

6 - 25 Ton Unitary Split Systems Indoor

Unit Overview			
Model	TWE12043AAA**A0000000000000000000000000000000		
Unit Tonnage	10 Tons		
Max A.H. Operating weight	429.0 lb		
Min A.H. Operating weight	393.0 lb		
Unit Voltage	208-230/60/3		
Refrigeration Circuit	Single Circuit		



Fan Information	100 st
Airflow	√ √ 4000 cfm
External Static Pressure	0.500 in H2O
External Plus Component Static Pressure	رون 0.500 in H2O
Supply fan motor RPM	742 rpm
Supply fan motor BHP	1.44 bhp

Coo	100.00			
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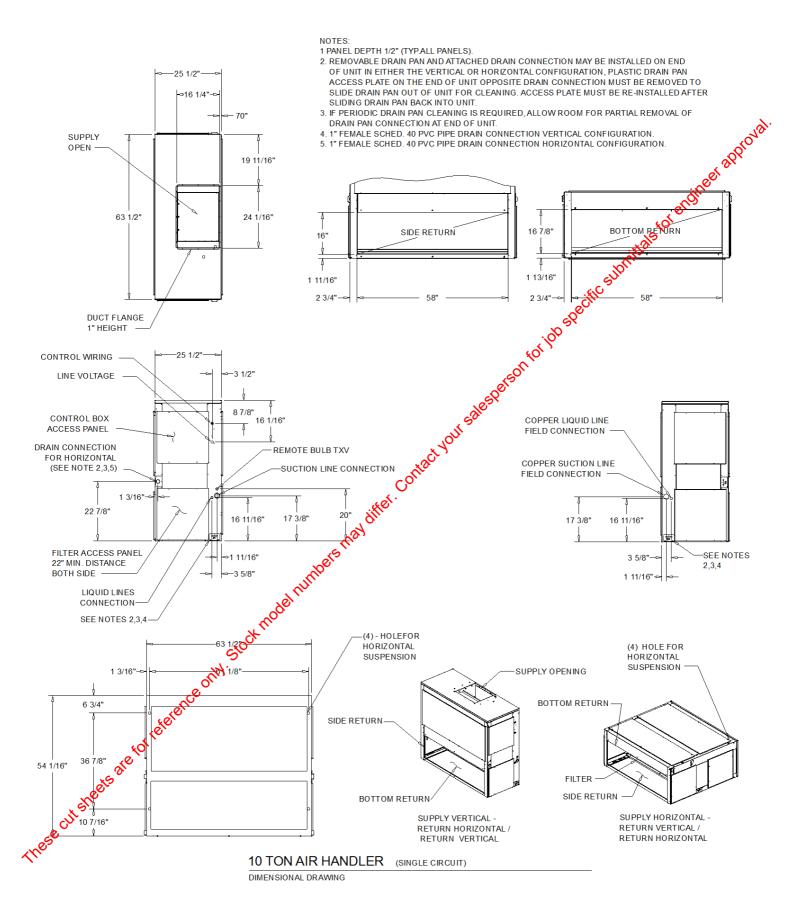
Airflow	4000 cfm
Cooling EDB	80.00 F
Cooling EWB	67.00 F
Ambient Temperature	95.00 F

Heating Information	Mers		
Heat Pump	Information (III)	Electric Hear	t Information
Heating EDB	8 0.00 F	Heating EDB	70.00 F
Heating Ambient DB	17.00 F	Electric heat capacity	0.00 kW
Heating Ambient WB	15.00 F	Electric heat delta T	0.00 F
	Si		

External Static Pressure	0.500 in H2O	External Plus Component Static Pressure	0.500 in H2O
MCA - A.H.	8.00 A		0.00.4
MOP - A.H.	15.00 A	MCA - A.H. for 230V w/elect. heat	8.00 A
Evaporator Motor FOA	6.10 A	MOP - A.H. for 230V w/elect. heat	15.00 A
Refriger of Information			
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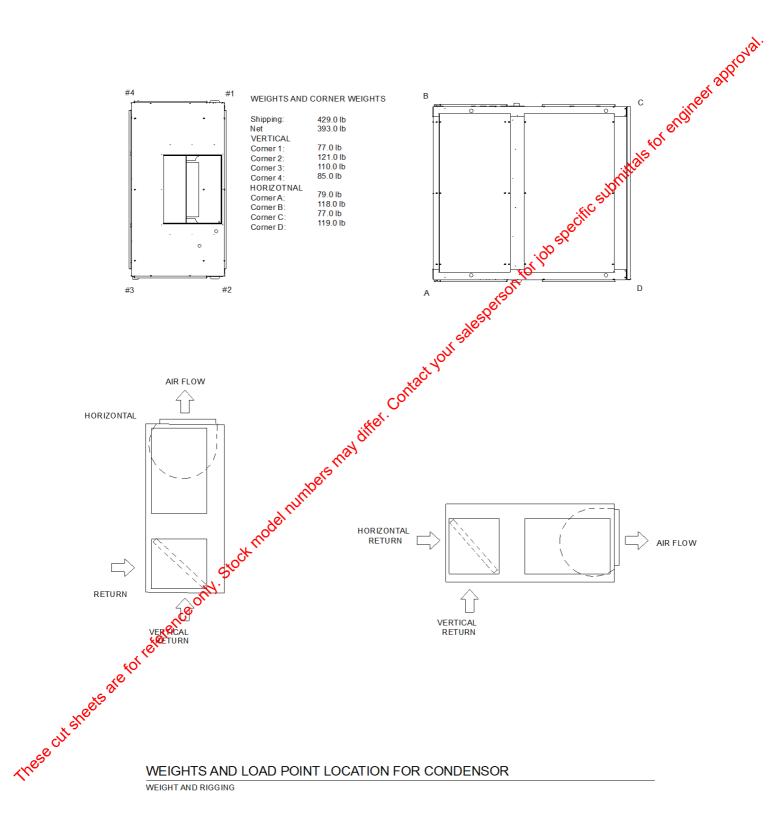
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AIR HANDLER ELECTRICAL DATA

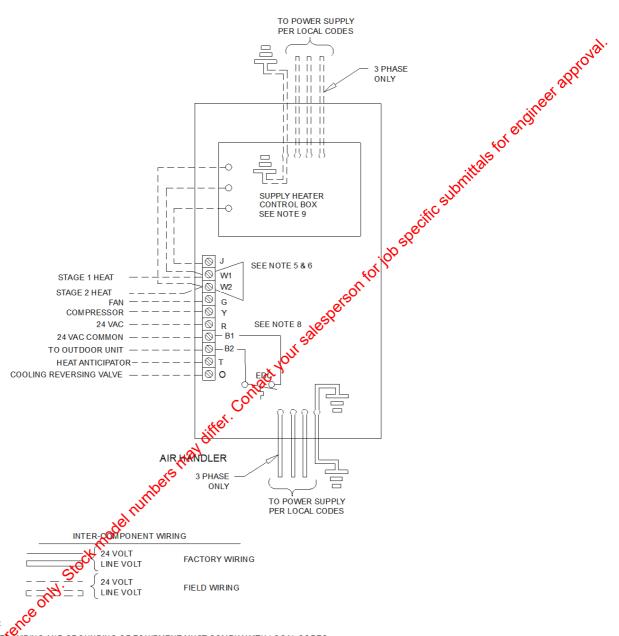
Model: Int Operating Voltage: Minimum Circuit Ampacity: Maximun Fuse Size: Maximun Circuit Breaker:	TWE120 187-253 8.0 15.0 15.0	Convertible 460 Voltages TWE 120 414-506 4.0 15.0	EVAPORATOR FAN MO No.: Volts: Phase: Motor HP: Amp-FLA: Amp-LRA:	1 208-230 3 2.0 6.1 53.6	Convertible 460 Voltage 1 460 3 2.0 3.1 27.2
		GEN	NERAL DATA		
SYSTEM DATA			INDOOR COIL - TYPE		<
No. Refrigerant Circuits Suction Line (in.) OD Liquid Line (in.) OD	1 1 3/8" 1/2"		Tude Size: Face Area: Row/FPI Refrigerant Control Drain Connection Size	3/8" 11 3/16" 4 / 14 EXPANSION VA 1" PVC	EVE SUbmitals for seasons as
INDOOR FAN			FILTER	ه م	eific
Type: No. Used/Diameter x Width: Drive Type/No. Speed: CFM: No. Motor: Motor HP - Standard/Oversized: Motor RPM: Motor Frame Size:	CENTRIFUGAI 1 / 15"X15" BELT/ADJUST/ 4000 1 2.0 / 3.0 1725 56Z		Type: Furnished: No. Size Recommended:	THROWAW XES (A) 16"X25"	4Y (1"
ELECTRICAL DATA Heat Rating (kW): Control Stages: Power Supply: Minimum Circuit Ampacity: Maximun Fuse Size: Maximun Circuit Breaker:	-	HE	Notes: Control 1. KW ratings are at: 208/240V for 200V for 460V air handlers 600V for 575V air handlers For other than rated voltage, ca 2. Any power supply and circuits in	Voltage pacity = (Rated Volt	ace) x ² Rated Capacity
IOTES: Cooling performance is rated at 9	*	model numbers.	with local electrical codes. 3. The HACR circuit breaker is for 4. With motor field converted to 46		ly.
the effect of fan motor heat. Ratifulation of the standard 340/360 or 365 certification of the standard 340/360 or 365 certification of the standard 340/360 or 365 certification of the standard of the stand	he effect fran mings shown are teation word am. Jim Capacity rate culated with matched in accordance and on AHRI Stance	otor heat. AHRI capacity is net sted and certified in accordance at 45 F saturated suction temporated blower coil and 25 ft. of OD with DOE test procedures. lard 340/360 or 365. Units are at AHRI rated CFM. htRI Standard 270. and line length.	t and includes e with AHRI perature and interconnecting tubing. rated at 80 F ambient, ower coils and 25 ft.		

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WEIGHT AND RIGGING

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- 1. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
- 2. BEOURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
- 3 COW VOLTAGE WIRING TO BE 18 A.W.G. MINIMUM CONDUCTOR. USE COPPER CONDUCTORS ONLY.

NOTES

- 5. IF TWO STAGE ELECTRIC HEATERS AND THERMOSTAT ARE USED, REMOVE JUMPER BETWEEN W1 AND W2.
 - 6. FOR SINGLE STAGE ELECTRIC HEATER, OMIT WIRE BETWEEN W2 AND THERMOSTAT AND W2 AND ELECTRIC HEATER.
 - 7. FOR COOLING ONLY, OMIT WIRES BETWEEN W1, W2 AND THERMOSTAT AND OMIT ELECTRIC HEATER.
 - 8. IF THE EDC SWITCH IS TO BE CONNECTED IN THE CIRCUIT, THE EDC WIRE MUST BE REMOVED FROM THE B1 TERMINAL AND RECONNECTED TO THE "Y" TERMINAL ON THE INDOOR SECTION LOW VOLTAGE TERMINAL BOARD AS SHOWN.
 - 9. WHEN ELECTRIC HEATER ACCESSORY IS USED, SINGLE POINT POWER ENTRY OR DUAL POINT POWER ENTRY IS FIELD OPTIONAL. SINGLE POINT POWER ENTRY OPTION IS THROUGH ELECTRIC HEATER ONLY.

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Job Name: Stock Units Prepared For: Unit Tag: AMSTWE12043AA Quantity: 1

General - TWE

Completely Factory Assembled Convertible for Horizontal or Vertical Configuration Convertible for Cooling Only or Heat Pump Application Convertible for Left or Right External Connections (Refrigerant and/or Electrical) Convertible for Front or Bottom Air Return Nitrogen Holding Charge Certified and Rated in Accordance with AHRI and DOE Standards Certified to UL 1995 for Indoor Blower Coil Units

Casing - TWE

Zinc Coated, Heavy Gauge, Galvanized Steel Weather Resistant Baked Enamel Finish Access Panels with Captive Screws Completely Insulated with Foil Faced, Cleanable, Fire Retardant, Permanent Odorless Glass Fiber Material Captured or Sealed Insulation Edges Electrical Connection Bushings or Plugs Refrigerant Connection Bushings or Plugs Withstand Elevated Internal Static Pressure

Refrigeration System - TWE

Single or Dual Circuit Distributor(s) Thermal Expansion Valves (TXVs)

Evaporator Coil - TWE

3/8" Internally Enhanced Copper Tube Mechanically Bonded to Lanced Alumidum Plate Fins Factory Pressure and Leak Tested to 449 psig.

Draw-Through Airflow Dual Circuits Are Interlaced/Intertwined Double Sloped, Removable, Cleanable, Composite Drain Pan Four Drain Pan Positions

Indoor Fan - TWE

Double Inlet, Double Width, Forward Curved, Centrifugal Type Fan Dual Fans On 10.4-20.912.5-25 Ton Air Handlers Adjustable Belt Drive Permanently Lubricated Bearings

Indoor Motor - TWE

Adjustable Motor Sheaves Fixed Motors Sheaves (SZVAV and 2-Speed VFD) Thermal Overload Protection Permanently Lubricated Bearings
Meet Energy Policy of 1992 (EPACT) Optional General Motors for High Static Applications

Controls - TWE

Completely Internally Wired Numbered and Colored Wires Magnetic Indoor Fan Contractor Low Voltage Terminal Strip Single Point Power Entry Evaporator Defrost Control

Filters - TWE

Access From Side Coil Panels Filters Slide on Rack One Inch (1"), Throw-Away Filters on 4.6-8.335-10 Ton Units Filter Rack Convertible to Two Inch (2") Capability on 5-10 Ton Units Two Inch (2"), Throw-Away Filters on 10.4-20.912.5-25 Ton Units

Electric Heaters TWE

Heavy Duty Nickel Chromium Elements cETL Approved Installs Directly On Fan Discharge One or Two Stage Control (Dependent Upon Capacity) Single Point Power Entry Terminal Strip Connections 208-230V Heaters Internally Wye Connected Automatic Line Break High Limit Controls 230V Heaters Internally Delte Connected Automatic Reset of High Limit Controls Through Pilot Duty with Secondary Backup Fuse Links

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Condenser and Air Handler Pairings

Table 3. Model number descriptions

TWE Air Handler with Symbio

Digit 15 - Controls

1 = Constant Volume

C = 2 Stage Airflow (Electromechanical Condenser Only)

D = 2 Stage Airflow/Single Zone VAV (Symbio Condenser Only)

TWE Air Handler (pre-Symbio)

Digit 15 - Controls

0 = Constant Volume

A = 2 Stage Airflow (Electromechanical Condenser Only)

B = Single Zone VAV (ReliaTel Condenser Only)

SS-s. Table 4. Condenser and air handler pairing instructions (See document SS-SVN016A-EN)

Condenser (model # digit)	Air Handler		a soft	
	Туре	Supply Fan Type (model # digit)	Instructions	
Odyssey Electromechani- cal (Digit 15 = E)	Odyssey Symbio	Constant Volume (Digit 15 = 1)	z Ontact Your	
		2-Speed Airflow (Digit 15 = C)	Contr	
		Single Zone VAV (Digit 15 = D)	Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board VFD.	
		Constant Volume (Digit 15 = 1)		
Odyssey ReliaTel (Digit 15 = R)	Odyssey Symbio	2-Speed Arriow (Digit 13 = C)		
		Single Zone VAV Digit 15 = D)	Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board to VFD.	

These cut sheets are for reference only. St.

Condenser and Air Handler Pairings

Table 4. Condenser and air handler pairing instructions (continued) (See document SS-SVN016A-EN)

	Air Ha	andler		
Condenser (model # digit)	Supply Fan Type Type (model # digit		Instructions	
	Odyssey Symbio	Constant Volume (Digit 15 = 1)	Install a shielded, twisted pair cable if the Air Handler has Electric Heat and/or requires Single Zone VAV operation (Trane IMC communication)	
		2-Speed Airflow (Digit 15 = C)	Pairing G, H, and 2 will not have heat in defrost. Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat Install a shielded, twisted pair cable if the Air Handler has Electric Heat and/or requires Single Zone VAV operation (Trane IMC communication)	
		Single Zone VAV (Digit 15 = D)	Install a shielded, twisted pair cable if the Air Bandler has Electric Heat and/or requires Single Zone (AAV operation (Trane IMC communication) Install a shielded, twisted pair cable for Symbio Condenser control of the Air Handler supply (An VFD (Modbus communication)	
	Odyssey	Constant Volume (Digit 15 = 0)	Pairing G, H, and 2 will me have heat in defrost.	
Odyssey Symbio (Digit 15 = S)	Electromechanical	2-Speed Airflow (Digit 15 = A)	Pairing G, H, and 35 electric heat will not operate if zone sensor installed, only with a thermostat.	
(bigit 13 – 3)		cay differ	Pairing G, th and 2 will not have heat in defrost. Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat. Install a shielded, twisted pair cable for Symbio Condenser control of the Air Handler supply fan VFD (Modbus communication)	
	Odyssey ReliaTel	Variable Speed, Single Zone VAV (Digit 15 = B)	Pairing G, H, and 2; electric heat will not operate if zone sensor installed, only with a thermostat. Pairing F, D or G require wire harness kit WIR010190 (required) and WIR010185 (optional) to connect Air Handler Relay Board to VFD. This pairing requires the replacement of the RTOM module with	
	ay. Stock II.		a Symbio Relay Board (MOD03105) and that the VFD wires 81B, 82B, 93B, 94B and 94D be replaced with wire harness kit WIR010190 (required) and WIR010185 (optional). The Air Handler will operate as a 2-speed fan.	
	Generic Air Handler Constant Volume	Constant Volume		
Two Symbio Condensers (2 condensers to 1 air Handler)	Odyssey Electromechanical			

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