single head type heat pump system for the 2 retail areas.

Gelinas HVAC Services, Inc. is pleased to have this opportunity to offer our services to you. We appreciate your business and the confidence you have placed in us. We propose to: Install two (2) Fujitsu 30K heat pump mini-ductless systems for the street level retail areas.

Furnish and Install;

1. Two (2) Fujitsu 30K wall mounted heat pumps.
2. Two (2) Fujitsu 30K outdoor heat pumps.
3. Two (2) Fujitsu outdoor wall supports.
4. Two (2) Refrigeration line sets.
5. All pvc condensate piping needed to terminate drain in basement.
6. All communication wiring needed.
7. Start, test and adjust newly installed systems.
8. Seal all exterior penetrations weather tight.
9. Warranty; Gelinas HVAC Services Inc. shall support all manf. Parts/labor warranties.*see manf. Warranty.
10. Proper clean up of work areas daily.

Exclusions:

- 1) All electrical power wiring of equipment.
- 2) All drilling of holes needed for mechanical lines.

The above referenced air conditioning installation shall be completed for:
\$8,900.00Dollars. Eight thousand nine hundred dollars and no cents.

Payment terms

- *30% upfront with signed contract.
- *40 % to be billed at roughed-in stage
- *30% remaining balance to be billed at completion

- a. Installation to begin within two (2) weeks of receipt of the signed contract and deposit given materials are available.
- b. Work to be performed Monday through Friday, 8:30 A.M – 4:30 P.M.
- c. Should installation be stopped for any reason, Gelinac HVAC Services, Inc. shall be paid in full for all labor and materials provided up to point of interruption.
- d. There shall be a one (1) year warranty on labor once installation has been completed.
- e. Materials are covered by manufacturers' warranties.
- f. Should a dispute arise concerning the provisions of this contract or the performance by the parties, the parties agree to settle this dispute by jointly paying for mediation with the attempt to resolve differences.
- g. Any alteration or deviation from the above contractual specifications that results in a revision of the contract price will be executed only upon the parties entering into a written change order.
- h. Prices good, only for fifteen (15) days from said date.
- i. The undersigned has authority as owner or owner's agent to authorize the work described in this contract.

PROPOSED BY: _____ DATE: _____

ACCEPTED BY: _____ DATE: _____

PROPOSAL MUST BE SIGNED AND RETURNED ALONG WITH THE FIRST PAYMENT BEFORE WORK CAN BEGIN. IN THE EVENT THAT THE OWNER FAILS, FOR ANY REASON, TO PAY FOR ALL LABOR, MATERIALS AND PARTS WITHIN THIRTY (30) DAYS OF THE DATE OF INVOICE, THE OWNER AGREES TO PAY, IN ADDITION TO ALL OTHER AMOUNTS DUE UNDER THIS CONTRACT, A FINANCE CHARGE COMPUTED AT A PERIODIC RATE OF 18%. OWNER ALSO AGREES TO PAY A \$25.00 PENALTY FOR ANY DISHONORED CHECK. IN THE EVENT THAT OWNER FAILS, FOR ANY REASON, TO PAY FOR ALL LABOR, MATERIALS AND PARTS WITHIN THIRTY (30) DAYS OF THE DATE OF INVOICE, THE OWNER AGREES TO PAY TO GELINAC HVAC SERVICES INC ENFORCING ITS RIGHTS HEREUNDER.



PORTLAND MAINE

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

Receipts Details:

Tender Information: Check , BusinessName: Gelinas Hvac Services, Inc, Check Number: 19658

Tender Amount: 440.00

Receipt Header:

Cashier Id: gguertin

Receipt Date: 4/2/2012

Receipt Number: 42411

Receipt Details:

Referance ID:	5896	Fee Type:	BP-Constr
Receipt Number:	0	Payment Date:	
Transaction Amount:	440.00	Charge Amount:	440.00
Job ID: Job ID: 2012-04-3656-HVAC - install 7 hybrid flex inverter on wall			
Additional Comments: 288 Eastern prom			

Thank You for your Payment!

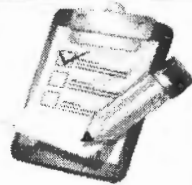


Quick Installation Guide

for Halcyon HFI Flex Zone Systems

- **WARNING:** Do not attempt to install this system unless you've completed Fujitsu Halcyon HFI Contractor Training online.
- To take the training, register or sign on to Fujitsu's Dealer Toolbox at www.fujitsugeneral.com/dealer_toolbox.htm.
- Once approved, log in and click on Portal, then Hal Tech Online Training.
- Technical support will not be provided on this Halcyon HFI system to any company that has not completed training first.
- The training material will answer 95% or more of all start-up or installation problems.
- Once training is completed and the installation is corrected to your training, then Fujitsu will gladly provide technical support.
- Use this Quick Installation Guide to install the 48,000 BTU Halcyon HFI Flex Zone system.
- Use the Installation Manual in the box only where this guide asks you to refer to it for more information
- To download the newest installation manual got to the Dealer Toolbox at www.fujitsugeneral.com/dealer_toolbox.htm.

1 Checklist



- AOU48RLXFZ Outdoor Condensing Unit
- Separation Tube Assemblies
 - when using more than one branch box
- Branch boxes
 - primary used for 1-3 indoor units
 - secondary used when installing more than 3 units
- Correctly sized line sets (both lines insulated separately)
- 2 to 8 Indoor units Halcyon HFI type (RLF)
- Pipe, wire, fittings, and mounting hardware
- R410a adaptor(s) Part# K9R410A55
- Nitrogen & regulator to purge lines
- Vacuum pump, micron gauge and torque wrench
- Normal tools for mini-split installation

2 Things to Note



- This is a quick installation guide not intended to replace the actual installation manual. For complete instructions follow the installation manual that is included with each piece of equipment.
- Don't take shortcuts and Don't follow any "rule of thumb"
- Always follow Local, State & Federal codes during installation
- Don't connect power to the equipment until you are ready to start and test.
- Adhere to all safety and installation warnings on the installation instructions for this equipment.
- Long piping can limit capacity. Please refer to the Design & Technical Manual for details.