



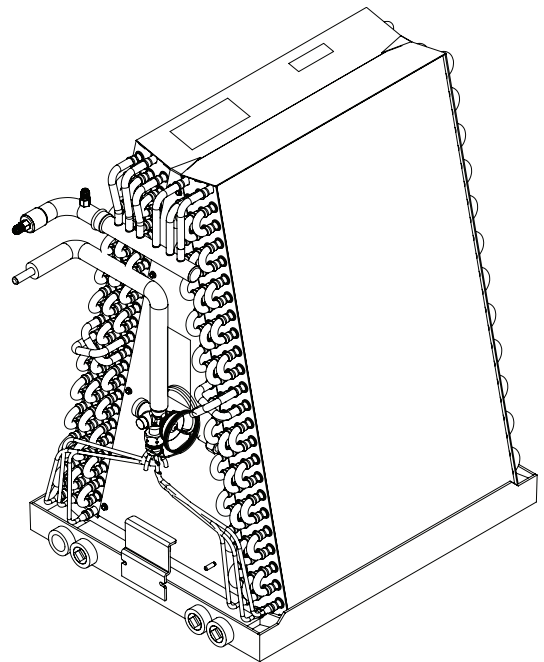
Product and Submittal Data

Uncased Vertical Aluminum Upflow and Downflow Cooling/ Heat Pump Coils, 1.5 to 5 Ton

Heat Pump / Cooling Coils for R-454B

Uncased Upflow and Downflow Coils

5AXAA001AS3HAA
5AXAB002AS3HAA
5AXAA003AS3HAA
5AXAB004AS3HAA
5AXAA005AS3HAA
5AXAB006AS3HAA
5AXAB007AS3HAA
5AXAB008AS3HAA
5AXAC009AS3HAA
5AXAB010AS3HAA
5AXAC011AS3HAA
5AXAD012AS3HAA



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



Introduction

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Data Notes

This document supersedes and includes data from the documents listed below.

Table 1. Data notes

Literature Number	Title
22-2004-1*-EN	Uncased Vertical Aluminum Upflow & Downflow Cooling/HP Coils 1-1/2 - 5 Ton Product Data
5AXA-SUB-1*-EN	5AXA Series Coils 1-1/2 - 5 ton Comfort Coils, Split System Aluminum Heat Pump / Cooling Coils Uncased Upflow & Downflow Submittal



Table of Contents

Model Number Description	4
Product Specifications	5
Performance Data	7
Dimensional Data	8
Mechanical Specifications	9



Model Number Description

Digit 1 — Refrigerant Type

4 = R-410A
5 = R-454B

Digit 2 — Product Family

T = Premium (Heat Pump)
P/A = Premium High Effy Dedicated Position Coils
(Cooling and HP)
M = Value Multi-Poise (Cooling and HP)
M = Value Multi-Poise (Cooling and HP)

Digit 3 — Coil Design

X = Direct Expansion Evaporator Coil

Digit 4 — Product Family

C = Cased A Coil
A = Uncased A Coil
F = Cased Horizontal Flat Coil

Digit 5 — Cabinet Width

A = 14.5 inch
B = 17.5 inch
C = 21.0 inch
D = 24.5 inch
H = 10.5 inch

Digit 6 — Airflow Direction

0 = Multi-directional (horizontal allowed)
U = Upflow/Downflow, convertible to Horizontal Left
D = Downflow, convertible to Horizontal Right

Digit 7, 8 — Nominal Capacity in 1000s (BTUH), or Model Number Distinguisher

Digit 9 — Major Design Change

Digit 10 — Efficiency

C = Standard
S = High Efficiency
Z = High Efficiency (TXV modulates to 50%)

Digit 11 — Refrigerant Control

3 = TXV - Non-Bleed

Digit 12 — Coil Circuitry

H = Heat Pump
C = Cooling

Digit 13 — Airflow Configuration

A = Upflow
U = Upflow / Downflow
D = Downflow
R = Horizontal Left / Right
H = Horizontal Only
C = Convertible - Upflow, Downflow, Left, or Right
Airflow

Digit 14 — Minor Design Change

Digit 15 — Service Digit — Not Orderable



Product Specifications

Table 2. Product specifications - models 5AXAA001AS3HAA, 5AXAB002AS3HAA, 5AXAA003AS3HAA, 5AXAB004AS3HAA

Model	5AXAA001AS3HAA	5AXAB002AS3HAA	5AXAA003AS3HAA	5AXAB004AS3HAA
Rated Capacity Range (T)	1.5 to 2	1.5 to 2	1.5 to 2.5	1.5 to 3
Indoor Coil - Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows / F.P.I	2/14	2/14	3 / 14	3/ 14
Face Area (sq. ft.)	2.67	3.11	3.11	3.11
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigeration Control	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV
Drain Conn. Size (in.)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
Duct Connections	See Outline Drawing	See Outline Drawing	See Outline Drawing	See Outline Drawing
Refrigerant Connections	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED
Line Size - Gas (in.)	3/4	3/4	3/4	3/4
Line Size - Liquid (in.)	3/8	3/8	3/8	3/8
Dimensions (in.)	H x W x D			
Crated	7-1/4 x 13-1/2 x 23-3/4	17-1/4 x 16-1/2 x 23-3/4	17-1/4 x 13-1/2 x 23-3/4	17-1/4 x 16-1/2 x 23-3/4
Uncrated	13 x 13 x 19-1/4	13 x 16 x 19-1/4	15 x 13 x 19-1/4	15 x 16 x 19-1/4
Weight (lbs) Shipping / Net	11	11	18	18

Note: These indoor coils are AHRI certified with various split system air conditioners and heat pumps (AHRI Standard 210/240). Refer to the Split System Outdoor product information site or www.ahrinet.org

Table 3. Product specifications - models 5AXAA001AS3HAA, 5AXAB006AS3HAA, 5AXAB007AS3HAA, 5AXAB008AS3HAA

Model	5AXAA005AS3HAA	5AXAB006AS3HAA	5AXAB007AS3HAA	5AXAB008AS3HAA
Rated Capacity Range (T)	2 to 3	3 to 4	3 to 4	3 to 5
Indoor Coil - Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows / F.P.I	3/14	3/14	3 / 14	3/ 14
Face Area (sq. ft.)	3.56	3.56	4.44	5.33
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigeration Control	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV
Drain Conn. Size (in.)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
Duct Connections	See Outline Drawing	See Outline Drawing	See Outline Drawing	See Outline Drawing
Refrigerant Connections	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED
Line Size - Gas (in.)	3/4	3/4	7/8	7/8
Line Size - Liquid (in.)	3/8	3/8	3/8	3/8
Dimensions (in.)	H x W x D			
Crated	17-1/4 x 13-1/2 x 23-3/4	17-1/4 x 16-1/2 x 23-3/4	23-1/4 x 17-1/4 x 23-3/4	27-1/4 x 20 x 23-3/4
Uncrated	17 x 13 x 19-1/4	17 x 16 x 19-1/4	21 x 16 x 19-1/4	25 x 16 x 19-1/4
Weight (lbs) Shipping / Net	22	22	27	32

Note: These indoor coils are AHRI certified with various split system air conditioners and heat pumps (AHRI Standard 210/240). Refer to the Split System Outdoor product information site or www.ahrinet.org



Product Specifications

Table 4. Product specifications - models 5AXAC009AS3HAA, 5AXAB010AS3HAA, 5AXAC011AS3HAA, 5AXAD012AS3HAA

Model	5AXAC009AS3HAA	5AXAB010AS3HAA	5AXAC011AS3HAA	5AXAD012AS3HAA
Rated Capacity Range (T)	3 to 4	3 to 5	3 to 5	3 to 5
Inddor Coil — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows / F.P.I	3/14	3/14	3 / 14	3/ 14
Face Area (sq. ft.)	5.33	5.78	5.78	5.78
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigeration Control	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV	Non-Bleed TXV
Drain Conn. Size (in.)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
Duct Connections	See Outline Drawing	See Outline Drawing	See Outline Drawing	See Outline Drawing
Refrigerant Connections	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED	R-454B BRAZED
Line Size - Gas (in.)	7/8	7/8	7/8	7/8
Line Size - Liquid (in.)	3/8	3/8	3/8	3/8
Dimensions (in.)	H x W x D			
Crated	27-1/4 x 20 x 23-3/4	27-1/4 x 20 x 23-3/4	27-1/4 x 20 x 23-3/4	27-1/4 x 23-3/4 x 24-1/2
Uncrated	25 x 19-1/2 x 19-1/4	27 x 16 x 19-1/4	27 x 19-1/2 x 19-1/4	27 x 23 x 19-1/4
Weight (lbs) Shipping / Net	32	35	35	35

Note: These indoor coils are AHRI certified with various split system air conditioners and heat pumps (AHRI Standard 210/240). Refer to the Split System Outdoor product information site or www.ahrinet.org



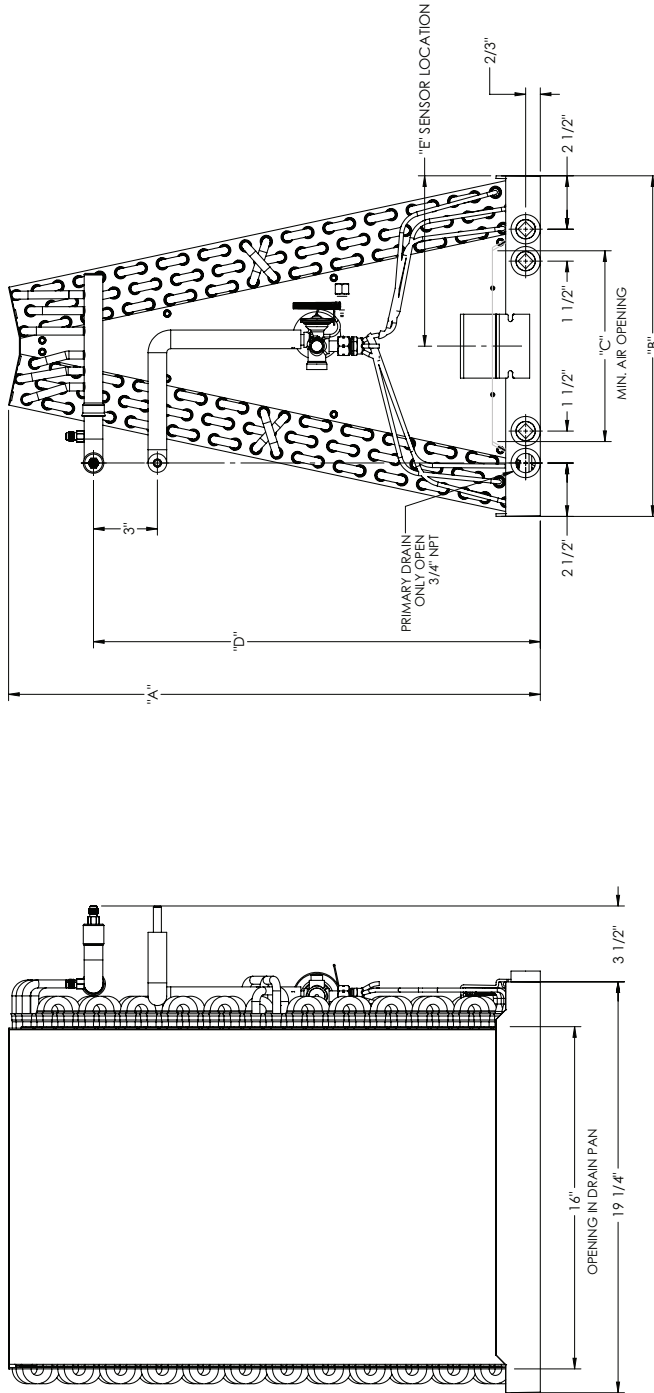
Performance Data

Table 5. Performance data

Pressure drop characteristics for 5AXA cooling and heat pump coils									
Wet coil static pressure drop (inches of water column) @ various cfm									
MODEL	600	800	1000	1200	1400	1600	1800	2000	2200
5AXAA001AS3HAA 5AXAB002AS3HAA	0.24	0.3	0.54	—	—	—	—	—	—
5AXAA003AS3HAA 5AXAB004AS3HAA	—	0.22	0.3	0.44	—	—	—	—	—
5AXAA005AS3HAA 5AXAB006AS3HAA	—	—	0.26	0.4	0.46	—	—	—	—
5AXAB007AS3HAA	—	—	0.23	0.29	0.4	—	—	—	—
5AXAB008AS3HAA 5AXAC009AS3HAA	—	—	—	—	0.3	0.35	0.45	—	—
5AXAB010AS3HAA 5AXAC011AS3HAA 5AXAD012AS3HAA	—	—	—	—	0.29	0.29	0.3	0.37	0.34

Dimensional Data

Figure 1. Outline drawing



All dimensions are in inches

TRANE MODEL (R454B)	COIL SIZE	SHIPPING WEIGHT (LBS)	REFRIGERANT CONTROL	COIL HEIGHT "A"	OVERALL WIDTH "B"	OPENING WIDTH "C"	GAS CONN. HEIGHT "D"	SENSOR LOCATION "E"	GAS CONNECTION	LIQUID CONNECTION	DRAIN PAN
5AXAA001AS3HAA	12X1 6X2R	11	TXV (NON BLEED)	13"	13"	5-3/4"	9"	6-1/2"	3/4"	3/8"	High Temp. Composite
5AXAB002AS3HAA	12X1 6X2R	11	TXV (NON BLEED)	13"	16"	8-3/4"	9"	8"	3/4"	3/8"	
5AXAA003AS3HAA	14X1 6X3R	18	TXV (NON BLEED)	15"	13"	5-3/4"	11"	6-1/2"	3/4"	3/8"	
5AXAB004AS3HAA	14X1 6X3R	18	TXV (NON BLEED)	15"	16"	8-3/4"	11"	8"	3/4"	3/8"	
5AXAA005AS3HAA	16X1 6X3R	22	TXV (NON BLEED)	17"	13"	5-3/4"	13"	6-1/2"	3/4"	3/8"	
5AXAB006AS3HAA	16X1 6X3R	22	TXV (NON BLEED)	17"	16"	8-3/4"	13"	8"	3/4"	3/8"	
5AXAB007AS3HAA	20X1 6X3R	27	TXV (NON BLEED)	21"	16"	8-3/4"	17"	8"	3/4"	3/8"	
5AXAB008AS3HAA	24X1 6X3R	32	TXV (NON BLEED)	25"	16"	8-3/4"	21"	8"	7/8"	3/8"	
5AXAB010AS3HAA	24X1 6X3R	32	TXV (NON BLEED)	25"	19-1/2"	10	21"	9-3/4"	7/8"	3/8"	
5AXAC009AS3HAA	26X1 6X3R	35	TXV (NON BLEED)	27"	16"	8-3/4"	23"	8"	7/8"	3/8"	
5AXAC011AS3HAA	26X1 6X3R	35	TXV (NON BLEED)	27"	19-1/2"	10	23"	9-3/4"	7/8"	3/8"	
5AXAD012AS3HAA	26X1 6X3R	35	TXV (NON BLEED)	27"	23"	13-1/2"	23"	11-1/2"	7/8"	3/8"	



Mechanical Specifications

General

Upflow and Downflow coils shall be designed for cooling and heat pump applications. The coil shall be 3/8-inch seamless aluminium tubing mechanically bonded to aluminum plate fin.

Refrigerant for the 5AXA coils shall be controlled with factory installed Non-Bleed TXV refrigerant control. Refrigerant connections are brazed fittings.

The coil includes a drain pan with drain connections for vertical operation.

These coils are AHRI certified with Trane and American Standard's matching condensing units.



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