

SHOP SUBMITTAL / DRAWING REVIEW RESPONSE



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Project Name: DPARD Admin Offices

From: Chuck Stringer

Project No: 13333

Description: 238126.01 Ductless mini-Split Submittal

SW Associates Consulting Engineers	Engineer's review is for general compliance with the design concept and contract documents. Markings or comments or the lack thereof shall not be construed as relieving the Contractor from compliance with the project plans and specifications. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of construction, for performing this work in a safe manner and for coordinating his work with that of other trades
<input type="checkbox"/> No Exception Taken	This review does not constitute approval or acceptance of deviations from contract documents, such deviations if any must be requested in writing or clearly identified as deviations in accordance with contract documents.
<input type="checkbox"/> Make Corrections Noted	
<input type="checkbox"/> Revise and Submit	
<input checked="" type="checkbox"/> Rejected	
SWA Project No. 13333	Submittal No: 238126.01
Date: 08-09-18	Checked By: Chuck Stringer

Comments: Rejected / not reviewed due to city imposed redesign.



TRANE®

Ductless Splits Submittal

Prepared For: Total HVAC

Date: June 20, 2018

Job Name: Dallas Parks & Recreation Department Admin Offices

Trane U.S. Inc. dba Trane is pleased to provide the enclosed submittal for your review and approval.

Product Summary

Qty	Product
3	Ductless Mini-Splits Systems

Joe Yates– Account Manager
Ramon Gomez – Applications Specialist
Shauna Hoover – Project Manager
1617 HUTTON DRIVE
Carrollton, TX 75006-8336

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

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

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Tag Data - Ductless Mini-Splits Systems (Qty: 3)

Item	Tag(s)	Qty	Description	Model Number
A1	AC-2, AC-3, AC-4	3	1.5 Ton Ductless Mini-Splits Systems	4TXK3818A10N0A-4MXW3818A10N0A

Ductless Mini-Splits Systems**Item: A1 Qty: 3 Tag(s): AC-2, AC-3, AC-4**

Heat Pump Inverter Outdoor Unit (R-410A)

Single Refrigerant Port

38 SEER

18000 Btu/h

208-230/60/1

High Wall Indoor Unit (R-410A)

18000 Btu/h

208-230/60/1

Wired Controller (Fld)

Condensate Drain Pump (Fld)

NOT INCLUDED:

- Controls/wiring
- Isolation/insulation
- Disconnects/circuit breakers
- Additional filters/belts/sheaves
- Refrigerant specialties/piping/line sets
- Smoke detectors
- Owner training/maintenance
- Startup
- Any other items not listed in unit detail

Mechanical Specifications - Ductless Mini-Splits Systems**Item: A1 Qty: 3 Tag(s): AC-2, AC-3, AC-4****General - 38 SEER Outdoor**

This unit is fully charged from the factory for 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 129°F. Cooling capacities with the mini-split air handler shown in the catalog are AHRI certified. The unit is ETL listed for outdoor application.

Unit Casing - 38 SEER Outdoor

The unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Refrigerant Controls - 38 SEER Outdoor

Refrigeration system controls include condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi-function service valve is standard

Compressor - 38 SEER Outdoor

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

Condenser Coil - 38 SEER Outdoor

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

Low Ambient Cooling - 38 SEER Outdoor

Matched 38 SEER ductless products, have a cooling capability to 0° F and heating capability to -22° F.

General - 38 SEER Indoor

The High Wall mounted type air handler shall be completely factory assembled including coil, condensate drain pan, fan motor, washable filter, and air purifying filter and electric controls to be used with a wireless remote controller. Unit shall be shipped with a unit mounting plate. Unit shall be matched with a corresponding outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing - 38 SEER Indoor

Casing shall be provided with knockouts on the right, and left of the unit to facilitate piping and electrical connection on either side of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge Airflow and Distribution System - 38 SEER Indoor

Unit shall have auto swing, dual horizontal blades to optimize the aperture outlet for vertical airflow and air distribution. Blade shall close automatically when the air conditioner is turned off to minimize dust entering the unit. Five-Step preset program on the remote controller shall be available to control the blade angle.

Manually adjusted wide-angle louvers shall be provided to adjust the coverage and direction of airflow.

Controls - 38 SEER Indoor

Units shall have the capability to be controlled remotely.

Remote Controller - 38 SEER Indoor

The unit shall have a wireless infrared remote controller with an easily readable digital display panel to start, stop and regulate the air conditioner from a distance.

The wireless controller is available for all units. (Sold separately)

Healthy Filters - 38 SEER Indoor

The unit shall have one combined active carbon and catechin filter with the unit. The filter needs to be cleaned at least once a year.

Unit Dimensions - Ductless Mini-Splits Systems

Item: A1 Qty: 3 Tag(s): AC-2, AC-3, AC-4

Specifications

R-410A Mini Split System (R-SERIES)

MODEL - Cooling Only

4MXW3818A10N / 4TXK3818A10N

	Cooling	208/230/1 60Hz	Heating
RATED Volts/PH			
Frequency (Hz)			
Rated Cooling / Heating Capacity (Btu/h):	18000		18000
Minimum Cooling Capacity (@95F) (Btu/h):	4400		0
Maximum Cooling Capacity (@95F) (Btu/h):	21400		0
Minimum Heating Capacity (@47F) (Btu/h):	0		3700
Maximum Heating Capacity (@47F) (Btu/h):	0		24400
Maximum Heating Capacity (@17F) (Btu/h):	0		14200
Total Capacity (W) (High/Standard/Low):	6300 / 5250 / 1290		7200 / 5250 / 1080
Nominal Power Input (W)	1330		1500
Nominal Input Current (A)	5.7		6.2
SEER / HSPF	24.5		12.0
EER / COP (Btu/h)/W	13.5		3.5

Air Flow Volume (CFM) (TURBO/MH/H/M/ML/L/QUIET)	740/680/620/560/500/460/350
Dehumidifying Volume (pt./h)	3.8

Indoor Unit 4MXW3818A10N

Fan Motor Speed (r/min) (TURBO/MH/H/M/ML/L/QUIET)	1400/1300/1200/1100/1000/850/600 1400/1250/1100/1000/1050/900/850
Fan Motor RLA(A)	0.24
Evaporator	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	0.28
Rows - Fin Gap (inch)	2.0 - 0.06
Coil length (L) x depth (D) x coil height (H) (inch)	33.3 x 1.0 x 13.5
Output of Swing Motor (W)	1.5/2.5
Fuse (A)	3.15
Sound PRESSURE Level dB (A)(TURBO/MH/H/M/ML/L/QUIET) 1	51/48/45/42/39/36/34
Uncrated Dimension (L/D/H) (inch)	43.3 x 9.8 x 12.9
Crated Dimension of Package (L/D/H)	45.9 x 15.9 x 13.9
Net Weight /Gross Weight (lbs)	36.4 / 44.1

Outdoor Unit 4TXK3818A10N

Compressor Type	Rotary
L.R.A. (A)	30
Compressor RLA(A)	15.5
Compressor Power Input(W)	2443
Throttling Method	EEV
Working Temp Range (oF)	0 ~ 129 -22 ~ 75
Condenser	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	0.28
Rows - Fin Gap (inch)	2.0 - 0.06
Coil length (L) x height (H) x coil width (W) (inch)	37.2 x 1.5 x 29.4
Fan Motor Speed (rpm) (L/M/H)	820
Output of Fan Motor (W)	90
Fan Motor RLA (A)	0.65
Air Flow Volume of Outdoor Unit (CFM)	2360
Fan Diameter (inch)	21.7
Defrosting Method	Automatic Defrosting
Sound PRESSURE Level dB (A)1	59
Uncrated Dimension (L/D/H) (inch)	39.4 x 31.1 x 16.8
Crated Dimension of Package (L/D/H) (inch)	42.6 x 19.2 x 33.7
Net Weight /Gross Weight (lbs)	141.1 / 152.1
Refrigerant Charge (oz)	70.6
MCA	22
MOP	30

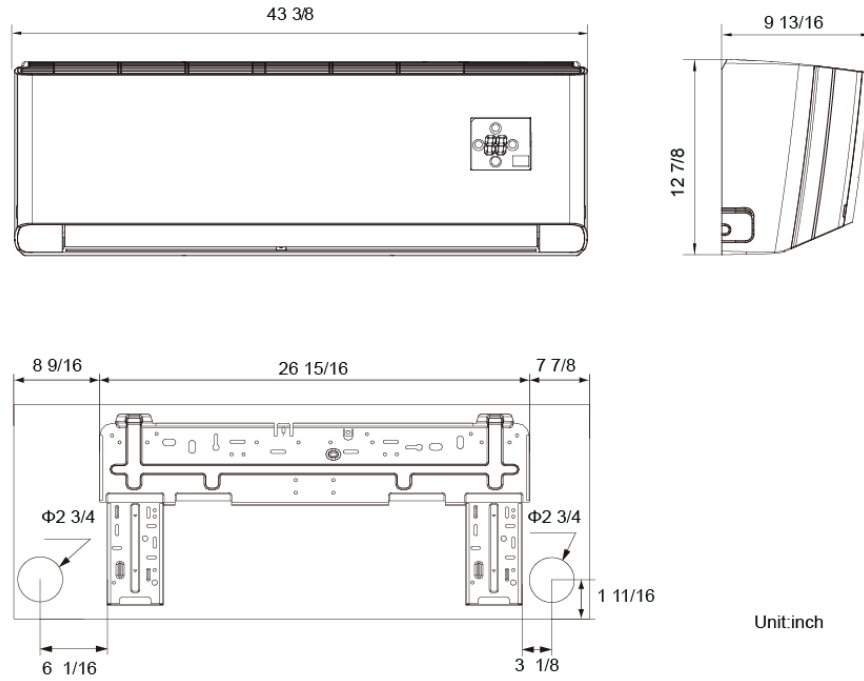
Connection Pipe

Gas additional charge(oz/ft)	0.5
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	5/8
Max Height Distance (ft)	50
Max Length Distance (ft)	100

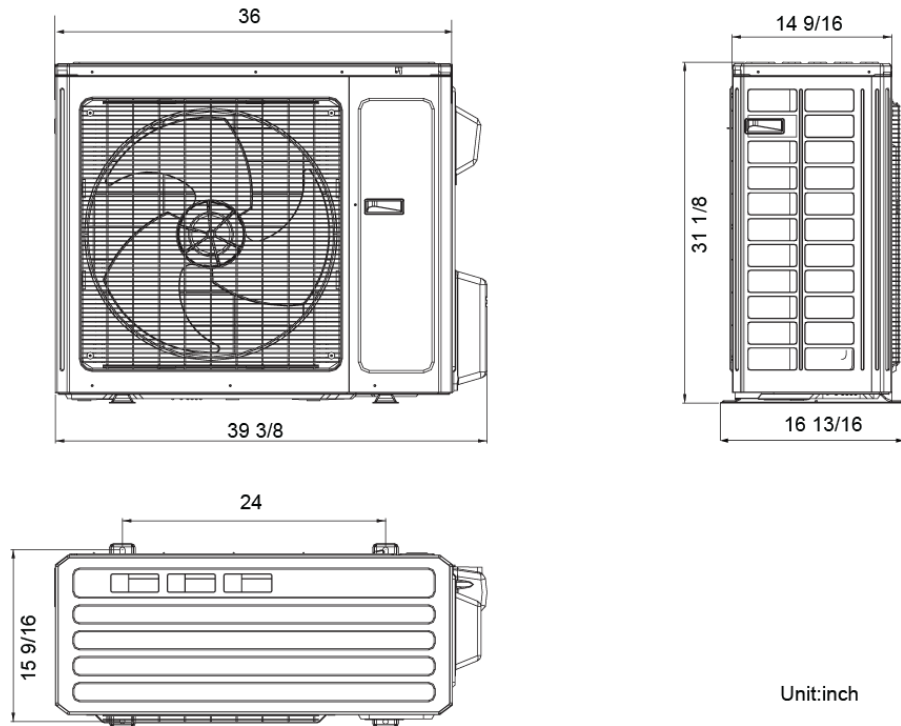
Notes:

1. Sound PRESSURE Level @ 3.3 ft. dB(A)
2. The purpose of this document is to provide electrical, dimensional and general product information. All documents are to be reviewed by the local sales office to assure all required components are accounted for and system performance meets the specific job requirements

18K-24K Indoor Units



18K-24K Outdoor Units



Accessory - Ductless Mini-Splits Systems
Item: A1 Qty: 3 Tag(s): AC-2, AC-3, AC-4

Advantage VRF™ accessory:
Condensate Pump: CONDPUMPAHWP01

For high-wall and convertible units (all sizes)



Product Specifications:

Pump Length: 4.25 in., Pump Width: 1.5 in., Pump Height: 2 in.
 Capacity: 3.2 GPH @ Zero Head / 0.8 GPH @ 33 in. Head
 Max BTU: 30000
 Max Head: 33 ft
 Max Temperature: 104°F
 Max Suction Lift: 5 ft
 Sound Level: 26 dB(A)
 Dry Contact Rating: 3 A NO/NC
 Voltage: 100-250
 Amperes: 17
 Watts: 16
 Remote Reservoir: Y
 Plenum Rated: N
 Cable Length: 6 in.

Typical Pump Locations:

