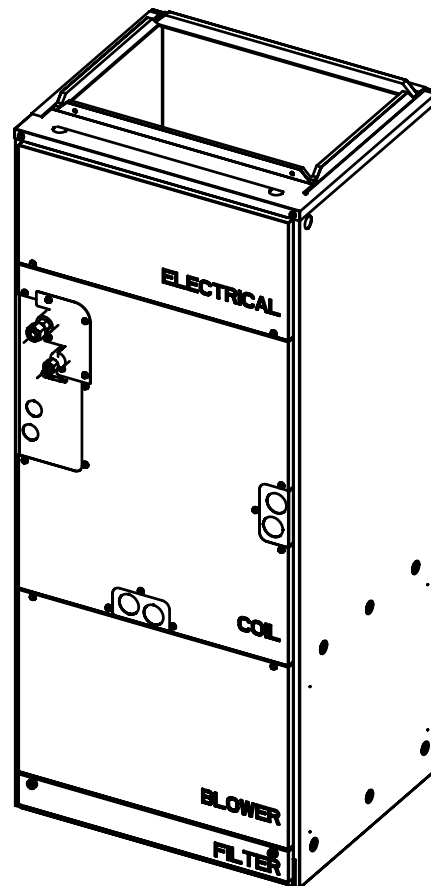


Product and Submittal Data

Air Handler 5TEM9

5TEM9D06AC31SAA
5TEM9D07AC41SAA
5TEM9C02AC21SA
5TEM9D04AC31SA



Note: Graphics in this document are for representation only. Actual model may differ in appearance.

Introduction

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Model Number Description

Digit 1 — Refrigerant

5 = R-454B

Digit 2 — Brand

T = Trane Technologies

Digit 3 — Product Type

A = Air handler

D = Dedicate AHU

E = Air handler

Digit 4 — Convertability

M = Multi-poise 4-way

E = Upflow front returnn, 3-way

E = 3-way

Digit 5 — Product Tier

4/5 = 24V entry level

6 = 24V Variable speed

8 =

C = Communicating/24V TEM

X = Communicating/24V TAM

Digit 6 — Cabinet Size

B =

C =

D =

Digit 7 — Coil Size

0 =

Digit 8 —

1 =

2 =

3 =

4 =

5 =

6 =

Digit 9 — Major Modification

A

Digit 10— Airflow Type and Capability

C = CTM

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Digit 11— Nominal Airflow Tonnage

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Digit 12— Control Type

S = 24V

D = Link and 24V

3 = 3-phase

Digit 13— Control Type

S = 24V

D = Link and 24V

3 = 3-phase

Digit 14— Minor Design Change

A

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A

Product Specifications

Table 1. 5TEM9 product specifications

MODEL	5TEM9C02AC21SAA	5TEM9D04AC31SAA	5TEM9D06AC31SAA	5TEM9D07AC41SAA
Application Configuration	4-Way	4-Way	4-Way	4-Way
Agency Listing (ETL/UL/CSA)	ETL	ETL	ETL	ETL
RATED CAPACITY RANGE (BTUH)	18K - 24K	18K - 36K	18K - 54K	18K - 60K
SYSTEM CONTROL TYPE	24V	24V	24V	24V
POWER CONN. - V/PH/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max Breaker Size, Without Electric Heater (Amps)	15	15	15	15
Max Breaker Size, With Electric Heater (Amps) ^{(a) (b)}	45	45	50	50
COIL TYPE	Copper Tube - Aluminum Plate Fin	Copper Tube - Aluminum Plate Fin	Copper Tube - Aluminum Plate Fin	Copper Tube - Aluminum Plate Fin
Refrigerant Type	R-454B	R-454B	R-454B	R-454B
Refrigerant Control	EEV (Outdoor)	EEV (Outdoor)	EEV (Outdoor)	EEV (Outdoor)
Refrigerant Line Connection - Gas (in.)	5/8"	5/8"	5/8"	3/4"
Refrigerant Line Connection - Liquid (in.)	3/8"	3/8"	3/8"	3/8"
BLOWER TYPE				
Configuration	Blow Through	Blow Through	Blow Through	Blow Through
Dimensions (Diameter x Width (in.))	10" x 7"	10" x 8"	10" x 8"	10" x 8"
Motor Type	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Nominal CFM ^(c)	875	1125	1485	1650
Speed (RPM)	870	870	990	1206
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Full Load Amps	3.3	4.4	2.9	2.9
FILTER RACK (YES, NO)	Yes	Yes	Yes	Yes

^(a) Maximum overcurrent protection is dependent on which electric heater is installed. See Installation, Operation, and Maintenance manual or unit name plate.

^(b) If installing system outside of the United States, accessory electric heaters may not be installed.

^(c) For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.

Table 2. Dimensions and weights

MODEL	5TEM9C02AC21SAA	5TEM9D04AC31SAA	5TEM9D06AC31SAA	5TEM9D07AC41SAA
Dimensions (Length x Width (in.))	20 x 20 x 1	20 x 24 x 1	20 x 24 x 1	20 x 24 x 1
DUCT CONNECTIONS	L x W	L x W	L x W	L x W
Supply (in.)	18.82 x 15.875	22.19 x 15.89	22.19 x 15.89	22.19 x 15.89
Return (in.)	18.19 x 18.56	22.19 x 18.56	22.19 x 18.56	22.19 x 18.56
DRAIN CONN. SIZE (IN.)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
DIMENSIONS	H x W x D	H x W x D	H x W x D	H x W x D
Uncrated (in.)	21 x 21.63 x 54.25	25 x 21.63 x 59.5	25 x 21.63 x 59.5	25 x 21.63 x 59.5

Product Specifications

Table 2. Dimensions and weights (continued)

MODEL	5TEM9C02AC21SAA	5TEM9D04AC31SAA	5TEM9D06AC31SAA	5TEM9D07AC41SAA
Crated (in.)	22 x 28.75 x 58.63	26 x 28.75 x 63.75	26 x 28.75 x 63.75	26 x 28.75 x 63.75
WEIGHT - SHIPPING/NET (LBS.)	163	198	198	200

Table 3. Product Data

MODEL	5TEM9C02AC21SA	5TEM9D04AC31SA	5TEM9D06AC31SA	5TEM9D07AC41SA
Rated Capacity Range (BTUH)	18K - 24K	18K - 36K	18K - 54K	18K - 60K
Supply Opening (in.)	18.82 x 15.875	22.19 x 15.89	22.19 x 15.89	22.19 x 15.89
Return Opening (in.)	18.19 x 18.56	22.19 x 18.56	22.19 x 18.56	22.19 x 18.56
Filter Sizes (in.) ^(a)	20 x 20 x 1	20 x 24 x 1	20 x 24 x 1	20 x 24 x 1
Line Size (in.) — Gas	5/8	5/8	5/8	3/4
Line Size (in.) — Liquid	3/8	3/8	3/8	3/8

^(a) Filter not supplied.

Table 4. Heater specifications

Air Handler	Heater Model Number	Description	Heater kW (208V/240V)	Heater Amps ^(a) (208V/240V)	MCA ^(a) (208V/240V)	MOP ^(a) (208V/240V)	Htr and Mtr Amps ^(b) (208V/240V)	MCA ^(b) (208V/240V)
5TEM9-C02AC21-SA	EH03-MPA-MB	3kW Electric Heater	2.3/3.0	10.8/12.5	13.5/15.6	15/20	14.1/15.8	17.7/19.8
	EH05-MPA-MB	5kW Electric Heater	3.85/5.0	18.1/20.8	22.6/26	25/30	21.4/24.1	26.7/30.2
	EH08-MPA-MB	8kW Electric Heater	6.0/8.0	28.9/33.3	36.1/41.7	40/45	32.2/36.6	40.2/45.8
	EH10-MPA-MB	10kW Electric Heater	7.5/10	36.1/41.7	45.1/52.1	50/60	39.4/45	49.3/56.2
5TEM9-D04AC31-SA	EH10-MPA-LB	10kW Electric Heater	7.5/10	36.1/41.7	45.1/52.1	50/60	40.6/46.2	50.8/57.7
	EH15-MPAS-LB	15kW Electric Heater	11.3/15	27.1/31.2 (Circuit 1 and 2)	33.9/39.1 (Circuit 1 and 2)	35/40 (Circuit 1 and 2)	31.6/35.8 (Circuit 1) 27.1/31.2 (Circuit 2)	39.5/44.7 (Circuit 1) 33.9/39.1 (Circuit 2)
	EH17-MPAS-LB	17kW Electric Heater	13.2/17.5	31.6/36.5 (Circuit 1 and 2)	39.5/45.6 (Circuit 1 and 2)	40/50 (Circuit 1 and 2)	36.1/41 (Circuit 1) 31.6/36.5 (Circuit 2)	45.1/51.2 (Circuit 1) 39.5/45.6 (Circuit 2)
5TEM9-D06AC31-SA	EH10-MPA-LB	10kW Electric Heater	7.5/10	36.1/41.7	45.1/52.1	50/60	40.6/46.2	50.8/57.7
	EH15-MPAS-LB	15kW Electric Heater	11.3/15	27.1/31.2 (Circuit 1 and 2)	33.9/39.1 (Circuit 1 and 2)	35/40 (Circuit 1 and 2)	31.6/35.8 (Circuit 1) 27.1/31.2 (Circuit 2)	39.5/44.7 (Circuit 1) 33.9/39.1 (Circuit 2)
	EH17-MPAS-LB	17kW Electric Heater	13.2/17.5	31.6/36.5 (Circuit 1 and 2)	39.5/45.6 (Circuit 1 and 2)	40/50 (Circuit 1 and 2)	36.1/41 (Circuit 1) 31.6/36.5 (Circuit 2)	45.1/51.2 (Circuit 1) 39.5/45.6 (Circuit 2)

Table 4. Heater specifications (continued)

Air Handler	Heater Model Number	Description	Heater kW (208V/240V)	Heater Amps ^(a) (208V/240V)	MCA ^(a) (208V/240V)	MOP ^(a) (208V/240V)	Htr and Mtr Amps ^(b) (208V/240V)	MCA ^(b) (208V/240V)
5TEM9-D07AC41-SA	EH10-MPA-LB	10kW Electric Heater	7.5/10	36.1/41.7	45.1/52.1	50/60	40.6/46.2	50.8/57.7
	EH15-MPAS-LB	15kW Electric Heater	11.3/15	27.1/31.2 (Circuit 1 and 2)	33.9/39.1 (Circuit 1 and 2)	35/40 (Circuit 1 and 2)	31.6/35.8 (Circuit 1) 27.1/31.2 (Circuit 2)	39.5/44.7 (Circuit 1) 33.9/39.1 (Circuit 2)
	EH17-MPAS-LB	17kW Electric Heater	13.2/17.5	31.6/36.5 (Circuit 1 and 2)	39.5/45.6 (Circuit 1 and 2)	40/50 (Circuit 1 and 2)	36.1/41 (Circuit 1) 31.6/36.5 (Circuit 2)	45.1/51.2 (Circuit 1) 39.5/45.6 (Circuit 2)

^(a) Heater amps; no motor.

^(b) Heater and motor amps (connect air handler power supply to largest circuit breaker)

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