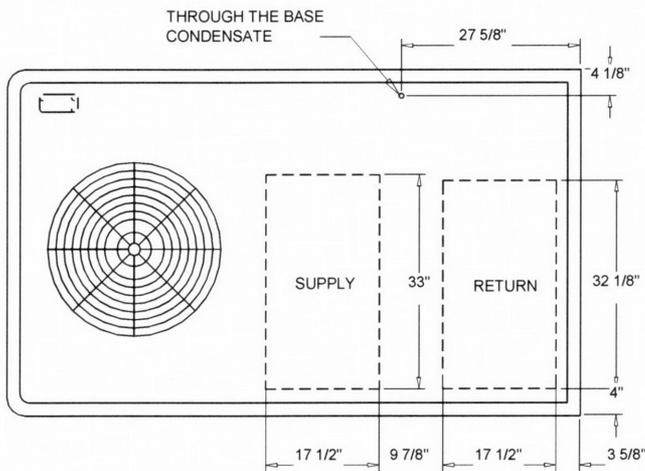
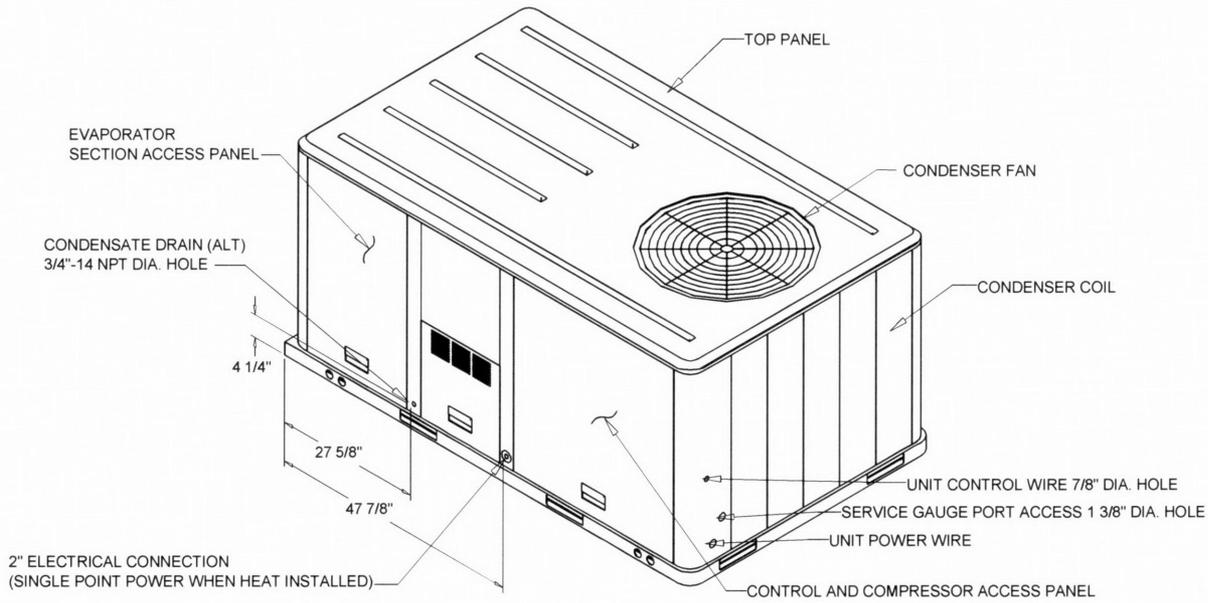


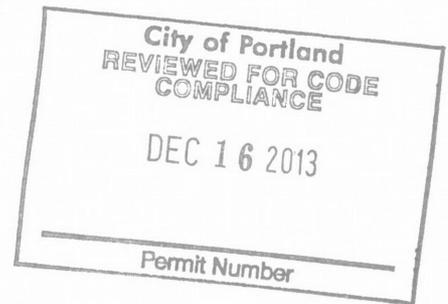
Unit Dimensions - 3-10Ton R-410 Packaged Heat Pump

19-23-0500-00 HVAC

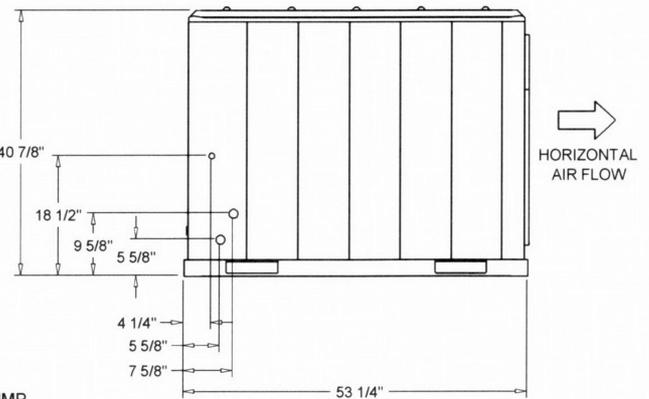
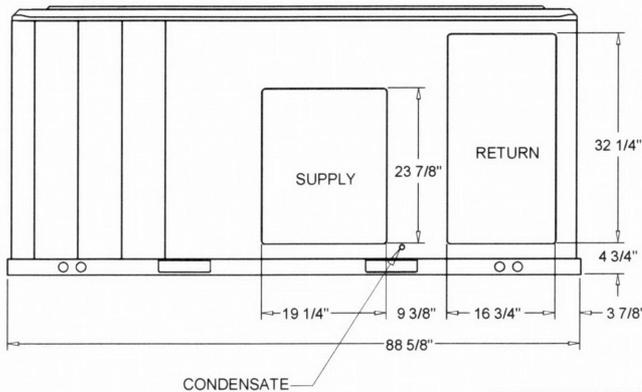
Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2



NOTES:  
 1. THRU -THE -BASE ELECTRICAL IS NOT STANDARD ON ALL UNITS.  
 2. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION



PLAN VIEW UNIT  
 DIMENSION DRAWING

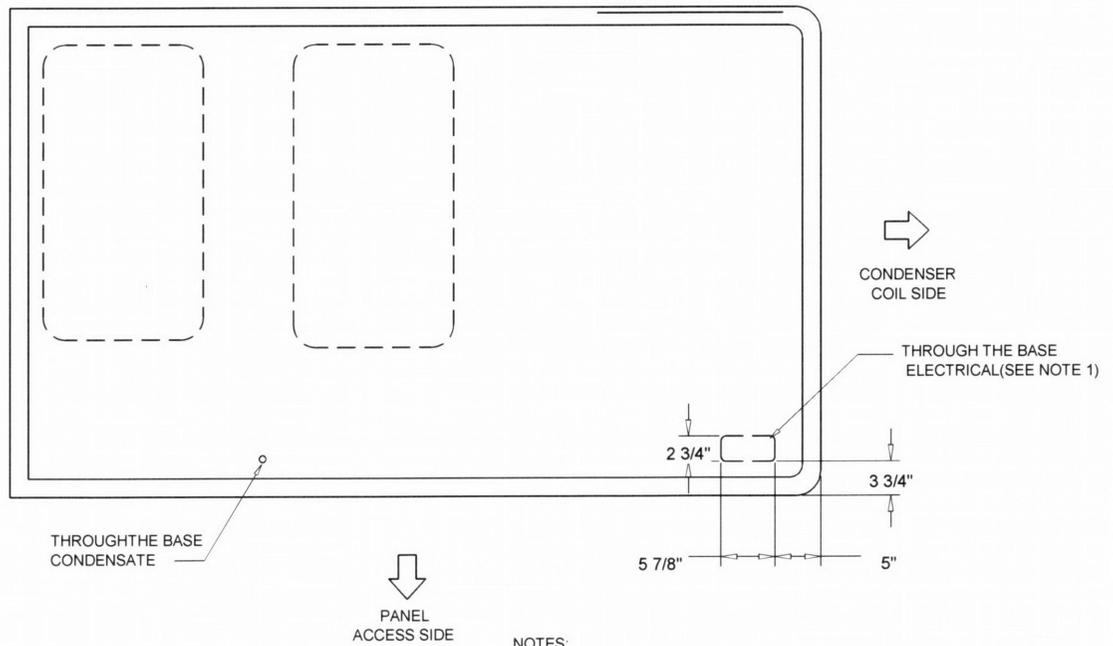
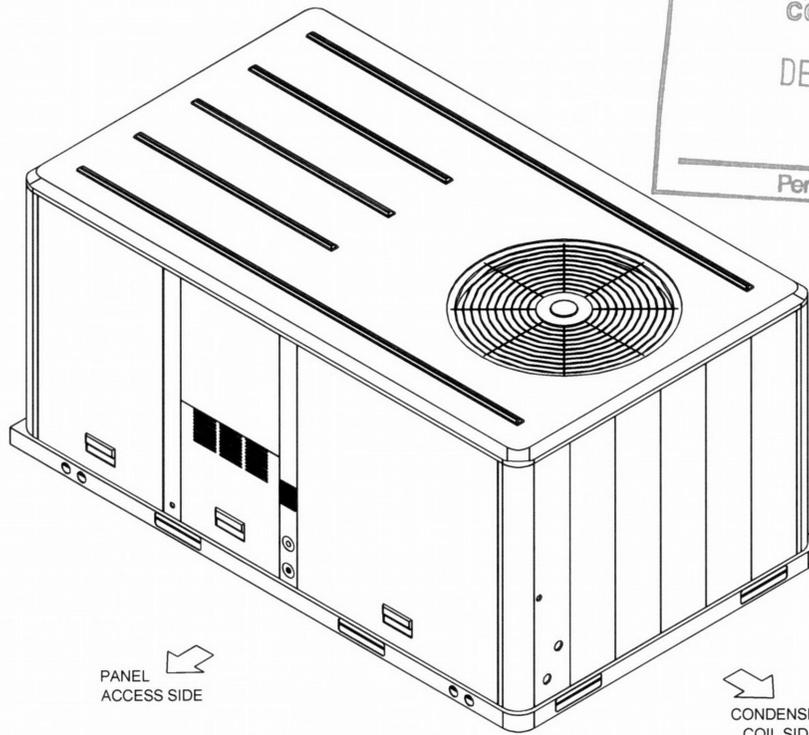
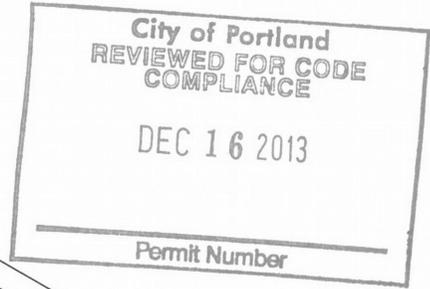


PACKAGED HEATPUMP  
 DIMENSION DRAWING

Unit Dimensions - 3-10Ton R-410 Packaged Heat Pump

19-23-0500-00 HVAC

Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2



- NOTES:
1. THRU -THE -BASE ELECTRICAL IS NOT STANDARD ON ALL UNITS.
  2. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION

THRU THE BASE ELECTRICAL  
PLAN / ISO VIEW DRAWING

**Unit Dimensions - 3-10Ton R-410 Packaged Heat Pump**  
**Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2**

19-23-0500-00 HVAC

**ELECTRICAL / GENERAL DATA**

<b>GENERAL</b> <sup>(2)(4)(6)</sup> Model: WSC072E Oversized Motor Unit Operating Voltage: 187-256 Unit Primary Voltage: 208 MCA: Unit Secondary Voltage: 230 MFS: Unit Hertz: 60 MCB: Unit Phase: 3 EER: 11.4 Standard Motor Minimum Circuit Ampacity: 36.3 MCA: Maximum Fuse Size: 50.0 MFS: Maximum (HACR) Circuit Breaker: 50.0 MCB:		<b>WITH HEATER</b> Heater kW Rating : 20.3 / 27.0 Stage: 2 MCA: 106.7 / 117.6 MFS: 110.0 / 125.0 MCB: 110.0 / 125.0 Oversized Motor MCA: MFS: MCB:	
<b>INDOOR MOTOR</b> Standard Motor Number: 1 Motor Speed (RRM): 1.0 Horsepower: - Phase: 3 Full Load Amps: 4.0 - 5.0 Locked Rotor Amps: 24.5		Outsized Motor Number: Motor Speed (RRM): Horsepower: Phase: Full Load Amps: Locked Rotor Amps:	
<b>COMPRESSOR</b> Circuit 1/2 Number: 1 Horsepower: 5.9 Phase: 3 Rated Load Amps: 22.4 Locked Rotor Amps: 149.0		<b>OUTDOOR MOTOR</b> Number: 1 Horsepower: 0.7 Motor Speed (RRM): 1100 Phase: 1 Full Load Amps: 3.3 Locked Rotor Amps: 9.5	
<b>POWER EXHAUST ACCESSORY</b> <sup>(3)</sup> (Field Installed Power Exhaust) Phase: 1 Horsepower: 0.87 Motor Speed (RPM): 1075 Full Load Amps: 5.7 Locked Rotor Amps: 13.7	<b>FILTERS</b> Type: Furnished: Yes Number: 4 Recommended: 16"x25"x2"		<b>REFRIGERANT</b> <sup>(2)</sup> Type: R410 Factory Charge Circuit #1: 12.0 lb Circuit #2: N/A

**NOTES:**

1. Maximum (HACR) Circuit Breaker sizing is for installations in the United States only.
2. Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
3. Value does not include Power Exhaust Accessory.
4. Value includes oversized motor.
5. Value does not include Power Exhaust Accessory.
6. EER is rated at AHRI conditions and in accordance with DOE test procedures.

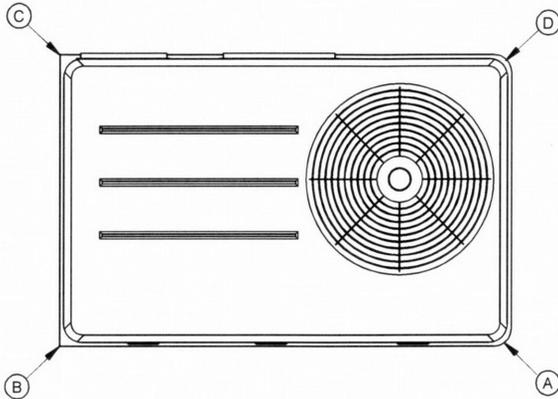
**Weight, Clearance & Rigging Diagram - 3-10Ton R-410 Packaged Heat Pump**

19-23-0500-00 HVAC

Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2

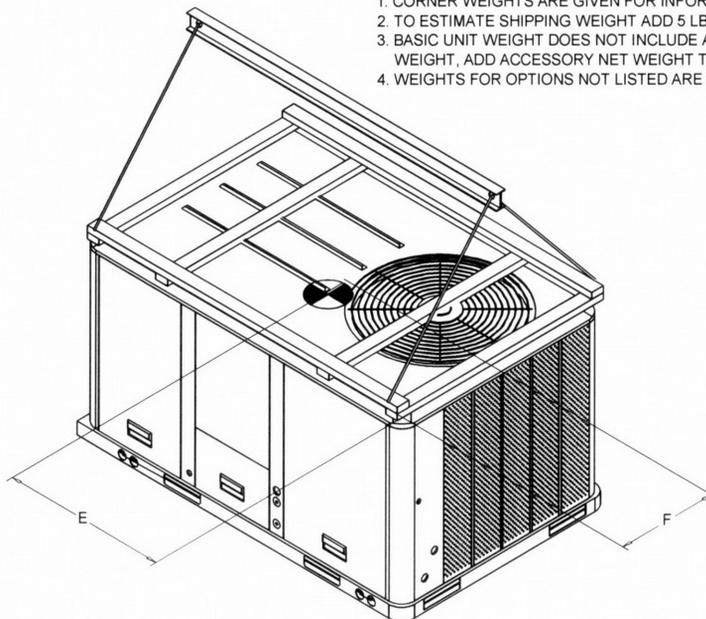
**INSTALLED ACCESSORIES NET WEIGHT DATA**

ACCESSORY		WEIGHTS			
ECONOMIZER		36.0 lb			
MOTORIZED OUTSIDE AIR DAMPER					
MANUAL OUTSIDE AIR DAMPER					
BAROMETRIC RELIEF					
OVERSIZED MOTOR					
BELT DRIVE MOTOR					
POWER EXHAUST		80.0 lb			
HEATER					
THROUGH THE BASE ELECTRICAL (FIOPS)		13.0 lb			
UNIT MOUNTED CIRCUIT BREAKER (FIOPS)					
UNIT MOUNTED DISCONNECT (FIOPS)		5.0 lb			
POWERED CONVENIENCE OUTLET (FIOPS)		38.0 lb			
HINGED DOORS (FIOPS)		12.0 lb			
HAIL GUARD					
SMOKE DETECTOR, SUPPLY / RETURN					
ROOF CURB					
BASIC UNIT WEIGHTS		CORNER WEIGHTS		CENTER OF GRAVITY	
SHIPPING	NET	(A)	(C)	(E) LENGHT	(F) WIDTH
835.0 lb	740.0 lb	(B) 235.0 lb	(D) 140.0 lb	40"	22"

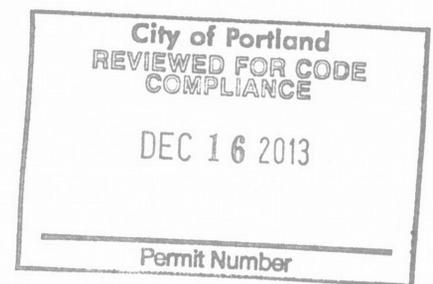


**PACKAGED HEAT PUMP**  
CORNER WEIGHT

- NOTE:
1. CORNER WEIGHTS ARE GIVEN FOR INFORMATION ONLY.
  2. TO ESTIMATE SHIPPING WEIGHT ADD 5 LBS TO NET WEIGHT.
  3. BASIC UNIT WEIGHT DOES NOT INCLUDE ACCESSORY WEIGHT. TO OBTAIN TOTAL WEIGHT, ADD ACCESSORY NET WEIGHT TO BASIC UNIT WEIGHT.
  4. WEIGHTS FOR OPTIONS NOT LISTED ARE >5 LBS.

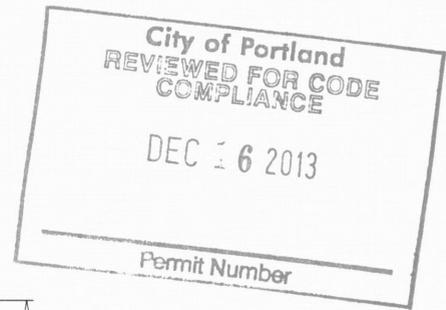
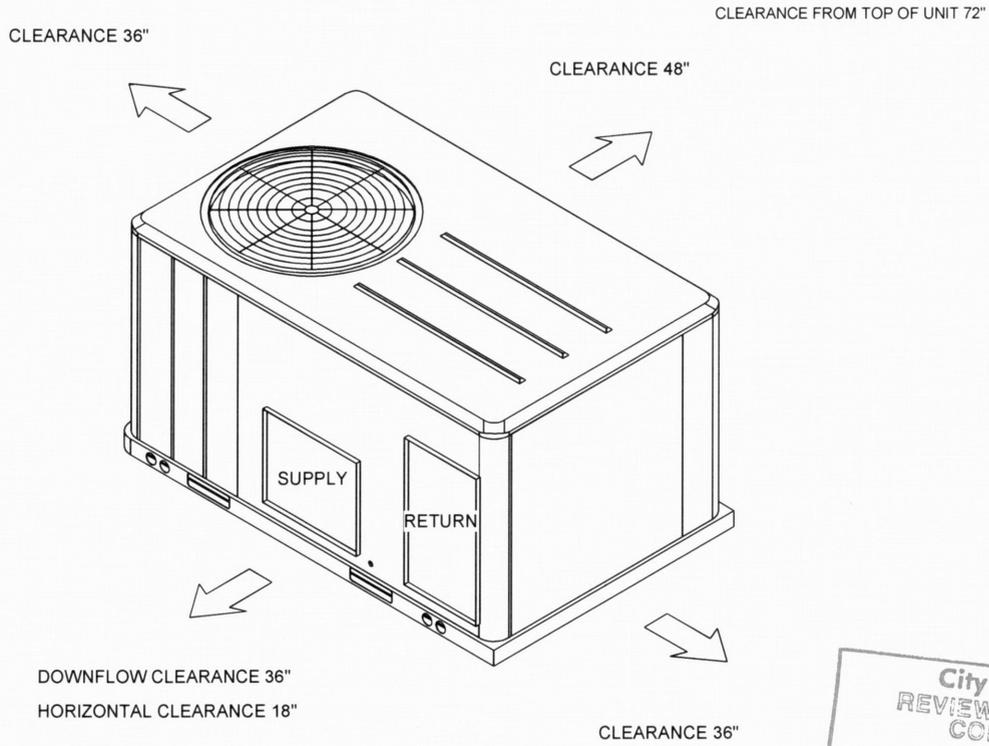


**PACKAGED HEAT PUMP**  
RIGGING AND CENTER OF GRAVITY

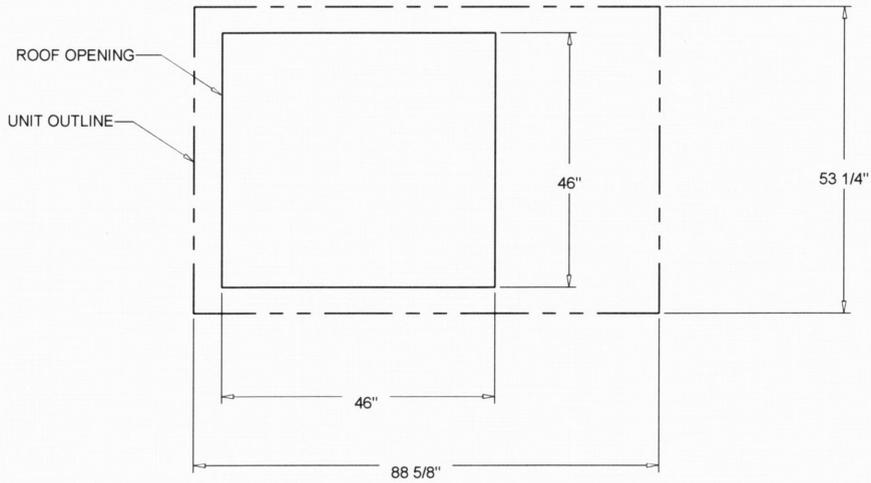


**Weight, Clearance & Rigging Diagram - 3-10Ton R-410 Packaged Heat Pump**  
 Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2

19-23-0500-00 HVAC



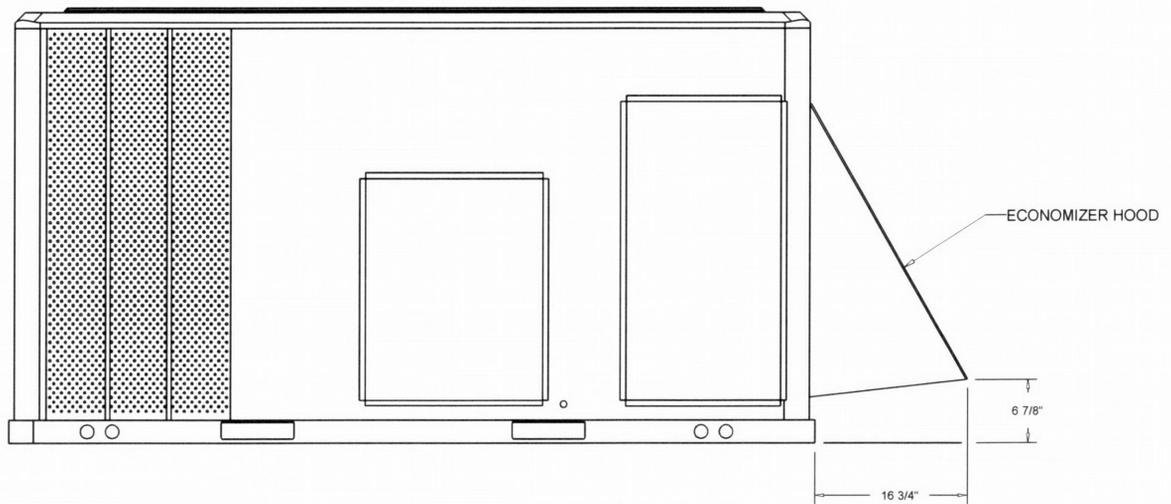
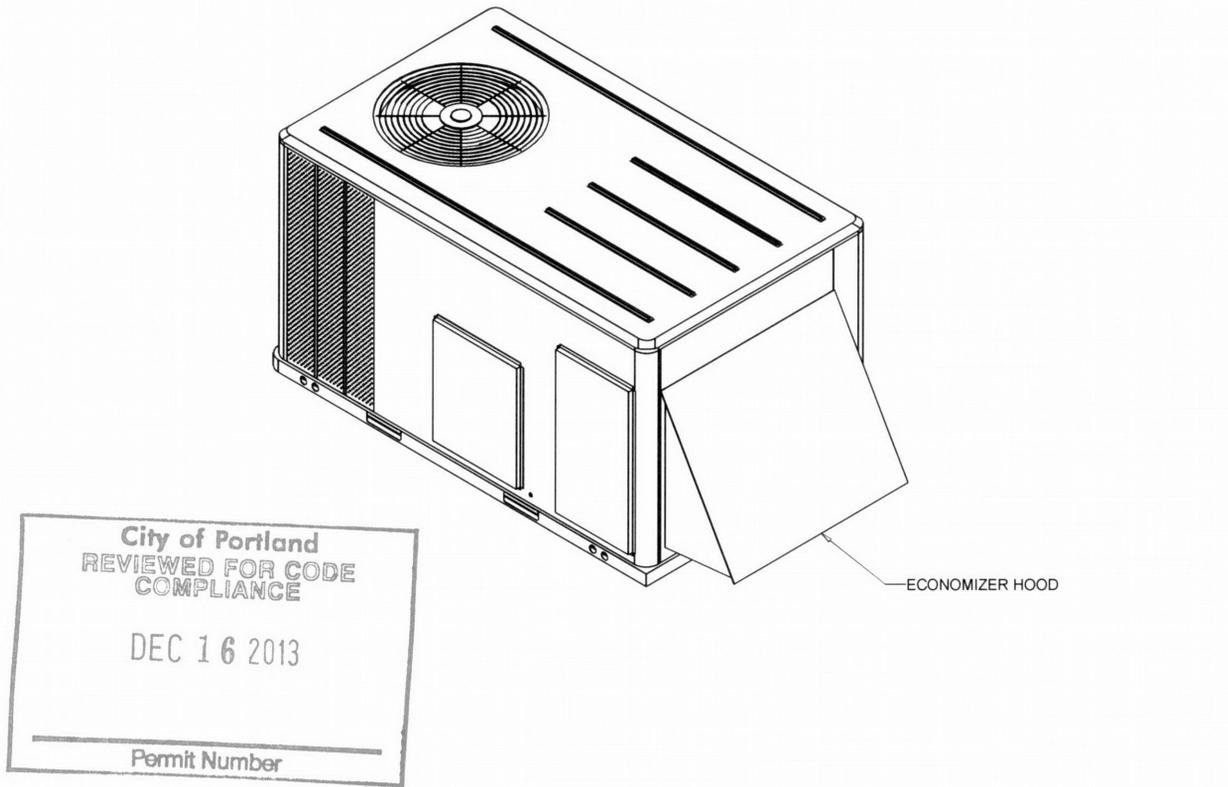
**PACKAGED HEAT PUMP**  
 CLEARANCE



**PACKAGED HEAT PUMP**  
 DOWNFLOW TYPICAL ROOF OPENING

Accessory - 3-10Ton R-410 Packaged Heat Pump  
Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2

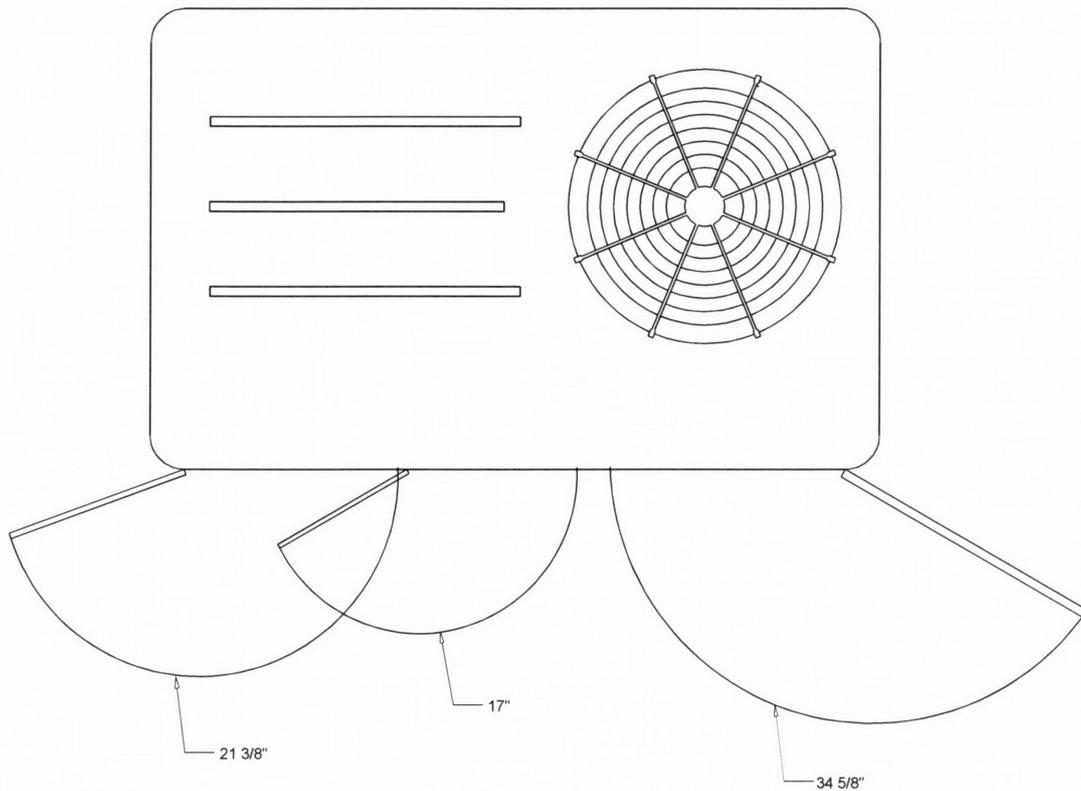
19-23-0500-00 HVAC



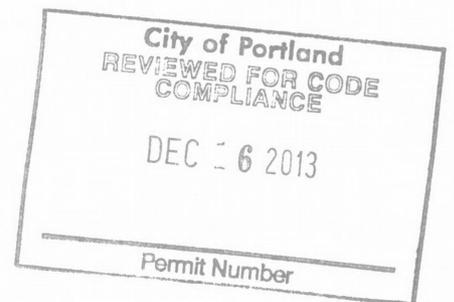
ACCESSORY - ECONOMIZER HOOD

Accessory - 3-10Ton R-410 Packaged Heat Pump  
Item: A1 Qty: 2 Tag(s): RTU-1, RTU-2

19-23-0500-00 HVAC

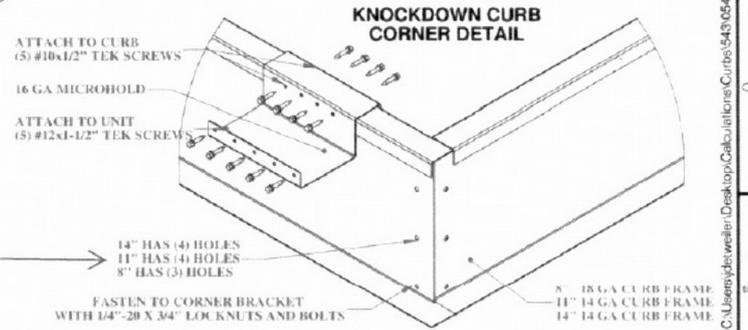
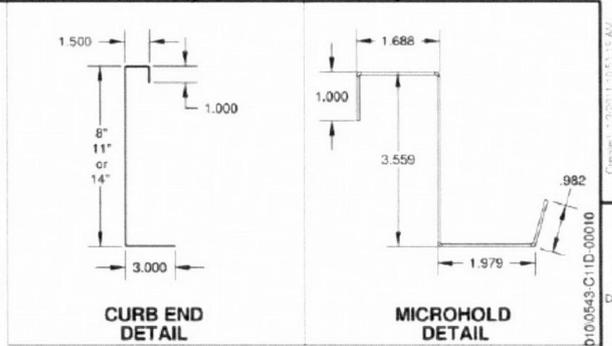
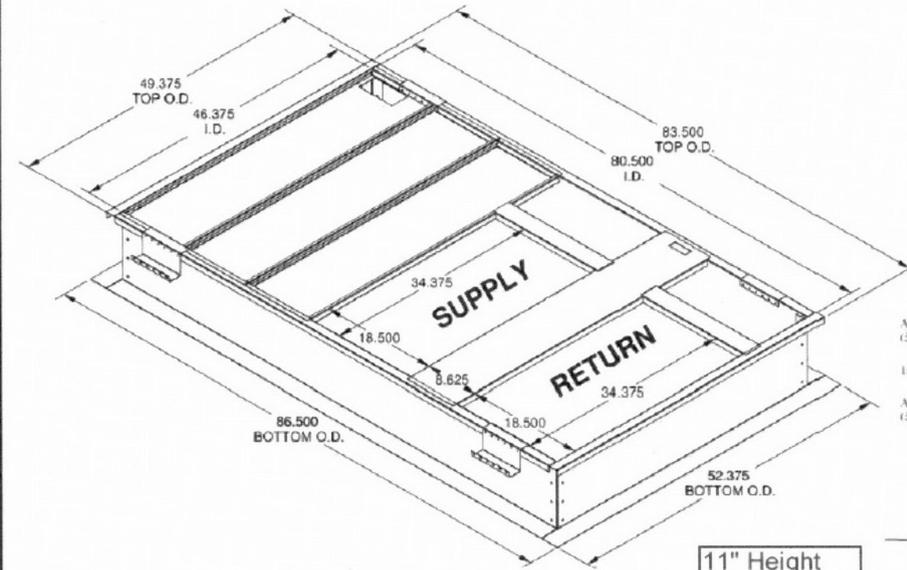


SWING DIAMETER - HINGED DOOR(S) OPTION



City of Portland  
REVIEWED FOR CODE  
COMPLIANCE  
DEC 16 2013  
Permit Number

FORM NO.: 15140-2P



11" Height provided

THE STANDARD PRODUCT DOES NOT INCLUDE THROUGH THE SIDE SERVICE HOLES

**MicroMetl Corporation**

0543-C08D-00010 08" TALL  
0543-C11D-00010 11" TALL  
0543-C14D-00010 14" TALL

STRUCTURALLY CALCULATED  
KNOCKDOWN CURB  
(MAX UNIT WEIGHT 1499 lbs.) PAGE 1 of 2

Indianapolis, IN. : (800) 662-4822  
Sparks, NV. (800) 884-4662  
Longview, TX. (903) 248-4800

**STEEL ATTACHMENT:**  
(BEAM BY OTHERS)  
1/4" x 3" W/ WASHER  
EVENLY SPACED, W/  
WASHER CENTER ON FLANGE.  
(14) EACH LONG SIDE,  
(11) EACH SHORT SIDE

**WOOD ATTACHMENT:**  
(REF. DOUGLAS FIR)  
(50) 1/4" x 3" SIMPSON SDS W/  
WASHER, CENTER ON CURB  
FLANGE, EVENLY SPACED.  
(14) EACH LONG SIDE,  
(11) EACH SHORT SIDE

**CONCRETE ATTACHMENT:**  
(3000 PSI MINIMUM 6" MINIMUM THICKNESS)  
(6" MIN EDGE DISTANCE, 3-3/4" EMBEDDED)  
(14) 1/2" SIMPSON TITEN HD  
EVENLY SPACED, CENTERED  
ON CURB FLANGE  
8" MINIMUM SPACING,  
(4) EACH LONG SIDE,  
(3) EACH SHORT SIDE

REGISTERED PROFESSIONAL  
ENGINEER  
(02000)  
OREGON  
SEPT. 14, 1999  
CLIFFORD H. JOHNSON

EXPIRATION DATE: 6-30-12  
9/7/11

WEIGHT: 120/145/160  
DRAWN BY: JD DATE: 01/03/2011  
**MEETS SEISMIC  
REQUIREMENTS FOR  
2010 CBC & 2009 IBC**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MICROMETL CORPORATION. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MICROMETL CORPORATION, IS PROHIBITED.

DFS-01-00



# City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds



## Deferred Submittal Requirements and Application

### Applicants will provide:

- A copy of this application
- Three (3) sets of plans
- One (1) set of calculations
- Two (2) sets of product information
- Drawings and calculations must be stamped and signed by an Engineer registered in Oregon and approved by the Architect/Engineer of record for the building.
- Permit fee (paid at time of submittal)
- If the DFS includes exterior elements, plan views and elevations identifying the location(s) as approved by the Architect and Engineer of Record must be submitted.
- One (1) copy of your main building permit approved plans (NOTE: Approved plans do not need to be submitted if your project has a development liaison assigned)

### Contractor submittal information:

Contact name JASON AMATO

Address 735 SW 158TH AVE

City BEAVERTON State OR Zip Code 97116

Phone 503-726-7133 E-mail JAMATO@SKHOFF.COM

Value of deferred submittal 61,000 Issued main building permit # 13-137610-REVO1-C01

Description/Scope of work ROOT TOP EQUIPMENT ATTACHMENT DFS

### Fees

Deferred submittal (DFS) fees are collected in addition to the standard building review fee paid on the main building permit. DFS fees cover the cost of the additional processing and review time associated with the design build element.

The DFS fee for processing and reviewing deferred plan submittals is 10 percent of the building permit fee calculated using the value of the particular deferred portion of the project.,

Minimum fee: Residential, one and two family dwelling ...\$123 for DFS with valuation of less than or equal to \$222,000

Commercial and all other projects .....\$307 for DFS with valuation of less than or equal to \$680,000

The Bureau of Development Services (BDS) fee schedule is also available on the BDS web site at [www.portlandoregon.gov/bds](http://www.portlandoregon.gov/bds) | select the Fees tab.

### Helpful Information

Bureau of Development Services  
1900 SW 4th Avenue, Portland, OR 97201

#### Submit your plans to:

Development Services Center (DSC), First Floor,  
Tuesday - Friday:  
8:00 am - 12:00 pm  
Closed Mondays

#### Important Telephone Numbers

BDS main number ..... 503-823-7300

DSC automated information line ..... 503-823-7310

Building code information ..... 503-823-1456

BDS 24 hour inspection request line ..... 503-823-7000

Residential information for  
one and two family dwellings..... 503-823-7388

City of Portland TTY ..... 503-823-6868

#### DEFERRED SUBMITTAL REQUIREMENTS AND APPLICATION