

Submittal Data: MULTI36HP230V1AO 36,000 BTU/H Wall Mounted Heat- Pump System

Job Name _____ Location _____ Date _____

Purchaser _____ Engineer _____

Submitted To _____ For Reference Approval Construction

Unit Designation _____ Schedule No. _____

- GENERAL FEATURES**
- Up to 4 Indoor Units Comfort (4-Port)
 - G10 DC Inverter Technology
 - Quiet Operation - Both Indoor & Outdoor
 - Wireless Remote Controller
 - Optional Wired Remote Controller
 - Gold Fin Coil Coating
 - Intelligent Defrost
 - Auto Restart on Power Outages
 - Limited 7 yr Compressor & 5 yr Parts Warranty



System Ratings

Cooling	
Rated Capacity	34,000 BTU/H
Capacity Range	8,530-34,120 BTU/H
Power Input (Max)	4,300 W
SEER	16
EER	7.9

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	21.0 A
Fan Motor	Output Power	120 W
	FLA	0.7 A
	Air Flow (Max)	2,177 CFM

Heating at 47° F	
Rated Capacity	35,800 BTU/H
Capacity Range	10,662-40,944 BTU/H
Input Power (Max)	3,600 W
HSPF	8.2
COP	2.9

Sound Pressure	
Cooling	59 db(A)
Heating	59 db(A)

Heating at 17° F	
Rated Capacity	22,000 BTU/H
Capacity (Max)	26,505 BTU/H

Dimensions & Weights	
Unit Dimensions (LxHxD)	39.1 x 31.0 x 16.8 -in
Weight (Net/Shipping)	153/165 LBS

Min. Number of Indoor Units	2
Max. Number of Indoor Units	4

Operating Range		
Cooling	(Max)	118°F (48 C)
	(Min)	23°F (-5 C)
Heating	(Max)	80°F (27 C)
	(Min)	5°F (-15 C)

Refrigerant Piping Data

Connection Method	Flared
Refrigerant Type	R410A
Factory Charge for Total Line Length	131-ft
Additional Charge Per Line Length	0.2-oz/ft
Total Refrigerant Pipe Length	230-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	50-ft
Max Lift from Outdoor to Indoor Unit	82-ft
Max Lift from Outdoor to Indoor Unit	82-ft

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	28.0 A
MOCP/Breaker Size	45 A









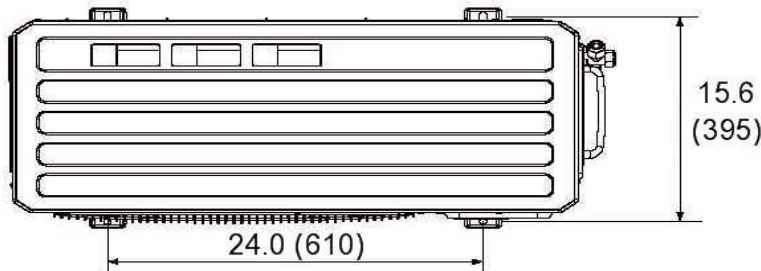
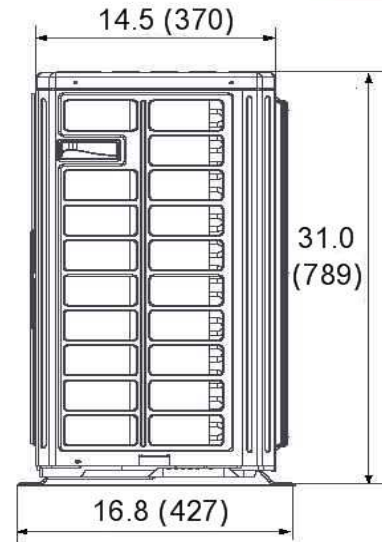
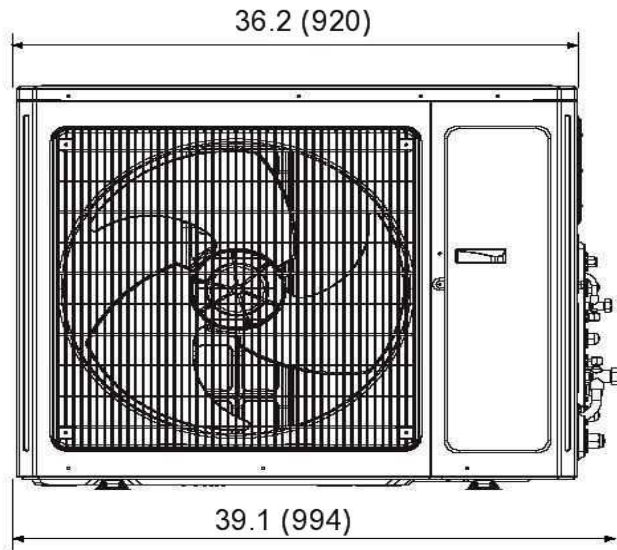


Units: inch (mm)



36,000 BTUH MODEL

Model # MULTI36HP230V1AO 36,000 BTUH 230V



Suction/Gas Line Port Size

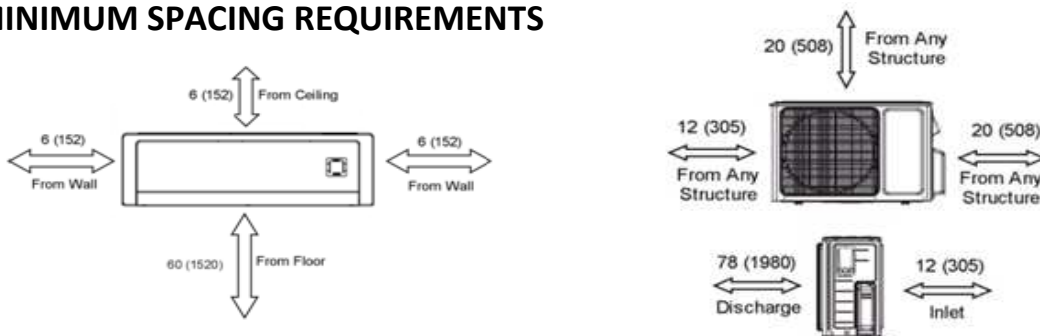
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared
Port #3	1/2-in OD Flared
Port #4	5/8-in OD Flared

Liquid Line Port Size

Port #1	1/4-in OD Flared
Port #2	1/4-in OD Flared
Port #3	1/4-in OD Flared
Port #4	3/8-in OD Flared

MINIMUM SPACING REQUIREMENTS

its: inch (mm)



Notes:

1. Recommended Interconnecting Cable Type Stranded Bare 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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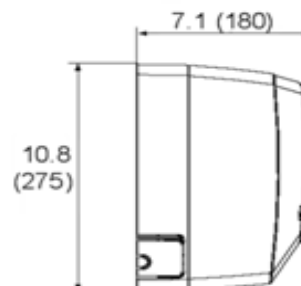
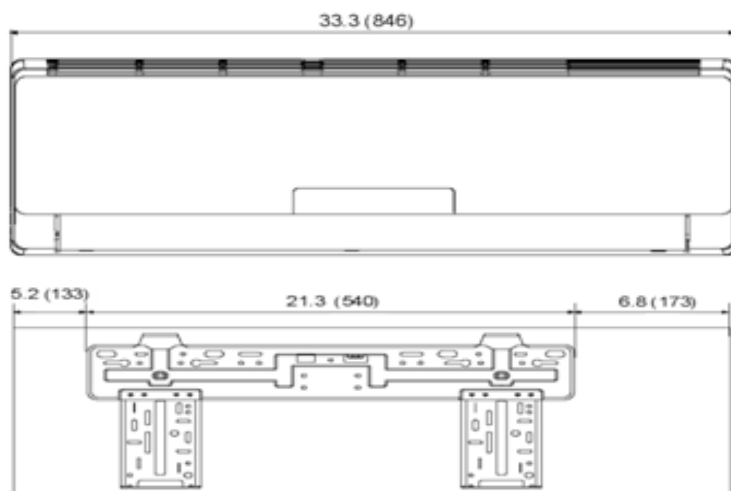
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Units: inch (mm)

9,000 AND 12,000 BTUH MODELS



Model # NEO09HP230VAA-H or GWH09MB-D3DNA3D/I 9,000 BTUH 230V
 Model # NEO12HP230VAA-H or GWH12MB-D3DNA3D/I 12,000 BTUH 230V



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

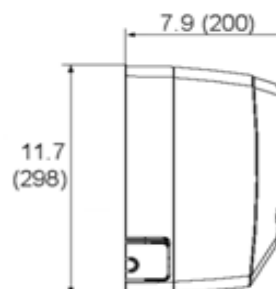
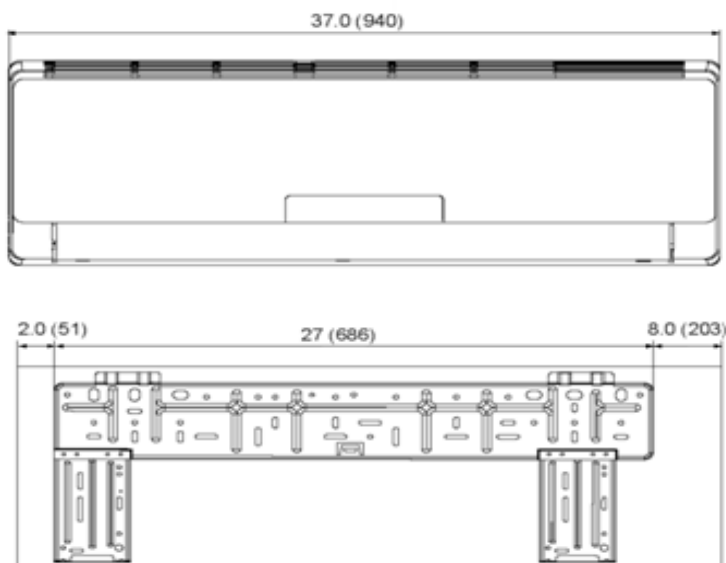
Note: Size Refrigerant lines based on evaporator port sizes.

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	20	330	26/41
12,000 BTUH	20	341	28/42

Units: inch (mm)

18,000 BTUH MODEL

Model # NEO18HP230VAA-H or GWH18MC-D3DNA3D/I 18,000 BTUH 230V



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	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	20	500	35/46



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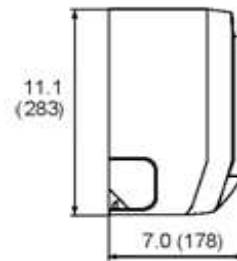
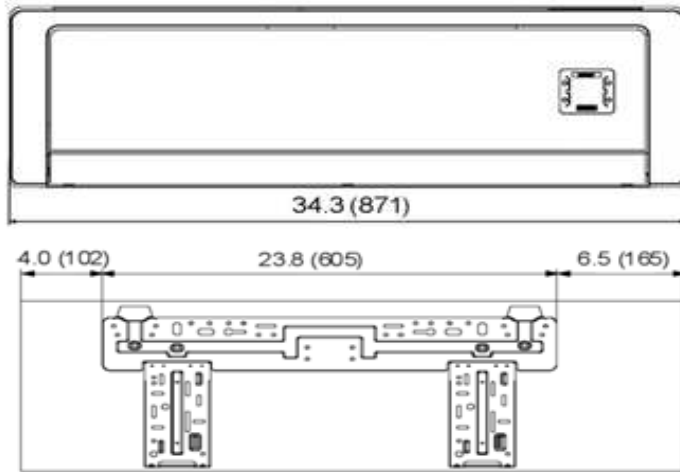
**Sound Power ratings are per AHRI 270 and AHRI 350

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Units: inch (mm)

9,000 AND 12,000 BTUH MODELS

Model # GWH09AB-D3DNA2D/I 9,000 BTUH 230V
 Model # GWH12AB-D3DNA2D/I 12,000 BTUH 230V



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

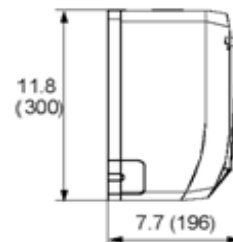
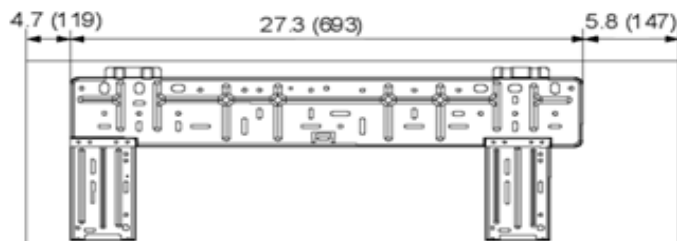
Note: Size Refrigerant lines based on evaporator port sizes.

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	10	341	28/46
12,000 BTUH	10	353	28/46

Units: inch (mm)

18,000 BTUH MODEL

Model # GWH18AC-D3DNA2D/I 18,000 BTUH 230V



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	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	20	488	35/46



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

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COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Capacity Rating (Min.~Max.) (1) (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K+9K	17,060	10,236~26,614	8,530	8,530		
9K+12K	20,472	10,236~27,297	8,530	12,283		
9K+18K	24,226	10,236~31,391	7,506	16,719		
9K+24K (2)	27,297	10,236~31,391	6,824	20,472		
12K+12K	20,472	10,236~31,391	10,236	10,236		
12K+18K	27,297	10,236~32,415	10,577	13,648		
12K+24K (2)	27,297	10,236~32,415	10,236	17,060		
18K+18K	27,297	10,236~32,415	13,648	13,648		
18K+24K (2)	27,297	10,236~32,415	12,283	15,354		
24K +24K (2)	27,297	10,236~32,415	13,648	13,648		
9K+9K+9K	24,567	10,236~30,709	8,189	8,189	8,189	
9K+9K+12K	24,567	10,236~30,709	6,994	7,336	10,236	
9K+9K+18K	29,685	10,236~32,756	7,165	7,165	15,354	
9K+9K+24K (2)	29,685	10,236~32,756	6,312	6,312	17,060	
9K+12K+12K	29,685	10,236~32,756	7,506	11,089	11,089	
9K+12K+18K	29,685	10,236~32,756	6,141	10,065	13,477	
9K+12K+24K (2)	29,685	10,236~32,756	5,459	8,018	16,207	
9K+18K+18K	29,685	10,236~32,756	5,971	11,771	11,771	
9K+18K+24K (2)	29,685	10,236~32,756	5,459	9,042	15,184	
12K+12K+12K	29,685	10,236~32,756	9,895	9,895	9,895	
12K+12K+18K	29,685	10,236~32,756	8,530	8,530	12,624	
12K+12K+24K (2)	29,685	10,236~32,756	7,506	7,506	14,672	
12K+18K+18K	29,685	10,236~32,756	9,212	12,283	12,283	
18K+18K+18K	29,685	10,236~32,756	9,895	9,895	9,895	
9K+9K+9K+9K	33,438	10,236~34,121	8,359	8,359	8,359	8,359
9K+9K+9K+12K	33,438	10,236~34,121	7,506	7,506	7,506	10,918
9K+9K+9K+18K	33,438	10,236~34,121	6,824	6,824	6,824	12,283
9K+9K+9K+24K (2)	33,438	10,236~34,121	6,141	6,141	6,141	15,013
9K+9K+12K+12K	33,438	10,236~34,121	6,824	6,824	9,895	9,895
9K+9K+12K+18K	33,438	10,236~34,121	6,312	6,312	8,871	12,283
9K+9K+18K+18K	33,438	10,236~34,121	5,459	5,459	11,260	11,260
9K+12K+12K+12K	33,438	10,236~34,121	7,847	8,530	8,530	8,530
9K+12K+12K+18K	33,438	10,236~34,121	6,141	7,506	7,506	12,283
12K+12K+12K+12K	33,438	10,236~34,121	8,359	8,359	8,359	8,359

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.
- 2) 24K size is reserved for Ceiling Cassettes, Concealed Ducts, and Floor/Ceilings units only. Not Wall Mount units.

Cooling Nominal Test Conditions

Indoor: 80°F DB/67°F WB

Outdoor: 95°F DB/75°F WB



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HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Capacity Rating (Min. ~ Max.) (1) (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K+9K	22,178	15,354~29,003	11,089	11,089		
9K+12K	26,614	15,354~32,756	11,089	15,968		
9K+18K	31,494	15,354~33,780	9,758	21,735		
9K+24K (2)	32,756	15,354~33,780	8,189	24,567		
12K+12K	26,614	15,354~33,780	13,307	13,307		
12K+18K	32,756	15,354~33,780	12,693	16,378		
12K+24K (2)	32,756	15,354~33,780	12,283	20,472		
18K+18K	32,756	15,354~33,780	16,378	16,378		
18K+24K (2)	32,756	15,354~33,780	14,740	18,425		
24K +24K (2)	32,756	15,354~33,780	16,378	16,378		
9K+9K+9K	27,024	15,354~33,780	9,008	9,008	9,008	
9K+9K+12K	27,024	15,354~33,780	7,694	8,069	11,260	
9K+9K+18K	35,622	15,354~37,533	8,598	8,598	18,425	
9K+9K+24K (2)	35,622	15,354~37,533	7,574	7,574	20,472	
9K+12K+12K	35,622	15,354~37,533	9,008	13,307	13,307	
9K+12K+18K	35,622	15,354~37,533	7,370	12,078	16,173	
9K+12K+24K (2)	35,622	15,354~37,533	6,551	9,622	19,449	
9K+18K+18K	35,622	15,354~37,533	7,165	14,126	14,126	
9K+18K+24K (2)	35,622	15,354~37,533	6,551	10,850	18,220	
12K+12K+12K	35,622	15,354~37,533	11,874	11,874	11,874	
12K+12K+18K	35,622	15,354~37,533	10,236	10,236	15,149	
12K+12K+24K (2)	35,622	15,354~37,533	9,008	9,008	17,606	
12K+18K+18K	35,622	15,354~37,533	11,055	14,740	14,740	
18K+18K+18K	35,622	15,354~37,533	11,874	11,874	11,874	
9K+9K+9K+9K	40,126	15,354~40,945	10,031	10,031	10,031	10,031
9K+9K+9K+12K	40,126	15,354~40,945	9,008	9,008	9,008	13,102
9K+9K+9K+18K	40,126	15,354~40,945	8,189	8,189	8,189	14,740
9K+9K+9K+24K (2)	40,126	15,354~40,945	7,370	7,370	7,370	18,016
9K+9K+12K+12K	40,126	15,354~40,945	8,189	8,189	11,874	11,874
9K+9K+12K+18K	40,126	15,354~40,945	7,574	7,574	10,645	14,740
9K+9K+18K+18K	40,126	15,354~40,945	6,551	6,551	13,512	13,512
9K+12K+12K+12K	40,126	15,354~40,945	9,417	10,236	10,236	10,236
9K+12K+12K+18K	40,126	15,354~40,945	7,370	9,008	9,008	14,740
12K+12K+12K+12K	40,126	15,354~40,945	10,031	10,031	10,031	10,031

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.
- 2) 24K size is reserved for Ceiling Cassettes, Concealed Ducts, and Floor/Ceilings units only. Not Wall Mount units.

Heating Nominal Test Conditions

Indoor: 70°F DB/60°F WB

Outdoor: 47°F DB/43°F W



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COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures (DB) 50% RH					
	62 F		67 F		72 F	
	TC	SHC	TC	SHC	TC	SHC
25 F	41,830	31,059	45,213	32,734	48,331	34,798
35 F	40,878	31,022	43,534	31,780	45,648	33,004
45 F	38,859	29,843	41,555	30,834	44,523	32,279
55 F	37,410	28,955	39,892	29,919	42,765	31,219
65 F	36,135	28,077	39,760	30,178	42,160	30,819
75 F	34,714	27,146	37,400	28,761	40,225	29,686
85 F	33,320	26,456	35,700	27,560	38,760	28,954
95 F	31,620	25,264	34,000	27,166	37,196	27,934
105 F	29,920	24,295	32,225	25,716	35,020	26,895
115 F	28,220	23,253	29,920	24,235	31,960	25,025

HEATING PERFORMANCE

Outdoor Ambient Temperature (DB) (80% RH)	Indoor Entering Air Temperatures (DB)					
	65 F		70 F		75 F	
	TC	SHC	TC	SHC	TC	SHC
5 F	26,628	26,628	25,131	25,131	24,515	24,515
15 F	28,463	28,463	25,967	25,967	25,811	25,811
25 F	30,200	30,200	28,664	28,664	27,033	27,033
35 F	31,886	31,886	29,513	29,513	28,275	28,275
45 F	33,552	33,552	32,414	32,414	30,450	30,450
55 F	33,597	33,597	32,414	32,414	31,198	31,198
65 F	33,438	33,438	32,949	32,949	31,934	31,934

TC- Total Capacity (BtuH)

SHC- Sensible Capacity (BtuH)



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