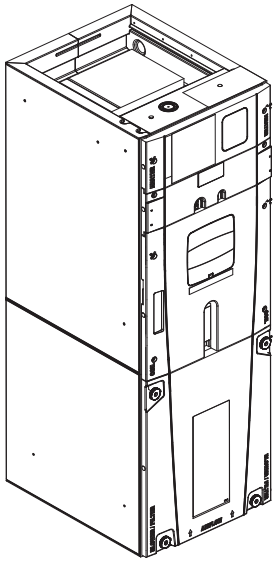
Submittal

Variable Speed Air Handlers with Epoxy Coated Coil 3.5 – 5 Ton

5TAMXD07AV51DA



The Diagnostics Mobile App is available by scanning a QR code located inside this unit or by searching for the Link Diagnostics App in your App Store.

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

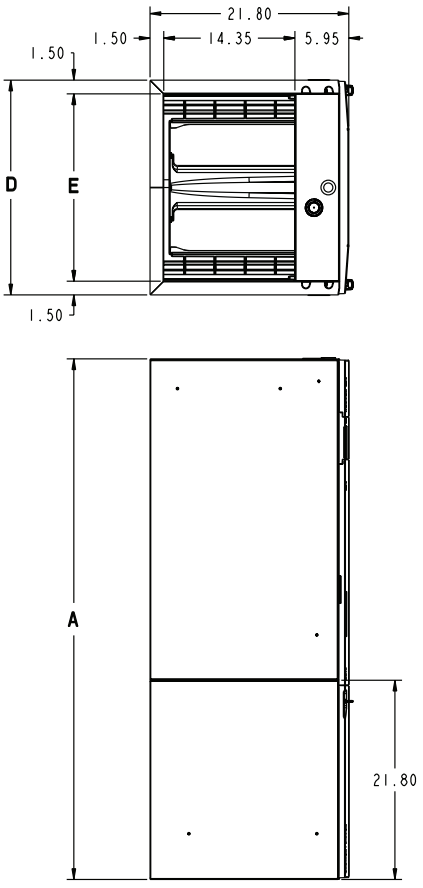
Note: *For use with BAYEA series heaters ONLY.*

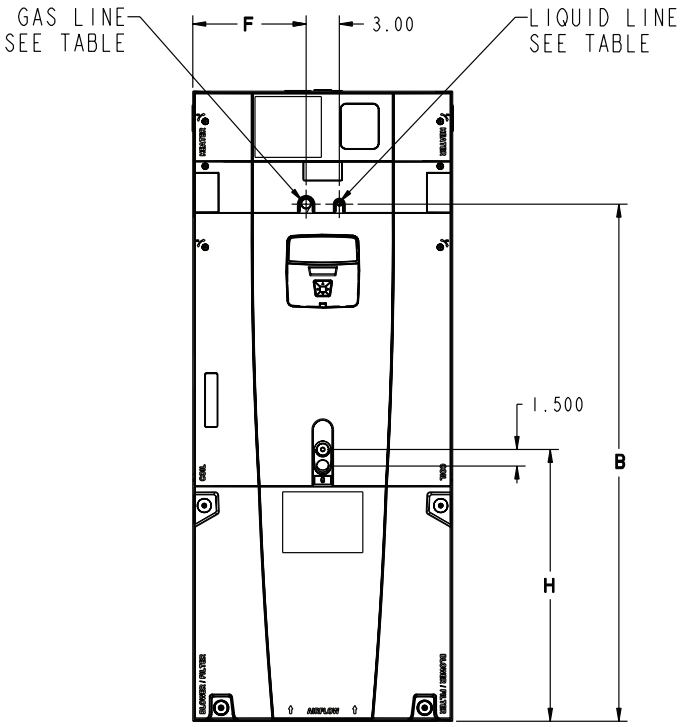
Note: *This unit can be used in Link Communicating mode or 24 volt mode.*

Note: *Need to use Diagnostics App to configure blower delays and accessories etc., in 24 volt mode.*

December 2024 **5TAMXD07A-SUB-1A-EN**

Outline Drawing





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

NOTE: THIS UNIT IS APPROVED FOR INSTALLATION CLEARANCES TO COMBUSTIBLE MATERIAL AS STATED ON THE UNIT RATING NAMEPLATE

Model Number	A	B	C	D	E	F	H	FLOW CONTROL	GAS LINE BRAZE	LIQ LINE BRAZE
5TAMXD07AV51DA	61.7	51.5	20.5	23.5	20.5	10.3	24.9	EEV	7/8	3/8

Product Specifications

MODEL	**5TAMXD07AV51DA**
Family Description	R-454B Variable Speed Air Handler with Epoxy Coated Coil
Description	R-454B Variable Speed Air Handler with Epoxy Coated Coil, Epoxy Coated All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 42K - 60K BTUH Capacity
Application Configuration	4-Way
RATED CAPACITY RANGE (BTUH)	42K - 60K
SYSTEM CONTROL TYPE	Link Communicating or 24V
POWER CONN. - V/PH/HZ	208-230/1/60
Max Breaker Size, Without Electric Heater (Amps)	15
Max Breaker Size, With Electric Heater (Amps) [a] [b]	60
Name Plate	See the name plate
COIL TYPE	Epoxy Coated All-Aluminum Plate Fin
Refrigerant Type	R-454B
Refrigerant Control	EEV
Refrigerant Line Connection - Gas (in.)	7/8
Refrigerant Line Connection - Liquid (in.)	3/8
BLOWER TYPE	Direct Drive Centrifugal
Configuration	Blow Through
Dimensions (Diameter x Width (in.))	11 x 10
Motor Type	Variable Speed
Nominal CFM[c]	2000
Speed (RPM)	1050
Volts/Ph/Hz	208-230/1/60
Full Load Amps	6.9
FILTER RACK (YES, NO)	Yes
Dimensions (Length x Width (in.))	22 x 20 x 1
DUCT CONNECTIONS	L x W
Supply (in.)	20.5 x 14.35
Return (in.)	20.5 x 17.15
DRAIN CONN. SIZE (IN.)	3/4 NPT
DIMENSIONS	H x W x D
Uncrated (in.)	61-3/4 x 23-1/2 x 21-3/4
Crated (in.)	63-1/4 x 27-1/2 x 25-3/4
WEIGHT - SHIPPING/NET (LBS.)	180/170

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

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

[c] If installing system outside of the United States, accessory electric heaters may not be installed.

Heater Attribute Data

Note: *Heater size will be announced when using the resistor that is being provided with the BAYEA heater. Heater can also be configured in the UX360 User Interface or Diagnostics Mobile App.*

5TAMXD07AV51DA											
Heater Model No.	No. of Circuits	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	0	-	-	6.9 **	9	15	-	-	6.9 **	9	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	29	30	2.88	9800	13.8	26	30
BAYEA(13/AC)05++1	1	4.80	16400	20.0	34	35	3.60	12300	17.3	30	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	49	50	5.76	19700	27.7	43	45
BAYEA(13/AC)10++1	1	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	37	40	7.20	24600	20.0	33	35
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	51	60	10.80	36900	30.0	45	45
BAYEA(23/BC)15BK1 - Circuit 1 [a] BAYEA(23/BC)15BK1 - Circuit 2	2	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC)20BK1 - Circuit 2	2	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEA(33/CC)25BK1 [b] - Circuit 1 BAYEA(33/CC)25BK1 - Circuit 2 BAYEA(33/CC)25BK1 - Circuit 3	3	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
Note: *** Motor Amps*											

[a] MCA and MOP for circuit 1 contains the motor amps

[b] Heater not qualified for 208V when installed in horizontal left position without Heat Pump

Note: *See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters.*

Note: *Heater model numbers may have additional suffix digits.*

5TAMX Air Flow Performance Tables

5TAMXD07AV51DA AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
3.5 tons	290 CFM/ton	CFM Watts	1040 / 1151 94 / 119	1068 / 1056 151 / 148	1075 / 941 203 / 168	1066 / 799 247 / 175	1046 / 607 283 / 165	290 CFM/ton	CFM Watts	1039 95	1065 151	1071 203	1063 247	1045 283
	370 CFM/ton	CFM Watts	1312 / 1343 171 / 178	1332 / 1264 236 / 210	1336 / 1174 296 / 235	1329 / 1068 349 / 250	1314 / 945 392 / 251	350 CFM/ton	CFM Watts	1247 150	1266 213	1270 270	1263 321	1248 363
	400 CFM/ton	CFM Watts	1408 / 1496 206 / 238	1425 / 1426 274 / 273	1429 / 1346 337 / 301	1423 / 1256 393 / 319	1410 / 1154 440 / 325	400 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	450 CFM/ton	CFM Watts	1565 / 1650 274 / 312	1579 / 1585 348 / 348	1584 / 1512 416 / 378	1580 / 1432 477 / 398	1569 / 1343 529 / 407	450 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
4 tons	290 CFM/ton	CFM Watts	1186 / 1304 131 / 164	1208 / 1223 192 / 196	1213 / 1128 248 / 220	1206 / 1018 297 / 234	1189 / 887 337 / 233	290 CFM/ton	CFM Watts	1185 131	1206 192	1210 248	1203 297	1187 337
	370 CFM/ton	CFM Watts	1480 / 1514 235 / 245	1495 / 1444 306 / 280	1499 / 1365 372 / 308	1495 / 1277 430 / 327	1482 / 1177 479 / 334	350 CFM/ton	CFM Watts	1407 206	1423 274	1426 337	1421 392	1409 439
	400 CFM/ton	CFM Watts	1587 / 1689 285 / 332	1602 / 1625 360 / 369	1606 / 1554 429 / 399	1602 / 1475 490 / 420	1592 / 1399 543 / 430	400 CFM/ton	CFM Watts	1587 285	1600 360	1604 428	1601 490	1592 543
	450 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1782 / 1597 671 / 546	450 CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
4.5 tons **†	290 CFM/ton	CFM Watts	1322 / 1431 174 / 211	1340 / 1358 240 / 245	1345 / 1274 300 / 271	1338 / 1179 353 / 288	1323 / 1069 397 / 292	290 CFM/ton	CFM Watts	1321 174	1338 240	1342 300	1336 352	1322 396
	370 † CFM/ton	CFM Watts	1646 / 1667 315 / 320	1660 / 1602 392 / 357	1665 / 1530 463 / 386	1662 / 1451 527 / 407	1653 / 1363 582 / 417	350 CFM/ton	CFM Watts	1564 274	1578 348	1582 416	1578 476	1569 529
	400 CFM/ton	CFM Watts	1770 / 1873 386 / 443	1784 / 1813 468 / 481	1789 / 1747 543 / 512	1788 / 1675 612 / 534	1781 / 1597 671 / 546	400 † CFM/ton	CFM Watts	1770 385	1783 467	1788 543	1788 611	1782 671
	450 CFM/ton	CFM Watts	1989 / 2099 535 / 612	2004 / 2042 627 / 650	2012 / 1980 712 / 681	2013 / 1913 788 / 703	2009 / 1842 855 / 716	450 CFM/ton	CFM Watts	1989 534	2003 626	2011 711	2014 788	2011 856
5 tons	290 CFM/ton	CFM Watts	1452 / 1557 224 / 265	1469 / 1489 294 / 301	1473 / 1413 358 / 329	1468 / 1327 415 / 348	1455 / 1231 463 / 356	290 CFM/ton	CFM Watts	1452 224	1467 294	1471 358	1466 415	1454 463
	370 CFM/ton	CFM Watts	1817 / 1826 415 / 451	1831 / 1765 499 / 451	1837 / 1698 576 / 481	1837 / 1624 647 / 503	1831 / 1544 708 / 515	350 CFM/ton	CFM Watts	1723 357	1736 437	1741 511	1740 578	1734 636
	400 CFM/ton	CFM Watts	1964 / 2073 516 / 590	1978 / 2015 607 / 629	1986 / 1953 690 / 660	1987 / 1886 766 / 682	1983 / 1814 832 / 695	400 CFM/ton	CFM Watts	1964 515	1978 606	1985 690	1988 766	1985 833
	450 CFM/ton	CFM Watts	2231 / 2347 741 / 842	2245 / 2292 842 / 879	2252 / 2233 934 / 908	2252 / 2171 1015 / 930	2185 / 2104 1024 / 941	450 CFM/ton	CFM Watts	2232 741	2245 842	2252 934	2252 1016	2186 1023

- † Factory Setting
- ** Not an actual OD size
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.4" water column.
- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

5TAMXD07AV51DA MINIMUM HEATING AIRFLOW CFM — HEATER MATRIX							
MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1	BAYEACC25BK1
TAMXB0C60	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE								

Features and Benefits

- Unique cabinet design
  - 2% or less air leakage
  - Precision applied — durable door seals
  - Specially designed air seal around refrigerant, condensate and conduit connections
  - Double wall foamed cabinet system
  - R-4.2 Insulating Value (Avg Insulating Value R-8.2)
  - No loose fiber design
  - Smooth cleanable interior design
  - Sweat eliminating design
  - Composite foamed cabinet doors
  - Water proof cabinet design
  - Integrated horizontal drain pans
  - Modular cabinet
- Multi-position up/down flow horizontal left/right
- Link™ Communicating or 24V Control
- Side return option (sold as accessory)
- Pre-marked Conduit Connection Locations
- Alert code notification
- Low voltage terminal connection point
- Phillips head door fasteners
- **Vortica®** blower with polarized plug connections and integrated slide deck for easy removal
- Aluminum coil with integrated slide deck for easy removal and polarized plug connections on coil EEV
- Patented enhanced coil fin
- Electronic Expansion Valve (EEV) with low ambient and low superheat compressor protection
- Slide in electric heaters with polarized plug connections (sold as accessory)
- Slide in hot water coils with polarized plug connections (sold as accessory)
- UVC light kit with safety switch and polarized plug connections (sold as accessory)
- Labeled panels and connections
- Molded in 1″ standard filter rail
- Variable speed ECM motor
- Soft start fan motor operation
- **Comfort R™** mode
- Built in fan delay modes
- Maximum width of 23.5″
- Compact 20.8″ depth with doors removed
- Fused 24V power
- **5 Year Warranty**
- **10 Year Warranty Registered**
- **Optional Extended Warranty Available**

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com.

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Supersedes (New)