



Hyperion™ Split Systems

**Split system Air Conditioning
50 Hz / R22**



SSA-PRC010-E4



Features and Benefits

Outdoor unit 2TTB

- **Climatuff**® compressor
- All aluminum **Spine Fin**™ coil
- **DuraTuff**™ base, fast complete drain, weather proof
- New cabinet with anthracite base and polystate gray cabinet
- **Quick-Sess**™ cabinet, service access and refrigerant connections with full coil protection
- Corrosion resistant finish and fasteners
- High/low pressure and temperature protection
- Liquid line filter-drier
- Easy single side service
- Multi-use liquid and suction line service valves
- Easy top and fan removal
- Full length control cover
- **Sure Fast**™ seams louver panel removal
- HCFC-22 refrigerant
- Extended warranties available
- S.E.E.T. design testing
- 100% line run test

Outdoor unit 2TTA

- **Climatuff**® compressor
- All aluminum **Spine Fin**™ coil
- **DuraTuff**™ base, fast complete drain, weather proof
- **WeatherGuard**™ fasteners
- **Quick-Sess**™ cabinet, service access and refrigerant connections with full coil protection
- Corrosion resistant finish and fasteners
- High/low pressure & temperature protection
- Liquid line filter-drier
- **Comfort "R"**™ mode approved
- Easy single side service
- Multi-use liquid and suction line service valves
- Compressor sump heat
- Easy top & fan removal
- HCFC-22 refrigerant
- S.E.E.T. design testing
- 100% line run test

Indoor convertible air handler GAF

- Unique Cabinet Design
 - Double Wall Foamed and Formed Cabinet System
 - Water Proof Cabinet Design
 - R-4.2 Insulating Value (Avg. Insulating Value R-8)
 - Composite Foamed Cabinet Doors
 - Sweat Eliminating Cabinet Design
 - Loose Fiber Eliminating Cabinet Design
 - Smooth Cleanable Cabinet Design
 - 2% or Less air leakage
 - Precision Applied Durable Door Seals
- Multi-Position Upflow/ Horizontal Left / Horizontal Right
- Front Return Option
- Braze in Refrigerant Connection
- Primary/Secondary Condensate Connections
- Vortica Blower with Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Blower
- Aluminum Coil with Integrated Slide Deck for Easy Removal
- Slide in Electric Heaters
- Polarized Plug connections for Electric Heater
- Labeled Panels and connections
- Guide for 1-1/4" to 1" And 3/4" to 1/2" Conduit connection on Top
- R-410A Thermal Expansion Valve (TXV)
- Convertible to R-22 using optional accessory TXV conversion kit
- Low Voltage Color Coded Wires
- Enhanced Coil Fin Patented
- Blow Through Design
- PSC 3 Speed Motor
- Maximum Width of 17.5"
- Compact 20.8" depth with doors removed
- Integrated Horizontal Drain pans
- Single Color
- Fused 24V Power

Indoor convertible air handler GAT/GAM

- Unique Cabinet Design
 - Double Wall Foamed and Formed Cabinet System
 - Water Proof Cabinet Design

- R-4.2 Insulating Value (Avg. Insulating Value R-8.2)
- Composite Foamed Cabinet Doors
- Sweat Eliminating Cabinet Design
- Loose Fiber Eliminating Cabinet Design
- Smooth Cleanable Cabinet Design
- 2% or Less air leakage
- Precision Applied Durable Door Seals
- Tool-free Fasteners on Blower/Filter Door
- Modular Cabinet
- Multi-Position Upflow/Horizontal Left / Horizontal Right
- Braze in Refrigerant Connection
- Primary/Secondary Condensate Connections
- Premarked Conduit Connection Locations
- Vortica Blower with Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Blower
- Control Protection Pocket
- Aluminum Coil with Integrated Slide Deck for Easy Removal
- Slide in Electric Heaters
- Polarized Plug connections for Electric Heater
- Labeled Panels and connections
- 1-1/4" to 1" and 3/4" to 1/2" Conduit connection on Left, Right and Top
- Molded in 1" Standard Filter rail
- R-410A Thermal Expansion Valve (TXV)
- Convertible to R-22 using optional accessory TXV conversion kit
- Low Voltage Terminal Connection Point
- Enhanced Coil Fin Patented
- Blow Through Design
- PSC 3 Speed Motor on 3.5 & 4 ton models
- Constant torque ECM Motor on 5 ton model
- Maximum Width of 23.5"
- Compact 20.8" depth with doors removed
- Integrated Horizontal Drain pans
- Single Color
- Fused 24V Power
- Safety Door Switch

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Nomenclature

Outdoor Units

4 T T B 3 0 3 6 A A 0 0 A A

Refrigerant Type

2 = R-22
4 = R-410A

TRANE

Product Type

W = Split Heat Pump
T = Split Cooling

Product Family

Z = Leadership – Two Stage
X = Leadership
R = Replacement/Retail
B = Basic
A = Light Commercial

Family SEER

0 = 10 3 = 13 6 = 16
1 = 11 4 = 14 8 = 18
2 = 12 5 = 15 9 = 19

Split System Connections 1-6 Tons

0 = Braze

Nominal Capacity in 000s of BTUs

Major Design Modifications

Power Supply

A = 220-240/1/50 H
D = 380-415/3/50

Secondary Function

Minor Design Modifications

Unit Parts Identifier

Outdoor Units

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Nominal Capacity in 000s of BTUs

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A = 220-240/1/50 H
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Secondary Function

Minor Design Modifications

Unit Parts Identifier

Air Handler

1 2 3 4 2 6 7 8 9 10 11 12 13 14 15
G A F 2 A 0 B 3 6 M 3 A S A A

Brand

T = Better
G = Good

Product Type

A = Air Handler

Convertability

M = Multi-poise 4-way
F = Uplow Front Return, 3-way
T = 3-way

Product Tier

2 = Good, Entry Level Feature Set
4 = Better, Retail Replacement Mid Effy.
5 = Better, Entry Level High Effy., Multi-Speed
7 = Best, Retail Replacement High Effy., Variable-Speed
8 = Best, Retail Ultimate High Effy., Variable-Speed

Major Design Change

No Descriptor

0 = Air Handler / Coil

Size (Footprint)

A = 17.5 x 21.5
B = 21.0 x 21.5
C = 23.5 x 21.5

Cooling Size: Air Handler or Coil

0-9 = AH Coil - 1000 BTU's (36, 48, 60)

Airflow Type & Capability

S = Low Effy PSC, 1-5 - nom. Tonnage (cfm/ton)
M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
H = High Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)

Power Supply

220 - 240/1/50

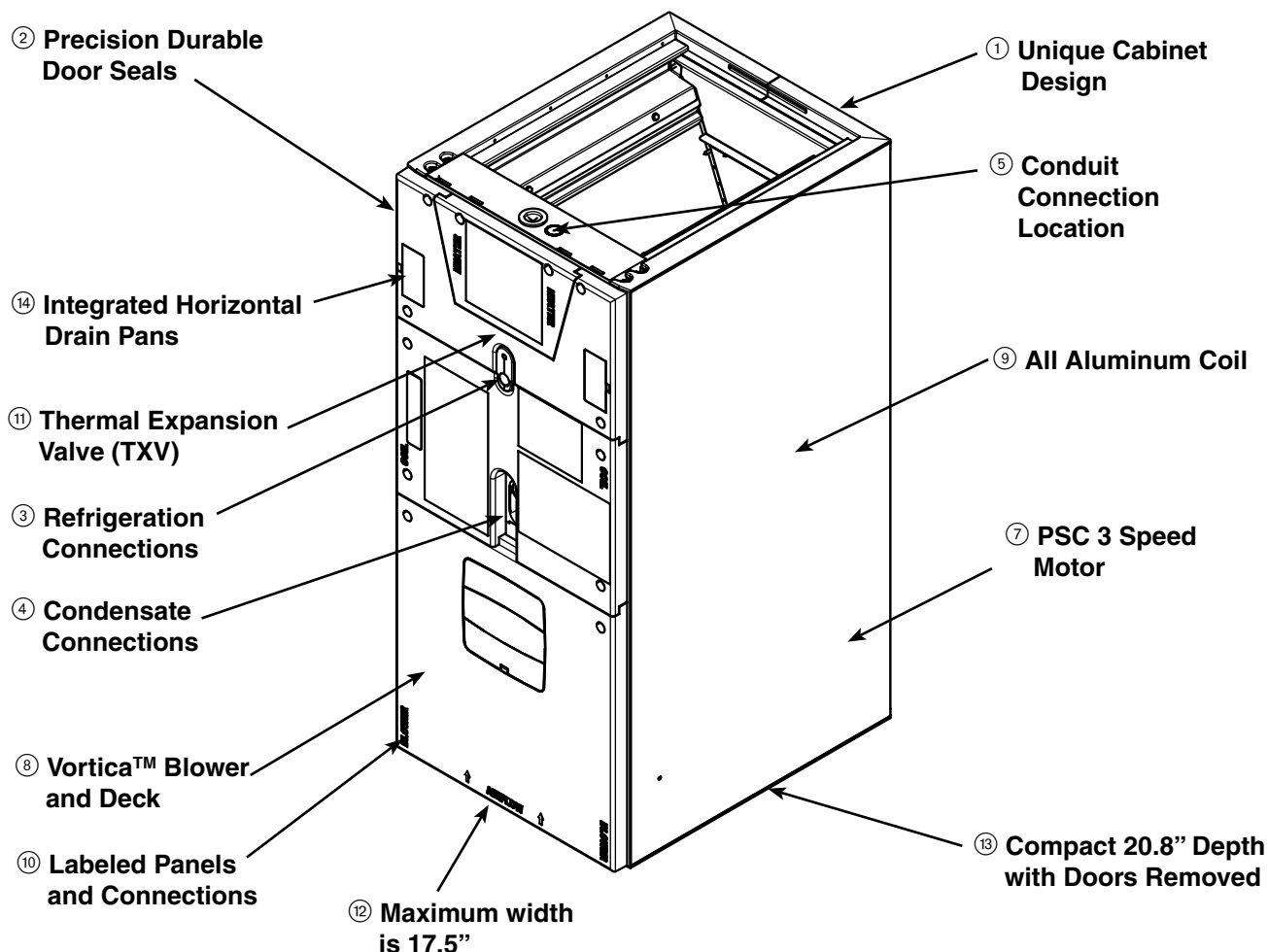
System Control Type

S = Standard - 24 VAC
C = CLII 13.8 VDC

Minor Design Change

Unit Parts Identifier

Unique Cabinet Design Features and Benefits GAF



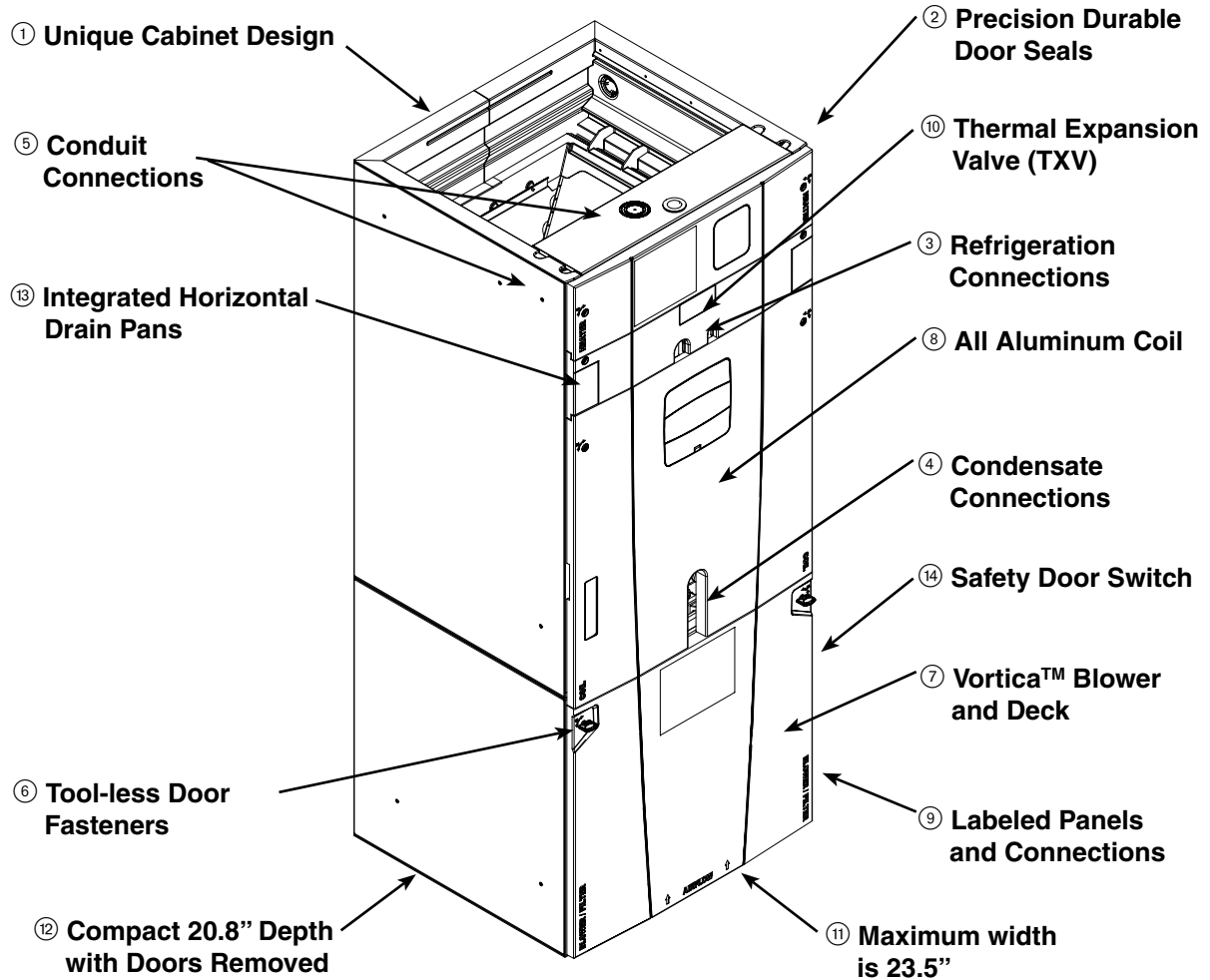
- ① **Unique Cabinet Design**
 - Double wall foamed cabinet system
 - Waterproof Cabinet Design
 - R-4.2 Insulating Value (Avg. Insulating Value R-8)
 - Composite Foamed Cabinet Doors
 - Sweat Eliminating Cabinet Design
 - Loose Fiber Eliminating Design
 - Smooth Cleanable Cabinet Design
 - 2% or Less air leakage

- ② Precision Durable Door Seals
- ③ Brazed Refrigeration Connections
- ④ Primary/Secondary Condensate Connections
- ⑤ Conduit Connection - Conduit Connection on Top
- ⑦ PSC 3 Speed Motor
- ⑧ Vortica™ Blower and Deck - Polarized Plug on Blower

- ⑨ All Aluminum Coil
 - Integrated Slide Deck for Easy Removal
 - Polarized Plug connections on Coil TXV
 - Patented Enhanced Coil Fin
- ⑩ Labeled Panels and Connections
- ⑪ R-410A Thermal Expansion Valve (TXV)
- ⑫ Maximum width is 17.5"
- ⑬ Compact 20.8" Depth with Doors Removed
- ⑭ Integrated Horizontal Drain Pans



Unique Cabinet Design Features & Benefits GAT/GAM



- ① **Unique Cabinet Design**
 - Double wall foamed cabinet system
 - Waterproof Cabinet Design
 - R-4.2 Insulating Value (Avg Insulating Value R-8.2)
 - Composite Foamed Cabinet Doors
 - Sweat Eliminating Cabinet Design
 - Loose Fiber Eliminating Design
 - Smooth Cleanable Cabinet Design

- ② Precision Durable Door Seals
- ③ Refrigeration Connections
- ④ Condensate Connections
- ⑤ Premarked Conduit Connection Locations
 - Conduit Connections on Left, Right, and Top
- ⑥ Tool-less Door Fasteners
- ⑦ Vortica™ Blower and Deck - Polarized Plug on Blower
- ⑧ All Aluminum Coil

- Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Coil EEV
- Patented Enhanced Coil Fin

- ⑨ Labeled Panels and Connections
- ⑩ R-410A Thermal Expansion Valve (TXV)
- ⑪ Maximum width is 23.5"
- ⑫ Compact 20.8" Depth with Doors Removed
- ⑬ Integrated Horizontal Drain Pans
- ⑭ Safety Door Switch - Fused 24V Power
- ⑮ Modular Cabinet



General Data 2TTA

Outdoor Units

Model		2TTB0512AA000D	2TTB0518AA000D	2TTB0524AA000C	2TTB0530AA000C
Power Supply	V/Ph/Hz	200 - 230/1/50	200 - 230/1/50	200 - 230/1/50	200 - 230/1/50
MCA	A	10.2	13	16	17
System Data					
Refrigerant Type		R22	R22	R22	R22
Refrigerant Charge	lbs.(kg)	3.125 (1.42)	3.875 (1.76)	4.00 (1.82)	4.75 (2.16)
Refrigerant Connection Type		Brazed	Brazed	Brazed	Brazed
Suction Line OD	in (mm)	5/8 (16)	3/4 (19)	3/4 (19)	3/4 (19)
Liquid Line OD	in (mm)	1/4 (6)	5/16 (7.94)	5/16 (7.94)	5/16 (7.94)
Compressor					
Type		Climatuff	Climatuff	Climatuff	Climatuff
No. Used		1	1	1	1
Outdoor Fan					
Type		Propeller	Propeller	Propeller	Propeller
No.Used	in (mm)	14 (356)	14 (356)	19 (483)	19 (483)
OD Fan Size	cfm	1200	1225	1825	1825
Airflow Volume	(m ³ /h)	(2423)	(2464)	(2506)	(3695)
Outdoor Coil					
Rows		1	1	1	1
Fin Type		Spine Fin	Spine Fin	Spine Fin	Spine Fin
Fins Per Inch		24	24	24	24
Face Area	sq.ft. (sq.m)	7.27 (0.675)	7.27 (0.675)	9.72 (0.903)	9.72 (0.903)
Tube Size OD	in (mm)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Dimensions (H x W x D)					
Crated (Shipping)	in (mm)	30.1 x 19.7 x 21.4 (765 x 500 x 544)	30.1 x 19.7 x 21.4 (765 x 500 x 544)	30.1 x 26.7 x 30.2 (765 x 678 x 767)	30.1 x 26.7 x 30.2 (765 x 678 x 767)
Uncrated (Net)	in (mm)	25.5 x 18.8 x 19.8 (648 x 476 x 502)	25.5 x 18.8 x 19.8 (648 x 476 x 502)	25.6 x 22.1 x 28.5 (561 x 651 x 724)	25.6 x 22.1 x 28.5 (561 x 651 x 724)
Weight					
Crated (Shipping)	lbs. (kg)	133 (60.5)	141 (64.0)	175 (79.5)	178 (80.9)
Uncrated (Net)	lbs. (kg)	120 (54.5)	128 (58.2)	156 (70.9)	159 (72.3)

MCA (Minimum Circuit Ampacity) = 125% of motor R.L. Amps plus heater R.L. Amps
 Note: Units shipped with dry nitrogen and charged in factory, refrigerant will be completely charged at the field



General Data 2TTB/2TTA

Outdoor Units

Model		2TTB0536AA000C	2TTA0030AD00B	2TTA0040AD000B	2TTA0050AD000B	2TTA0060AD000B
Power Supply	V/Ph/Hz	200 - 230/1/50	380 - 415/3/50	380 - 415/3/50	380 - 415/3/50	380 - 415/3/50
MCA	A	26	7	9	12	14
System Data						
Refrigerant Type		R22	R22	R22	R22	R22
Refrigerant Charge	lbs.(kg)	5.94 (2.70)	5 lbs 15 oz	6.81 (3.10)	7.44 (3.38)	10.00 (4.55)
Refrigerant Connection Type		Brazed	Brazed	Brazed	Brazed	Brazed
Suction Line OD	in (mm)	3/4 (19)	7/8	1-1/8 (28.54)	1-1/8 (28.54)	1-1/8 (28.54)
Liquid Line OD	in (mm)	5/16 (7.94)	3/8	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Compressor						
Type		Climatuff	Climatuff	Climatuff	Climatuff	Climatuff
No. Used		1	1-1	1	1	1
Outdoor Fan						
Type		Propeller	Propeller	Propeller	Propeller	Propeller
No.Used	in (mm)	1	1	1	1	1
OD Fan Size	cfm	19 (483)	19 (483)	19 (483)	23 (584)	27.6 (701)
Airflow Volume	(m ³ /h)	2075 (3695)	2075 (3695)	2075 (3695)	3075 (3695)	3525 (3695)
Outdoor Coil						
Rows		1	1	1	1	1
Fin Type		Spine Fin	Spine Fin	Spine Fin	Spine Fin	Spine Fin
Fins Per Inch		24	24	24	24	24
Face Area	sq.ft. (sq.m)	11.32 (1.05)	24 (0.945)	13.75 (1.28)	18.75 (1.74)	27.75
Tube Size OD	in (mm)	3/8 (9.53)	11.32 (9.53)	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)
Dimensions (H x W x D)						
Crated (Shipping)	in (mm)	33.2 x 26.7 x 30.2 (843 x 678 x 767)	33.2 X 26.7 X 30.2 843 x 678 x 767	33.2 x 26.7 x 30.2 (843 x 678 x 767)	38.0 x 30.1 x 33.8 (965 x 765 x 859)	46.4 x 35.1 x 38.7 (1179 x 892 x 983)
Uncrated (Net)	in (mm)	28.7 x 22.1 x 28.5 (730 x 651 x 724)	28.5 x 25.6 x 28.5 730 x 61 x 724	28.7 x 25.6 x 28.5 (730 x 651 x 724)	32.8 x 29.8 x 32.6 (832 x 756 x 829)	41.1 x 34.3 x 37.2 (1045 x 870 x 946)
Weight						
Crated (Shipping)	lbs. (kg)	215 (97.7)	207 (94.1)	216 (98.2)	254 (115.5)	298 (135.5)
Uncrated (Net)	lbs. (kg)	195 (88.6)	187 (85)	196 (89.1)	227 (103.2)	263 (119.5)

MCA (Minimum Circuit Ampacity) = 125% of motor R.L. Amps plus heater R.L. Amps
 Note: Units shipped with dry nitrogen and charged in factory, refrigerant will be completely charged at the field



General Data GAF/GAT/GAM

PRODUCT SPECIFICATIONS

MODEL	GAF2A0A36S3ASA	GAT2A0C48S4ASA	GAT2A0C60S5ASA
	-	GAM2A0C48S4ASB	GAM2A0C60S5ASB
RATED VOLTS/PH/HZ.	220-240/1/50	220-240/1/50	220-240/1/50
RATINGS	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR COIL — Type	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	3 - 14	3 - 14	4 - 14
Face Area (sq. ft.)	3.21	5.50	5.50
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	TXV	TXV	TXV
Drain Conn. Size (in.) ①	3/4 NPT	3/4 NPT	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing	See Outline Drawing	See Outline Drawing
INDOOR FAN — Type	Centrifugal	Centrifugal	Centrifugal
Diameter-Width (In.)	11 X 8	11 X 10	11 X 10
No. Used	1	1	1
Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 5 ②
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
No. Motors — H.P.	1 - 1/2	1 - 1/2	1 - 1
Motor Speed RPM	1075	1075	1050
Volts/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
F.L. Amps - L.R. Amps	2.4 - 3.8	3.1 - 5.5	7.6 - n/a
FILTER			
Filter Furnished?	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway
No.-Size-Thickness	1 - 16 X 20 - 1 in.	1 - 20 X 22 - 1 in.	1 - 20 X 22 - 1 in.
REFRIGERANT	R-410A ③	R-410A ④	R-410A ⑤
Ref. Line Connections	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	3/4	7/8	7/8
Coupling or Conn. Size — in. Liq.	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D
Crated (In.)	40.5 x 20 x 24.5	58 x 25.5 x 24.5	62.8 x 25.5 x 24.5
Uncrated	39.5 x 17.5 x 21.8	56.9 x 23.5 x 21.8	61.7 x 23.5 x 21.8
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	122/112	155/143	171/159

① 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

② Constant torque Motor

③ R-22 requires TXV change. Use R-22 TXV conversion kit BAYATXV1836A.

④ R-22 requires TXV change. Use R-22 TXV conversion kit BAYATXV4248A.

⑤ R-22 requires TXV change. Use R-22 TXV conversion kit BAYATXV6060A.



Airflow Data GAF

GAF2A0A36 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE			
GAF2A0A36S3ASA			
EXTERNAL STATIC (in w.g)	Speed Taps - 220 VOLTS (50Hz)		
	3	2 †	1
0	1040	1010	983
0.1	1024	998	975
0.2	978	955	927
0.3	925	900	880
0.4	869	845	819
0.5	808	780	757
0.6	734	715	692
0.7	651	625	593
0.8	545	520	498
0.9	439	415	395
1.0	247	241	224

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data
 3. † Factory Setting

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.



Airflow Data GAT/GAM

GAT2A0C48/ GAM2A0C48 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE			
GAT2A0C48S4ASA/GAM2A0C48S4ASA			
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)		
	Speed Taps - 220 VOLTS (50Hz)		
	3	2 †	1
0	1897	1815	1728
0.1	1827	1757	1676
0.2	1756	1687	1615
0.3	1682	1617	1552
0.4	1568	1532	1475
0.5	1476	1441	1390
0.6	1379	1340	1291
0.7	1258	1220	1150
0.8	1090	1050	984
0.9	915	891	783
1	682		

NOTES:
 1. Values are with wet coil and without filters.
 2. Contact your particular filter manufacturer for pressure drop data.
 3. † Factory Setting

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.



Airflow Data GAT/GAM

GAT2A0C60/ GAM2A0C60 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE					
GAT2A0C60S5ASA/ GAM2A0C60S5ASA					
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)				
	Speed Taps - 220 VOLTS (50Hz)				
	5	4 †	3	2	1
0	2161	1925	1885	1673	1624
0.1	2140	1903	1842	1635	1578
0.2	2110	1871	1807	1593	1540
0.3	2073	1833	1771	1552	1502
0.4	2023	1805	1728	1513	1457
0.5	1963	1766	1691	1468	1417
0.6	1900	1725	1650	1433	1373
0.7	1829	1688	1612	1397	1332
0.8	1742	1633	1572	1354	1290
0.9	1648	1579	1530	1314	1245
1.0	1547	1528	1493	1274	1206

NOTES:

1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. † Factory Setting

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4 for the CTM motor.



Performance data

Outdoor model

2TTB0530AA000CA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1000

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	26.8	22.2	24.1	26.0	26.8	26.8	2.9
85	63	28.1	18.0	19.9	21.8	23.7	25.6	2.9
85	67	30.0	14.0	15.9	17.8	19.6	21.5	3.0
85	71	32.6	10.1	12.0	13.9	15.8	17.7	3.0
95	59	25.4	21.6	23.5	25.4	25.4	25.4	3.1
95	63	26.7	17.5	19.3	21.2	23.1	25.0	3.1
95	67	28.5	13.4	15.3	17.2	19.1	21.0	3.2
95	71	30.9	9.6	11.4	13.3	15.2	17.1	3.2
105	59	24.1	21.0	22.9	24.1	24.1	24.1	3.3
105	63	25.2	16.9	18.7	20.6	22.5	24.4	3.3
105	67	27.0	12.9	14.8	16.7	18.5	20.4	3.4
105	71	29.2	9.0	10.9	12.7	14.6	16.5	3.4
115	59	22.7	20.4	22.3	22.7	22.7	22.7	3.5
115	63	23.8	16.3	18.2	20.1	21.9	23.8	3.5
115	67	25.4	12.3	14.2	16.1	17.9	19.8	3.6
115	71	27.6	8.4	10.3	12.2	14.1	16.0	3.6

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.970	0.980
1125	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1025	28618	9.96	9.09

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TTB0536AA000CA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1200

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	36.1	25.9	28.1	30.2	31.6	31.6	3.3
85	63	33.2	21.1	23.2	25.4	27.6	29.7	3.3
85	67	35.4	16.4	18.6	20.7	22.9	25.1	3.4
85	71	38.5	12.0	14.1	16.3	18.5	20.6	3.4
95	59	30.0	25.2	27.4	29.5	30.0	30.0	3.5
95	63	31.4	20.3	22.5	24.7	26.8	29.0	3.5
95	67	33.6	15.7	17.9	20.1	22.2	24.4	3.6
95	71	36.4	11.3	13.4	15.6	17.8	19.9	3.6
105	59	28.3	24.4	26.6	28.3	28.3	28.3	3.7
105	63	29.7	19.7	21.8	24.0	26.2	28.3	3.8
105	67	31.7	15.0	17.2	19.4	21.5	23.7	3.8
105	71	34.4	10.6	12.7	14.9	17.1	19.2	3.8
115	59	26.7	23.7	25.9	26.7	26.7	26.7	4.0
115	63	27.9	18.9	21.1	23.3	25.4	27.6	4.0
115	67	29.9	14.4	16.5	18.7	20.9	23.0	4.0
115	71	32.4	9.9	12.1	14.2	16.4	18.6	4.1

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1050	0.970	0.980
1350	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1150	33324	10.16	9.27

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TTA0030AD000BA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1000

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	29.4	23.3	25.2	27.1	28.9	28.9	3.0
85	63	30.9	19.1	21.0	22.9	24.7	26.6	3.0
85	67	33.0	15.1	17.0	18.8	20.7	22.6	3.1
85	71	35.8	11.2	13.1	15.0	16.9	18.7	3.1
95	59	27.9	22.7	24.5	26.4	27.9	27.9	3.2
95	63	29.2	18.4	20.3	22.2	24.0	25.9	3.3
95	67	31.2	14.4	16.3	18.2	20.0	21.9	3.3
95	71	33.9	10.6	12.4	14.3	16.2	18.1	3.3
105	59	26.3	21.9	23.8	25.7	26.3	26.3	3.5
105	63	27.6	17.8	19.6	21.5	23.4	25.2	3.5
105	67	29.5	13.8	15.6	17.5	19.4	21.3	3.5
105	71	32.0	9.9	11.8	13.7	15.5	17.4	3.5
115	59	24.7	21.2	23.1	24.7	24.7	24.7	3.7
115	63	25.9	17.1	18.9	20.8	22.7	24.6	3.7
115	67	27.7	13.1	15.0	16.8	18.7	20.6	3.7
115	71	30.0	9.2	11.1	13.0	14.9	16.7	3.8

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.970	0.980
1125	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1025	31356	10.56	9.55

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TTA0040AD000BA

Indoor model

GAF2A00A36S3ASA

Nominal airflow (CFM)

1600

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	33.7	31.3	32.2	32.6	33.9	34.8	4.2
85	63	34.1	33.0	33.3	33.6	33.9	34.3	3.8
85	67	36.7	35.2	35.3	35.4	35.5	35.6	3.9
85	71	39.0	38.0	38.0	37.9	37.9	37.8	4.0
95	59	33.8	32.7	32.8	33.0	33.1	33.3	4.1
95	63	33.9	31.4	31.7	32.1	32.4	32.8	4.1
95	67	35.1	33.3	33.5	33.7	33.8	34.0	4.2
95	71	36.7	35.6	35.6	35.6	35.6	35.7	4.3
105	59	32.2	28.3	29.0	29.7	30.5	31.2	4.4
105	63	32.3	29.6	30.0	30.4	30.8	31.2	4.4
105	67	33.3	31.4	31.6	31.8	32.0	32.3	4.5
105	71	34.9	33.4	33.5	33.6	33.7	33.8	4.6
115	59	30.6	26.8	27.5	28.2	28.9	29.6	4.7
115	63	30.7	27.9	28.3	28.8	29.2	29.6	4.7
115	67	31.2	29.6	29.8	29.9	30.1	30.2	4.7
115	71	32.9	31.4	31.5	31.6	31.7	31.8	4.9

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.970	0.980
1125	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1662	34023	10.75	9.77

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TTA0040AD000BA

Indoor model

GAT2A0B48S4ASA/ GAM2A0B48S4ASA

Nominal airflow (CFM)

1400

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	37.4	31.8	34.6	37.3	37.4	37.4	3.9
85	63	39.2	25.7	28.4	31.2	33.9	36.7	4.0
85	67	41.9	19.8	22.5	25.3	28.1	30.8	4.0
85	71	45.4	14.1	16.9	19.6	22.4	25.1	4.0
95	59	35.4	30.9	33.7	35.4	35.4	35.4	4.2
95	63	37.1	24.8	27.6	30.3	33.1	35.8	4.2
95	67	39.7	19.0	21.7	24.5	27.2	30.0	4.3
95	71	43.0	13.3	16.0	18.8	21.5	24.3	4.3
105	59	33.4	30.0	32.8	33.4	33.4	33.4	4.5
105	63	35.1	24.0	26.8	29.5	32.3	35.0	4.5
105	67	37.5	18.2	20.9	23.7	26.4	29.2	4.5
105	71	40.6	12.5	15.2	18.0	20.7	23.5	4.6
115	59	31.5	29.2	31.5	31.5	31.5	31.5	4.7
115	63	33.0	23.2	25.9	28.7	31.4	33.0	4.8
115	67	35.3	17.4	20.1	22.9	25.6	28.4	4.8
115	71	38.2	11.7	14.4	17.2	19.9	22.7	4.9

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1225	0.970	0.980
1575	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1375	39529	10.16	9.25

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TTA0050AD000BA

Indoor model

GAT2A0B48S4ASA/ GAM2A0B48S4ASA

Nominal airflow (CFM)

1800

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	47.4	43.2	43.6	44.0	44.5	44.9	5.7
85	63	49.2	63.0	58.9	54.8	50.7	46.6	5.8
85	67	51.7	48.3	48.5	48.7	48.9	49.1	5.9
85	71	54.5	51.1	51.3	51.5	51.7	51.8	6.1
95	59	45.4	40.9	41.4	41.9	42.4	42.9	6.1
95	63	46.7	43.2	43.5	43.7	44.0	44.2	6.2
95	67	49.1	45.8	45.9	46.1	46.3	46.5	6.3
95	71	51.7	48.4	48.6	48.7	48.9	49.1	6.5
105	59	43.2	38.5	39.0	39.6	40.1	40.7	6.5
105	63	44.3	40.6	40.9	41.2	41.5	41.8	6.6
105	67	46.3	43.0	43.2	43.4	43.6	43.8	6.7
105	71	48.7	45.5	45.7	45.8	46.0	46.2	6.9
115	59	40.9	35.9	36.5	37.2	37.8	38.4	6.9
115	63	41.6	39.8	39.6	39.5	39.3	39.1	6.9
115	67	43.5	40.2	40.5	40.7	41.0	41.3	7.1
115	71	45.7	42.5	42.7	42.8	43.0	43.2	7.3

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.970	0.980
1125	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1972	46816	9.80	8.84

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TTA0050AD000BA

Indoor model

GAT2A0C60S5ASA/ GAM2A0C60S5ASA

Nominal airflow (CFM)

1600

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	45.3	38.1	41.3	44.5	45.3	45.3	5.1
85	63	47.5	30.9	34.1	37.3	40.6	43.8	5.1
85	67	50.8	24.0	27.2	30.4	33.7	36.9	5.1
85	71	55.1	17.3	20.5	23.8	27.0	30.2	5.2
95	59	42.9	37.0	40.2	42.9	42.9	42.9	5.4
95	63	45.0	29.8	33.1	36.3	39.5	42.8	5.4
95	67	48.1	22.9	26.2	29.4	32.7	35.9	5.5
95	71	52.2	16.3	19.5	22.8	26.0	29.2	5.5
105	59	40.6	36.0	39.2	40.6	40.6	40.6	5.7
105	63	42.5	28.8	32.0	35.3	38.5	41.7	5.8
105	67	45.4	21.9	25.2	28.4	31.6	34.9	5.8
105	71	49.3	15.3	18.5	21.8	25.0	28.2	5.9
115	59	38.2	34.9	38.2	38.2	38.2	38.2	6.1
115	63	40.0	27.8	31.0	34.3	37.5	40.0	6.1
115	67	42.8	21.0	24.2	27.4	30.7	33.9	6.2
115	71	46.4	14.3	17.6	20.8	24.0	27.3	6.2

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1400	0.970	0.980
1800	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1650	48364	9.70	8.85

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TTA0060AD000BA

Indoor model

GAT2A0C60S5ASA/ GAM2A0C60S5ASA

Nominal airflow (CFM)

2000

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	53.8	45.7	49.6	53.6	53.8	53.8	5.6
85	63	56.4	37.0	40.9	44.8	48.8	52.7	5.7
85	67	60.2	28.6	32.6	36.5	40.4	44.3	5.7
85	71	65.3	20.6	24.5	28.4	32.3	36.2	5.8
95	59	51.5	44.7	48.6	51.5	51.5	51.5	6.2
95	63	54.0	36.0	39.9	43.9	47.8	51.7	6.3
95	67	57.7	27.7	31.6	35.5	39.5	43.4	6.3
95	71	62.6	19.6	23.6	27.5	31.4	35.3	6.4
105	59	49.3	43.7	47.6	49.3	49.3	49.3	6.8
105	63	51.7	35.1	39.0	42.9	46.8	50.8	6.9
105	67	55.2	26.8	30.7	34.6	38.5	42.4	7.0
105	71	59.9	18.7	22.7	26.6	30.5	34.4	7.0
115	59	47.1	42.8	46.7	47.1	47.1	47.1	7.4
115	63	49.4	34.2	38.1	42.0	45.9	49.4	7.5
115	67	52.8	25.9	29.8	33.7	37.6	41.6	7.6
115	71	57.2	17.8	21.7	25.7	29.6	33.5	7.7

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1750	0.970	0.980
2250	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1800	56596	10.02	8.82

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TWB0030AA000BA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1000

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	26.4	22.1	24.0	25.9	26.4	26.4	2.9
85	63	27.7	17.9	19.8	21.7	23.5	25.4	2.9
85	67	29.6	13.9	15.7	17.6	19.5	21.4	2.9
85	71	32.1	10.0	11.9	13.7	15.6	17.5	3.0
95	59	25.0	21.5	23.4	25.0	25.0	25.0	3.1
95	63	26.3	17.3	19.2	21.1	23.0	24.9	3.1
95	67	28.0	13.3	15.2	17.0	18.9	20.8	3.2
95	71	30.4	9.4	11.3	13.2	15.1	16.9	3.2
105	59	23.7	20.9	22.8	23.7	23.7	23.7	3.3
105	63	24.8	16.7	18.6	20.5	22.4	24.3	3.3
105	67	26.5	12.7	14.6	16.5	18.4	20.3	3.4
105	71	28.8	8.8	10.7	12.6	14.5	16.4	3.4
115	59	22.3	20.3	22.2	22.3	22.3	22.3	3.5
115	63	23.4	16.2	18.0	19.9	21.8	23.4	3.5
115	67	25.0	12.2	14.1	15.9	17.8	19.7	3.6
115	71	27.1	8.3	10.2	12.1	13.9	15.8	3.6

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.970	0.980
1125	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1025	28172	9.88	8.98

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TWB0036AA000BA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1200

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	32.6	26.3	28.4	30.6	32.6	32.6	3.4
85	63	34.2	21.4	23.6	25.7	27.9	30.0	3.4
85	67	36.5	16.8	18.9	21.1	23.2	25.4	3.4
85	71	39.6	12.3	14.5	16.6	18.8	21.0	3.5
95	59	31.0	25.5	27.7	29.8	31.0	31.0	3.6
95	63	32.5	20.7	22.9	25.0	27.2	29.3	3.7
95	67	34.8	16.1	18.3	20.5	22.6	24.8	3.7
95	71	37.7	11.7	13.8	16.0	18.1	20.3	3.7
105	59	29.5	24.9	27.0	29.2	29.5	29.5	3.9
105	63	30.9	20.1	22.2	24.4	26.5	28.7	3.9
105	67	33.0	15.5	17.6	19.8	21.9	24.1	3.9
105	71	35.8	11.0	13.2	15.3	17.5	19.7	4.0
115	59	27.9	24.2	26.3	27.9	27.9	27.9	4.1
115	63	29.2	19.4	21.5	23.7	25.8	28.0	4.1
115	67	31.2	14.8	17.0	19.1	21.3	23.4	4.2
115	71	33.9	10.4	12.6	14.7	16.9	19.0	4.2

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1050	0.970	0.980
1350	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1150	34491	10.22	9.32

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TWA0040AD000BA

Indoor model

GAF2A00A36S3ASA

Nominal airflow (CFM)

1600

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	35.9	31.9	32.6	33.4	34.1	34.8	3.9
85	63	36.0	33.7	34.0	34.3	34.6	34.9	3.9
85	67	37.5	35.8	35.9	36.1	36.2	36.4	4.0
85	71	39.6	38.0	38.1	38.2	38.3	38.4	4.1
95	59	34.4	30.4	31.1	31.9	32.6	33.4	4.2
95	63	34.5	32.0	32.4	32.7	33.1	33.4	4.2
95	67	35.7	34.0	34.2	34.3	34.5	34.6	4.3
95	71	37.7	36.1	36.2	36.3	36.4	36.5	4.4
105	59	32.8	28.9	29.6	30.3	31.1	31.8	4.5
105	63	32.9	30.3	30.7	31.1	31.5	31.9	4.5
105	67	33.8	32.2	32.3	32.5	32.6	32.8	4.6
105	71	35.6	34.1	34.2	34.3	34.4	34.5	4.7
115	59	31.2	27.2	28.0	28.7	29.4	30.2	4.8
115	63	31.2	28.5	28.9	29.3	29.8	30.2	4.8
115	67	31.9	30.2	30.4	30.5	30.7	30.9	4.9
115	71	33.6	32.1	32.2	32.3	32.4	32.5	5.0

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1662	34781	10.21	9.68

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TWA0050AD000BA

Indoor model

GAT2A0B48S4ASA/ GAM2A0B48S4ASA

Nominal airflow (CFM)

1800

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	48.0	43.5	44.0	44.5	45.0	45.4	5.3
85	63	49.8	46.1	46.4	46.6	46.9	47.2	5.4
85	67	52.4	48.8	49.0	49.3	49.5	49.8	5.5
85	71	55.3	51.7	51.9	52.2	52.4	52.6	5.6
95	59	45.9	41.4	41.9	42.4	42.9	43.4	5.7
95	63	47.5	43.8	44.1	44.4	44.6	44.9	5.8
95	67	49.9	46.4	46.6	46.9	47.1	47.3	5.9
95	71	52.7	49.1	49.4	49.6	49.8	50.1	6.0
105	59	43.9	39.1	39.7	40.3	40.8	41.4	6.1
105	63	45.1	41.3	41.6	42.0	42.3	42.6	6.1
105	67	47.3	35.5	37.8	40.1	42.4	44.8	6.2
105	71	49.9	46.4	46.6	46.8	47.1	47.3	6.4
115	59	41.6	36.7	37.3	37.9	38.5	39.2	6.4
115	63	42.5	38.7	39.0	39.4	39.7	40.1	6.5
115	67	44.5	41.0	41.3	41.5	41.7	42.0	6.6
115	71	46.9	43.4	43.6	43.9	44.1	44.3	6.8

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1792	47449	10.16	9.66

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TWA0040AD000BA

Indoor model

GAT2A0B48S4ASA/ GAM2A0B48S4ASA

Nominal airflow (CFM)

1400

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	37.1	31.7	34.4	37.1	37.1	37.1	3.8
85	63	38.9	25.6	28.3	31.1	33.8	36.6	3.9
85	67	41.5	19.7	22.4	25.2	27.9	30.7	3.9
85	71	45.1	14.0	16.8	19.5	22.3	25.0	3.9
95	59	35.2	30.8	33.6	35.2	35.2	35.2	4.1
95	63	36.9	24.7	27.5	30.3	33.0	35.8	4.1
95	67	39.4	18.9	21.6	24.4	27.1	29.9	4.2
95	71	42.8	13.2	16.0	18.7	21.5	24.2	4.2
105	59	33.3	30.0	32.8	33.3	33.3	33.3	4.4
105	63	34.9	23.9	26.7	29.4	32.2	34.9	4.4
105	67	37.3	18.1	20.9	23.6	26.4	29.1	4.4
105	71	40.4	12.4	15.2	17.9	20.7	23.4	4.5
115	59	31.4	29.2	31.4	31.4	31.4	31.4	4.6
115	63	32.9	23.1	25.9	28.7	31.4	32.9	4.7
115	67	35.2	17.3	20.1	22.8	25.6	28.4	4.7
115	71	38.1	11.6	14.4	17.2	19.9	22.7	4.8

Correction factors - other airflows

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1225	0.970	0.980
1575	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1375	39277	10.37	9.41

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil.



Performance data

Outdoor model

2TWA0050AD000BA

Indoor model

GAT2A0C60S5ASA/ GAM2A0C60S5ASA

Nominal airflow (CFM)

1600

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	45.5	38.2	41.4	44.6	45.5	45.5	4.6
85	63	47.7	30.9	34.2	37.4	40.6	43.9	4.7
85	67	51.0	24.0	27.3	30.5	33.7	37.0	4.7
85	71	55.3	17.4	20.6	23.8	27.1	30.3	4.8
95	59	43.2	37.1	40.4	43.2	43.2	43.2	5.0
95	63	45.3	29.9	33.2	36.4	39.6	42.9	5.0
95	67	48.4	23.1	26.3	29.5	32.8	36.0	5.1
95	71	52.6	16.4	19.7	22.9	26.1	29.4	5.1
105	59	41.0	36.1	39.4	41.0	41.0	41.0	5.3
105	63	43.0	29.0	32.2	35.5	38.7	41.9	5.3
105	67	45.9	22.1	25.4	28.6	31.8	35.0	5.4
105	71	49.8	15.5	18.7	21.9	25.2	28.4	5.4
115	59	38.8	35.2	38.4	38.8	38.8	38.8	5.6
115	63	40.6	28.0	31.3	34.5	37.7	40.6	5.7
115	67	43.4	21.2	24.4	27.7	30.9	34.1	5.7
115	71	47.1	14.6	17.8	21.0	24.3	27.5	5.8

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1400	0.970	0.980
1800	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1650	48711	10.62	9.67

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TWA0060AD000BA

Indoor model

GAT2A0C60S5ASA/ GAM2A0C60S5ASA

Nominal airflow (CFM)

2000

COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

O.D.D.B.	I.D.W.B.	Total capacity	72	74	76	78	80	SYSTEM kW
85	59	52.5	45.2	49.1	52.5	52.5	52.5	5.1
85	63	55.0	36.4	40.4	44.3	48.2	52.1	5.2
85	67	58.8	28.1	32.0	36.0	39.9	43.8	5.2
85	71	63.8	20.1	24.0	27.9	31.8	35.7	5.3
95	59	50.3	44.2	48.1	50.3	50.3	50.3	5.6
95	63	52.7	35.5	39.4	43.3	47.3	51.2	5.7
95	67	56.3	27.2	31.1	35.0	39.0	42.9	5.7
95	71	61.1	19.1	23.1	27.0	30.9	34.8	5.8
105	59	48.0	43.2	47.1	48.0	48.0	48.0	6.1
105	63	50.4	34.6	38.5	42.4	46.3	50.3	6.2
105	67	53.8	26.3	30.2	34.1	38.0	41.9	6.2
105	71	58.4	18.2	22.2	26.1	30.0	33.9	6.3
115	59	45.8	42.2	45.8	45.8	45.8	45.8	6.6
115	63	48.0	33.6	37.5	41.5	45.4	48.0	6.6
115	67	51.3	25.4	29.3	33.2	37.1	41.0	6.7
115	71	55.7	17.3	21.2	25.2	29.1	33.0	6.8

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1750	0.970	0.980
2250	1.030	1.020

AHRI RATING FOR COOLING

CFM	CAPACITY (A) TEST	SEER	EER
1800	55196	10.64	9.51

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — (A) Cooling 80°F. D.B., 67°F. W.B. air entering indoor coil, 95°F. D.B. air entering outdoor coil. (B) High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (C) Low Temperature Heating 17°F. D.B., 15°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.



Performance data

Outdoor model

2TWB0030AA000BA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1000

HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	TOTAL CAPACITY MBH.				TOTAL POWER IN KILOWATTS			
	60	70	75	80	60	70	75	80
2	10.7	10.5	10.4	10.3	1.9	2.0	2.0	2.0
7	12.7	12.5	12.4	12.3	1.9	2.0	2.1	2.1
12	14.8	14.5	14.4	14.2	2.0	2.1	2.2	2.2
17	16.8	16.5	16.3	16.2	2.1	2.2	2.2	2.3
22	18.1	17.8	17.6	17.4	2.1	2.2	2.3	2.3
27	19.4	19.1	18.9	18.7	2.2	2.3	2.4	2.4
32	20.7	20.4	20.2	20.0	2.3	2.4	2.4	2.5
37	22.8	22.4	22.1	21.9	2.3	2.4	2.5	2.6
42	25.9	25.5	25.2	25.0	2.4	2.5	2.6	2.7
47	29.1	28.5	28.3	28.0	2.5	2.6	2.7	2.8
52	31.1	30.6	30.3	30.0	2.6	2.7	2.8	2.8
57	33.2	32.6	32.3	31.9	2.7	2.8	2.9	2.9
62	35.2	34.6	34.2	33.9	2.7	2.9	2.9	3.0
67	37.3	36.6	36.2	35.9	2.8	2.9	3.0	3.1
72	39.3	38.6	38.2	37.8	2.9	3.0	3.1	3.2

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
875	0.987	0.975
1125	1.011	1.025

AHRI RATING FOR HEATING

CFM	CAPACITY 47	COP 47	CAPACITY 17	COP 17	HSPF
1025	28637	3.18	16557	2.22	7.91

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil.



Performance data

Outdoor model

2TWB0036AA000BA

Indoor model

GAF2A0A36S3ASA

Nominal airflow (CFM)

1200

HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	TOTAL CAPACITY MBH.				TOTAL POWER IN KILOWATTS			
	60	70	75	80	60	70	75	80
2	11.7	11.5	11.4	11.3	2.1	2.2	2.3	2.3
7	14.5	14.2	14.1	13.9	2.2	2.3	2.4	2.4
12	17.3	17.0	16.8	16.6	2.4	2.5	2.5	2.6
17	20.1	19.7	19.5	19.3	2.5	2.6	2.6	2.7
22	21.9	21.5	21.3	21.1	2.6	2.7	2.8	2.8
27	23.8	23.4	23.1	22.9	2.7	2.8	2.9	2.9
32	25.7	25.2	25.0	24.7	2.8	2.9	3.0	3.0
37	28.5	27.9	27.7	27.4	2.9	3.0	3.1	3.2
42	32.6	32.0	31.7	31.4	3.0	3.2	3.3	3.3
47	36.8	36.1	35.8	35.4	3.2	3.3	3.4	3.5
52	39.6	38.9	38.5	38.1	3.3	3.5	3.5	3.6
57	42.4	41.6	41.2	40.8	3.4	3.6	3.7	3.8
62	45.2	44.3	43.9	43.5	3.5	3.7	3.8	3.9
67	48.0	47.1	46.6	46.2	3.6	3.8	3.9	4.0
72	50.8	49.8	49.3	48.9	3.7	3.9	4.0	4.1

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1050	0.987	0.975
1350	1.011	1.025

AHRI RATING FOR HEATING

CFM	CAPACITY 47	COP 47	CAPACITY 17	COP 17	HSPF
1150	36002	3.20	19625	2.24	7.94

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil.



Performance data

Outdoor model

2TWA0040AD000BA

Indoor model

GAT2A0B48S4ASA/ GAM2A0B48S4ASA

Nominal airflow (CFM)

1400

HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	TOTAL CAPACITY MBH.				TOTAL POWER IN KILOWATTS			
	60	70	75	80	60	70	75	80
2	14.2	13.9	13.8	13.7	2.4	2.5	2.5	2.5
7	16.9	16.6	16.4	16.3	2.5	2.6	2.6	2.7
12	19.6	19.3	19.1	18.9	2.6	2.7	2.7	2.8
17	22.4	21.9	21.7	21.5	2.7	2.8	2.8	2.9
22	24.1	23.6	23.4	23.2	2.7	2.9	2.9	3.0
27	25.8	25.4	25.1	24.9	2.8	2.9	3.0	3.1
32	27.6	27.1	26.8	26.5	2.9	3.0	3.1	3.2
37	30.3	29.7	29.5	29.2	3.0	3.1	3.2	3.3
42	34.5	33.9	33.5	33.2	3.1	3.3	3.3	3.4
47	38.7	38.0	37.6	37.2	3.2	3.4	3.5	3.6
52	41.4	40.6	40.3	39.9	3.3	3.5	3.6	3.7
57	44.1	43.3	42.9	42.5	3.4	3.6	3.7	3.8
62	46.9	46.0	45.5	45.1	3.5	3.7	3.8	3.9
67	49.6	48.7	48.2	47.7	3.6	3.8	3.9	4.0
72	52.3	51.3	50.8	50.3	3.7	3.9	4.0	4.1

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1225	0.987	0.975
1575	1.011	1.025

AHRI RATING FOR HEATING

CFM	CAPACITY 47	COP 47	CAPACITY 17	COP 17	HSPF
1375	37933	3.28	21922	2.33	8.18

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil.



Performance data

Outdoor model

2TWA0050AD000BA

Indoor model

GAT2A0C60S5ASA/GAM2A0C60S5ASA

Nominal airflow (CFM)

1600

HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	TOTAL CAPACITY MBH.				TOTAL POWER IN KILOWATTS			
	60	70	75	80	60	70	75	80
2	19.4	19.0	18.8	18.7	2.7	2.8	2.9	2.9
7	22.7	22.3	22.1	21.9	2.8	3.0	3.0	3.1
12	26.0	25.5	25.3	25.1	3.0	3.1	3.2	3.2
17	29.4	28.8	28.5	28.3	3.1	3.3	3.3	3.4
22	31.4	30.8	30.5	30.2	3.2	3.4	3.4	3.5
27	33.5	32.8	32.5	32.2	3.3	3.5	3.6	3.7
32	35.5	34.9	34.5	34.2	3.4	3.6	3.7	3.8
37	38.9	38.1	37.8	37.4	3.6	3.8	3.8	3.9
42	44.1	43.3	42.8	42.4	3.7	3.9	4.0	4.1
47	49.3	48.4	47.9	47.4	3.9	4.1	4.2	4.3
52	52.6	51.6	51.1	50.6	4.0	4.2	4.3	4.4
57	55.9	54.9	54.4	53.8	4.2	4.4	4.5	4.6
62	59.3	58.2	57.6	57.0	4.3	4.5	4.6	4.7
67	62.6	61.4	60.8	60.2	4.4	4.7	4.8	4.9
72	65.9	64.7	64.1	63.4	4.6	4.8	4.9	5.0

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1400	0.987	0.975
1800	1.011	1.025

AHRI RATING FOR HEATING

CFM	CAPACITY 47	COP 47	CAPACITY 17	COP 17	HSPF
1650	48550	3.46	28909	2.60	8.86

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil.



Performance data

Outdoor model
2TWA0060AD000BA

Indoor model
GAT2A0C60S5ASA/GAM2A0C60S5ASA

Nominal airflow (CFM)
2000

HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURES

OD AMB	TOTAL CAPACITY MBH.				TOTAL POWER IN KILOWATTS			
	60	70	75	80	60	70	75	80
2	27.0	26.5	26.2	26.0	4.3	4.6	4.7	4.8
7	30.7	30.2	29.9	29.6	4.4	4.7	4.8	4.9
12	34.5	33.9	33.5	33.2	4.5	4.8	4.9	5.0
17	38.3	37.6	37.2	36.9	4.6	4.8	5.0	5.1
22	40.5	39.7	39.3	39.0	4.7	4.9	5.0	5.2
27	42.7	41.9	41.5	41.1	4.7	5.0	5.1	5.2
32	44.9	44.0	43.6	43.2	4.8	5.0	5.2	5.3
37	48.6	47.7	47.3	46.8	4.9	5.1	5.3	5.4
42	54.8	53.7	53.2	52.7	5.0	5.3	5.4	5.5
47	60.9	59.8	59.2	58.6	5.1	5.4	5.6	5.7
52	64.7	63.5	62.9	62.3	5.2	5.5	5.6	5.8
57	68.5	67.2	66.5	65.9	5.3	5.6	5.7	5.9
62	72.2	70.9	70.2	69.5	5.4	5.7	5.8	6.0
67	76.0	74.6	73.9	73.2	5.5	5.8	5.9	6.1
72	79.8	78.3	77.5	76.8	5.6	5.9	6.0	6.2

USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW

AIR FLOW RATE, CFM.	CAPACITY MULTIPLIER	TOTAL POWER MULTIPLIER
1750	0.987	0.975
2250	1.011	1.025

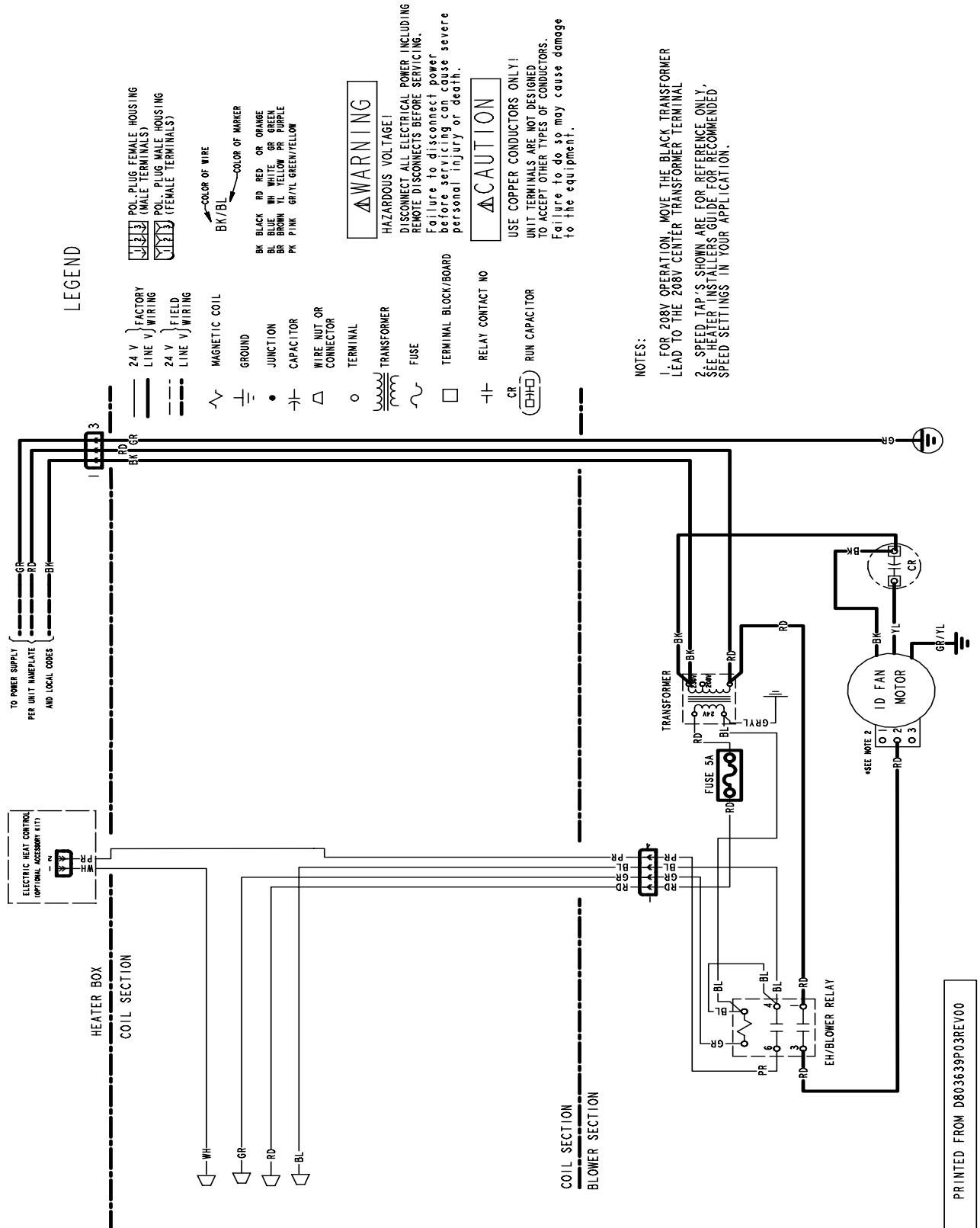
AHRI RATING FOR HEATING

CFM	CAPACITY 47	COP 47	CAPACITY 17	COP 17	HSPF
1800	59199	3.27	37203	2.29	8.27

A.H.R.I. STANDARD 210/240 RATING CONDITIONS — High Temperature Heating 47°F. D.B., 43°F. W.B. air entering outdoor coil, 70°F. D.B. air entering indoor coil.

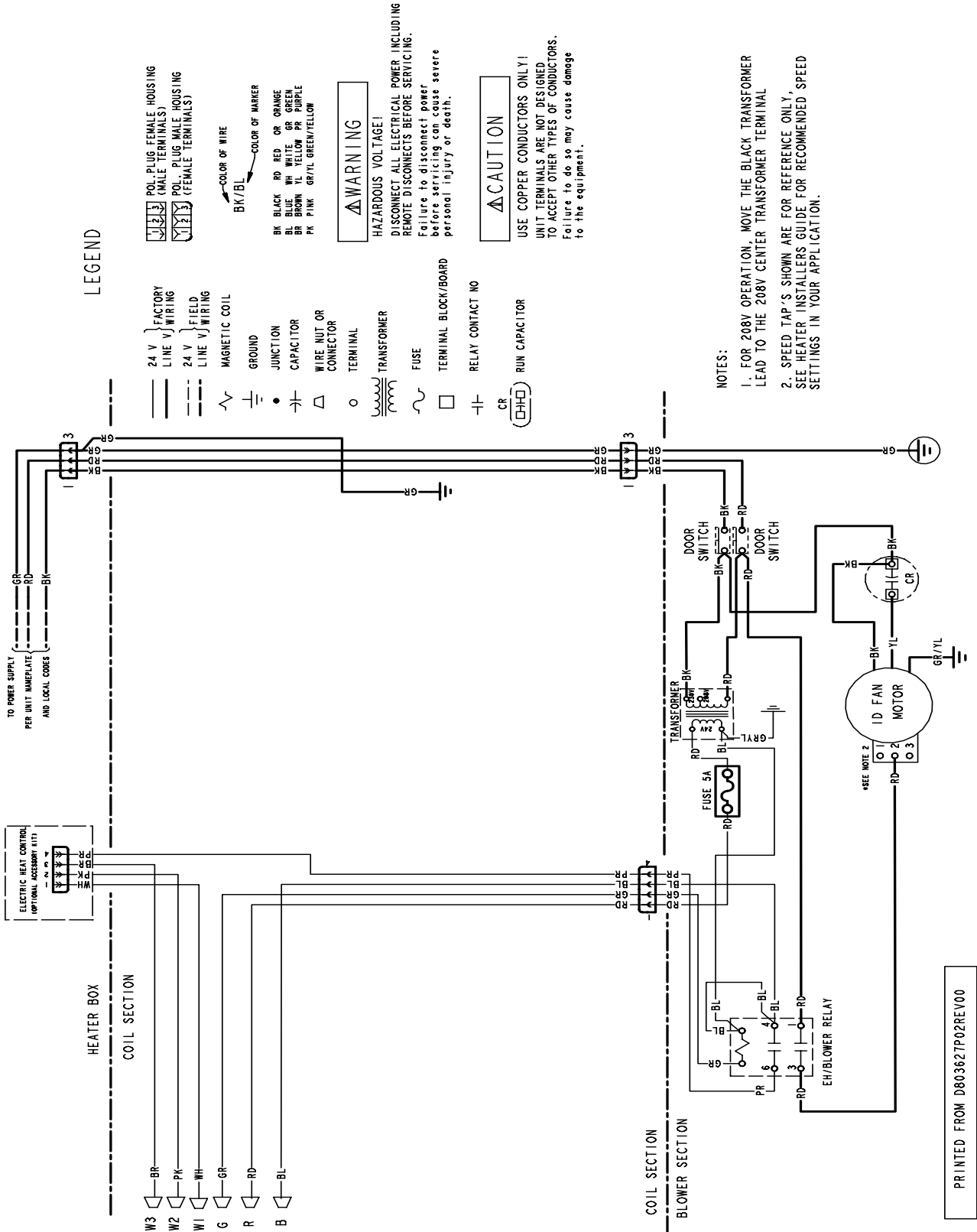
Electrical data GAF

WIRING DIAGRAM FOR GAF2A0A36S AIR HANDLERS



Electrical data GAT/GAM

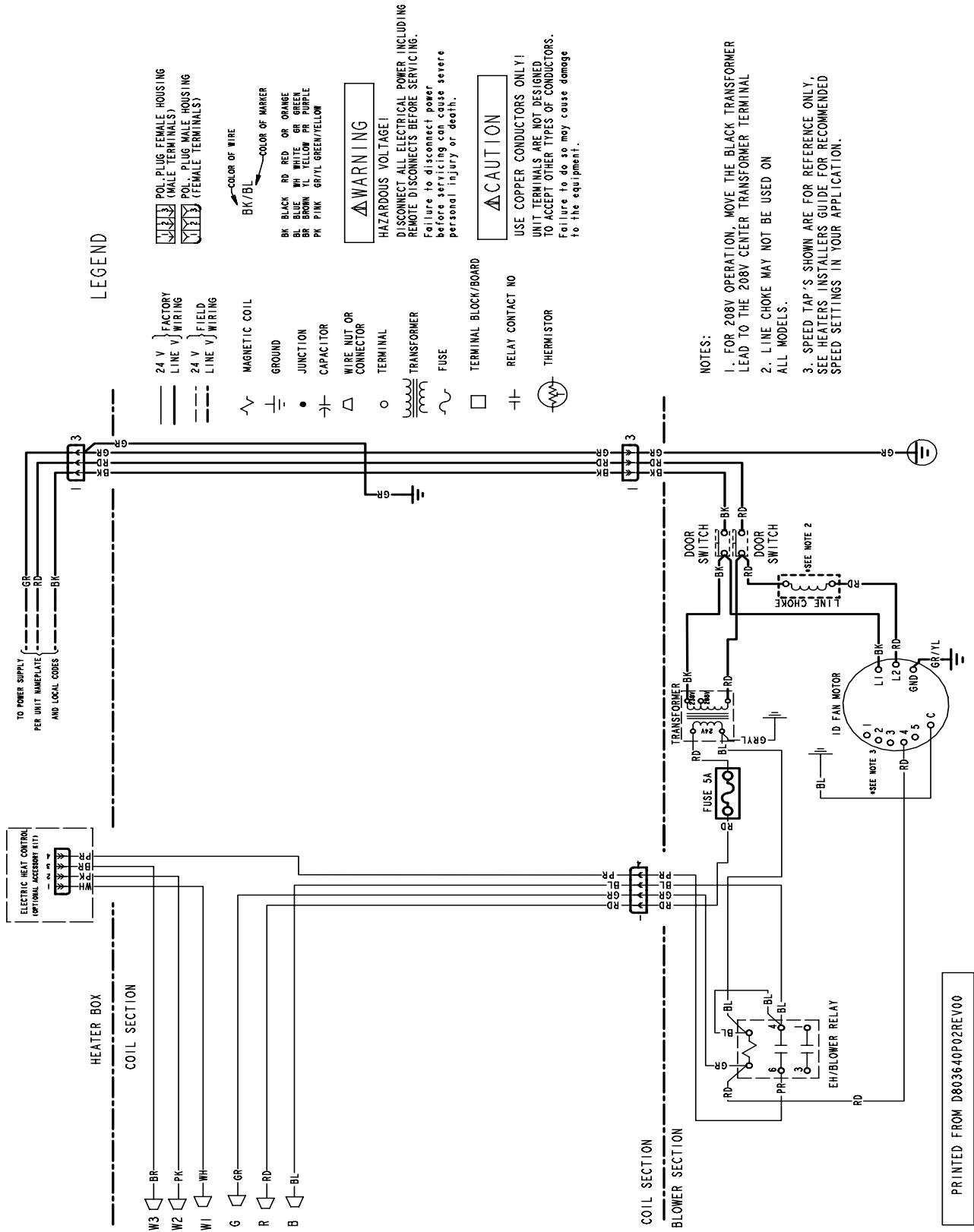
WIRING DIAGRAM FOR GAT2A0C48/ GAM2A0C48 AIR HANDLERS



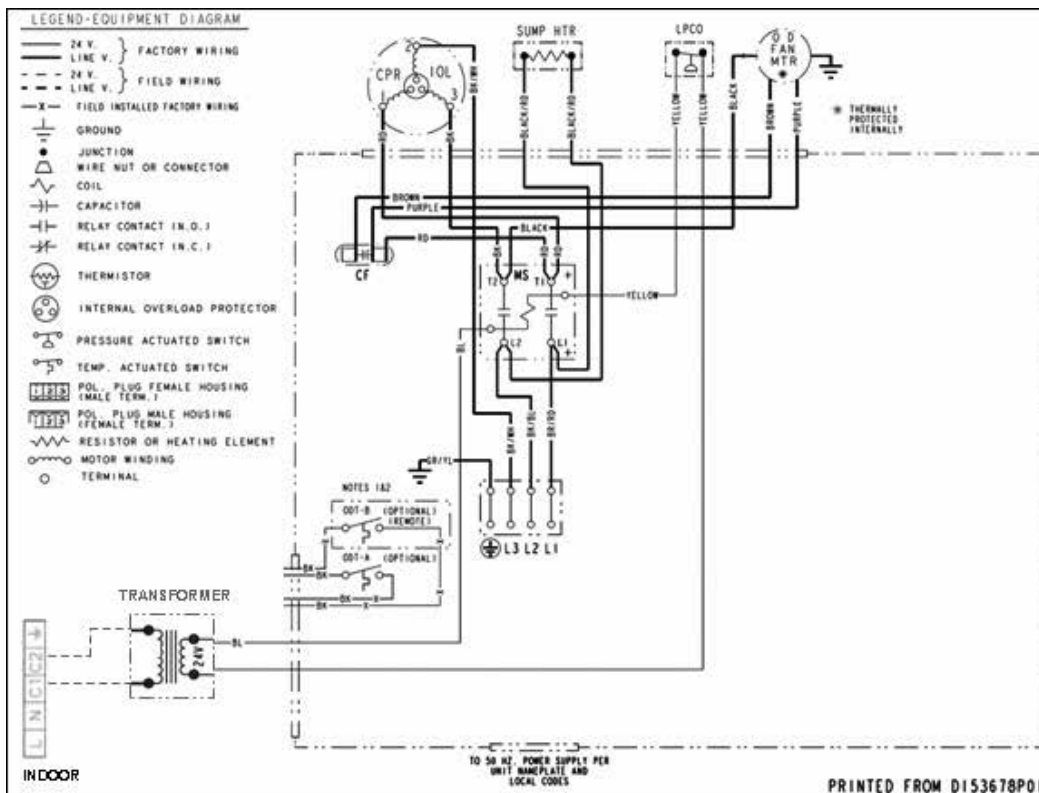
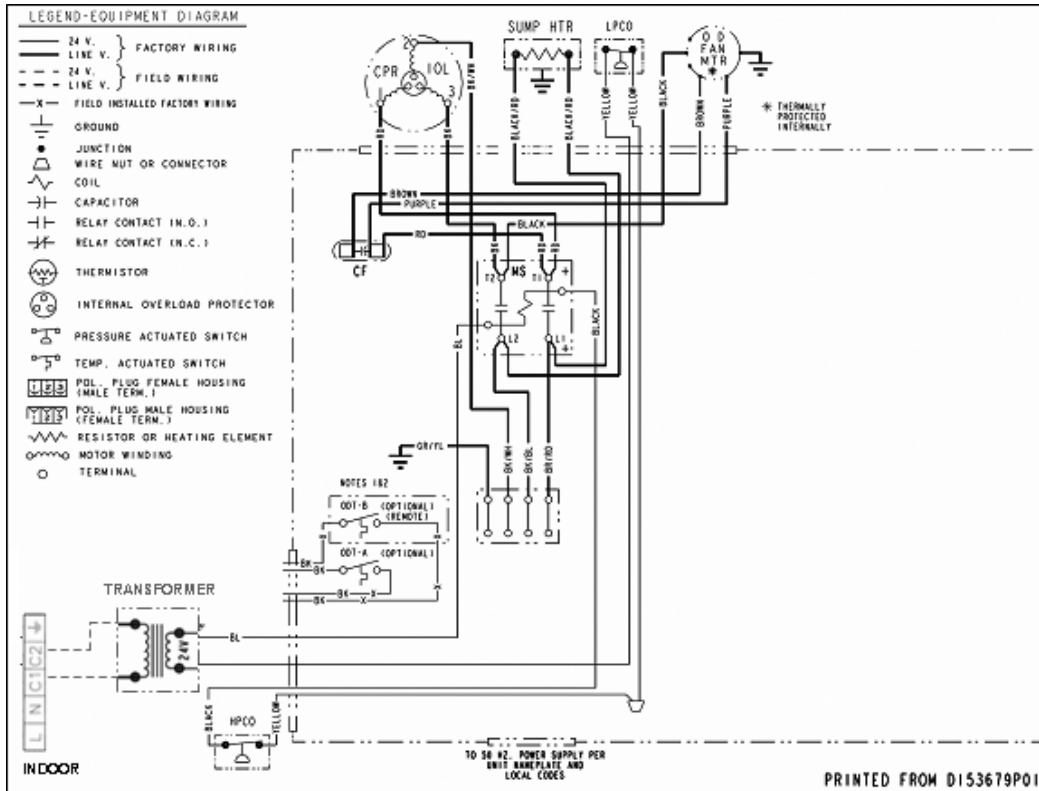
PRINTED FROM D803627P02REV00

Electrical data GAT/GAM

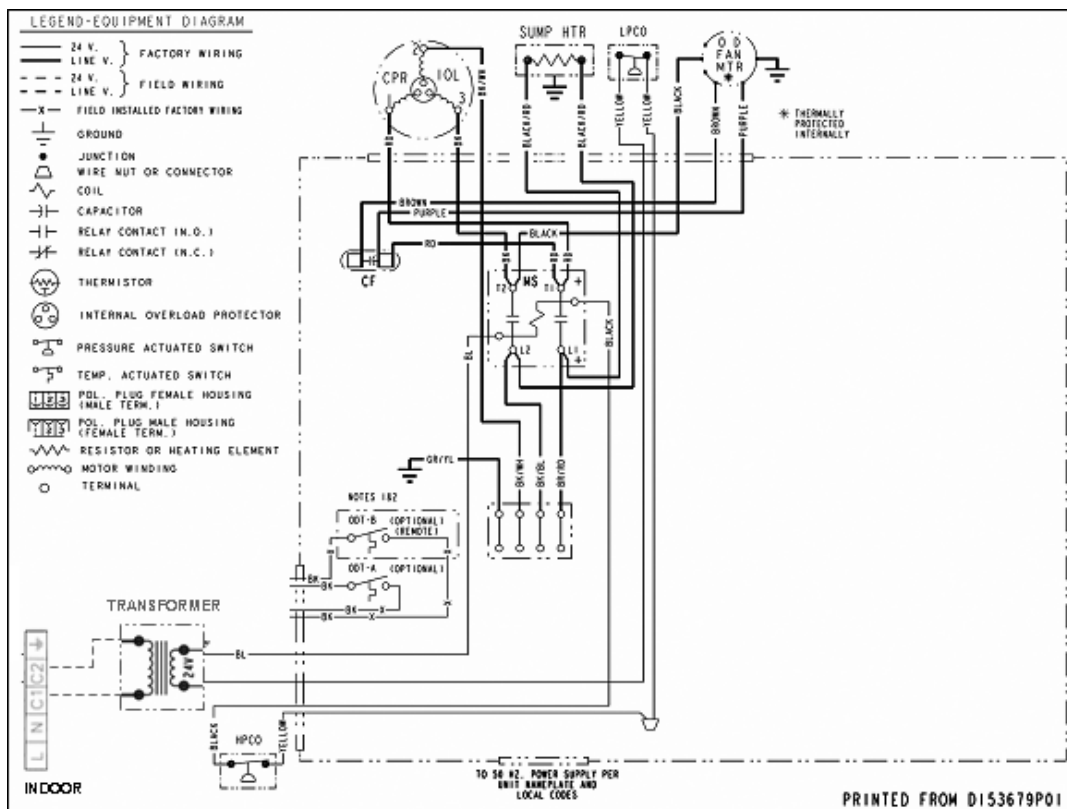
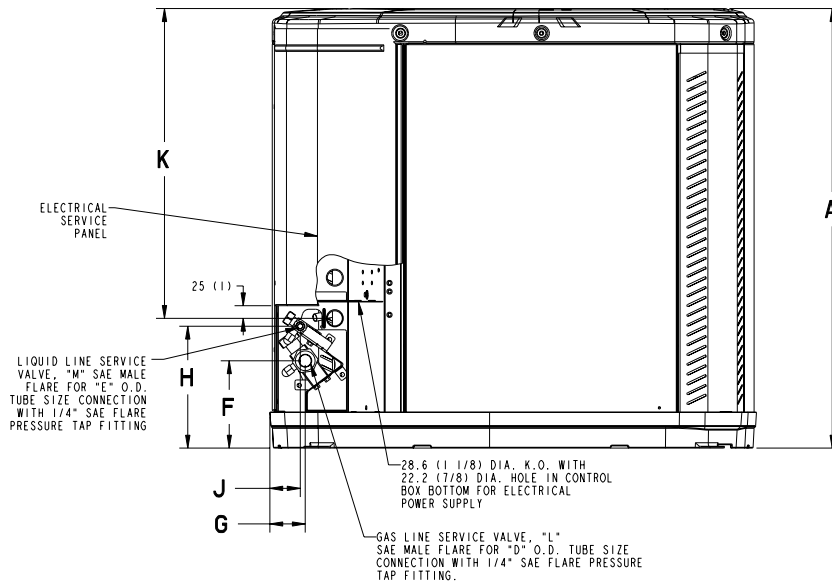
WIRING DIAGRAM FOR GAT2A0C60/ GAM2A0C60 AIR HANDLERS



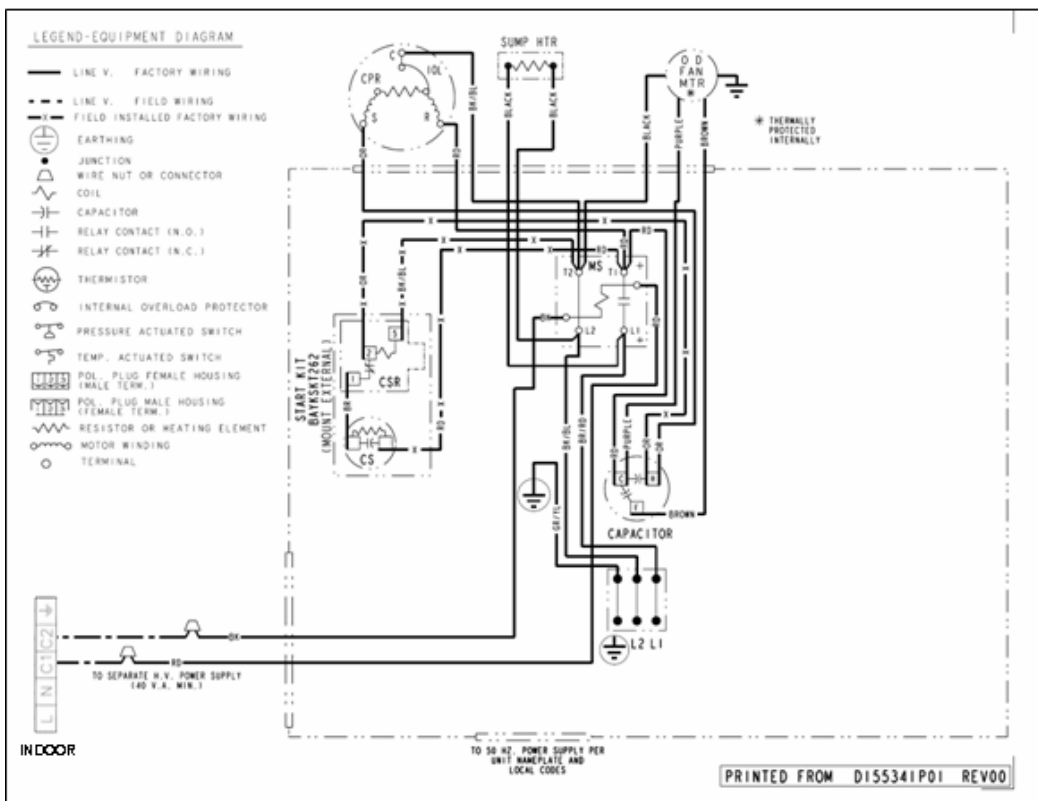
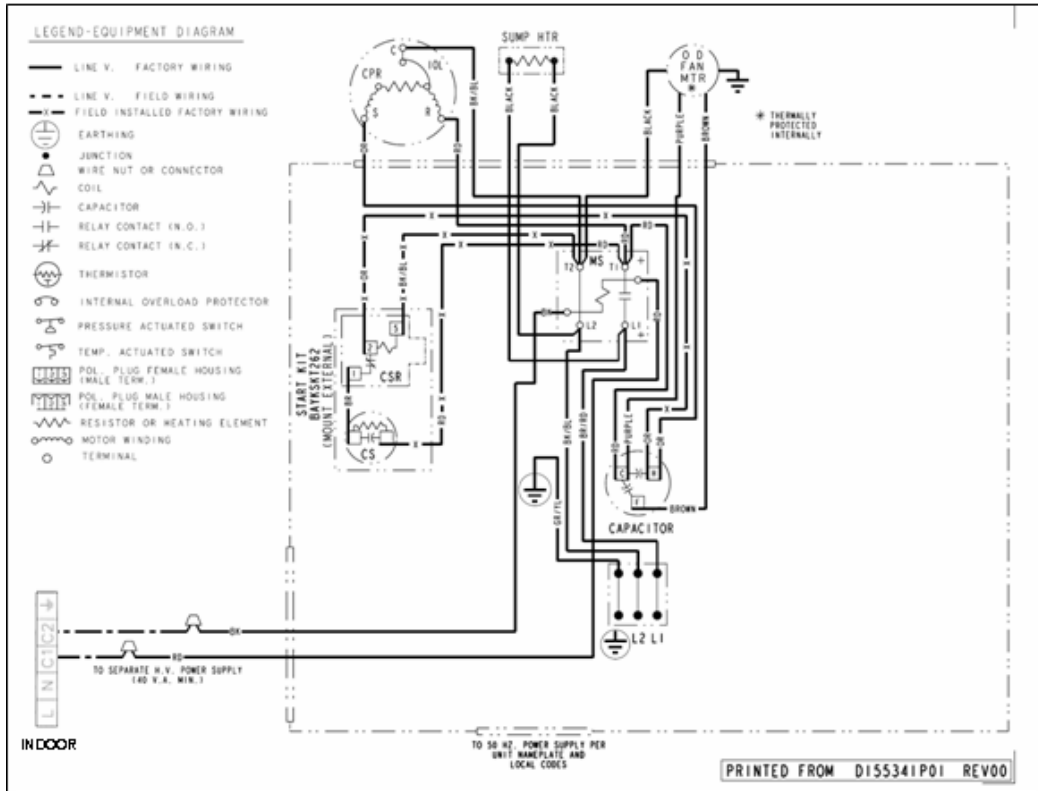
Wiring 2TTB



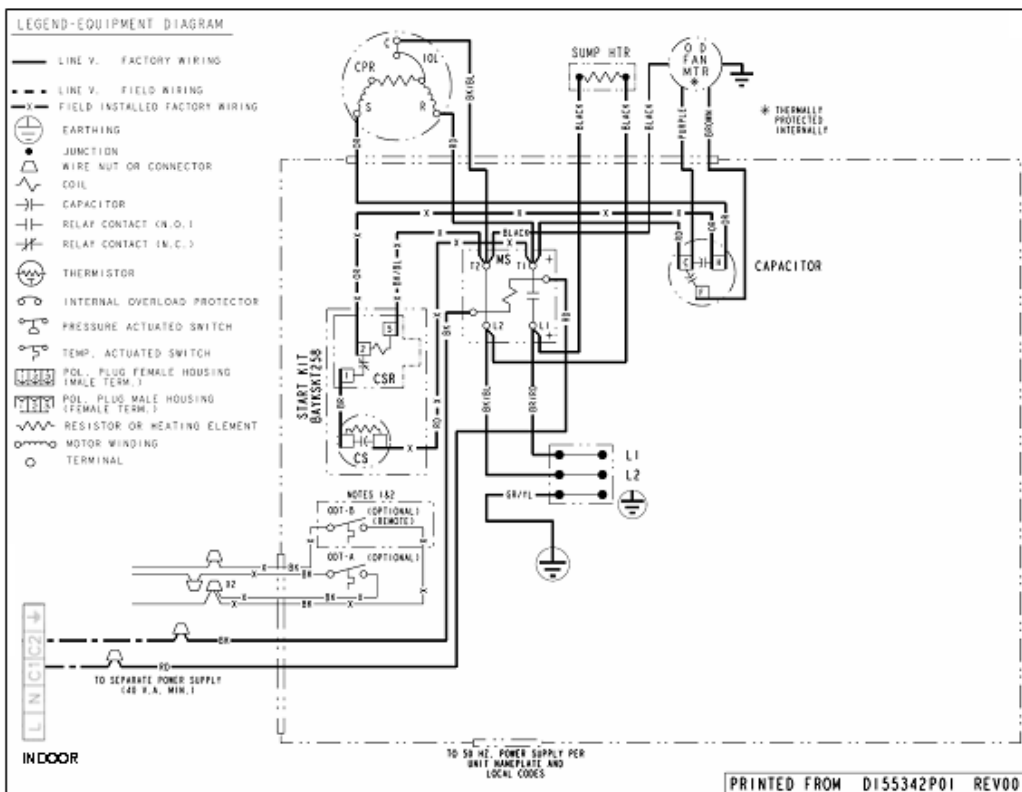
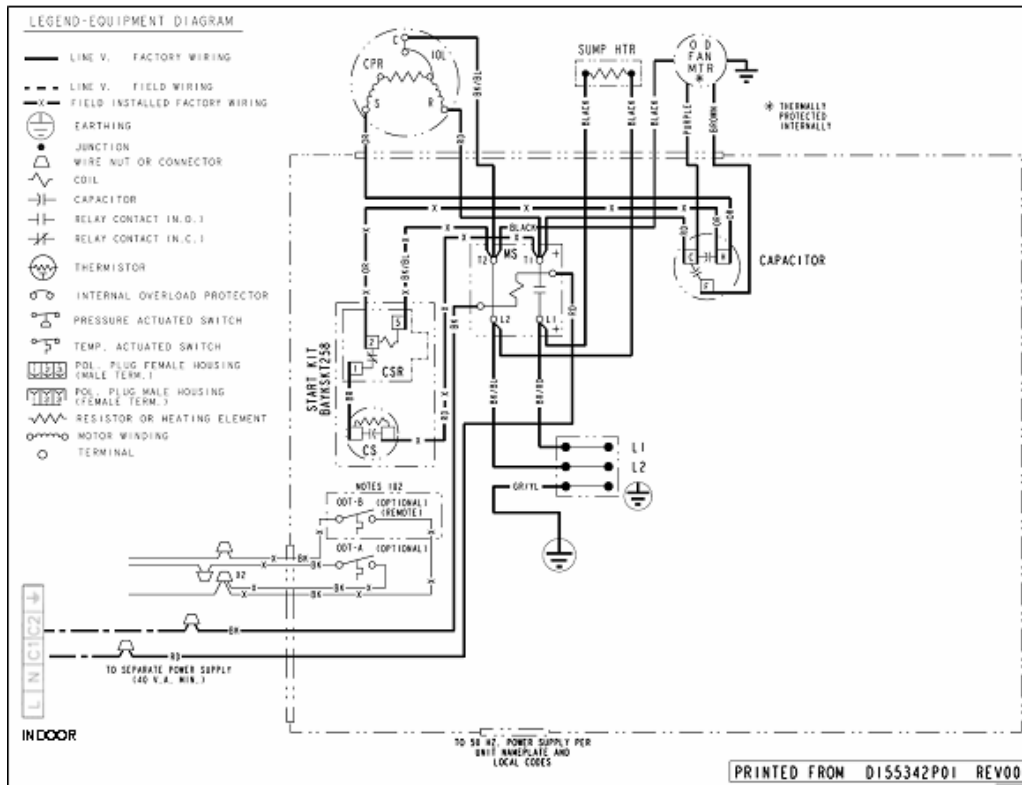
Wiring 2TTB



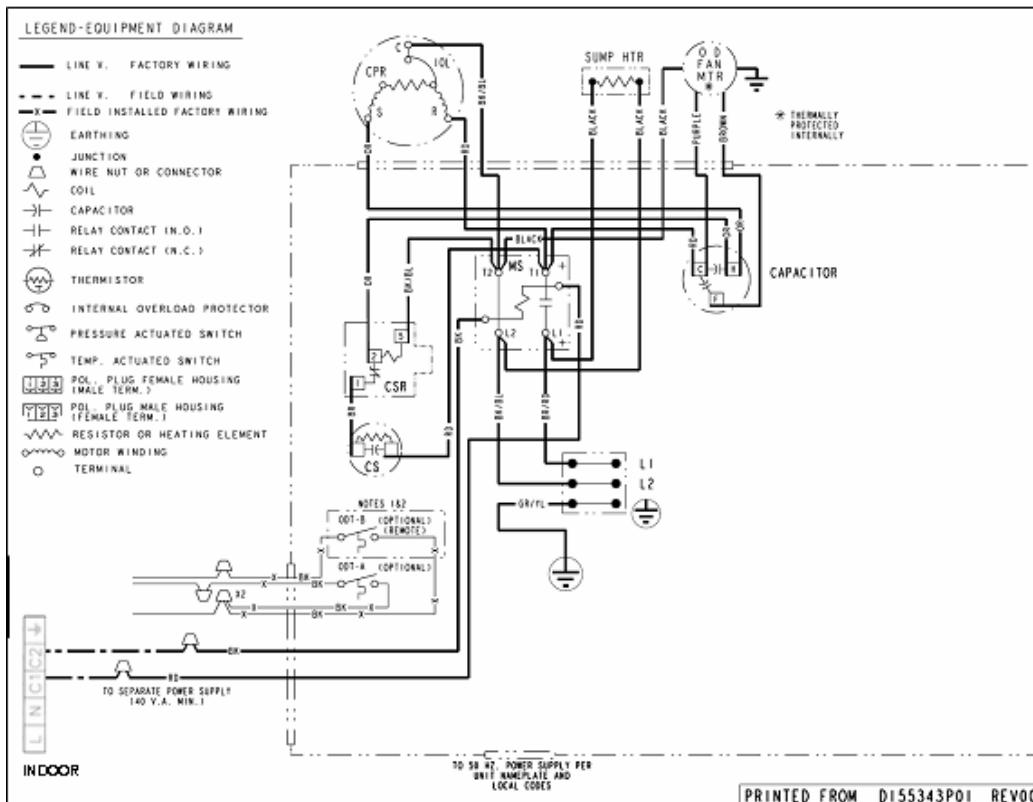
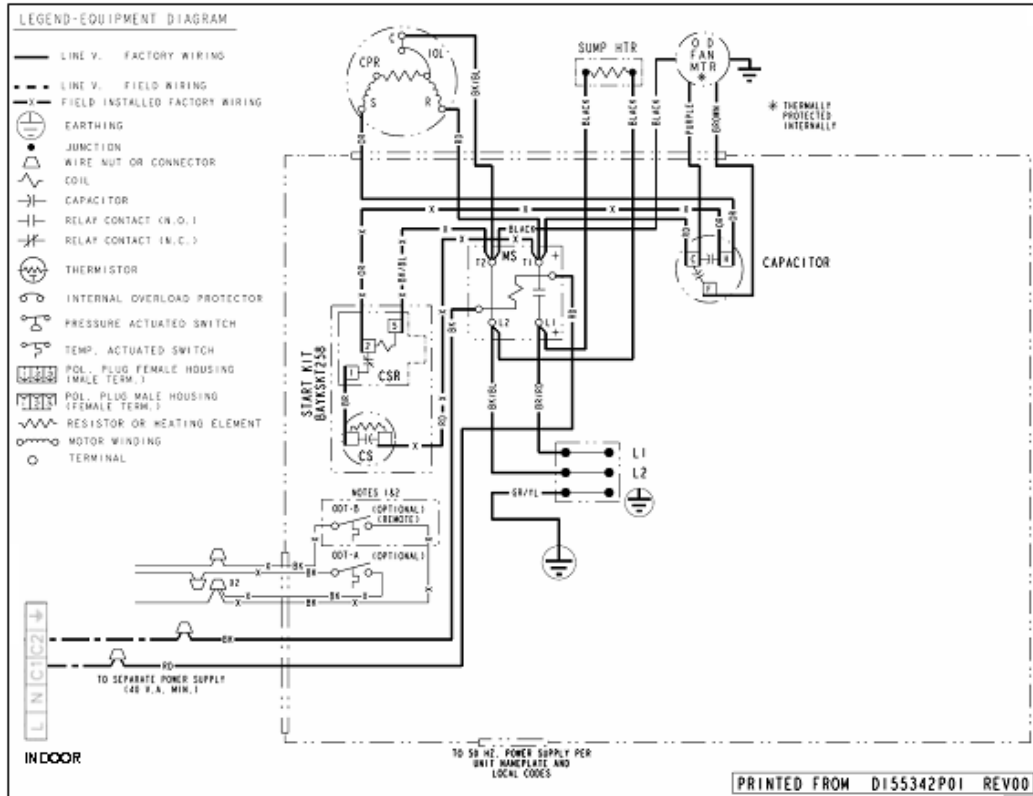
Wiring 2TTA



Wiring 2TTA

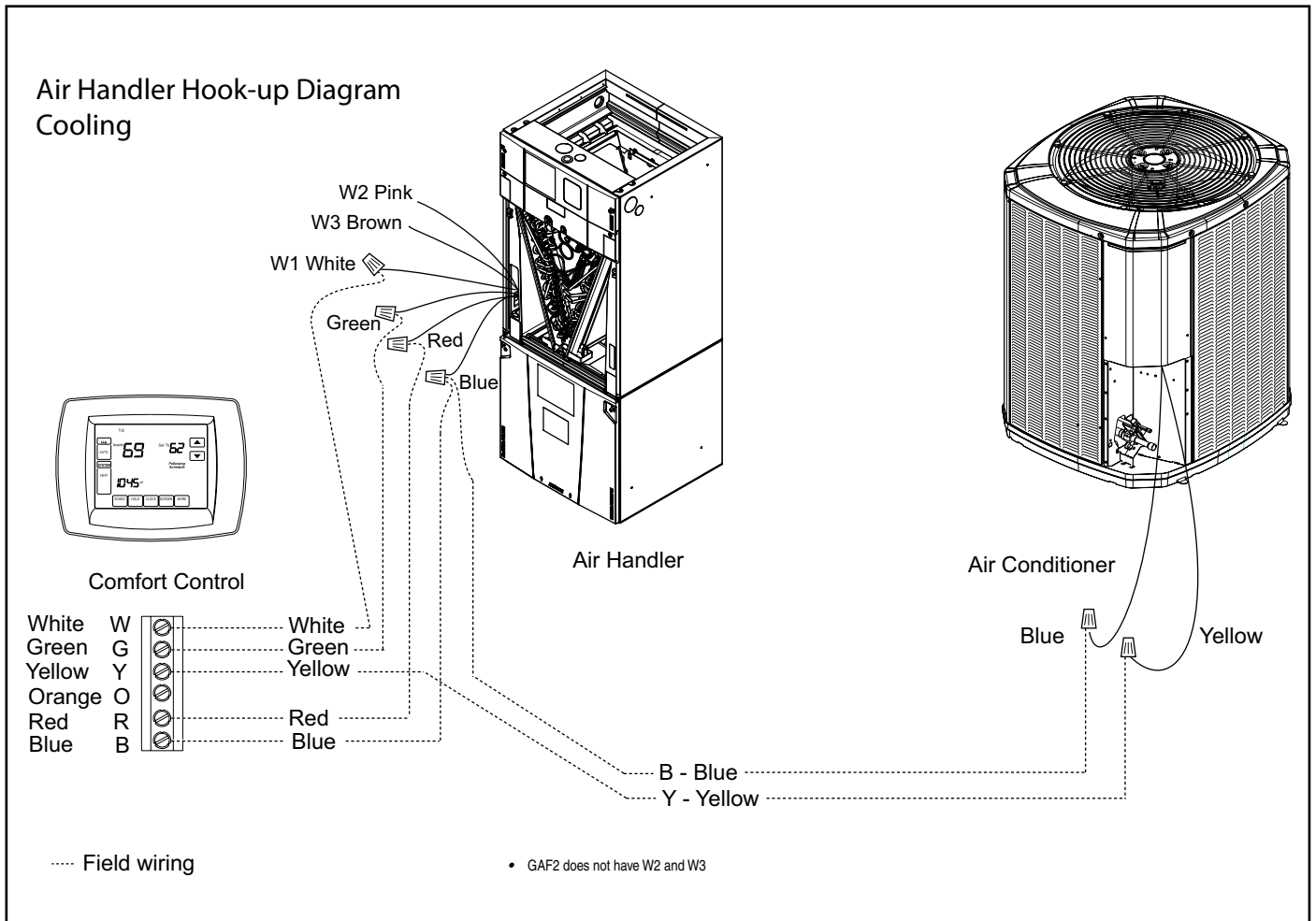


Wiring 2TTA



Field wiring GAF/GAT/GAM

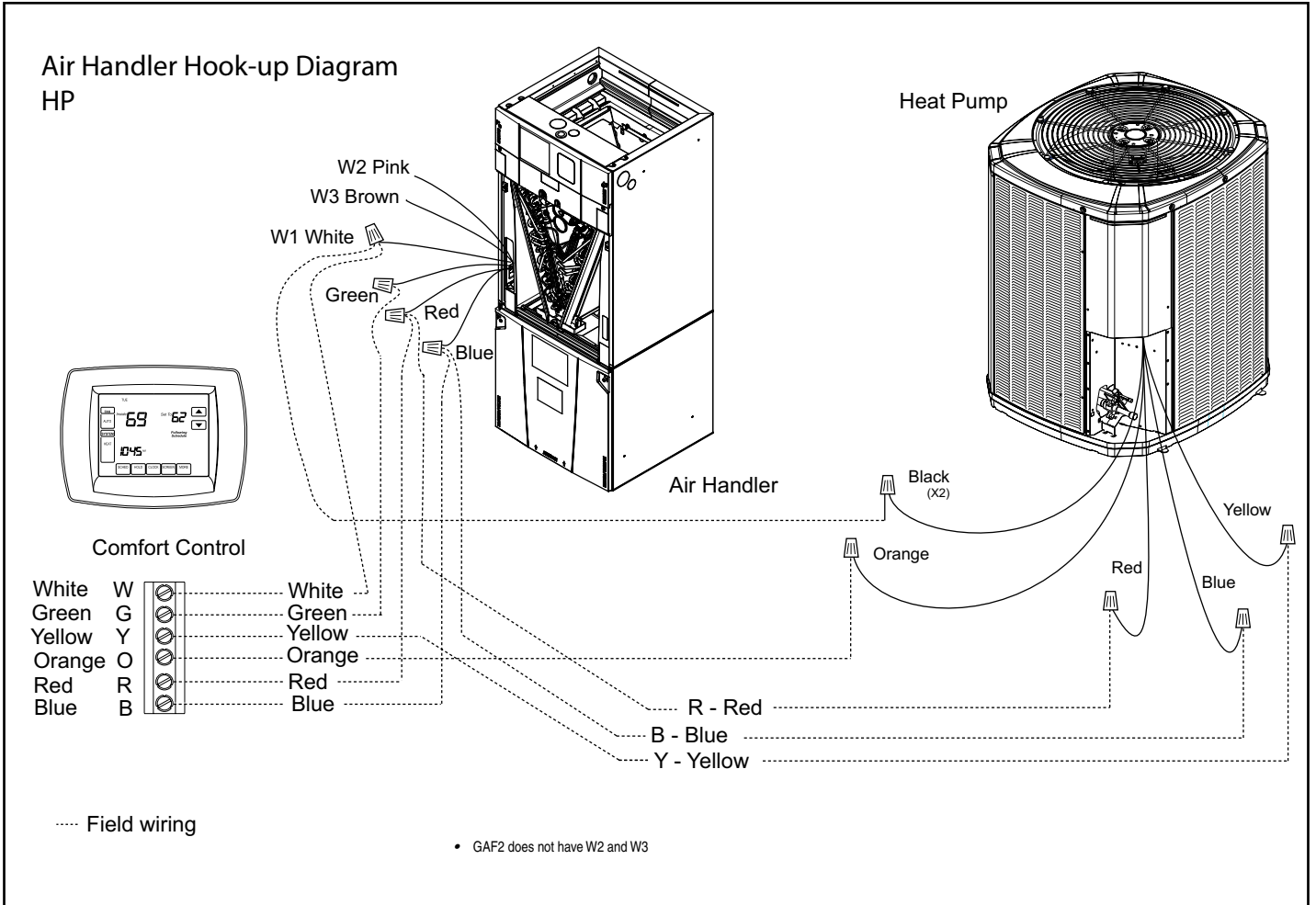
GAF2, GAT2 AND GAM2 50 HZ AIR HANDLERS WITH SINGLE SPEED COOLING





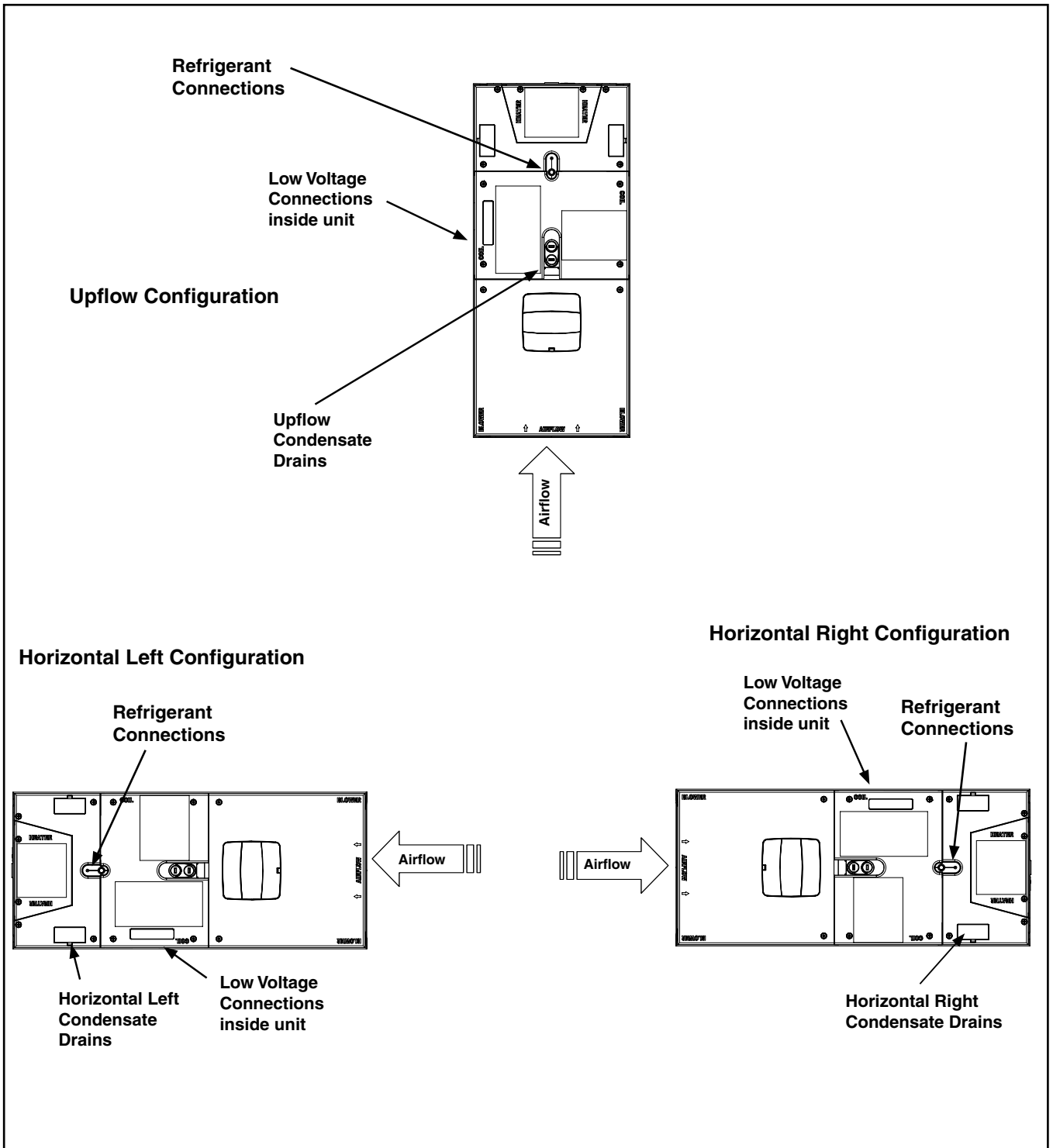
Field wiring GAF/GAT/GAM

GAF2, GAT2 AND GAM2 50 HZ AIR HANDLERS WITH SINGLE SPEED HEAT PUMP



Convertibility GAF/GAT/GAM

* Note: No internal modifications required for any position. Badge rotation will keep brand in correct position



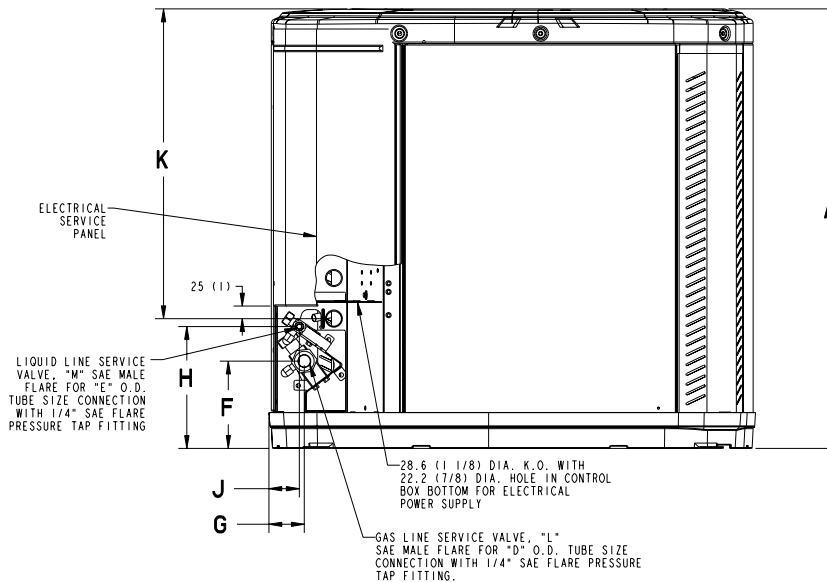


Dimensions 2TTB

Dimensions

2TTB0 Outline Drawing

Note: All dimensions are in inches (mm)

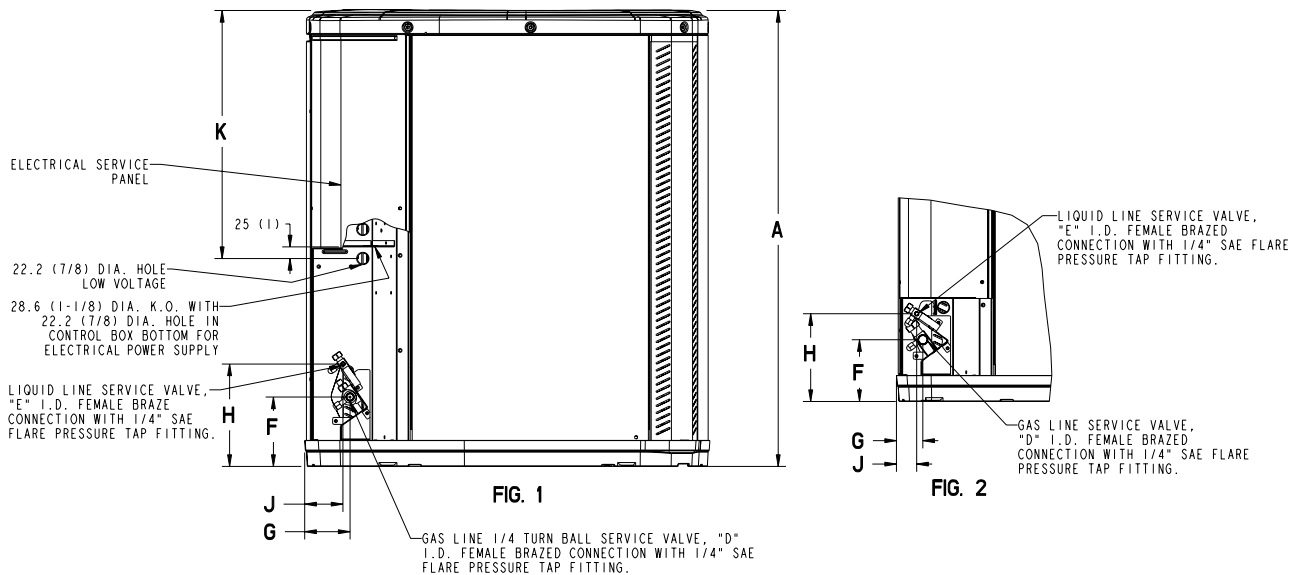
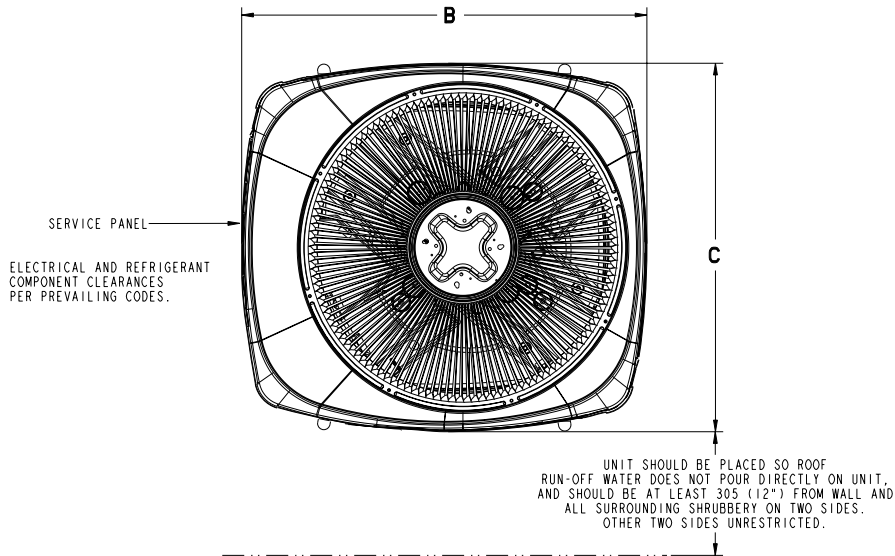


Model	A	B	C	D	E	F	G	H	J	K
2TTB0512AA	648 (25-1/2)	502 (19-3/4)	476 (18-3/4)	5/8	1/4	149 (5-7/8)	19 (3/4)	89 (3-1/2)	16 (5/8)	460 (18-1/8)
2TTB0518AA	648 (25-1/2)	502 (19-3/4)	476 (18-3/4)	5/8	1/4	149 (5-7/8)	19 (3/4)	89 (3-1/2)	16 (5/8)	460 (18-1/8)
2TTB0524AA	561 (25-5/8)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	127 (5)	57 (2-1/4)	181 (7-1/8)	44 (1-3/4)	457 (18)
2TTB0530AA	561 (25-5/8)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	127 (5)	57 (2-1/4)	181 (7-1/8)	44 (1-3/4)	457 (18)
2TTB0536AA	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	137 (5-3/8)	65 (2-8/8)	210 (8-1/4)	57 (2-1/4)	457 (18)

Dimensions 2TTA

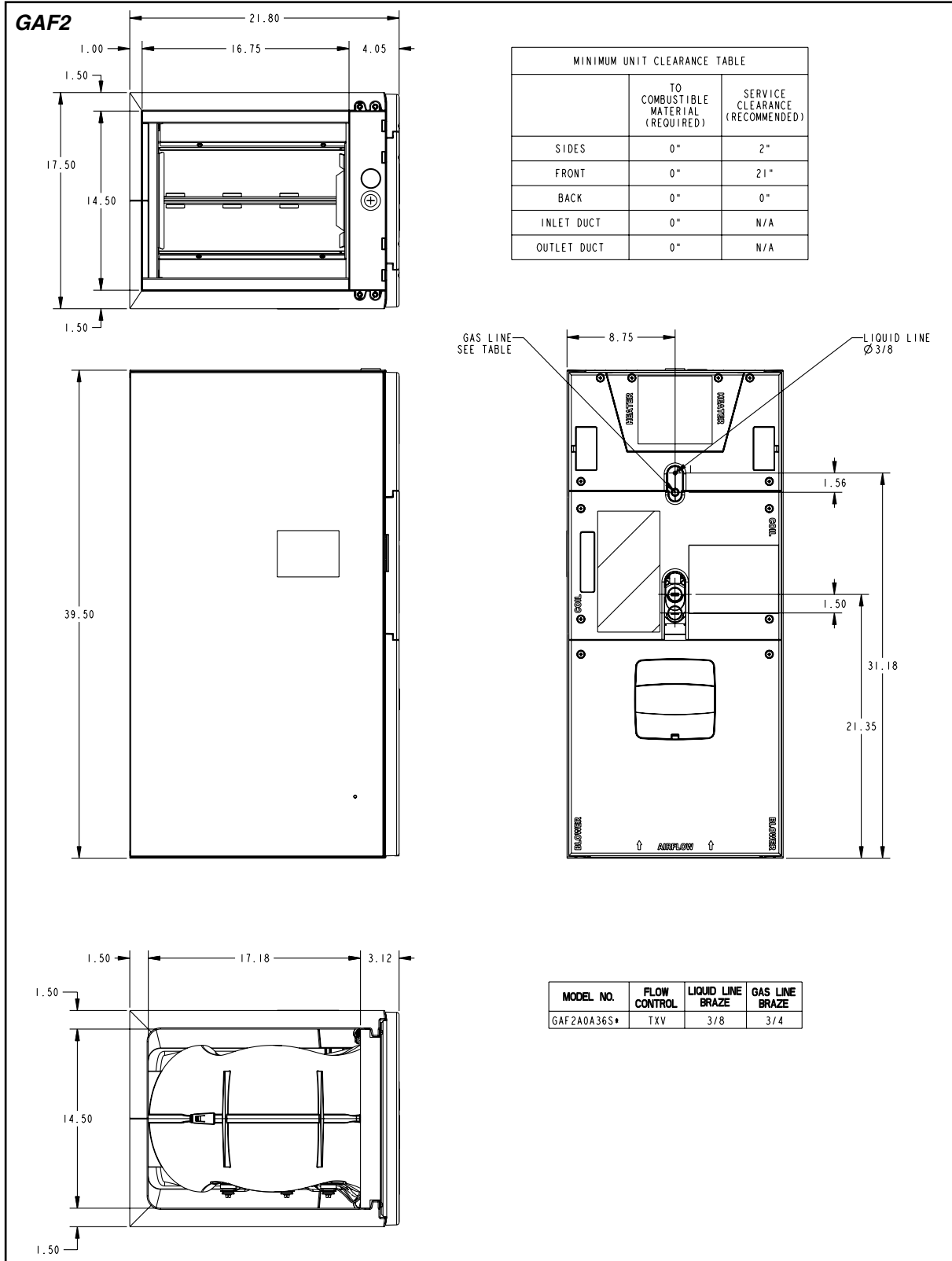
2TTA0 Outline Drawing

Note: All dimensions are in inches (mm)

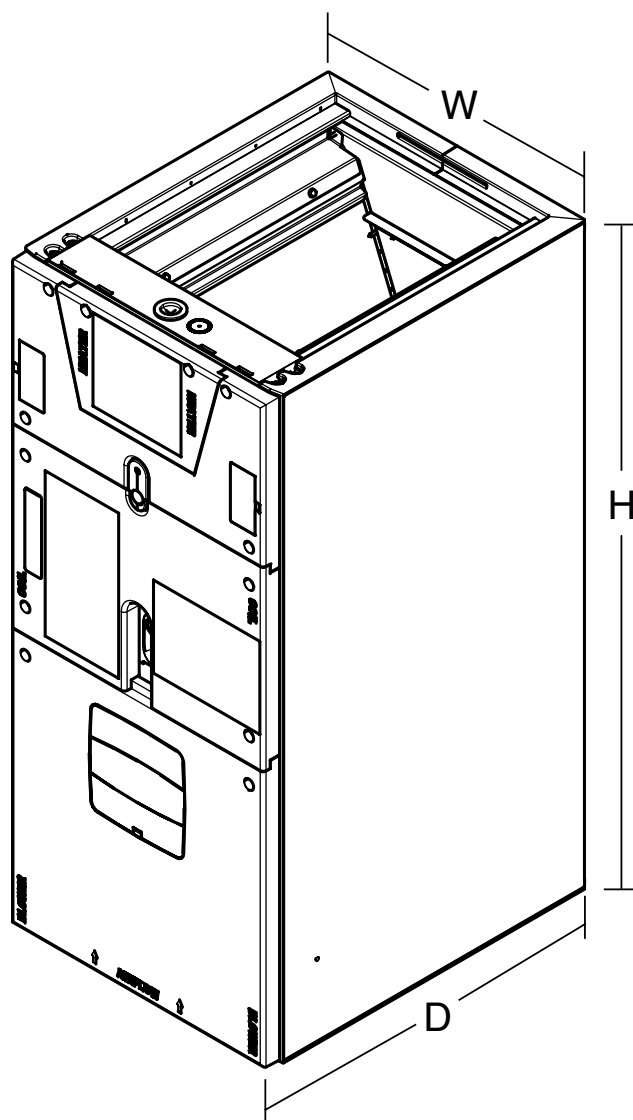


Model	A	B	C	D	E	F	G	H	J	K
2TTA0040AD	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	1-1/8	3/8	137 (5-3/8)	65 (2-8/8)	210 (8-1/4)	57 (2-1/4)	457 (18)
2TTA0050AD	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	1-1/8	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
2TTA0060AD	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	1-1/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

Dimensions GAF



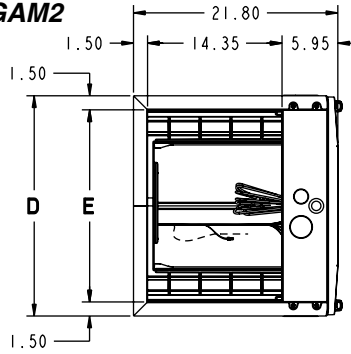
Dimensions GAF



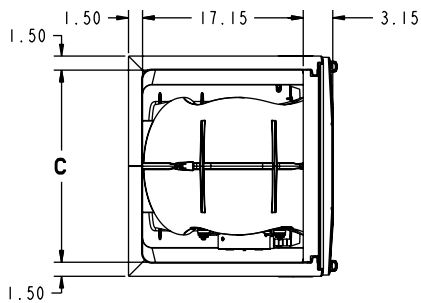
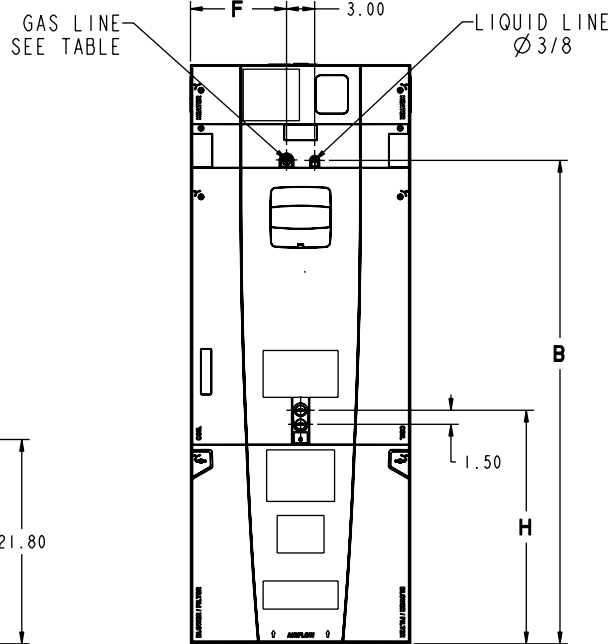
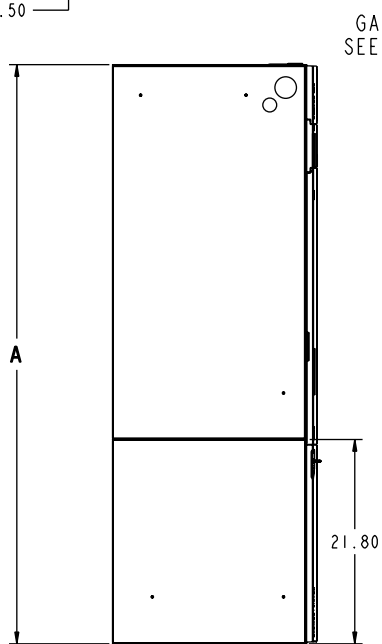
Model Number	H x W x D in.	Unit Net Weight lbs.
GAF2A0A36S3ASA	39 x 17.5 x 22	112

GAF2 AIR HANDLERS ARE ALL ONE PIECE CABINETS.

Dimensions GAT/GAM

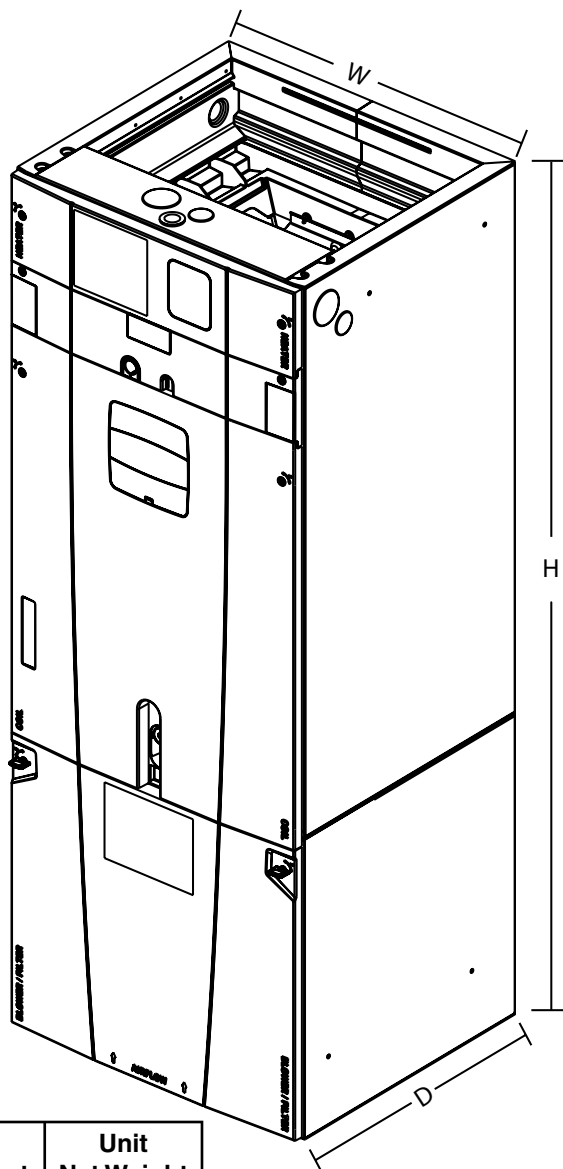
GAT2/GAM2


MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	
OUTLET DUCT	0"	



MODEL NO.	ABC			DE		FH		FLOW CONTROL	GAS LINE BRAZE
GAT2A0C48S4ASA	56.9	46.7	20.5	23.5	20.5	10.3	24.2	TXV	7/8
GAT2A0C60S5ASA	61.7	51.5	20.5	23.5	20.5	10.3	27.0	TXV	7/8
GAM2A0C48S4ASBA	56.9	46.7	20.5	23.5	20.5	10.3	24.2	TXV	7/8
GAM2A0C60S5ASBA	61.7	51.5	20.5	23.5	20.5	10.3	27.0	TXV	7/8

Dimensions GAT/GAM



Model Number	H x D x W in.	**Blower Compartment in.	Unit Net Weight lbs.
GAT2A0C48S4ASA	56.9 x 23.5 x 21.82	2	143
GAT2A0C60S5ASA	61.7 x 23.5 x 21.82	2	159
GAM2A0C48S4ASA	56.9 x 23.5 x 21.82	2	143
GAM2A0C60S5ASA	61.7 x 23.5 x 21.82	2	159

**** Subtract from total height to get Coil and Heater compartment height.**

GAT2/GAM2 AIR HANDLERS ARE ALL TWO PIECE CABINETS.



Mechanical Specifications

2TTA/2TTB

General

The unit shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be matched with a wide selection of air handlers. Exterior must be designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 Duratuff™ base. (2TTB/2TTA)

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Another standard feature is the liquid line dryer.

Compressor

The Climatuff® compressor features internal over temperature and pressure protector, total dipped hermetic motor and thermostatically controlled sump heater. Other features include: rotor lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise.

Condenser Coil

The Spine Fin™ coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch O.D. seamless aluminum glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels and has a 10 year limited warranty.

Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Accessories

Thermostats — Heating/Cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

Outdoor Thermostat — Supplemental heat outdoor ambient lockout from 46 to -10°F.



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