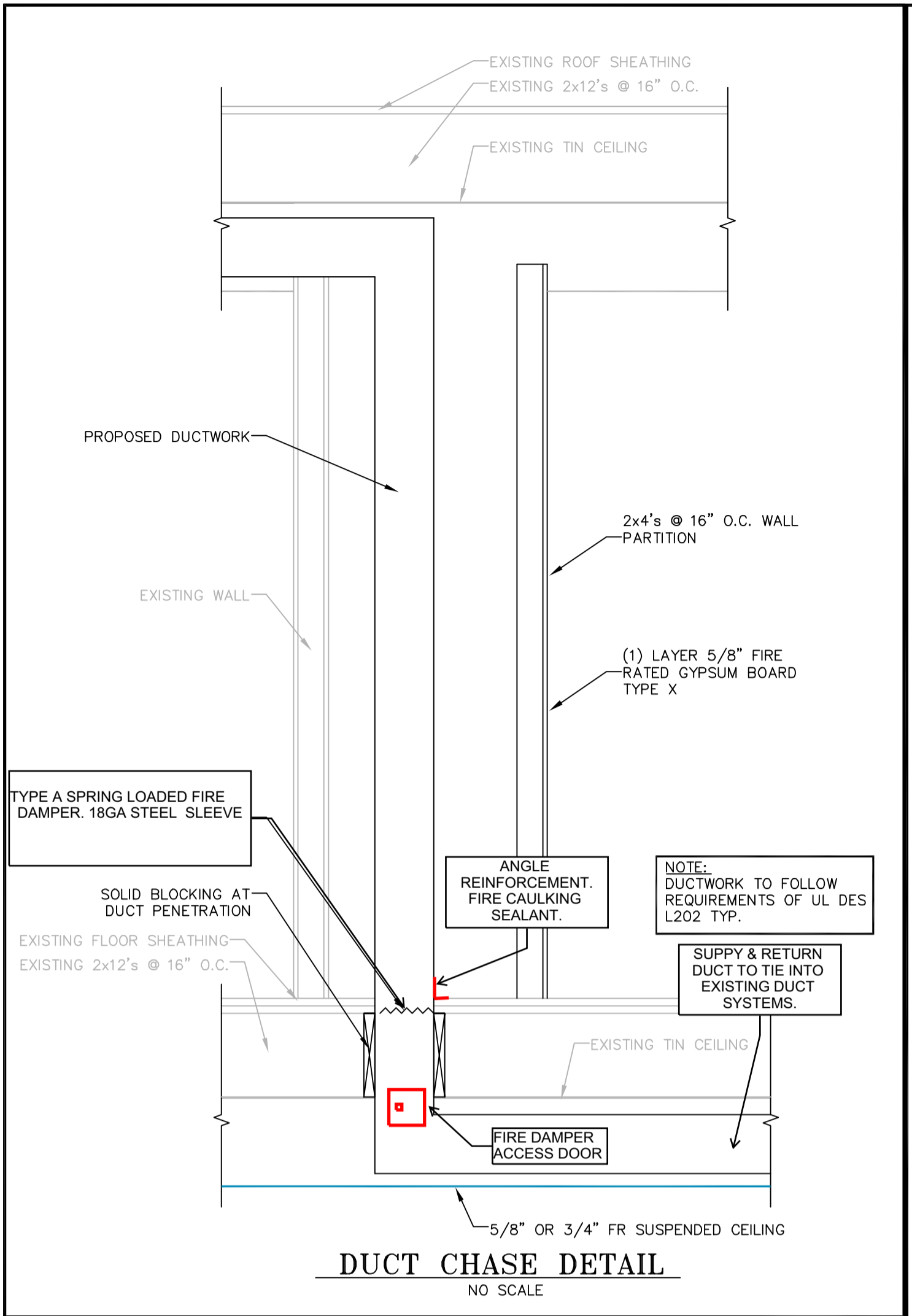
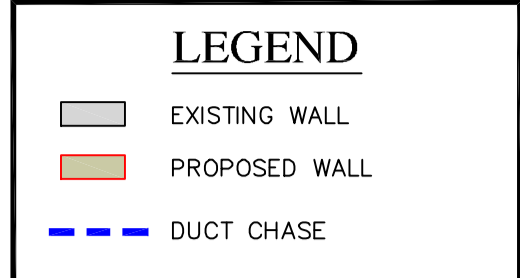


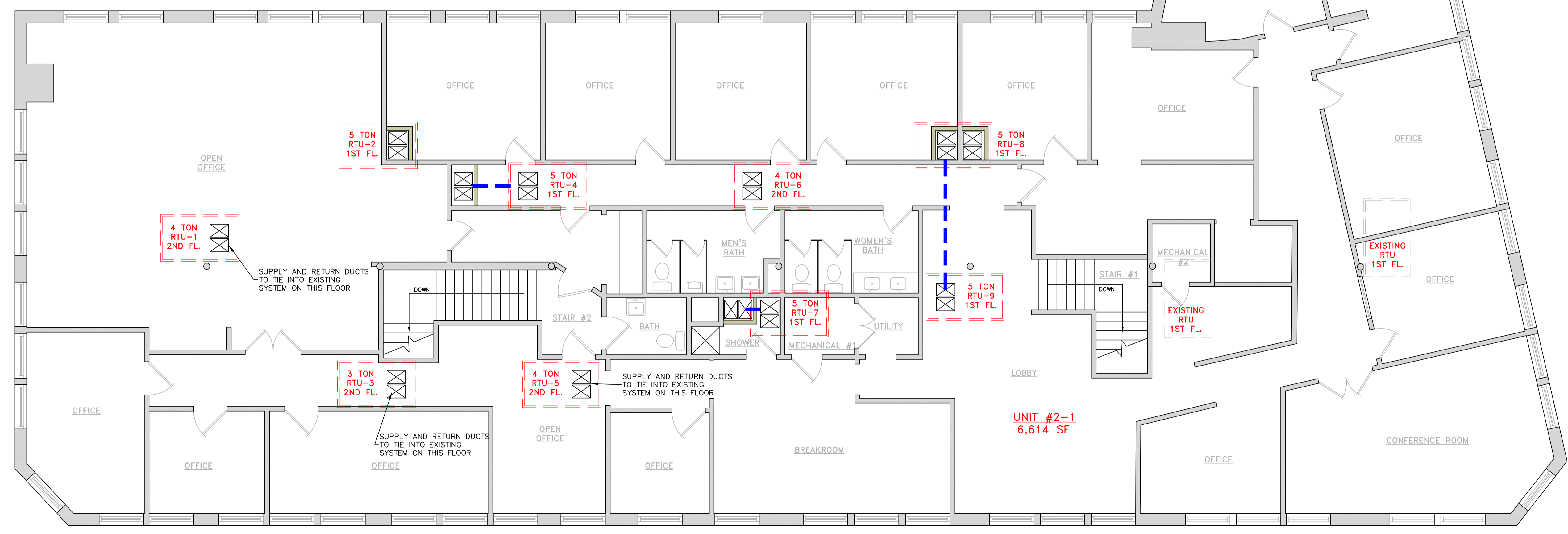


E.S. COFFIN
 ENGINEERING SURVEYING
 E.S. COFFIN ENGINEERING & SURVEYING, INC.
 432 Camp Road P.O. Box 4687 Augusta, Maine 04330
 Ph. (207) 623-9475 Fax (207) 623-0016 Toll Free 1-800-244-9475

- PLAN SUBMISSION NOTES**
- THIS PLAN IS FOR THE CITY OF PORTLAND BUILDING CODE APPROVAL ONLY FOR THE ADDITION OF (9) ROOF TOP UNITS.
 - THE PLUMBING, ELECTRICAL, AND MECHANICAL DESIGN OF THE BUILDING IS BY THE OWNER.
 - IBC 2009 USE GROUP:
 BASEMENT FLOOR: BUSINESS (MIXED)
 FIRST FLOOR: MERCANTILE (MIXED)
 SECOND FLOOR: BUSINESS (MIXED)
 - 2009 NFPA LIFE SAFETY OCCUPANCY:
 BASEMENT FLOOR: BUSINESS (MIXED)
 FIRST FLOOR: MERCANTILE (MIXED)
 SECOND FLOOR: BUSINESS (MIXED)
 - CONSTRUCTION TYPE: TYPE III B (UNPROTECTED)
 - GENERAL CONTRACTOR TO CONFIRM ALL DIMENSIONS.
 - EXISTING SPRINKLER SYSTEM TO BE MODIFIED AS NEEDED TO MEET NEW LAYOUT AND NFPA 13 REQUIREMENTS.



UNIT ID	MANUF	MODEL NUMBER
RTU-1	TRANE	YSC048E3RMA00DV
RTU-2	TRANE	YSC060E3RMA00DV
RTU-3	TRANE	YSC036E3RMA00DV
RTU-4	TRANE	YSC060E3RMA00DV
RTU-5	TRANE	YSC048E3RMA00DV
RTU-6	TRANE	YSC048E3RMA00DV
RTU-7	TRANE	YSC060E3RMA00DV
RTU-8	TRANE	YSC060E3RMA00DV
RTU-9	TRANE	YSC060E3RMA00DV



SECOND FLOOR PLAN
 SCALE 3/16" = 1'-0"

NO.	DATE	REVISIONS

CLIENT & PROJECT	80-90 MIDDLE STREET COMMERCIAL PROPERTIES, INC.
LOCATION	80-90 MIDDLE STREET PORTLAND CUMBERLAND STATE MAINE
TOWN	PORTLAND CUMBERLAND STATE MAINE
PROJ. NO.	2013-017
SHEET TITLE	SECOND FLOOR PLAN RTU LOCATION PLAN
SCALE	3/16" = 1'-0"
DATE	APRIL 15, 2014
DRAWN BY	JPK
CHECKED BY	BEM



Jeff Levine, AICP, Director
Planning & Urban Development Department

Tammy Munson
Inspections Divi



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/25/14

HVAC / Power Equipment Application & Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

- 4 A floor plan that includes structural details, size and dimensions of the floor and location where the equipment is going to be installed.
- 4 Information on how the unit is being vented & hanging details if appropriate.
- 4 Details of the specific equipment being installed; ie; specifications and any heating technical specifications. (Often this information can be obtained from the manufacturer's spec sheet or retail advertisements.)
- 4 A plot plan showing the shape and dimension of the lot, with the distance from the actual property lines, and the principal structure may be required.
- 4 Proof of ownership is required if it is inconsistent with the assessors records.
- 4 All documents as individual PDFs and named appropriately

All HVAC installations must be conducted in compliance with the IRC 2009 Building Code

Separate permits are required for plumbing and electrical installations, as required.

Separate permits are also required based on different properties
(different Chart, Block and Lot.)

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



Jeff Levine, AICP, Director
Planning & Urban Development Department

Tammy Munson,
Inspections



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/25/14

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a **legal signature** per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are **paid in full** to the Inspections Office, City of Portland Maine by method noted below:

- Within 24-48 hours, once my complete permit application and corresponding paperwork has been electronically delivered, I intend to **call the Inspections Office** at 207-874-8703 and speak to an administrative representative and provide a credit/debit card over the phone.
- Within 24-48 hours, once my permit application and corresponding paperwork has been electronically delivered, I intend to **hand deliver** a payment method to the Inspections Office, Room 315, Portland City Hall.
- I intend to deliver a payment method through the U.S. Postal Service mail once my permit paperwork has been electronically delivered.

Applicant Signature: Stephen Higgins HVAC Services

Date: 6/3/2014

I have provided digital copies and sent them on:

Date: 6/3/2014

NOTE: All electronic paperwork must be delivered to buildinginspections@portlandmaine.gov or by physical means ie; a thumb drive or CD to the office.



FILL IN AND SIGN WITH INK

Application for Heating, Ventilation, Air Condition (HVAC) Cooking or Power Equipment



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

To the Inspector of Buildings, Portland Maine:

Date: 06/25/14

The undersigned hereby applies for a permit to install the following HVAC, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Address/CBL: 80-90 Middle St. 029 L004001 Use of Building: Retail & Commercial Date: 6/3/2014

Name and Address of Owner: 80-90 Corps
100 Silver St. Portland, Maine 04104

Installer's Name and Address: HVAC Services Inc.
73 Bradley Drive Westbrook, Maine E-Mail: shiggins@hvacserv.com

<p>Location of Appliance:</p> <p><input type="checkbox"/> Basement <input type="checkbox"/> Floor</p> <p><input type="checkbox"/> Attic <input checked="" type="checkbox"/> Roof</p> <p>Type of Fuel:</p> <p><input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Solid</p> <p>Appliance Name: _____</p> <p>UL Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Will appliance be installed in accordance with the manufacturer's installation instructions? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Type of License of Installer:</p> <p>Master Plumber #: _____</p> <p>Solid Fuel #: _____</p> <p>Oil #: _____</p> <p>Gas #: PNT 1138</p> <p>Other: _____</p>	<p>Type of Venting: (Plan required for submittal)</p> <p><input type="checkbox"/> Masonry Lined Factory Built: N/A</p> <p><input type="checkbox"/> Metal Factory Built UL Listing: N/A</p> <p><input type="checkbox"/> Direct Vent Type: N/A UL #: _____</p> <p># of Tanks: N/A</p> <p>Type of Fuel Tank:</p> <p><input type="checkbox"/> Gas <input type="checkbox"/> Oil</p> <p>Size of Tank: N/A</p> <p>Distance from tank to center of flame: N/A</p> <p>Cost of Work: \$68,600.00</p> <p>Permit Fee: \$706.00</p>
--	--

Approved

Approved with Conditions

Fire: _____

See attached letter or requirements

Electric: _____

Building: _____

Inspector's Signature

Date Approved

Signature of Installer: _____ E-Mail: shiggins@hvacserv.com



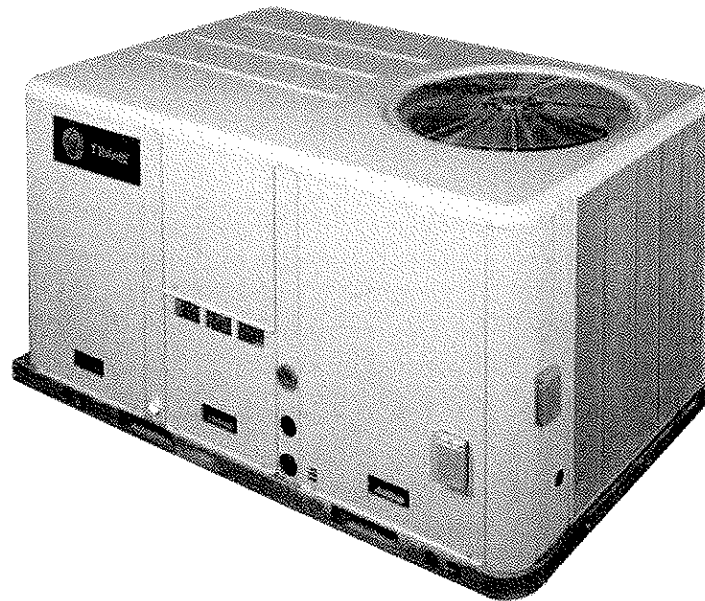
Product Catalog



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/25/14

Packaged Rooftop Air Conditioners Precedent™ — Cooling and Gas/Electric 3 to 10 Tons – 60 Hz



February 2014

RT-PRC023AF-EN





Reviewed for Code Compliance
Inspections Division
Approved with Conditions

General Data

RTU 3

RTU 1,5

Date: 06/25/14

Table 1. General data - 3-4 tons - standard efficiency

	3 Tons		4 Tons	
	T/YSC036E1	T/YSC036E3,4,W	T/YSC048E1	T/YSC048E3,4,W
Cooling Performance^(a)				
Gross Cooling Capacity	35,620	37,150	49,210	49,450
EER/SEER ^(b)	11.5/13.0	11.2/13.0	11.1/13.0	10.9/13.0
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600
AHRI Net Cooling Capacity	35,000	35,800	48,000	48,000
System Power (kW)	3.04	3.20	4.32	4.39
Compressor				
Number/Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Sound				
Outdoor Sound Rating (dB) ^(c)	81	81	82	82
Outdoor Coil - Type				
Configuration	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	Full Face	Full Face	Full Face	Full Face
Face Area (sq. ft.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	10.96	9.59	10.96	10.96
Rows/FPI	2/16	2/16	2/16	2/16
Indoor Coil - Type				
Configuration	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	Full Face	Full Face	Full Face	Full Face
Face Area (sq. ft.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71	7.71	7.71
Rows/FPI	3/16	3/16	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1 3/4 NPT	1 3/4 NPT	1 3/4 NPT	1 3/4 NPT
Outdoor Fan - Type				
Configuration	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
cfm	3,466	3,375	3,411	3,403
Motor hp	0.33	0.33	0.33	0.33
Motor rpm	1,075	1,075	1,075	1,075
Indoor Fan - Type (Standard)				
Configuration	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/RPM	Direct/5 ^(d)	Belt/Variable/1,750	Direct/5 ^(d)	Belt/Variable/1,750
Number Motors	1	1	1	1
Motor hp	0.75	1.0	1.0	1.0
Motor Frame Size	48	56	48	56
Filters^(e)				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 20x30x2	(2) 20x30x2	(2) 20x30x2
Refrigerant Charge^(f)				
Pounds of R-410A	6.3	6.0	7.0	7.0

continued on next page



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RTU 3

RTU 1,5,6

Date: 06/25/14

Table 1. General data - 3-4 tons - standard efficiency (continued)

	3 Tons		4 Tons	
	T/YSC036E1	T/YSC036E3,4,W	T/YSC048E1	T/YSC048E3,4,W
Heating Performance^(g)				
(Gas/Electric Only)				
Heating Input				
Low Heat Input (Btu)	60,000	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000	80,000
High Heat Input (Btu)	120,000	120,000	120,000	120,000
Heating Output				
Low Heat Input (Btu)	48,000	48,000	49,000	48,000
Mid Heat Input (Btu)	65,000	64,000	65,000	64,000
High Heat Input (Btu)	96,000	96,000	96,000	96,000
AFUE^(h)				
Low Heat Input (Btu)	78	80	79	80
Mid Heat Input (Btu)	78	80	79	80
High Heat Input (Btu)	78	80	79	80
Steady State Efficiency%				
Low Heat Input (Btu)	80	80	81	80
Mid Heat Input (Btu)	81	80	81	80
High Heat Input (Btu)	80	80	80	80
No. Burners				
Low Heat Input (Btu)	2	2	2	2
Mid Heat Input (Btu)	2	2	2	2
High Heat Input (Btu)	3	3	3	3
No. Stages				
Low Heat Input (Btu)	1	1	1	1
Mid Heat Input (Btu)	1	1	1	1
High Heat Input (Btu)	1	1	1	1
Gas Supply Line Pressure				
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)				
Low Heat	1/2	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2	1/2
High Heat	1/2	1/2	1/2	1/2

- (a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
- (b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- (c) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
- (d) For multispeed direct drive rpm TSC values, reference Table 33, p. 81. For multispeed direct drive rpm YSC (low & medium gas heat) values reference Table 34, p. 82. For multispeed direct drive rpm YSC (high gas heat) values reference Table 35, p. 83.
- (e) Optional 2" MERV 8 and MERV 13 filters also available.
- (f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- (g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
- (h) AFUE is rated in accordance with DOE test procedures.



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

General Data

RTU 2, 4, 7, 8, 9

Date: 06/25/14

Table 2. General data - 5 tons - standard efficiency

	5 Tons	
	T/YSC060E1	T/YSC060E3,4,W
Cooling Performance^(a)		
Gross Cooling Capacity	59,900	62,270
EER/SEER ^(b)	11.0/13.0	11.0/13.0
Nominal cfm/AHRI Rated cfm	2,000/2,000	2,000/2,000
AHRI Net Cooling Capacity	58,000	60,000
System Power (kW)	5.25	5.46
Compressor		
Number/Type	1/Scroll	1/Scroll
Sound		
Outdoor Sound Rating (dB) ^(c)	82	82
Outdoor Coil - Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	10.96	10.96
Rows/FPI	3/16	3/16
Indoor Coil - Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71
Rows/FPI	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1 3/4 NPT	1 3/4 NPT
Outdoor Fan - Type	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	3,271	3,245
Number Motors/hp	0.40	0.40
Motor rpm	1,075	1,075
Indoor Fan - Type (Standard)	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5 ^(d)	Belt/Variable/1,750
Motor hp	1.0	1.0
Motor Frame Size	48	56
Filters^(e)		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2)20x30x2
Refrigerant Charge^(f)		
Pounds of R-410A	9.5	9.4

continued on next page



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Approved with Conditions

RTU 2,4,7,8,9

Date: 06/25/14

Table 2. General data - 5 tons - standard efficiency (continued)

	5 Tons	
	T/YSC060E1	T/YSC060E3,4,W
Heating Performance^(g)		
(Gas/Electric Only)		
Heating Input		
Low Heat Input (Btu)	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000
High Heat Input (Btu)	130,000	130,000
Heating Output		
Low Heat Input (Btu)	48,000	48,000
Mid Heat Input (Btu)	65,000	64,000
High Heat Input (Btu)	104,000	104,000
AFUE^(h)		
Low Heat Input (Btu)	78	80
Mid Heat Input (Btu)	79	80
High Heat Input (Btu)	78	80
Steady State Efficiency%		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	81	80
High Heat Input (Btu)	80	80
No. Burners		
Low Heat Input (Btu)	2	2
Mid Heat Input (Btu)	2	2
High Heat Input (Btu)	3	3
No. Stages		
Low Heat Input (Btu)	1	1
Mid Heat Input (Btu)	1	1
High Heat Input (Btu)	1	1
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	1/2
Mid Heat	1/2	1/2
High Heat	1/2	1/2

- (a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
- (b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- (c) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
- (d) For multispeed direct drive rpm TSC values, reference Table 33, p. 81. For multispeed direct drive rpm YSC (low & medium gas heat) values reference Table 34, p. 82. For multispeed direct drive rpm YSC (high gas heat) values reference Table 35, p. 83.
- (e) Optional 2" MERV 8 and MERV 13 filters also available.
- (f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- (g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
- (h) AFUE is rated in accordance with DOE test procedures.



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Inspections Division
Approved with Conditions

Fan Performance

Date: 06/25/14

Table 140. Gas fired heating capacities - standard efficiency

Tons	Unit Model Number	Heating Input MBh ^(a)	Heating Output MBh	Air Temp. Rise, F
3	YSC036E1*(L,X)	60	48	25-55
3	YSC036E1*(M,Y)	80	65	35-65
3	YSC036E1*(H,Z)	120	96	55-85
3	YSC036E(3,4,W)*(L,X)	60	48	25-55
3	YSC036E(3,4,W)*(M,Y)	80	64	35-65
3	YSC036E(3,4,W)*(H,Z)	120	96	55-85
4	YSC048E1*(L,X)	60	49	15-45
4	YSC048E1*(M,Y)	80	65	20-50
4	YSC048E1*(H,Z)	120	96	40-70
4	YSC048E(3,4,W)*(L,X)	60	48	15-45
4	YSC048E(3,4,W)*(M,Y)	80	64	20-50
4	YSC048E(3,4,W)*(H,Z)	120	96	40-70
5	YSC060E1*(L,X)	60	48	10-40
5	YSC060E1*(M,Y)	80	65	15-45
5	YSC060E1*(H,Z)	130	104	35-65
5	YSC060E(3,4,W)*(L,X)	60	48	10-40
5	YSC060E(3,4,W)*(M,Y)	80	64	15-45
5	YSC060E(3,4,W)*(H,Z)	130	104	35-65
6	YSC072F(3,4,W)*(L,X)	80	64	15-45
6	YSC072F(3,4,W)*(M,Y)	120	96	20-50
6	YSC072F(3,4,W)*(H,Z)	150/105	120/84	25-55
7½	YSC090F(3,4,W)*(L,X)	120	96	20-50
7½	YSC090F(3,4,W)*(M,Y)	150/105	120/84	25-55
7½	YSC090F(3,4,W)*(H,Z)	200/140	160/112	35-65
7½	YSC092F(3,4,W)*(L,X)	120	96	15-45
7½	YSC092F(3,4,W)*(M,Y)	150/105	120/84	20-50
7½	YSC092F(3,4,W)*(H,Z)	200/140	160/112	35-65
8½	YSC102F(3,4,W)*(L,X)	120	96	15-45
8½	YSC102F(3,4,W)*(M,Y)	150/105	120/84	20-50
8½	YSC102F(3,4,W)*(H,Z)	200/140	160/112	35-65
10	YSC120F(3,4,W)*(L,X)	150/105	120/84	20-50
10	YSC120F(3,4,W)*(M,Y)	200/140	160/112	25-55
10	YSC120F(3,4,W)*(H,Z)	250/175	200/140	35-65

Note: Ratings shown are for elevations up to 2,000 ft. For higher elevations, reduce ratings at a rate of 4% per 1,000 ft. elevation.

(a) For two stage heaters (input or output), Second stage is total heating capacity. Second Stage/First Stage.

Table 141. Gas fired heating capacities - high efficiency

Tons	Unit Model Number	Heating Input MBh	Heating Output MBh	Air Temp. Rise, F
3	YHC036E1*(L,X)	60	48	25-55
3	YHC036E1*(M,Y)	80	65	35-65
3	YHC036E1*(H,Z)	120	96	55-85

continued on next page



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Electrical Data

Date: 06/25/14

Table 147. Unit wiring - standard efficiency

Tons	Unit Model Number	Voltage Range	Standard Indoor Fan Motor ^(a)		Oversized Indoor Fan Motor	
			MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
3	T/YSC036E1	187-253	28.8	45	—	—
3	T/YSC036E3	187-253	23.0	35	—	—
3	T/YSC036E4	414-506	11.7	15	—	—
3	T/YSC036EW	517-633	9.4	15	—	—
4	T/YSC048E1	187-253	36.8	50	—	—
4	T/YSC048E3	187-253	24.1	35	—	—
4	T/YSC048E4	414-506	11.5	15	—	—
4	T/YSC048EW	517-633	8.6	15	—	—
5	T/YSC060E1	187-253	41.1	60	—	—
5	T/YSC060E3	187-253	27.4	40	—	—
5	T/YSC060E4	414-506	12.3	15	—	—
5	T/YSC060EW	517-633	8.9	15	—	—
6	T/YSC072F3	187-253	36.5	50	37.8	60
6	T/YSC072F4	414-506	18.2	25	19.4	25
6	T/YSC072FW	517-633	12.7	20	13.5	20
7½	T/YSC090F3	187-253	38.2	60	44.0	60
7½	T/YSC090F4	414-506	19.5	30	22.4	35
7½	T/YSC090FW	517-633	14.7	20	16.7	25
7½(b)	T/YSC092F3	187-253	39.3	50	45.1	50
7½(b)	T/YSC092F4	414-506	18.5	20	21.4	25
7½(b)	T/YSC092FW	517-633	15.5	20	17.8	20
8½	T/YSC102F3	187-253	43.3	50	46.4	60
8½	T/YSC102F4	414-506	21.4	25	22.4	25
8½	T/YSC102FW	517-633	16.8	20	18.0	20
10	T/YSC120F3	187-253	49.6	60	—	—
10	T/YSC120F4	414-506	22.7	30	—	—
10	T/YSC120FW	517-633	18.9	25	—	—

(a) No optional motors available for 3-5 tons. The standard motor for the 1-phase models is a Multispeed Direct Drive Motor. The standard motor for 3-phase (3-8½ ton models) is a Belt Drive Motor.
(b) Dual refrigeration system.

Date: 06/25/14

Dimensional Data

ALL 1-9

Figure 1. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency

Notes:

1. All dimensions are in inches/millimeters.
2. 1/2 NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

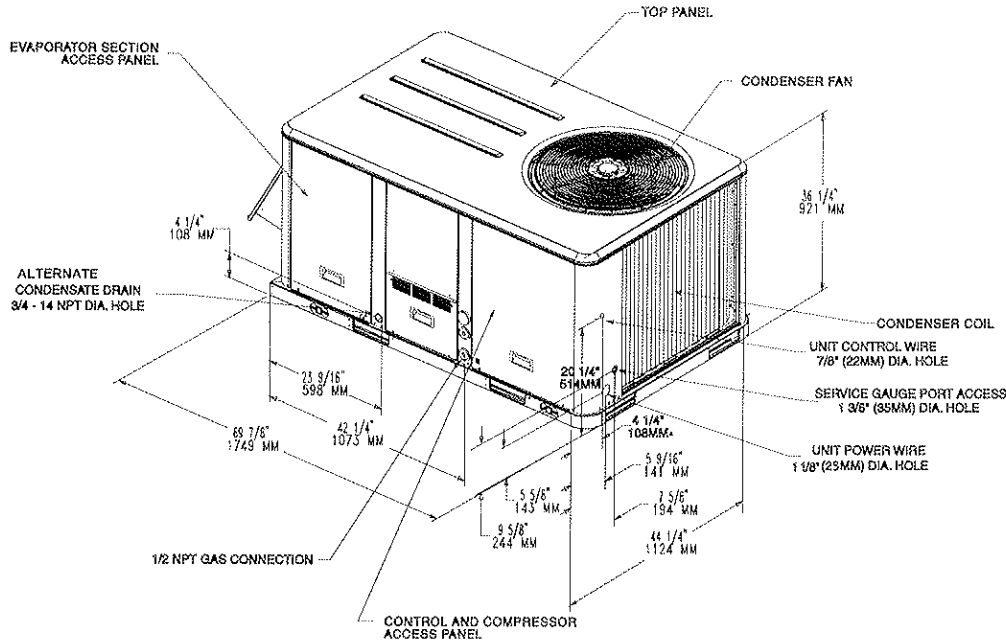
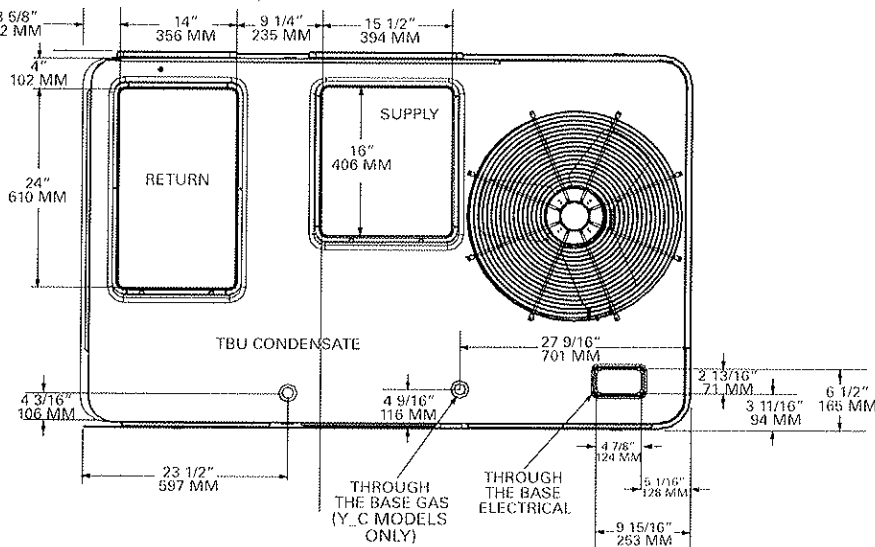


Figure 2. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency downflow airflow supply/return - through-the-base utilities

Note: All dimensions are in inches/millimeters.

Note: All dimensions are in inches/millimeters.





ALL 1-9



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Dimensional Data

Date: 06/25/14

Figure 3. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency horizontal airflow supply/return

Note: All dimensions are in inches/millimeters.

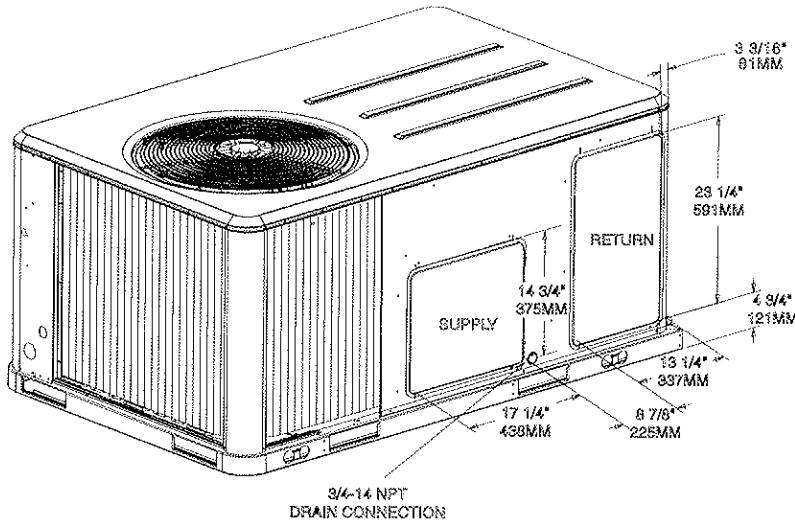
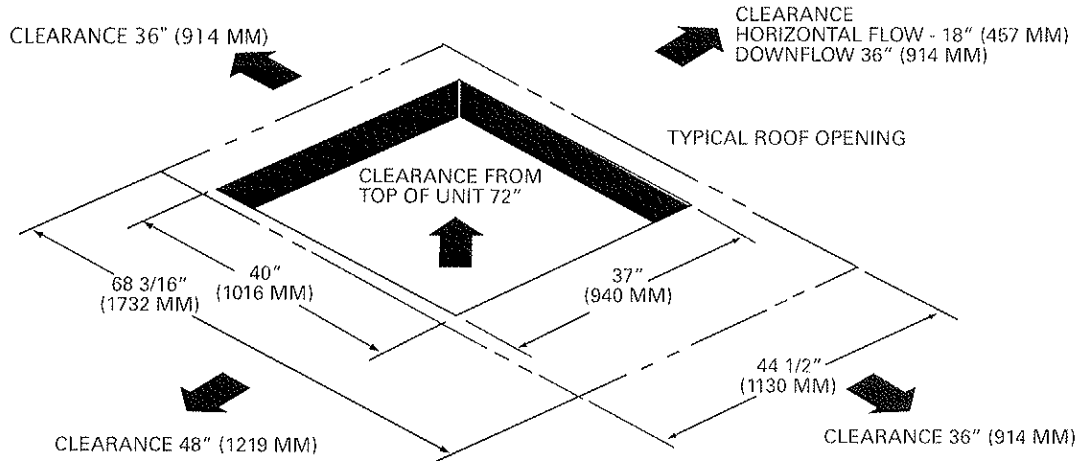


Figure 4. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency unit clearance and roof opening

Note: All dimensions are in inches/millimeters.





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ALL 1-9

Di

Date: 06/25/14

Figure 5. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency - roof curb

Note: All dimensions are in inches/millimeters.

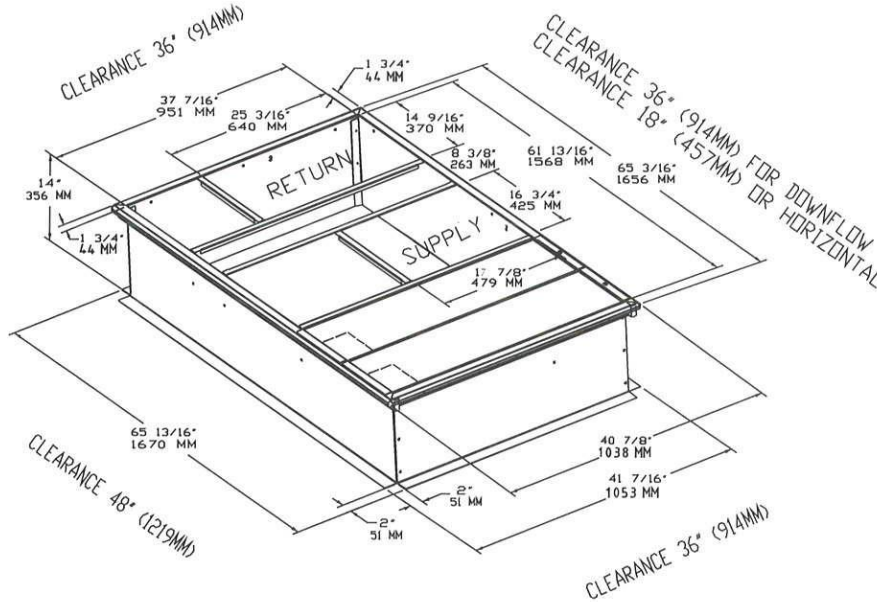
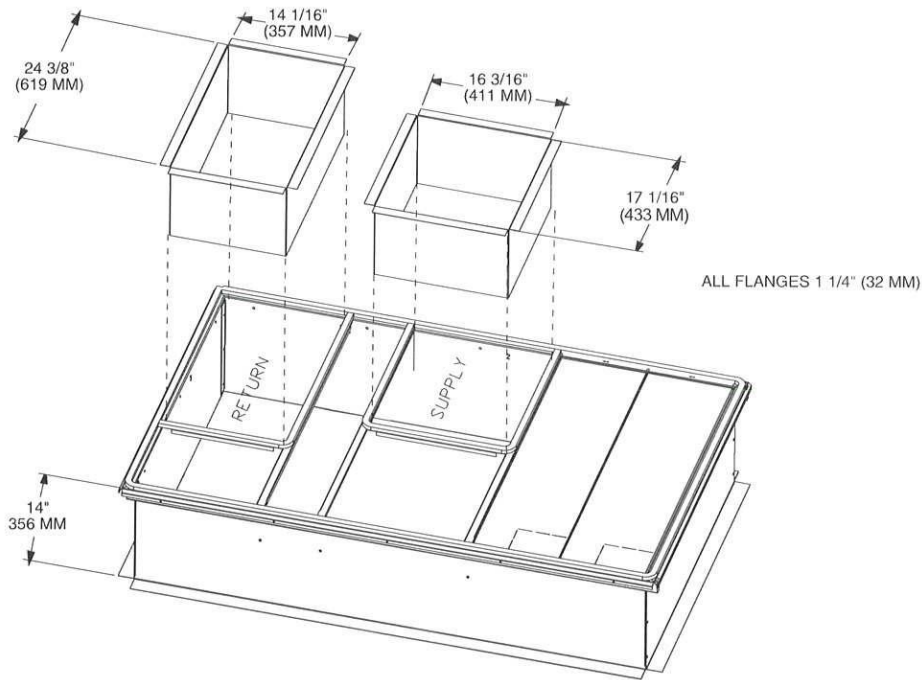


Figure 6. Cooling and gas/electric - 3-5 tons standard efficiency; 3 tons high efficiency downflow duct connections - field fabricated

Note: All dimensions are in inches/millimeters.





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Weights

Date: 06/25/14

Table 165. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.) - gas/electric

Tons	Unit Model No.	Maximum Model Weights ^(a)		Corner Weights ^(b)				Center of Gravity (in.)	
		Shipping	Net	A	B	C	D	Length	Width
1.5, 6, 3	YSC036E	607	532	165	137	95	134	31	19
2, 4, 7, 8, 9	YSC048E	638	563	175	145	101	142	31	19
	YSC060E	688	613	190	158	110	155	31	19
	YSC072F	805	710	222	217	121	150	41	22
	YSC090F	862	767	243	221	155	149	45	21
	YSC092F	990	847	265	249	173	160	46	21
	YSC102F	1047	904	279	252	187	186	44	22
	YSC120F	1156	1058	345	242	258	213	41	23
	YHC036E	607	532	165	137	95	134	31	19
	YHC048E	858	763	238	200	148	176	40	23
	YHC048F	806	711	226	199	144	143	44	22
	YHC060E	917	822	261	218	156	187	40	22
	YHC060F	850	755	239	214	152	151	44	21
	YHC072E	1025	927	296	198	205	228	41	24
	YHC072F	965	822	250	245	174	153	47	21
	YHC092F	1124	1026	340	233	249	204	41	23
	YHC102F	1133	1035	341	236	253	205	49	23
	YHC120E	1563	1369	386	379	299	305	49	28

(a) Weights are approximate.
(b) Corner weights are given for information only.

Table 166. Factory installed options (fiops)/accessory net weights (lbs)^{(a),(b)}

Accessory	T/YSC036E-060E	T/YHC048E-060E	T/YSC072F-102F	T/YSC120F	T/YHC120E
	T/YHC036E	T/YHC048F-060F	T/YHC072E/F	T/YHC092F-102F	
	Net Weight	Net Weight	Net Weight	Net Weight	
	3-5 Tons	4-5 Tons	6-10 Tons	7½, 8½, 10	10
Barometric Relief	7	10	10	10	10
Belt Drive Option (3 phase only)	31	31	—	—	—
Coil Guards	12	20	20	20	30
Economizer	26	36	36	36	36
Electric Heaters ^(c)	15	30	30	44	50
Hinged Doors	10	12	12	12	12
Manual Outside Air Damper	16	26	26	26	26
Motorized Outside Air Damper	20	30	30	30	30
Novar Control	8	8	8	8	8
Oversized Motor	5	8	8	—	—
Powered Convenience Outlet	38	38	38	38	50
Powered Exhaust	40	40	80	80	80
Reheat Coil	12	14	15	20 ^(d)	30
Roof Curb	61	78	78	78	89
Smoke Detector, Supply	5	5	5	5	5
Smoke Detector, Return	7	7	7	7	7

continued on next page



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Date: 06/25/14



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