



### Submittal Data: MULTI42HP230V1CO 42,000 BTU/H Wall Mounted Heat- Pump System

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For	<input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.	

- GENERAL FEATURES**
- Only One Unit Required
  - Up to Five Indoor Units (5-Port)
  - G10 DC Inverter Technology
  - Quiet Operation - Both Indoor & Outdoor
  - Acrylic Resin Coil Coating
  - Intelligent Defrost
  - Auto Restart on Power Outages
  - Mulit-point Diagnostics
  - Limited 5 yr Parts / 7 yr Compressor Warranty



AHRI Certified Ref No: 9956418 (non-ducted) & 9956595 (ducted)

#### System Ratings

<b>Non-Ducted Indoor</b>	
Rated Cooling Capacity	39,000 BTUH
Cooling Capacity (min-max)	8,871-40,944 BTUH
AHRI High Heat Capacity @ 47°F	45,000 BTUH
AHRI Low Heat Capacity @ 17°F	29,000 BTUH
Heating Capacity (min-max)	8,871-46,062 BTUH
SEER/EER	21/10.4
HSPF/COP	10.2/3.6
<b>Ducted Indoor</b>	
Rated Cooling Capacity	39,500 BTUH
Cooling Capacity (min-max)	13,800-42,800 BTUH
AHRI High Heat Capacity @ 47°F	46,500 BTUH
AHRI Low Heat Capacity @ 17°F	28,000 BTUH
Heating Capacity (min-max)	7,500-47,000 BTUH
SEER/EER	14.7/9.8
HSPF	9.6

#### Operating Range

Cooling	(min-max)	0 ~ 118°F
		-18 ~ 48°C
Heating	(min-max)	-5 ~ 86°F
		-21 ~ 30°C

#### Power Supply

Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	8-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	24.0 A
MOCP/Breaker Size	40 A

#### Outdoor Unit Data

<b>Compressor</b>	Type	DC Inverter Driven Rotary
	RLA	17.8 A
<b>Fan Motor</b>	Output Power	170 W
	FLA	0.8 A
	Air Flow (Max)	4,531 CFM
<b>Sound Pressure Level</b>		
	Cooling	61 db(A)
	Heating	61 db(A)
<b>Dimensions &amp; Weights</b>		
	Unit Dimensions (LxHxD)	42.5 x 43.4 x 17.3 -in
	Weight (Net/Shipping)	198.0/216.0 LBS
	Min. Number of Indoor Units	1
	Max. Number of Indoor Units	5

#### Refrigerant Piping Data

Refrigerant Type	R410A
Refrigerant Charge	128.8
Additional Charge Per Line Length	0.21-oz/ft
Connection Method	Flared
Factory Charge for Total Line Length	131-ft
Total Refrigerant Pipe Length	246-ft
Max Refrigerant Piping Length to any Indoor Unit	82-ft
Min Refrigerant Piping Length to any Indoor Unit	10-ft
Max Elevation between Indoor Units	25-ft
Max Lift from Outdoor to Indoor Unit	49-ft
Max Drop from Outdoor to Indoor Unit	49-ft



SYSTEM FEATURES	
Inverter Type	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Inverter Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Condenser Fan	Axial
Condenser Motor Type	DC
Condenser Motor Drive	Direct
Condenser Coil	Aluminum Fin/Copper Tube
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Low Ambient Cooling	YES
XK19 Wired Controller Interface	YES

<b>REMOTE CONTROLLER FUNCTIONS</b>	See individual Indoor Unit Controllers Functions
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XK19 WIRED CONTROLLER FUNCTIONS*	
On/Off	YES
Operating Mode	YES
Fan Speed	YES
Room Setpoint	YES
Model Numbers	YES
Timer Mode	YES
Sleep Mode	YES
Turbo Mode	YES
X-Fan Mode	YES
Privacy Lock	YES

\*Note: Some indoor models may not support specific system features or functions.

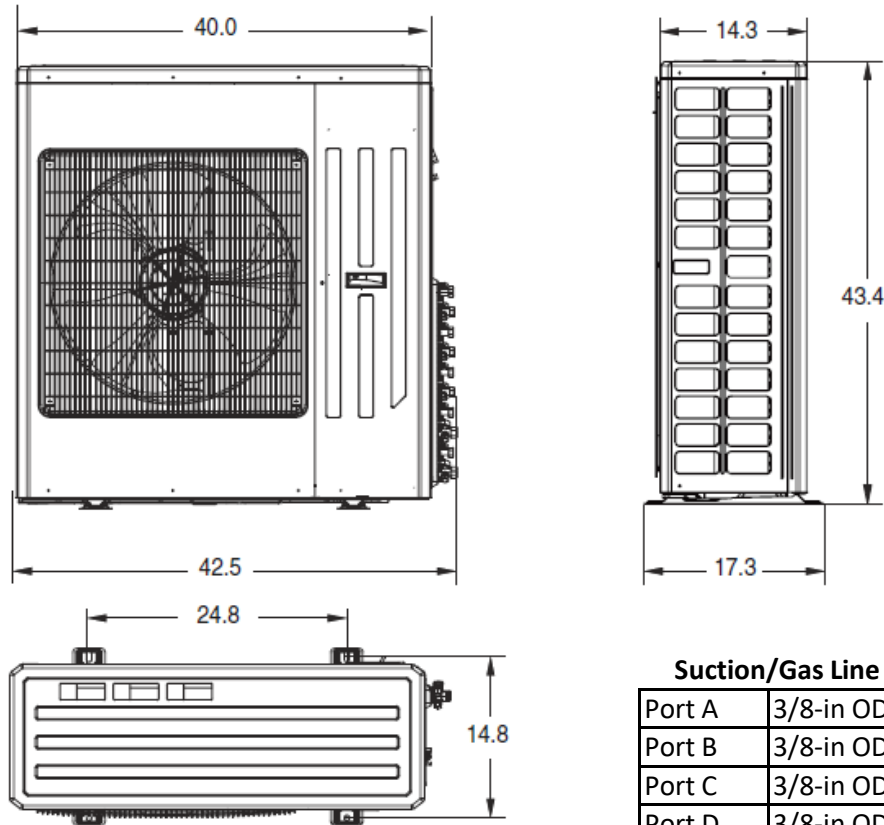
# OUTDOOR UNIT DIMENSIONAL SPECIFICATIONS

# MULTI42HP230V1CO

Units: inch

## 42,000 BTUH MODEL

Model # MULTI42HP230V1CO 42,000 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
Port D	3/8-in OD Flared
Port E	3/8-in OD Flared

Weight (Net/Shipping) 198.0/216.0 LBS

### Factory Supplied Piping Adapters

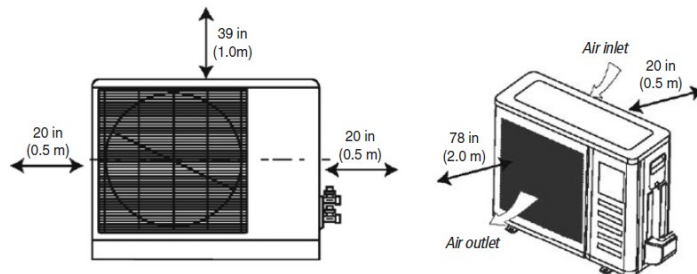
Adapter	P/N	Qty
3/8 (F) to 5/8 (M)	6654100009	3
3/8 (F) to 1/2 (M)	6654100013	4
1/4 (F) to 3/8 (M)	6654104	2

### 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
Port D	1/4-in OD Flared
Port E	1/4-in OD Flared

## MINIMUM SPACING REQUIREMENTS

Units: inch (m)



### 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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**OPERATIONAL PERFORMANCE SPECIFICATIONS**

**MULTI42HP230V1CO**

**COOLING CAPACITY (BTUH)**

	<b>Indoor Units Combinations</b>	<b>Rated System Capacity (BtuH)</b>	<b>Indoor Unit A (BtuH)</b>	<b>Indoor Unit B (BtuH)</b>	<b>Indoor Unit C (BtuH)</b>	<b>Indoor Unit D (BtuH)</b>	<b>Indoor Unit E (BtuH)</b>
1 UNIT	9	9000	9,000	<b>Only one unit required for system to operate. Use data below when additional units are added.</b>			
	12	12000	12,000				
	18	18000	18,000				
	24	24000	24,000				
2 UNITS	9+9	17060	8530	8530	NA	NA	NA
	9+12	20472	8530	11942	NA	NA	NA
	9+18	24225	7506	16719	NA	NA	NA
	9+24	27296	6824	20472	NA	NA	NA
	12+12	20472	10236	10236	NA	NA	NA
	12+18	27296	10577	16719	NA	NA	NA
	12+24	32414	10236	22178	NA	NA	NA
	18+18	32414	16207	16207	NA	NA	NA
	18+24	32755	13989	18766	NA	NA	NA
	24+24	32414	16207	16207	NA	NA	NA
3 UNITS	9+9+9	24567	8189	8189	8189	NA	NA
	9+9+12	24566	6994	7336	10236	NA	NA
	9+9+18	32414	8018	8018	16378	NA	NA
	9+9+24	35485	8189	8189	19107	NA	NA
	9+12+12	29684	8530	10577	10577	NA	NA
	9+12+18	35485	8530	10918	16037	NA	NA
	9+12+24	39578	7847	9553	22178	NA	NA
	9+18+18	37191	7165	15013	15013	NA	NA
	9+18+24	39579	6824	13648	19107	NA	NA
	9+24+24	39580	5800	16890	16890	NA	NA
	12+12+12	35484	11771	11771	11942	NA	NA
	12+12+18	35484	10918	10918	13648	NA	NA
	12+12+24	39579	10065	10065	19449	NA	NA
	12+18+18	39579	9553	15013	15013	NA	NA
	12+18+24	39580	9042	14160	16378	NA	NA
	12+24+24	39580	8530	15525	15525	NA	NA
	18+18+18	39579	13136	13136	13307	NA	NA
18+18+24	39579	12283	12283	15013	NA	NA	

**OPERATIONAL PERFORMANCE SPECIFICATIONS (CON'T) MULTI42HP230V1CO**

**COOLING CAPACITY (BTUH)**

4 UNITS	9+9+9+9	35,484	8,871	8,871	8,871	8,871	NA
	9+9+9+12	35,485	8,189	8,189	8,189	10,918	NA
	9+9+9+18	39,578	7,847	7,847	7,847	16,037	NA
	9+9+9+24	39,579	6,824	6,824	6,824	19,107	NA
	9+9+12+12	35,484	7,165	7,165	10,577	10,577	NA
	9+9+12+18	39,579	6,824	6,824	10,577	15,354	NA
	9+9+12+24	39,749	6,312	6,312	9,553	17,572	NA
	9+9+18+18	39,580	6,483	6,483	13,307	13,307	NA
	9+9+18+24	39,579	6,141	6,141	10,407	16,890	NA
	9+12+12+12	39,578	7,847	10,577	10,577	10,577	NA
	9+12+12+18	39,578	7,165	8,700	8,700	15,013	NA
	9+12+12+24	39,580	6,483	7,933	7,933	17,231	NA
	9+12+18+18	39,580	6,483	8,189	12,454	12,454	NA
	9+12+18+24	44,229	6,483	8,189	12,454	17,103	NA
	9+18+18+18	39,580	5,800	11,260	11,260	11,260	NA
	12+12+12+12	39,580	9,895	9,895	9,895	9,895	NA
	12+12+12+18	39,578	8,359	8,359	8,359	14,501	NA
	12+12+12+24	39,578	7,506	7,506	7,506	17,060	NA
12+12+18+18	39,578	7,847	7,847	11,942	11,942	NA	
5 UNITS	9+9+9+9+9	31,664	7,916	7,916	7,916	7,916	7,916
	9+9+9+9+12	29,684	7,421	7,421	7,421	7,421	9,895
	9+9+9+9+18	27,296	6,824	6,824	6,824	6,824	12,283
	9+9+9+9+24	25,932	6,483	6,483	6,483	6,483	13,648
	9+9+9+12+12	30,537	7,165	7,165	7,165	9,042	9,042
	9+9+9+12+18	27,723	6,483	6,483	6,483	8,274	11,857
	9+9+9+12+24	27,545	6,450	6,450	6,450	8,195	13,506
	9+9+9+18+18	29,514	6,483	6,483	6,483	10,065	10,065
	9+9+12+12+12	30,708	6,483	6,483	8,871	8,871	8,871
	9+9+12+12+18	27,798	5,971	5,791	8,018	8,018	11,601
	9+12+12+12+12	31,305	6,483	8,274	8,274	8,274	8,274
	9+12+12+12+18	28,917	6,141	7,592	7,592	7,592	10,662
12+12+12+12+12	31,664	7,916	7,916	7,916	7,916	7,916	

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.

Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

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**OPERATIONAL PERFORMANCE SPECIFICATIONS**

**MULTI42HP230V1CO**

**HEATING CAPACITY (BTUH)**

	<b>Indoor Units Combinations</b>	<b>Rated System (BtuH)</b>	<b>Indoor Unit A (BtuH)</b>	<b>Indoor Unit B (BtuH)</b>	<b>Indoor Unit C (BtuH)</b>	<b>Indoor Unit D (BtuH)</b>	<b>Indoor Unit E (BtuH)</b>
1 UNIT	9	9,500	9,500	<b>Only one unit required for system to operate. Use data below when additional units are added.</b>			
	12	13,000	13,000				
	18	18,500	18,500				
	24	23,600	23,600				
2 UNITS	9+9	25590	10662	14928	NA	NA	NA
	9+12	25590	10662	14928	NA	NA	NA
	9+18	30282	9383	20899	NA	NA	NA
	9+24	34121	8530	25591	NA	NA	NA
	12+12	25590	12795	12795	NA	NA	NA
	12+18	34121	13222	20899	NA	NA	NA
	12+24	40518	12795	27723	NA	NA	NA
	18+18	37722	18861	18861	NA	NA	NA
	18+24	40945	17487	23458	NA	NA	NA
24+24	40522	20261	20261	NA	NA	NA	
3 UNITS	9+9+9	24567	8189	8189	8189	NA	NA
	9+9+12	24566	6994	7336	10236	NA	NA
	9+9+18	32414	8018	8018	16378	NA	NA
	9+9+24	35485	8189	8189	19107	NA	NA
	9+12+12	29684	8530	10577	10577	NA	NA
	9+12+18	35485	8530	10918	16037	NA	NA
	9+12+24	39578	7847	9553	22178	NA	NA
	9+18+18	37191	7165	15013	15013	NA	NA
	9+18+24	39579	6824	13648	19107	NA	NA
	9+24+24	39580	5800	16890	16890	NA	NA
	12+12+12	35484	11771	11771	11942	NA	NA
	12+12+18	35484	10918	10918	13648	NA	NA
	12+12+24	39579	10065	10065	19449	NA	NA
	12+18+18	39579	9553	15013	15013	NA	NA
	12+18+24	39580	9042	14160	16378	NA	NA
	12+24+24	39580	8530	15525	15525	NA	NA
18+18+18	39579	13136	13136	13307	NA	NA	
18+18+24	39579	12283	12283	15013	NA	NA	

**OPERATIONAL PERFORMANCE SPECIFICATIONS (CON'T)**

**MULTI42HP230V1CO**

**HEATING CAPACITY (BTUH)**

4 UNITS	9+9+9+9	44356	11089	11089	11089	11089	NA
	9+9+9+12	44356	10236	10236	10236	13648	NA
	9+9+9+18	45034	8929	8929	8928	18248	NA
	9+9+9+24	45040	7766	7766	7766	21742	NA
	9+9+12+12	44356	8956	8956	13222	13222	NA
	9+9+12+18	45043	7766	7766	12038	17473	NA
	9+9+12+24	45230	7182	7182	10871	19995	NA
	9+9+18+18	45040	7377	7377	15143	15143	NA
	9+9+18+24	45039	6988	6988	11843	19220	NA
	9+12+12+12	45043	8929	12038	12038	12038	NA
	9+12+12+18	45043	8155	9902	9902	17084	NA
	9+12+12+24	45042	7377	9028	9028	19609	NA
	9+12+18+18	45035	7377	9318	14170	14170	NA
	9+12+18+24	49545	7377	9318	14170	18680	NA
	9+18+18+18	45035	6599	12812	12812	12812	NA
	12+12+12+12	45040	11260	11260	11260	11260	NA
	12+12+12+18	45040	9513	9513	9513	16501	NA
	12+12+12+24	45035	8540	8540	8540	19415	NA
12+12+18+18	45036	8928	8928	13590	13590	NA	
9+9+9+9+9	36,032	9008	9008	9008	9008	9008	
9+9+9+9+12	33,780	8445	8445	8445	8445	11260	
9+9+9+9+18	31,064	7766	7766	7766	7766	13979	
9+9+9+9+24	29,508	7377	7377	7377	7377	15532	
9+9+9+12+12	134,756	8155	8155	8155	110291	10291	
9+9+9+12+18	31,545	7377	7377	7377	9414	13491	
9+9+9+12+24	31,460	7368	7368	7368	9356	16523	
9+9+9+18+18	33,585	7377	7377	7377	11454	11454	
9+9+12+12+12	34,946	7377	7377	10096	10096	10096	
9+9+12+12+18	31,834	6793	6793	9124	9124	13201	
9+12+12+12+12	35,619	7377	9414	9414	9414	9414	
9+12+12+12+18	32,905	6988	8639	8639	8639	12133	
12+12+12+12+12	36,032	9008	9008	9008	9008	9008	

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.

Heating Nominal Test Conditions: Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB

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**COOLING PERFORMANCE**

DB WB		Indoor Ambient Temperature											
		70°F (21°C)			75°F (24°C)			80°F (27°C)			90°F (32°C)		
		59°F (15°C)			63°F (17°C)			67°F (19°C)			73°F (23°C)		
	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-0.4°F (-18°C)	23,610	18,510	1,620	26,630	20,890	1,710	28,140	22,070	1,780	31,720	24,870	1,900
	5°F (-15°C)	24,210	18,990	1,620	27,310	21,420	1,730	29,220	22,910	1,780	32,520	25,510	1,900
	14°F (-10°C)	24,880	19,510	1,630	28,070	22,020	1,730	29,670	23,270	1,800	33,440	26,220	1,920
	23°F (-5°C)	27,260	21,380	1,630	31,060	24,360	1,730	33,410	26,200	1,780	36,750	28,820	1,910
	32°F (0°C)	28,654	22,475	1,629	32,641	25,603	1,725	32,329	26,323	1,785	38,639	29,478	1,915
	41°F (5°C)	30,124	23,627	1,713	34,315	26,916	1,813	33,987	27,673	1,877	40,621	30,989	2,014
	50°F (10°C)	31,379	24,612	1,784	35,745	28,038	1,889	35,403	28,826	1,955	42,313	32,281	2,098
	59°F (15°C)	33,060	25,930	1,880	37,660	29,540	1,990	37,300	30,370	2,060	44,580	34,010	2,210
	68°F (20°C)	33,012	29,754	1,980	33,575	29,396	1,990	37,499	32,125	2,000	44,870	34,138	2,210
	77°F (25°C)	35,213	29,174	2,480	37,977	30,965	2,685	41,389	33,541	2,820	47,804	34,463	2,515
	86°F (30°C)	36,510	29,037	3,650	38,540	31,238	3,555	43,334	34,121	3,600	48,572	35,333	3,280
	95°F (35°C)	33,780	29,344	3,635	36,612	31,801	3,485	40,809	33,780	3,590	41,406	33,814	3,555
	104°F (40°C)	29,481	27,297	3,600	33,831	30,931	3,645	34,974	32,586	3,670	37,875	32,722	3,735
	113°F (45°C)	23,203	22,486	2,750	25,779	24,567	2,775	28,662	26,683	2,800	29,856	28,031	2,830
118°F (48°C)	16,795	16,508	1,988	18,255	17,668	2,101	19,381	18,528	2,158	20,531	19,749	2,204	

**HEATING PERFORMANCE**

DB WB		Indoor Ambient Temperature											
		70°F (21°C)			75°F (24°C)			80°F (27°C)			90°F (32°C)		
		59°F (15°C)			63°F (17°C)			67°F (19°C)			73°F (23°C)		
	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-5°F (-21°C)	22,950	22,950	2,070	22,300	22,300	2,120	21,870	21,870	2,190	21,320	21,320	2,240
	0°F (-18°C)	24,880	24,880	2,280	24,160	24,160	2,320	23,710	23,710	2,410	23,080	23,080	2,470
	5°F (-15°C)	26,240	26,240	2,380	25,490	25,490	2,430	25,010	25,010	2,520	24,360	24,360	2,580
	7°F (-14°C)	27,350	27,350	2,450	26,550	26,550	2,500	26,040	26,040	2,590	25,370	25,370	2,650
	17°F (-8°C)	28,170	28,170	2,480	27,350	27,350	2,530	26,830	26,830	2,630	26,120	26,120	2,690
	28°F (-2°C)	31,820	31,820	2,650	30,990	30,990	2,700	30,100	30,100	2,800	29,740	29,740	2,860
	38°F (3°C)	39,560	39,560	3,040	38,730	38,730	3,110	37,850	37,850	3,220	37,480	37,480	3,290
	47°F (8°C)	44,720	44,720	3,170	43,360	43,360	3,230	42,500	42,500	3,350	41,330	41,330	3,430
	57°F (14°C)	46,190	46,190	3,230	44,800	44,800	3,290	43,910	43,910	3,410	42,690	42,690	3,490
	68°F (20°C)	48,080	48,080	3,340	46,620	46,620	3,410	45,690	45,690	3,530	44,430	44,430	3,620
	77°F (25°C)	49,190	49,190	3,420	47,710	47,710	3,490	46,750	46,750	3,620	45,460	45,460	3,700

**LEGEND**

- DB --- Dry Bulb
- WB --- Wet Bulb
- TC --- Total Net Cooling Capacity (BtuH)
- SC --- Sensible Capacity (BtuH)
- Input Power---(Watts)

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