


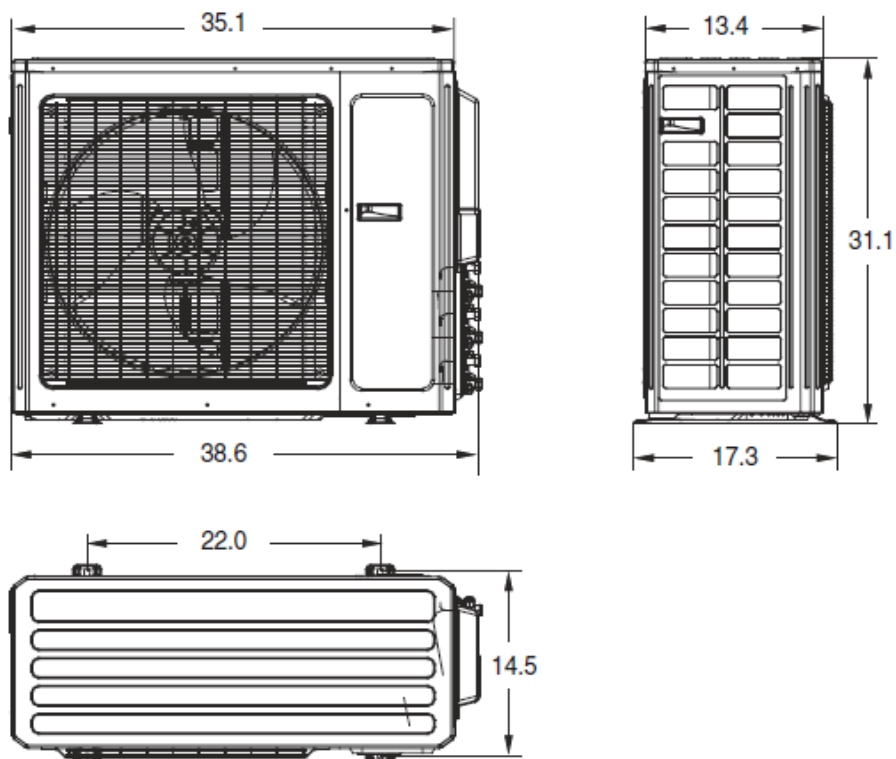
Submittal Data: TM24H40		24,000 BTU/H Wall Mounted Heat- Pump System	
Job Name		Location	
Purchaser		Date	
Submitted To		Engineer	
Submitted To		For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction	
Unit Designation		Schedule No.	
GENERAL FEATURES -Up to 3 Indoor Units (3-Port) -EnergyStar Rated -G10 DC Inverter Technology -Quiet Operation - Both Indoor & Outdoor -Acrylic Resin/Anti-Corrosion Coil Protection Inside & Out -Intelligent Defrost -Auto Restart on Power Outages -Mulit-point Diagnostics -Limited 5 yr Parts Warranty, 7 yr Compressor Warranty			
System Ratings		Outdoor Unit Data	
Non-Ducted Indoor Rated Cooling Capacity 24,000 BTUH Cooling Capacity (min-max) 7,500-33,000 BTUH Rated Heating Capacity 26,000 BTUH Heating Capacity (min-max) 7,500-35,000 BTUH SEER/EER 21.0/12.5 HSPF/COP 11.0/3.7 Ducted Indoor Rated Cooling Capacity 24,000 BUTH Cooling Capacity (min-max) 7,500-33,000 BTUH Rated Heating Capacity 26,000 BTUH Heating Capacity (min-max) 7,500-35,000 BTUH SEER/EER 16.0/10.5 HSPF/COP 8.5/3.2		Compressor Type DC Inverter Driven Rotary RLA 15.8 A Fan Motor Output Power 90 W FLA 0.6 A Air Flow (Max) 2354 CFM Sound Pressure Cooling 59 db(A) Heating 59 db(A) Dimensions & Weights Unit Dimensions (LxHxD) 38.6 x 31.1 x 17.3 -in Weight (Net/Shipping) 152.9/163.9 LBS Min. Number of Indoor Units 2 Max. Number of Indoor Units 3	
Operating Range Cooling (min-max) 0 ~ 118°F -18 ~ 48°C Heating (min-max) -4 ~ 75°F -20 ~ 24°C		Refrigerant Piping Data Refrigerant Type R410A Refrigerant Charge 77.6 oz Additional Charge Per Line Length 0.21-oz/ft Connection Method Fared Factory Charge for Total Line Length 98-ft Total Refrigerant Pipe Length 197-ft Max Refrigerant Piping Length to any Indoor Unit 65-ft Min Refrigerant Piping Length to any Indoor Unit 10-ft Max Elevation between Indoor Units 33-ft Max Lift from Outdoor to Indoor Unit 33-ft Max Drop from Outdoor to Indoor Unit 33-ft	
Power Supply Normal Operational Voltage 208/230 V, 1 Phase, 60 Hz Voltage Range 187 - 253 V Main Power Wire Size 10-2 AWG Interconnecting Cable Wire Size 14-4 AWG MCA 23.0 A MOCP/Breaker Size 30 A			



Units: inch

24,000 BTUH MODEL

Model # TM24H40 24,000 BTUH 230V


Suction/Gas Line Port Size

Port A	3/8-in OD Flared
Port B	3/8-in OD Flared
Port C	3/8-in OD Flared

Liquid Line Port Size

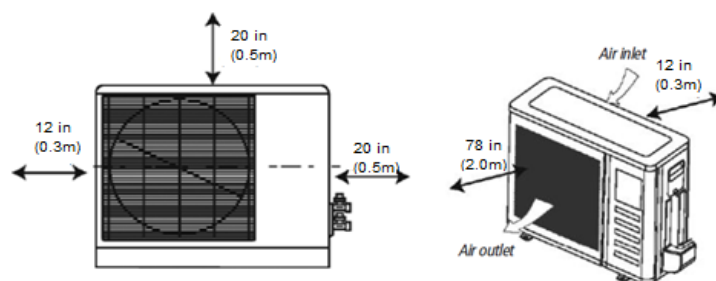
Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared

Factory Supplied Piping Adapters

Adapter	P/N	Qty
3/8 (F) to 1/2 (M)	6643008	2

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)


Notes:

1. Recommended Interconnecting Cable Type Stranded Copper Conductors THHN 600V Unshielded Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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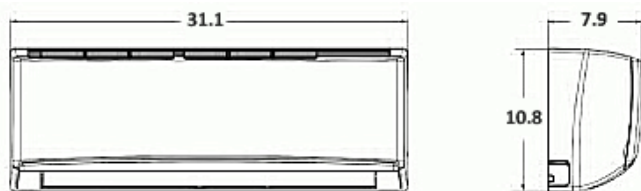
INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS

TM24H40

Units: inch

Entry Level Series - 9,000 BTUH 230V

9,000 BTUH MODEL



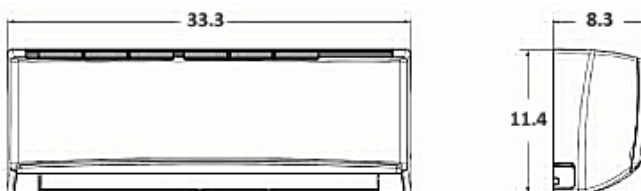
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000	9,500	318	1.7	28/43

Note: Size Refrigerant lines based on evaporator port sizes.

Entry Level Series- 12,000 BTUH 230V

12,000 BTUH MODEL



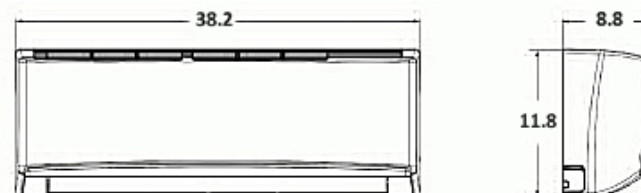
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
12,000	13,000	400	3.0	29/45

Note: Size Refrigerant lines based on evaporator port sizes.

Entry level Series- 18,000 BTUH 230V

18,000 BTUH MODEL



Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,000	471	3.8	35/46

Note: Size Refrigerant lines based on evaporator port sizes.

**Sound Power ratings are per AHRI 270 and AHRI 350

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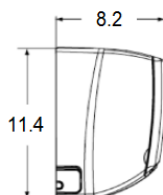
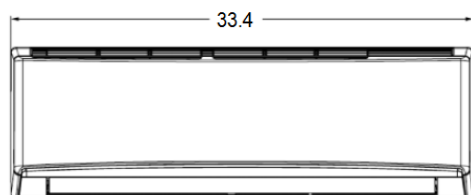
INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS

TM24H40

Units: inch

9,000 AND 12,000 BTUH MODELS

Mid Level Series - 9,000 BTUH 230V 12,000 BTUH 230V



9,000 BTU

Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

12,000 BTU

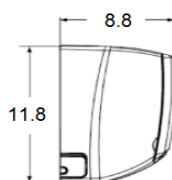
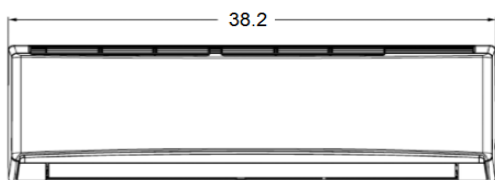
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Note: Size Refrigerant lines based on evaporator port sizes.

Indoor Capacity Size	Rated Cooling	Rated Heating	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000 BTUH	9,000	11,000	377	1.7	29/43
12,000 BTUH	12,000	13,000	400	3.0	29/45

18,000 BTUH MODEL

Mid level Series - 18,000 BTUH 230V



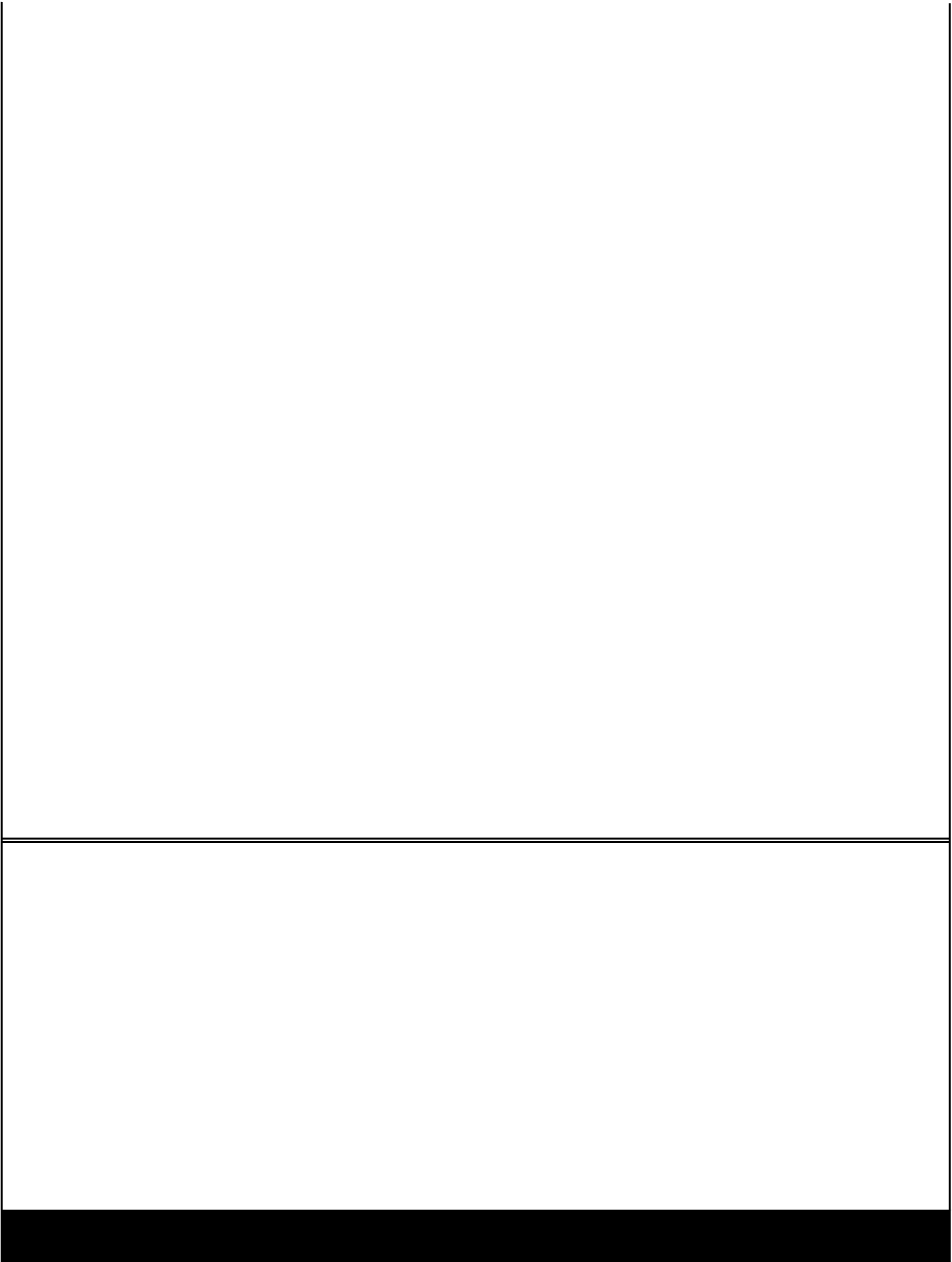
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,800	559	3.8	39/47

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COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	18,000	9,000	9,000	NA	NA
9K + 12K	21,000	9,000	12,000	NA	NA
9K + 18K	25,000	8,400	16,600	NA	NA
12K + 12K	24,000	12,000	12,000	NA	NA
12K + 18K	25,000	10,000	15,000	NA	NA
18K + 18K	25,500	12,750	12,750	NA	NA
9K + 9K + 9K	26,001	8,667	8,667	8,667	NA
9K + 9K + 12K	26,000	8,000	8,000	10,000	NA
9K + 9K + 18K	26,000	7,000	7,000	12,000	NA
9K + 12K + 12K	26,000	6,000	10,000	10,000	NA
12K + 12K + 12K	26,001	8,667	8,667	8,667	NA

HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	19,000	9,500	9,500	NA	NA
9K + 12K	22,500	9,500	13,000	NA	NA
9K + 18K	27,000	9,000	18,000	NA	NA
12K + 12K	26,000	13,000	13,000	NA	NA
12K + 18K	28,000	11,200	16,800	NA	NA
18K + 18K	28,500	14,250	14,250	NA	NA
9K + 9K + 9K	29,001	9,667	9,667	9,667	NA
9K + 9K + 12K	29,000	9,000	9,000	11,000	NA
9K + 9K + 18K	29,000	6,000	6,000	17,000	NA
9K + 12K + 12K	29,000	6,000	11,500	11,500	NA
12K + 12K + 12K	29,001	9,667	9,667	9,667	NA

Capacity data is based on the following conditions :

Cooling Nominal Test Conditions

Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

Heating Nominal Test Conditions

Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F W

EXTENDED RATINGS

TM24H40

Cooling Performance (BTU/h)									
	DB Outdoor Ambient Temperature (°F)	Indoor Enterring Air Temperature (DB/WB)							
		68°F/57°F		73°F/61°F		80°F/67°F		82°F/68°F	
		TC	SC	TC	SC	TC	SHC	TC	SC
	0	18,403	14,433	19,578	15,349	22,395	17,565	22,843	17,916
	5	18,972	14,883	20,183	15,823	23,088	18,112	23,780	18,656
	14	19,963	15,657	21,090	16,534	23,802	18,668	24,761	19,418
	23	20,443	16,036	21,866	17,152	25,054	19,651	26,136	20,500
	32	21,669	16,992	23,301	18,271	26,373	20,680	27,797	21,797
	41	23,050	18,076	24,785	19,437	27,761	21,770	29,704	23,294
50	22,834	17,909	24,552	19,257	27,217	21,347	29,394	23,055	
59	22,778	17,864	24,363	19,107	26,683	20,922	29,128	22,845	
68	23,040	18,070	24,480	19,197	26,160	20,517	28,080	22,025	
77	22,115	17,348	23,497	18,431	25,647	20,117	27,479	21,552	
86	21,600	16,939	23,037	18,071	25,144	19,720	26,940	21,127	
95	21,044	16,505	22,515	17,653	24,651	19,335	26,911	21,107	
104	20,289	15,913	21,770	17,076	24,326	19,083	26,224	20,567	
113	19,764	15,499	21,254	16,663	23,810	18,670	25,708	20,163	
115	19,248	15,095	20,730	16,258	23,294	18,265	25,192	19,758	

Heating Performance (BTU/h)				
	DB Outdoor Ambient Temperature (°F)	Indoor Enterring Air Temperature (DB)		
		68°F	73°F	80°F
		TC	TC	TC
-4		19,802	19,469	19,112
0		21,457	21,100	20,695
6		22,636	22,255	21,838
10		23,577	23,184	22,743
16		24,291	23,887	23,422
19		24,756	24,351	23,875
24		26,287	25,890	25,446
32		27,031	26,665	26,257
41		27,813	27,486	27,102
43		28,562	28,226	27,851
47		29,896	29,378	28,786
53		30,192	29,665	29,073
59		30,886	30,340	29,730
64		31,543	30,988	30,368
70		32,135	31,580	30,941
75		32,588	32,014	31,376

LEGEND

DB --- Dry Bulb
WB --- Wet Bulb

TC --- Total Net Cooling Capacity (BtuH)
SC --- Sensible Capacity (BtuH)
Input Power---(Watts)

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