

Trane Performance Climate Changer Air Handler

Unit Overview - AHU-202

Application	Unit Size	External Dimensions			Weight	
		Height	Width	Length	Installed	Rigging
Indoor unit	CSAA014	41.5 in	72.0 in	145.9 in	1810 lb	1810 lb
Quantity of Shipping Sections		Largest Ship Split			Heaviest Ship Split	Elevation
		Height	Width	Length		
2 piece(s)		41.5 in	72.0 in	74.8 in	1037 lb	0.00 ft
Supply Fan						
Airflow	5500 cfm	Total Static Pressure	4.760 in H2O			

Construction Features

Panel	2in. foam injected R-13 with thermal break
Panel Material	All unit inner panels - galvanized
Integral Base Frame	2.5in. integral base frame
Short Circuit Current Rating	5 kA
Agency Approval	UL listed unit

Unit Electrical

Circuit	Voltage/Phase/Frequency	FLA	MCA	Max Fuse Size
Circuit number 1 Supply fan + controls-LL	460/3/60	17.09 A	19.15	25.00

Unit Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	70 dB	80 dB	92 dB	88 dB	89 dB	85 dB	82 dB	76 dB
Return:	67 dB	71 dB	82 dB	75 dB	72 dB	72 dB	66 dB	61 dB
Outdoor:	66 dB	64 dB	82 dB	74 dB	70 dB	68 dB	62 dB	58 dB
Casing:	78 dB	78 dB	85 dB	80 dB	84 dB	65 dB	62 dB	58 dB

Unit Controls

Factory Controls Package	Variable volume
Controller Type	Symbio
Controller mounting	Unit mounted
Controller location	Front
Factory programmed	Yes

Warranty

Warranty section	Std. warranty only
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Air mixing section - Position: 1

Openings

Face	Path	Type	Airflow	Face Velocity	Area	Pressure Drop	Hood
Back	Return	Parallel blade damper	5500 cfm	972 ft/min	5.66 sq ft	0.122 in H2O	N/A
Top	Outside	Sizeable rectangular opening	5500 cfm	937 ft/min	5.87 sq ft	0.000 in H2O	N/A

Filter

Type	Frame	MERV Rating	Quantity	Size
Pleated media - MERV 8	2"	MERV 8	4.00	20in.x20in.
			2.00	20in.x25in.
Pressure Drop	Condition	Face Velocity	Airflow	Area
0.575	Mid-life	305 ft/min	5500 cfm	18.06 sq ft

Section Options

Door Location | Right

Cooling coil section - Position: 2

Coil Construction		Coil Performance	
Model	Refrigerant - 3/8" Unit Optimized, General (3F)	Capacity	
Rows	6	Total	267.36 MBh
Tube Diameter	3/8in. tube diameter (9.5 mm)	Sensible	171.81 MBh
Coil Connection	Standard	Air	
Tube Mat/Wall Thickness	3/8" Internally enhanced copper tubes	Flow	5500 cfm
Fin Spacing	134 Per Foot	Entering Dry Bulb	81.50 F
Fin Material	Aluminum fins	Entering Wet Bulb	68.00 F
Fin Type	Omega flo H (Hi efficient)	Leaving Dry Bulb	53.00 F
Face Area	13.44 sq ft	Leaving Wet Bulb	52.11 F
Coil (top/single) H x L	32 in. (813 mm) X 61" (1549 mm) finned length	Pressure Drop	0.682 in H2O
Casing	Galvanized	Face Velocity	409 ft/min
Rigging Weight	187.5 lb	Refrigerant	
Coil Section Options		Type	R-410A
Drain Pan	Galvanized	Liquid Temperature	115.00 F
Drain Pan Size	Medium	Suction Temperature	45.00 F
Drain Connection	Right	Suction superheat	8.00 F
Minimum Trap Height (L)	7.081 in	Circuiting Type	Intertwined circuits
H Trap Dimension	4.054 in	Capacity Circuits	Full circuiting
J Trap Dimension	2.027 in	Number of Distributors	2
Door Location	Right	AHRI 410 Classification	
		AHRI 410 Classification	AHRI ACHC Certified
		Data Generation Date	12/8/2023
		Trane Select Assist update number	2770

Note: Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Cooling coil section - Position: 3

Coil Construction		Coil Performance	
Model	Refrigerant - 3/8" Unit Optimized, General (3F)	Capacity	
Rows	6	Total	267.36 MBh
Tube Diameter	3/8in. tube diameter (9.5 mm)	Sensible	171.81 MBh
Coil Connection	Standard	Air	
Tube Matl/Wall Thickness	3/8" Internally enhanced copper tubes	Flow	5500 cfm
Fin Spacing	134 Per Foot	Entering Dry Bulb	81.50 F
Fin Material	Aluminum fins	Entering Wet Bulb	68.00 F
Fin Type	Omega flo H (Hi efficient)	Leaving Dry Bulb	53.00 F
Face Area	13.44 sq ft	Leaving Wet Bulb	52.11 F
Coil (top/single) H x L	32 in. (813 mm) X 61" (1549 mm) finned length	Pressure Drop	0.682 in H2O
Casing	Galvanized	Face Velocity	409 ft/min
Rigging Weight	187.5 lb	Refrigerant	
Coil Section Options		Type	R-410A
Drain Pan	Galvanized	Liquid Temperature	115.00 F
Drain Pan Size	Medium	Suction Temperature	45.00 F
Drain Connection	Right	Suction superheat	8.00 F
Minimum Trap Height (L)	8.105 in	Circuiting Type	Intertwined circuits
H Trap Dimension	4.736 in	Capacity Circuits	Full circuiting
J Trap Dimension	2.368 in	Number of Distributors	2
Door Location	Right	AHRI 410 Classification	
		AHRI 410 Classification	AHRI ACHC Certified
		Data Generation Date	12/8/2023
		Trane Select Assist update number	2770

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Supply fan section - Position: 4

Fan Data		Motor Data	
Wheel Diameter/Type/Class	15.7 impeller fan redu width	Voltage	460/3
Fan Quantity	2	Impeller Fan Control Voltage	7.6 V
Discharge Location	Front top	Impeller Fan HP per fan	8.050 hp
Motor Location	Right side drive	FEI	1.36
Drive Service Factor	Direct drive	Wire to air static efficiency	55.47 %
Fan K-factor	1746.00	Note: Certified airflow performance per AHRI 430	
Fan Performance		Fan Section Options	
Airflow	5500 cfm	Backdraft Dampers	Field provided or blockoff plate
Total Static Pressure	4.760 in H2O	Door Location	Right
Operating Speed	2763 rpm	Door Guard	Yes
Fan electrical power (FEP)	5.54 kW	One Fan Down	
Max Total Static Pressure @ 10V	8.308 in H2O	Redundancy	93.41 %
Motor Interface Options		Impeller Fan Control Voltage	10.0 V
Selection Type	Motorized impeller control panel	Operating Speed	3650 rpm
Voltage	460/3		
Mounting Location	External mounting		

Fan Discharge Options							
Face	Type	Airflow	Face Velocity	Area	Pressure Drop	Exhaust Hood	Damper Torque Requirement
Front Face Feature	Sizeable rectangular opening	5500 cfm	1128 ft/min	4.88 sq ft	0.199 in H2O	N/A	N/A

Note: Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org.





Supply fan Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	70 dB	80 dB	92 dB	88 dB	89 dB	85 dB	82 dB	76 dB
Return:	67 dB	71 dB	82 dB	75 dB	72 dB	72 dB	66 dB	61 dB
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Casing:	78 dB	78 dB	85 dB	80 dB	84 dB	65 dB	62 dB	58 dB

Pressure Drop in (in w.g.)

Supply fan	
Air mixing section	0.70
Coil section	0.68
Coil section	0.68
Fan section	0.20
Internal Static Pressure	2.26
External Static Pressure	2.50
Total Static Pressure	4.76