

Prepared For:

Submittal

All Bidders	Customer P.O. Number: Customer Project Number:		
Sold To:	Job Number: Job Name: HVAC Services - Rob - Frosty Pint		
Trane U.S. Inc. dba Trane is ple	ased to provide the enclosed submittal for your review and approval.		

Date: November 06, 2014

Dan Broderick

Product Summary

Product

Split System Air Conditioning Units (Small)

Qty

2

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The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.

Table Of Contents

Product Summary1					
Split System Air Conditioning Units (Small) (Item A1)	3				
Tag Data					
Product Data					
Mechanical Specifications	4				
Unit Dimensions	6				

Tag Data - Split System Air Conditioning Units (Small) (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
A1	No Tag	2	5 Ton Unitary Split Systems	4TTB3060D1000-0U00008000-0014TXCC060DC3H
				C

Product Data - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

Split System Cooling Outdoor Unit 5 Ton Nominal Cooling Capacity 200 - 230 Volt 1 Phase 60 Hertz Furnace unit 80,000 Heating input BTUH Major Design 115 Volt/1 phase/60 hertz 5 Ton Airflow Cooling Capacity Cased upflow/dnflow/horiz left 21.0"/19.8" cabinet 60,000 Nominal cooling capacity Standard TXV-Non bleed Heat pump

Conv-upflow/dnflw,left airflow coil

Mechanical Specifications - Split System Air Conditioning Units (Small)

Item: A1 Qty: 2

TUH1 - GENERAL OPERATION

These High Efficiency, Direct Vent, Condensing Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constantly burning pilot. They are convertible for HORIZONTAL use by rotating the unit to its left side. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter.
- b. Vent proving differential switch.

TUH1 - NATURAL GAS MODELS

Central heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

TUH1 - SAFE OPERATION

The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Slow opening, dual solenoid combination gas valve and regulator provide extra safety and quieter operation.

TUH1 - QUICK HEATING

Durable, cycle tested, heavy gauge **aluminized steel heat exchanger and stainless steel secondary heat exchanger** quickly transfer over 90% of the heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a positive discharge of gas fumes to the outside as it draws outdoor air in for sealed combustion, which means it uses no indoor air for combustion.

TUH1 - BURNERS

Multi-port, in-shot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

TUH1 - INTEGRATED SYSTEM CONTROL

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. The built-in, selectable **"Cooling Fan Off"** feature provides time-delay capability like a BAY24X045 Time-Delay Kit for cooling operation. Also contains connection points for E.A.C./humidifier.

TUH1 - AIR DELIVERY

The multispeed, directdrive blower motor, with sufficient airflow range for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room

thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

TUH1 - STYLING

Heavy gauge steel and "wraparound" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil-faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass.

4TTB3 - General

This unit is fully charged from the factory for matched indoor section and up to 180" of piping. Unit is designed to operate at outdoor ambient temperatures as high as 115.0 F. Cooling capacities matched with a wide selection of air handlers and furnace coils that are A.R.I certified. The unit shall be UL listed. Exterior must be designed for outdoor application.

4TTB3 - Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 Duratuff base.

4TTB3 - compressor

The Climatuff compressor features internal over temperature and pressure protection and total dipped hermetic motor. Other features include: centrifugal oil pump and low vibration and noise.

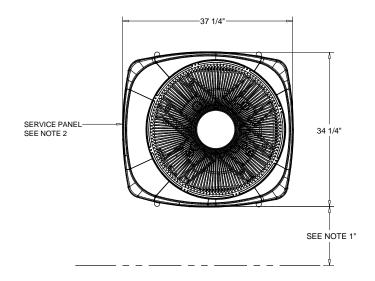
4TTB3 - Condenser Coil

The Spine Fin coil is continuously wrapped, corrosion resistant, all aluminum with minimum brazed joints. The coil is 3/8" O.D. seamless aluminum glued to a continuous aluminum fin. Coils are lab tested to withstand 2000.0 lbof pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer.

4TTB3 - Refrigerant controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure protection is inherent to the compressor. Another standard feature is the factory installed liquid line drier

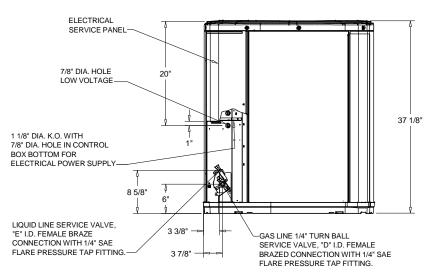
Unit Dimensions - Split System Air Conditioning Units (Small) Item: A1 Qty: 2

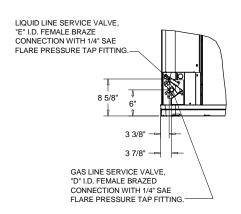


UNIT DIMENSTIONS			
DIM - D	7/8"		
DIM - E	3/8"		

NOTES

- 1. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 60" ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT, AND SHOULD BE AT LEAST 12" FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES.
 OTHER TWO SIDES UNRESTRICTED.
 2. ELECTRICAL AND REFRIGERANT COMPONENT
- CLEARANCES PER PREVAILING CODES.





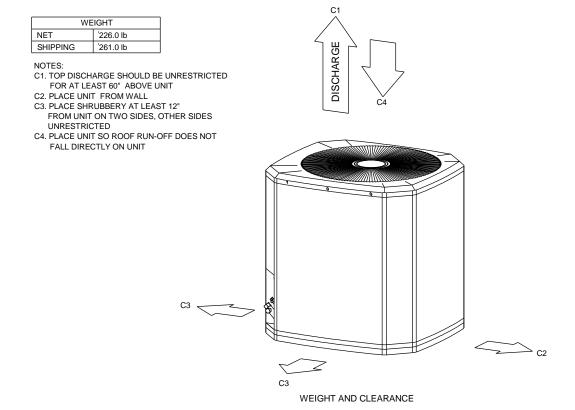
4TTB3060 - COOLING

PLAN VIEW DRAWING

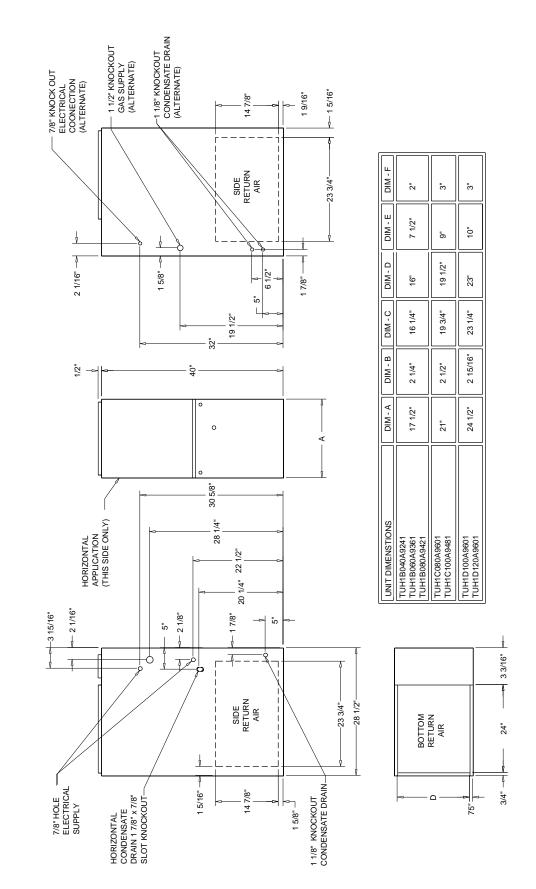
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ELECTRICAL / GENERAL DATA

'GENERAL Model: Voltage: Unit Hertz: Unit Phase:	'4TTB3060	POWER CONN. Minimum Circuit Ampacity: Maximum Circuit Breaker: Minimum Protection Rating:	35.0 60.0 60.0	COMPRESSOR Number: Phase: Rated Load Amps: Locked Rotor Amps:	'1 1 15.6 110.0
OUTDOOR MOTOR Number: '1 Horsepower: 0.20 Motor Speed (RPM): 825 Phase: 1 Full Load Amps: 0.93 Locked Rotor Amps: -		NOTES: 1. Certified in accordance with the AHRI Standard 210/240. 2. Calculated in accordance with 3. Standard line lengths - 60°. Standard line lengths and lifts reference are 15, 20, 25, 30, 40 and 50 in the NOTES.	n N.E.C. Use only HACR of candard lift - 60' Suction ar refer to refrigerant piping s	nd Liquid line.	is based on
REFRIGERANT Type: Charge: Line Size O.D. Gas: Line Size O.D. LIQ:	R-410 8.0 lb 7/8" 3/8"				



Unit Dimensions - Split System Air Conditioning Units (Small) Item: A1 Qty: 2



- "F" DIA OPENING AIR INTAKE

(6)

4 1/16"

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Unit Dimensions - Split System Air Conditioning Units (Small) Item: A1 Qty: 2

ELECTRICAL / GENERAL DATA

GENERAL - POWER C	CONN (4)	COMBUSTION FAN		BLOWER DRIVE	BLOWER DRIVE	
Model: Voltage: Ampacity (Amps): Max Over. Pro. (Amps):	TUH1C080A9601A 115/1/60 13.5 20.0	Type: Motor HP: Motor Speed RPM: Phase: Full Load Amps:	Centrifugal 0.05 3450 1 0.71	Drive: No. Used: Motor HP: Speed RPM: Phase:	Direct 1 1 0.75 1100 1	
ORIFICES		Heat (2)(3)		FILTERS		
Nat. Gas Qty - Drill Size: L.P. Gas Qty Drill Size: Gas Valve:		Input BTUH: Capacity BTUH (ICS): AFUE (ICS): Temp. Rise (MinMax):	80,000 76,000 95.0 35-60	Type: Furnished: Number Recommended	High Velocity No 1 20"x25"x1"	

NOTES:

- 1. Central Furnace heating designs are certified by AGA and CSA.
- 2. For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4 percent
- per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4 percent per 1,000 feet for elevations above 4,500 feet above sea level.
- 3. Based on U.S. government standard tests.
- 4. The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

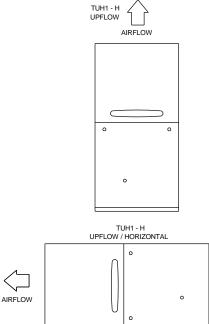
WEIGHT (AIR HANDLER ONLY) 171.0 lb SHIPPING: NET:

UNIT CLEARANCE TABLE					
MINMIUM CLEARANCE TO COMBUSTIBLE MATERIALS					
SIDE	0	TOP	1"		
REAR	0	FLUE	0		
FRONT	3"				
HORIZONTAL (FLUE DISCHARGE ON LEFT) ALCOVE					
SIDE RIGHT	0	FRONT	18"		
SIDE LEFT	0	TOP	1"		
REAR	6"	FLUE	0		
CLOSET					
SIDE RIGHT	1"	FRONT	3"		
SIDE LEFT	1"	TOP	1"		
REAR	3"	FLUE	0		

*UH1B080A9H31A, *UH1C100A9H41, & *UH1D120A9H51 REQUIRES 3" DIAMETER VENT PIPE. DIAMETER OF VENT PIPE.

DIAMETER OF VENT PIPE MAY BE LIMTTED TO 2 1/2" OR 3"

ON SOME MODELS AT DIFFERENT ALTITUDES. REFER TO THE VENT LENGTH TABLE FOR PROPER APPLICATION.



Unit Dimensions - Split System Air Conditioning Units (Small)

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