

# SUBMITTAL DATA SHEET

Series Name: 07A  
Model Number: 250V302RAJ/SAV282A



## Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION	
Indoor Air Flow Low/High (CFM)	600/700
Indoor Noise Level Low/High (dBA)	48/51
Dimension (WxDxH)	19.50 x 22 x 45.34
inch	500 x 560 x 1162
Package (WxDxH)	22.78 x 25.58 x 47.618
inch	580 x 650 x 1210
NetGross Weight	130/143
lb	59/65

OUTDOOR SPECIFICATION	
Compressor Type	GMCC
Compressor Model	TTM4043LFTB
Refrigerant	R454B
Refrigerant Oil Charge(L)	920
Refrigerant Oil	PCE VG74
Outdoor Air Flow (Max) (CFM)	3600
Outdoor Noise Level (Max) (dBA)	66
Dimension (WxDxH)	29.18 x 29.18 x 25
inch	750 x 750 x 635
Package (WxDxH)	30 x 30 x 26
inch	762 x 762 x 660
NetGross Weight	137/146
lb	62/66

EFFICIENCY			
Cooling	SEER2	Heating	HSPF2
	20.0		9.4
	EER2		COP
	13.3		2.10

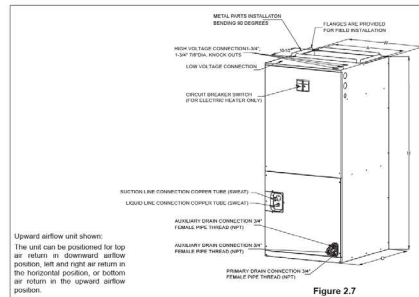
PERFORMANCE OF Cooling (Btu/h)	
Rated Capacity	24000
Min/Max Capacity	11,000 / 24,000
Moisture Removal (pL/h)	2.75
Standard Operating Range(°F)	5~124
Rated Cooling Conditions:	Indoor: 80° DB/67° WB Outdoor: 95° DB/70° WB

PERFORMANCE OF Heating (Btu/h)	
1. @ 47°F Rated	24,000
2. @ 47°F Min/Max Capacity	11,500 / 29,000
3. @ 17°F Rated	19,200
4. @ 17°F Rated Capacity/ COP	2.1
5. @ 5°F Max. Capacity	20,000
Standard Operating Range(°F/°C)	-4~86
1. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 47° DB/61° WB
2. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 17° DB/10° WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70° DB/61° WB Outdoor: 5° DB/1° WB

ELECTRICAL	
Indoor Power Supply	208/230V~1Ph-60Hz
Indoor MCA	4.0
Indoor MOP	6.0
Outdoor Power Supply	208/230V~1Ph-60Hz
Outdoor MCA	26.0
Outdoor MOP	26.0
Communication Wiring	AWG 20-2
Compressor RLA	10.0
Outdoor Fan Motor RLA	1.8
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	2.0
Indoor Fan Motor W	240
System Power Input @ Cooling (W)	1819
System Power Input @ Heating (W)	1957
MCA: Min. circuit amps (A)	MOP: Max. over current protection (W)
RLA: Rated load amps (A)	W: Max. motor name output (W)

PIPING	
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EEV
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	100
Max. Height Difference(ft/m)	50
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Piping Material	118.18 (3.25)
Additional Charge of Refrigerant(lb/ft³/m³)	0.54 (15.3)
Connection Method	Flared

**Indoor Unit Dimension**



**Table 2.1 Unit Dimension**

Model	Dimension-Inches (mm)				
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line / Suction Line
24K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
36K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
48K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]
60K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]

**VERTICAL UPWARD AIRFLOW**



**Table 3.1**

Model	Top Air Return	Left/Right Air Return
24K/36K	19-5/8 [500]	21 [533]
48K/60K	19-5/8 [500]	24-1/2 [623]

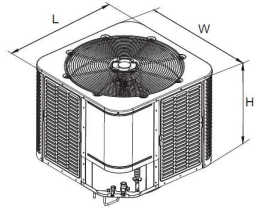
**VERTICAL DOWNWARD AIRFLOW**



**Table 3.2**

Model	Top Air Return	Left/Right Air Return
24K/36K	21-1/8 [544]	21-1/8 [544]
48K/60K	24-1/8 [617]	24-1/8 [617]

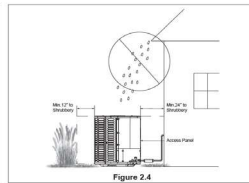
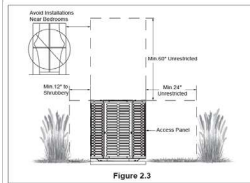
**Outdoor Unit Dimension**



Unit size	
Model	H x W x L (inches)
24/36K	25 x 29-1/7 x 29-1/7
48/60K	32-7/8 x 29-1/7 x 29-1/7

**Installation Instruction For Outdoor Unit**

- Make sure that the discharge area at least 10 inches above the top of the unit is unobstructed.
- Don't put the outdoor unit near the bedroom, because the normal operating sound may be offensive.
- Position the equipment leaving enough space for smooth airflow, wiring, refrigerant lines and maintenance.
- Keep a minimum of 12 in. clearance on one side of control board access panel by a wall and a minimum of 24 in. on the adjacent side of control board access panel.
- Keep a distance of 24 inches between adjacent units.
- Don't use the unit in a place where water, snow or ice cannot fall directly on the device from the roof or overhangs.
- See Figures 2.3 and 2.4.



Fan Performance For Indoor Unit

Table S.1 Air flow performance

Model size of air processor	Motor speed	SCFM											
		0 (0)	0.1 (0.2)	0.2 (0.5)	0.3 (0.7)	0.4 (1.0)	0.5 (1.2)	0.6 (1.5)	0.7 (1.7)	0.8 (2.0)	0.9 (2.0)	1.0 (2.0)	
24K	Tap (5)	SCFM	1193	1130	1072	1002	931	853	781	722	653		
		Watts	139	145	154	161	171	177	187	197	202		
	Tap (4)- default high fan	SCFM	1129	1060	998	920	850	766	693	622	573		
		Watts	117	122	132	139	148	155	164	170	180		
	Tap (3)	SCFM	1028	971	905	827	753	664	598	535	493		
		Watts	95	102	111	116	127	133	141	148	156		
	Tap (2)- Default low fan	SCFM	907	826	752	657	574	498	445	-	-		
		Watts	66	71	79	85	93	100	107	-	-		
	Tap (1)	SCFM	897	869	844	802	750	-	-	-	-		
		Watts	34	37	45	49	56	-	-	-	-		
30K	Tap (5)	SCFM	1491	1439	1390	1337	1290	1245	1197	1152	1093		
		Watts	250	256	266	273	284	297	309	317	327		
	Tap (4)- default high fan	SCFM	1357	1309	1260	1206	1158	1093	1018	960	890		
		Watts	193	205	209	220	231	239	251	262	268		
	Tap (3)	SCFM	1238	1184	1115	1049	1006	931	870	792	728		
		Watts	147	157	163	174	181	193	204	210	220		
	Tap (2)- Default low fan	SCFM	1116	1055	987	932	850	789	720	639	562		
		Watts	113	127	126	138	146	157	167	174	183		
	Tap (1)	SCFM	1061	937	851	762	692	599	536	472	432		
		Watts	108	84	96	104	113	119	128	134	142		
40K	Tap (5)	SCFM	2081	2047	2011	1974	1933	1894	1823	1768	1718		
		Watts	520	532	543	554	566	570	587	593	590		
	Tap (4)- default high fan	SCFM	1914	1874	1830	1787	1744	1703	1660	1609	1571		
		Watts	407	418	432	439	449	460	473	479	483		
	Tap (3)	SCFM	1766	1723	1675	1636	1598	1549	1491	1441	1399		
		Watts	317	327	337	349	358	367	378	388	403		
	Tap (2)- Default low fan	SCFM	1559	1514	1462	1406	1362	1318	1265	1203	1137		
		Watts	214	235	246	252	263	273	284	296	308		
	Tap (1)	SCFM	1370	1319	1271	1215	1164	1102	1035	950	882		
		Watts	159	180	179	185	195	207	219	229	239		
60K	Tap (5)	SCFM	2981	2947	2911	2874	2833	2804	2763	2718	2678		
		Watts	820	832	843	854	866	870	887	893	890		
	Tap (4)- default high fan	SCFM	2814	2774	2730	2687	2644	2603	2560	2509	2471		
		Watts	407	418	432	439	449	460	473	479	483		
	Tap (3)	SCFM	2666	2623	2575	2536	2498	2449	2391	2341	2299		
		Watts	317	327	337	349	358	367	378	388	403		
	Tap (2)- Default low fan	SCFM	2459	2414	2362	2306	2262	2218	2165	2103	2037		
		Watts	214	235	246	252	263	273	284	296	308		
	Tap (1)	SCFM	2270	2219	2171	2115	2064	1992	1925	1840	1772		
		Watts	159	180	179	185	195	207	219	229	239		

The highlighted area indicates the airflow within the required range of 300-450cfm/ton.

# SUBMITTAL DATA SHEET

Series Name: GTA  
Model Number: GQV3623A\_GA0382A



## Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION	
Indoor Air Flow Low/High (CFM)	750/1650
Indoor Noise Level Low/High (dBA)	49/52
Dimension (WxDxH)	19.55 x 22 x 45.34
Package (WxDxH)	500 x 560 x 1162
Package (WxDxH)	22.78 x 25.58 x 47.618
Package (WxDxH)	580 x 650 x 1210
NetGross Weight	130/143
	59/65

OUTDOOR SPECIFICATION	
Compressor Type	GMCC
Compressor Model	TTM4D43LFTB
Refrigerant	R454B
Refrigerant Oil Charge(L)	920
Refrigerant Oil	PCE VG74
Outdoor Air Flow (Max) (CFM)	3900
Outdoor Noise Level (Max) (dBA)	66
Dimension (WxDxH)	29.18 x 29.18 x 25
Package (WxDxH)	750 x 750 x 635
Package (WxDxH)	90 x 200 x 26
Package (WxDxH)	760 x 750 x 660
NetGross Weight	137/146
	62/66

EFFICIENCY			
Cooling	SEER2	Heating	HSPF2
SEER2	15.6	HSPF2	9.0
EER2	11.7	COP	2.10

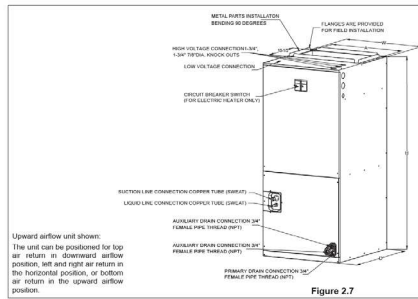
PERFORMANCE OF Cooling (Btu/h)	
Rated Capacity	34,000
Min/Max Capacity	15,600 / 36,000
Moisture Removal (L/h)	4.2
Standard Operating Range(°F)	5~124
Rated Cooling Conditions:	Indoor: 80° DB/67° WB Outdoor: 95° DB/70° WB

PERFORMANCE OF Heating (Btu/h)	
1. @ 47°F Rated	34,200
2. @ 47°F Min/Max Capacity	16,400 / 41,300
3. @ 17°F Rated	24,000
4. @ 17°F Rated Capacity/ COP	2.1
5. @ 17°F Max. Capacity	24,000
Standard Operating Range(°F/°C)	-4~86
1. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 47° DB/61° WB
2. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 17° DB/10° F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70° DB/61° WB Outdoor: 5° DB/1° WB

ELECTRICAL	
Indoor Power Supply	208/230V~1Ph-60Hz
Indoor MCA	4.0
Indoor MOP	6.0
Outdoor Power Supply	208/230V~1Ph-60Hz
Outdoor MCA	26.0
Outdoor MOP	26.0
Communication Wiring	AWG 20-2
Compressor RLA	12.8
Outdoor Fan Motor RLA	1.8
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	3.8
Indoor Fan Motor W	373
System Power Input @ Cooling (W)	2864
System Power Input @ Heating (W)	2927
MCA: Min. circuit amps (A)	MOP: Max. over current protection (W)
RLA: Rated load amps (A)	W: Max. motor name output (W)

PIPING	
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EEV
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	100
Max. Height Difference(ft/m)	50
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Piping Installation	115.16 (3.35)
Additional Charge of Refrigerant @ 47°F(oz/g)	0.54 (15.3)
Connection Method	Flared

**Indoor Unit Dimension**



**Table 2.1 Unit Dimension**

Model	Dimension-Inches (mm)				
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line / Suction Line
24K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
36K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
48K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]
60K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]

**VERTICAL UPWARD AIRFLOW**



**Table 3.1**

Model	Top Air Return	Left/Right Air Return
24K/36K	19-5/8 [500]	21 [533]
48K/60K	19-5/8 [500]	24-1/2 [623]

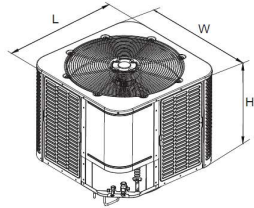
**VERTICAL DOWNWARD AIRFLOW**



**Table 3.2**

Model	Top Air Return	Left/Right Air Return
24K/36K	19-5/8 [500]	21 [533]
48K/60K	24-1/2 [623]	24-1/2 [623]

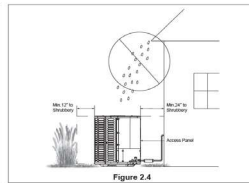
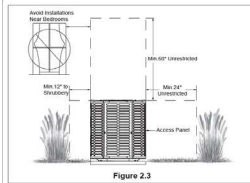
**Outdoor Unit Dimension**



Unit size	
Model	H x W x L (inches)
24/36K	25 x 29-1/7 x 29-1/7
48/60K	32-7/8 x 29-1/7 x 29-1/7

**Installation Instruction For Outdoor Unit**

- Make sure that the discharge area at least 10 inches above the top of the unit is unobstructed.
- Don't put the outdoor unit near the bedroom, because the normal operating sound may be offensive.
- Position the equipment leaving enough space for smooth airflow, wiring, refrigerant lines and maintenance.
- ● Provide a minimum of 12 in. clearance on one side of control board access panel by a wall and a minimum of 24 in. on the adjacent side of control board access panel.
- ● Provide a distance of 24 inches between adjacent units.
- ● Don't use the unit in a place where water, snow or ice cannot fall directly on the device from the roof or overhangs.
- ● See Figures 2.3 and 2.4.



Fan Performance For Indoor Unit

Table S.1 Air flow performance

Model size of air processor	Motor speed	SCFM									
		0 (0)	0.1 (0.2)	0.2 (0.5)	0.3 (0.7)	0.4 (1.0)	0.5 (1.2)	0.6 (1.5)	0.7 (1.7)	0.8 (2.0)	0.9 (2.0)
24K	Tap (5)	SCFM	1193	1130	1072	1002	931	853	781	722	653
		Watts	139	145	154	161	171	177	187	197	202
	Tap (4)- default high fan	SCFM	1129	1060	998	920	850	766	693	622	573
		Watts	117	122	132	139	148	155	164	170	180
	Tap (3)	SCFM	1028	971	905	827	753	664	598	535	493
		Watts	95	102	111	116	127	133	141	148	156
	Tap (2)- Default low fan	SCFM	907	826	752	657	574	498	445	-	-
		Watts	66	71	79	85	93	100	107	-	-
	Tap (1)	SCFM	897	869	844	802	750	-	-	-	-
		Watts	34	37	45	49	56	-	-	-	-
30K	Tap (5)	SCFM	1491	1439	1390	1337	1290	1245	1197	1152	1093
		Watts	250	256	266	273	284	297	309	317	327
	Tap (4)- default high fan	SCFM	1357	1309	1260	1206	1158	1093	1018	960	890
		Watts	193	205	209	220	231	239	251	262	268
	Tap (3)	SCFM	1238	1184	1115	1049	1006	931	870	792	728
		Watts	147	157	163	174	181	193	204	210	220
	Tap (2)- Default low fan	SCFM	1116	1055	987	932	850	789	720	639	562
		Watts	113	127	126	138	146	157	167	174	183
	Tap (1)	SCFM	1061	957	851	762	692	599	536	472	432
		Watts	108	84	96	104	113	119	128	134	142
40K	Tap (5)	SCFM	2081	2047	2011	1974	1933	1894	1823	1768	1718
		Watts	520	532	543	554	566	570	587	593	590
	Tap (4)- default high fan	SCFM	1914	1874	1830	1787	1744	1703	1660	1609	1571
		Watts	407	418	432	439	449	460	473	479	483
	Tap (3)	SCFM	1766	1723	1675	1636	1598	1549	1491	1441	1399
		Watts	317	327	337	349	358	367	378	388	403
	Tap (2)- Default low fan	SCFM	1559	1514	1462	1406	1362	1318	1265	1203	1137
		Watts	214	235	246	252	263	273	284	296	308
	Tap (1)	SCFM	1370	1319	1271	1215	1164	1102	1035	950	882
		Watts	159	180	179	185	195	207	219	229	239
60K	Tap (5)	SCFM	2981	2947	2911	2874	2833	2804	2823	2768	2718
		Watts	720	732	743	754	766	770	787	793	790
	Tap (4)- default high fan	SCFM	2814	2774	2730	2687	2644	2603	2560	2509	2471
		Watts	407	418	432	439	449	460	473	479	483
	Tap (3)	SCFM	2666	2623	2575	2536	2498	2449	2391	2341	2299
		Watts	317	327	337	349	358	367	378	388	403
	Tap (2)- Default low fan	SCFM	2459	2414	2362	2306	2262	2218	2165	2103	2037
		Watts	214	235	246	252	263	273	284	296	308
	Tap (1)	SCFM	2270	2219	2171	2115	2064	1992	1925	1840	1772
		Watts	159	180	179	185	195	207	219	229	239

The highlighted area indicates the airflow within the required range of 300-450cfm/ton.

# SUBMITTAL DATA SHEET

Series Name: GTA  
Model Number: 50V02D2AJ, 50V02A



## Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION	
Indoor Air Flow Low/High (CFM)	1180/1550
Indoor Noise Level Low/High (dBA)	50/50
Dimension (WxDxH)	22 x 24.125 x 53.118
Package (WxDxH)	560 x 620 x 1350
Package (WxDxH)	25-114 x 28 x 54.334
Package (WxDxH)	640 x 710 x 1390
NetGross Weight	169/182
	kg
	77/83

OUTDOOR SPECIFICATION	
Compressor Type	GMCC
Compressor Model	TTG040D1UMJA
Refrigerant	R454B
Refrigerant Oil Charge(L)	1300
Refrigerant Oil	PCE VG74
Outdoor Air Flow (Max) (CFM)	4400
Outdoor Noise Level (Max) (dBA)	68
Dimension (WxDxH)	29-118 x 29-118 x 33
Package (WxDxH)	750 x 750 x 835
Package (WxDxH)	30 x 30 x 34.12
Package (WxDxH)	760 x 760 x 875
NetGross Weight	187/196
	kg
	85/89

EFFICIENCY			
Seasonal	17.5	Heating	9.0
SEER2	11.3	HSPFL4	2.10
EER2		COP	

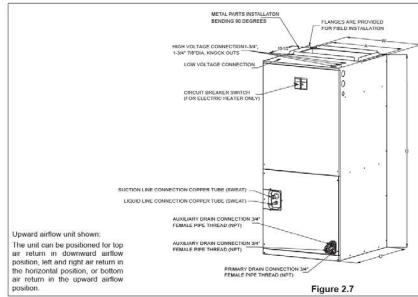
PERFORMANCE OF COOLING	
Rated Capacity	47,500
Min/Max Capacity	21,800 / 52,000
Moisture Removal (L/h)	5.12
Standard Operating Range (°F)	5-124
Rated Cooling Conditions:	Indoor: 80° DB/67° WB Outdoor: 95° DB/70° WB

PERFORMANCE OF HEATING	
Rated Capacity	48,000
1. @ 47°F Rated	23,000 / 58,000
2. @ 47°F Min/Max Capacity	40,000
3. @ 17°F Rated	2.1
4. @ 17°F Rated Capacity/COP	34,200
5. @ 17°F Max. Capacity	4-86
Standard Operating Range (°F/°C)	
1. Rated Heating Conditions:	Indoor: 70° DB/60° WB Outdoor: 47° DB/60° WB
2. Rated Heating Conditions:	Indoor: 70° DB/60° WB Outdoor: 17° DB/10° WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70° DB/60° WB Outdoor: 5° DB/1° WB

ELECTRICAL	
Indoor Power Supply	208/230V-1PH-60Hz
Indoor MCA	5.8
Indoor MOP	10.0
Outdoor Power Supply	208/230V-1PH-60Hz
Outdoor MCA	25.0
Outdoor MOP	35.0
Communication Wiring	AWG 20-2
Compressor RLA	15.8
Outdoor Fan Motor RLA	1.8
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	5.4
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	4145
System Power Input @ Heating (W)	3560
MCA: Min. circuit amps (A)	MOP: Max. over current protection (W)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING	
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EEV
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	100
Max. Height Difference(ft/m)	50
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(lb/kg)	155.2 (69.0)
Additional Charge of Refrigerant(lb/ft³/kg)	0.54 (15.3)
Connection Method	Flared

**Indoor Unit Dimension**



**Table 2.1 Unit Dimension**

Model	Dimension-Inches (mm)				
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line / Suction Line
24K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
36K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
48K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]
60K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]

**VERTICAL UPWARD AIRFLOW**

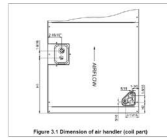


Table 3.1

Model	H (inches)	W (inches)	D (inches)
24K/36K	45-3/4 [1162]	19-5/8 [500]	22 [560]
48K/60K	53-1/8 [1350]	22 [560]	24-1/2 [623]

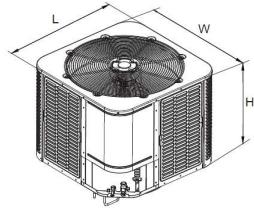
**VERTICAL DOWNWARD AIRFLOW**



Table 3.2

Model	H (inches)	W (inches)	D (inches)
24K/36K	45-3/4 [1162]	19-5/8 [500]	22 [560]
48K/60K	53-1/8 [1350]	22 [560]	24-1/2 [623]

**Outdoor Unit Dimension**



Unit size	
Model	H x W x L (inches)
24/36K	25 x 29-1/7 x 29-1/7
48/60K	32-7/8 x 29-1/7 x 29-1/7

**Installation Instruction For Outdoor Unit**

- Make sure that the discharge area at least 180 inches above the top of the unit is unobstructed.
- Don't put the outdoor unit near the bedroom, because the normal operating sound may be offensive.
- Position the equipment leaving enough space for smooth airflow, wiring, refrigerant lines and maintenance.
- ● Provide a minimum of 12 in. clearance on one side of control board access panel by a wall and a minimum of 24 in. on the adjacent side of control board access panel.
- ● Provide a distance of 24 inches between adjacent units.
- ● Don't use the unit in a place where water, snow or ice cannot fall directly on the device from the roof or overhangs.
- ● See Figures 2.3 and 2.4.

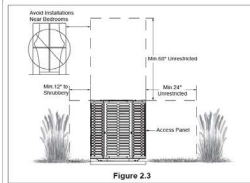


Figure 2.3

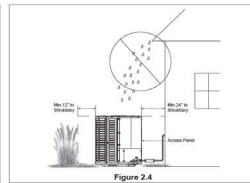


Figure 2.4

Fan Performance For Indoor Unit

Table S.1 Air flow performance

Model size of air processor	Motor speed	SCFM										
		0 (0)	0.1 (0.2)	0.2 (0.5)	0.3 (0.7)	0.4 (1.0)	0.5 (1.2)	0.6 (1.5)	0.7 (1.7)	0.8 (2.0)	0.9 (2.0)	1.0 (2.0)
24K	Tap (5)	SCFM	1193	1130	1072	1002	931	853	781	722	653	
		Watts	139	145	154	161	171	177	187	197	202	
	Tap (4)- default high fan	SCFM	1129	1060	998	920	850	766	693	622	573	
		Watts	117	122	132	139	148	155	164	170	180	
	Tap (3)	SCFM	1028	971	905	827	753	664	598	535	493	
		Watts	95	102	111	116	127	133	141	148	156	
	Tap (2)- Default low fan	SCFM	907	826	752	657	574	498	445	-	-	
		Watts	66	71	79	85	93	100	107	-	-	
	Tap (1)	SCFM	897	869	844	802	750	-	-	-	-	
		Watts	34	37	45	49	56	-	-	-	-	
30K	Tap (5)	SCFM	1491	1439	1390	1337	1290	1245	1197	1152	1093	
		Watts	250	256	266	273	284	297	309	317	327	
	Tap (4)- default high fan	SCFM	1357	1309	1260	1206	1158	1093	1018	960	890	
		Watts	193	205	209	220	231	239	251	262	268	
	Tap (3)	SCFM	1238	1184	1115	1049	1006	931	870	792	728	
		Watts	147	157	163	174	181	193	204	210	220	
	Tap (2)- Default low fan	SCFM	1116	1055	987	932	850	789	720	639	562	
		Watts	113	127	126	138	146	157	167	174	183	
	Tap (1)	SCFM	1061	957	851	762	692	599	536	472	432	
		Watts	108	84	96	104	113	119	128	134	142	
40K	Tap (5)	SCFM	2081	2047	2011	1974	1933	1894	1823	1768	1718	
		Watts	520	532	543	554	566	570	587	593	590	
	Tap (4)- default high fan	SCFM	1914	1874	1830	1787	1744	1703	1660	1609	1571	
		Watts	407	418	432	439	449	460	473	479	483	
	Tap (3)	SCFM	1766	1723	1675	1636	1598	1549	1491	1441	1392	
		Watts	317	327	337	349	358	367	378	388	403	
	Tap (2)- Default low fan	SCFM	1559	1514	1462	1406	1362	1318	1265	1203	1137	
		Watts	214	235	246	252	263	273	284	296	308	
	Tap (1)	SCFM	1370	1319	1271	1215	1164	1102	1035	950	882	
		Watts	159	180	179	185	195	207	219	229	239	
60K	Tap (5)	SCFM	2981	2947	2911	2874	2833	2804	2823	2768	2718	
		Watts	720	732	743	754	766	770	787	793	790	
	Tap (4)- default high fan	SCFM	2814	2774	2730	2687	2644	2603	2560	2509	2471	
		Watts	407	418	432	439	449	460	473	479	483	
	Tap (3)	SCFM	2666	2623	2575	2536	2498	2449	2391	2341	2292	
		Watts	317	327	337	349	358	367	378	388	403	
	Tap (2)- Default low fan	SCFM	2459	2414	2362	2306	2262	2218	2165	2103	2037	
		Watts	214	235	246	252	263	273	284	296	308	
	Tap (1)	SCFM	2270	2219	2171	2115	2064	1992	1925	1840	1772	
		Watts	159	180	179	185	195	207	219	229	239	

The highlighted area indicates the airflow within the required range of 300-450cfm/ton.

# SUBMITTAL DATA SHEET

Series Name: GTA  
Model Number: 50V02D2A\_GA002A



## Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION	
Indoor Air Flow Low/High (CFM)	1180/1550
Indoor Noise Level Low/High (dBA)	50/50
Dimension (WxDxH)	22 x 24.125 x 53.118
Package (WxDxH)	560 x 620 x 1350
Package (WxDxH)	25-114 x 28 x 54.334
Package (WxDxH)	640 x 710 x 1390
NetGross Weight	169/182
	77/83

OUTDOOR SPECIFICATION	
Compressor Type	GMCC
Compressor Model	TT040D1UMJA
Refrigerant	R454B
Refrigerant Oil Charge(L)	1300
Refrigerant Oil	PCE VG74
Outdoor Air Flow (Max) (CFM)	4400
Outdoor Noise Level (Max) (dBA)	68
Dimension (WxDxH)	29-118 x 29-118 x 33
Package (WxDxH)	750 x 750 x 835
Package (WxDxH)	30 x 30 x 34.12
Package (WxDxH)	760 x 760 x 875
NetGross Weight	187/196
	85/90

EFFICIENCY			
Cooling	SEER2	17.0	HSPFL4
Heating	EER2	10.0	COP
			2.10

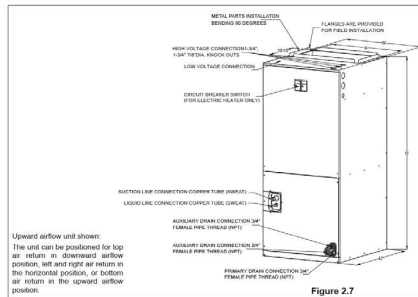
PERFORMANCE OF COOLING	
Rated Capacity	55,500
Min/Max Capacity	22,500 / 60,000
Moisture Removal (L/h)	7.07
Standard Operating Range (°F)	5-124
Rated Cooling Conditions:	Indoor: 80° DB/67° WB Outdoor: 95° DB/70° WB

PERFORMANCE OF HEATING	
Rated Capacity	57,000
1. @ 47°F Rated	27,400 / 68,800
2. @ 47°F Min/Max Capacity	42,000
3. @ 17°F Rated	2.1
4. @ 17°F Rated Capacity/COP	42,500
5. @ 17°F Max. Capacity	4-86
Standard Operating Range (°F/°C)	
1. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 47° DB/41° WB
2. Rated Heating Conditions:	Indoor: 70° DB/61° WB Outdoor: 17° DB/10° F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70° DB/61° WB Outdoor: 57° DB/51° WB

ELECTRICAL	
Indoor Power Supply	208/230V-1Ph-60Hz
Indoor MCA	5.0
Indoor MOP	10.0
Outdoor Power Supply	208/230V-1Ph-60Hz
Outdoor MCA	38.0
Outdoor MOP	40.0
Communication Wiring	AWG 20-2
Compressor RLA	20
Outdoor Fan Motor RLA	1.8
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	5.4
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	5549
System Power Input @ Heating (W)	4500
MCA Min. circuit amps (A)	MOP: Max. over current protection (W)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING	
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EEV
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	100
Max. Height Difference(ft/m)	50
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(lb/kg)	153.2 (64.0)
Additional Charge of Refrigerant(lb/kg)	0.54 (5.3)
Connection Method	Flared

**Indoor Unit Dimension**



**Table 2.1 Unit Dimension**

Model	Dimension-Inches (mm)				
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line / Suction Line
24K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
36K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5][19]
48K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]
60K	53-1/8 [1350]	22 [560]	24 -1/2 [623]	19-1/2 [496]	3/8 / 7/8 [9.5][22]

**VERTICAL UPWARD AIRFLOW**



Table 3.1

Model	H (inches)	W (inches)	D (inches)
24K/36K	45-3/4 [1162]	19-5/8 [500]	22 [560]
48K/60K	53-1/8 [1350]	22 [560]	24-1/2 [623]

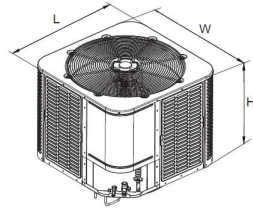
**VERTICAL DOWNWARD AIRFLOW**



Table 3.2

Model	H (inches)	W (inches)	D (inches)
24K/36K	45-3/4 [1162]	19-5/8 [500]	22 [560]
48K/60K	53-1/8 [1350]	22 [560]	24-1/2 [623]

**Outdoor Unit Dimension**



Unit size	
Model	H x W x L (inches)
24/36K	25 x 29-1/7 x 29-1/7
48/60K	32-7/8 x 29-1/7 x 29-1/7

**Installation Instruction For Outdoor Unit**

- Make sure that the discharge area at least 180 inches above the top of the unit is unobstructed.
- Don't put the outdoor unit near the bedroom, because the normal operating sound may be offensive.
- Position the equipment leaving enough space for smooth airflow, wiring, refrigerant lines and maintenance.
- Keep a minimum of 12 in. clearance on one side of control board access panel by a wall and a minimum of 24 in. on the adjacent side of control board access panel.
- Keep a distance of 24 inches between adjacent units.
- Don't use the unit in a place where water, snow or ice cannot fall directly on the device from the roof or overhangs.
- See Figures 2.3 and 2.4.

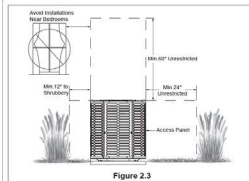


Figure 2.3

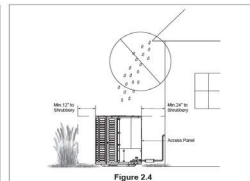


Figure 2.4

Fan Performance For Indoor Unit

Table S.1 Air flow performance

Model size of air processor	Motor speed	SCFM										
		0 (0)	0.1 (0.2)	0.2 (0.5)	0.3 (0.7)	0.4 (1.0)	0.5 (1.2)	0.6 (1.5)	0.7 (1.7)	0.8 (2.0)	0.9 (2.0)	1.0 (2.0)
24K	Tap (5)	SCFM	1193	1130	1072	1002	931	853	781	722	653	
		Watts	139	145	154	161	171	177	187	197	202	
	Tap (4)- default high fan	SCFM	1129	1060	998	920	850	766	693	622	573	
		Watts	117	122	132	139	148	155	164	170	180	
	Tap (3)	SCFM	1028	971	905	827	753	664	598	535	493	
		Watts	95	102	111	116	127	133	141	148	156	
	Tap (2)- Default low fan	SCFM	907	826	752	657	574	498	445	-	-	
		Watts	66	71	79	85	93	100	107	-	-	
	Tap (1)	SCFM	897	869	844	802	750	-	-	-	-	
		Watts	34	37	45	49	56	-	-	-	-	
30K	Tap (5)	SCFM	1491	1439	1390	1337	1290	1245	1197	1152	1093	
		Watts	250	256	266	273	284	297	309	317	327	
	Tap (4)- default high fan	SCFM	1357	1309	1260	1206	1158	1093	1018	960	890	
		Watts	193	205	209	220	231	239	251	262	268	
	Tap (3)	SCFM	1238	1184	1115	1049	1006	931	870	792	728	
		Watts	147	157	163	174	181	193	204	210	220	
	Tap (2)- Default low fan	SCFM	1116	1055	987	932	850	789	720	639	562	
		Watts	113	127	126	138	146	157	167	174	183	
	Tap (1)	SCFM	1061	937	851	762	692	599	536	472	432	
		Watts	108	84	96	104	113	119	128	134	142	
40K	Tap (5)	SCFM	2081	2047	2011	1974	1933	1894	1823	1768	1718	
		Watts	520	532	543	554	566	570	587	593	590	
	Tap (4)- default high fan	SCFM	1914	1874	1830	1787	1744	1703	1660	1609	1571	
		Watts	407	418	432	439	449	460	473	479	483	
	Tap (3)	SCFM	1766	1723	1675	1636	1598	1549	1491	1441	1392	
		Watts	317	327	337	349	358	367	378	388	403	
	Tap (2)- Default low fan	SCFM	1559	1514	1462	1408	1362	1318	1265	1203	1137	
		Watts	214	235	246	252	263	273	284	296	308	
	Tap (1)	SCFM	1370	1319	1271	1215	1164	1102	1035	950	882	
		Watts	159	180	179	185	195	207	219	229	239	
60K	Tap (5)	SCFM	2981	2947	2911	2874	2833	2804	2763	2708	2718	
		Watts	720	732	743	754	766	770	787	793	790	
	Tap (4)- default high fan	SCFM	2814	2774	2730	2687	2644	2603	2560	2499	2511	
		Watts	407	418	432	439	449	460	473	479	483	
	Tap (3)	SCFM	2666	2623	2575	2536	2498	2449	2391	2341	2292	
		Watts	317	327	337	349	358	367	378	388	403	
	Tap (2)- Default low fan	SCFM	2459	2414	2362	2308	2262	2218	2165	2103	2037	
		Watts	214	235	246	252	263	273	284	296	308	
	Tap (1)	SCFM	2270	2219	2171	2115	2064	1992	1925	1840	1772	
		Watts	159	180	179	185	195	207	219	228	239	

The highlighted area indicates the airflow within the required range of 300-450cfm/ton.