

Submittal Data: GWHD(18)ND3JO
Inverter Heat Pump System

Job Name		Location		Date	
Purchaser		Engineer			
Submitted To		For ☐ Reference ☐ Approval ☐ Construction			
Unit Designation		Schedule No.			
GENERAL FEATURES -Dual Indoor Units (2-Port) -G10 DC Inverter Technology - 2 Stage / 3 Cylinder -Automatic Defrosting -Compressor/Chassis Heaters -Copper Tubing w/ Acrylic-Resin Coated Aluminum Fins -Intelligent Defrost -Auto Restart on Power Outages -Mult-point Diagnostics					
			AHRI Certified Ref No's: 202557960, 206340206		
System Ratings			Outdoor Unit Data		
Rated Cooling Capacity 18,000 BTUH Cooling Capacity (min-max) 6,998-21,001 BTUH Rated Heating Capacity 21,000 BTUH Heating Capacity (min-max) 7,000-26,000 BTUH SEER/EER 23.0 / 12.5 HSPF/COP 10.5 / 3.6			Compressor Type DC Inverter Driven Rotary RLA 14.9 A Starting Current 5.0 A Fan Motor Output Power 90 W FLA 0.4 A Air Flow (Max) 2531 CFM		
Operating Range Cooling - Low/High Ambient (min-max) 0 ~ 118°F -18 ~ 48°C Heating - Low Ambient (ULTRA) (min-max) -31 ~ 75°F -35 ~ 24°C			Sound Pressure Level Cooling 58 dB(A) Heating 58 dB(A) Dimensions & Weights Unit Dimensions Overall (WxDxH)* 39.5 x 16.8 x 31.1-in * including Valve Covers and Grilles Weight (Net/Shipping) 172/183 lbs		
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 35 A			Refrigerant Piping Data Refrigerant Type R410A Refrigerant Charge 77.6 oz Additional Charge Per Line Length 0.2-oz/ft Connection Method-Flared 1/4x3/8-in Factory Charge for Total Line Length 66-ft Total Refrigerant Pipe Length 164-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 26-ft Max Lift from Outdoor to Indoor Unit 26-ft Max Drop from Outdoor to Indoor Unit 26-ft		

SYSTEM FEATURES	
Compressor Type	Inverter Rotary
Core Technology Three Cylinder Two Stage Compressor	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Refrigerant Type	R410A
Electronic Expansion Valve (EEV)	2
Basepan With Electric Heater	YES
Compressor Preheat	YES
Compressor With Electric Heater (-40°F)	YES
-40°F Wiring UL Approved	YES
Multi "Independent" Port Design	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
Ultra Heating (-31°F - 75°F)	YES
Ultra Cooling (0°F - 118°F)	YES
XK19 Wired Controller Interface	YES

REMOTE CONTROLLER FUNCTIONS¹

**See individual Indoor Unit
Controllers Functions**

¹ Not all Remote Controller functions are supported.

XK19 WIRED CONTROLLER FUNCTIONS ²	
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

² Note: Some indoor models may not support specific system features or functions.

DIMENSIONAL SPECIFICATIONS

GWHD(18)ND3JO

ULTRA HEAT

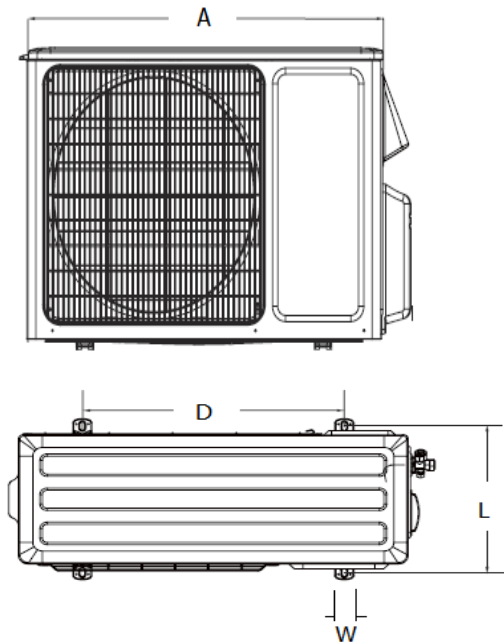
ULTRA COOL

18,000 BTUH MODEL

Model # GWHD(18)ND3JO 18,000 BTUH 230V

Units: inch

Units: inch



A (in)	36 1/4
B (in)	14 1/2
C (in)	31 1/8

D (in)	24.0
L (in)	15.6
W (in)	2.4

Weight (Net/Shipping)	172/183 lbs
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Suction/Gas Line Port Size

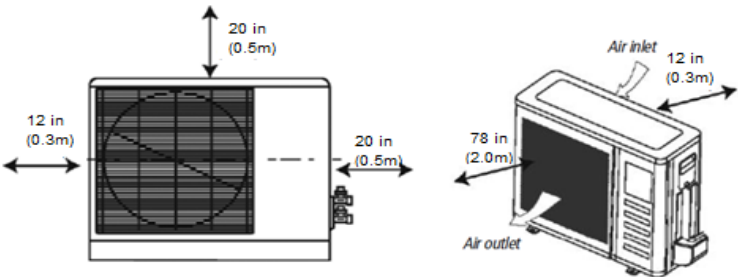
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared

Liquid Line Port Size

Port #1	1/4-in OD Flared
Port #2	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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EXTENDED RATINGS

GWHD(18)ND3JO

ULTRA COOL

COOLING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB) °F	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°F WB		61°F WB		67°F WB	
	TC	SHC	TC	SHC	TC	SHC
0°F	11182	8769	11822	9262	13018	10214
5°F	11573	9076	12235	9586	13473	10571
14°F	12122	9507	12806	10040	14453	11336
23°F	13281	10418	14206	11143	16277	12766
32°F	14113	11069	14909	11693	16826	13193
41°F	14620	11467	15440	12109	17644	13835
50°F	14875	11666	15910	12478	18230	14294
59°F	16106	12631	17227	13510	18867	14793
68°F	18240	14306	19380	15197	20710	16243
77°F	18025	14139	19171	15037	20520	16096
86°F	17138	13440	18278	14338	19950	15647
95°F	16220	12721	17353	13607	19000	14902
104°F	15434	12105	16562	12991	18506	14517
113°F	15035	11791	16169	12676	18113	14203

ULTRA HEAT

HEATING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures								
	68°F DB			73°F DB			80°F DB		
	57°F WB			61°F WB			67°F WB		
	TC	Power Input (KW)	COP	TC	Power Input (KW)	COP	TC	Power Input (KW)	COP
-31°F	16500	4.80	1.01	16300	4.65	1.03	15900	4.63	1.01
-22°F	18902	4.89	1.13	18401	4.94	1.09	18030	4.95	1.07
-13°F	20698	4.96	1.22	20160	5.01	1.18	19762	5.02	1.15
-5°F	22479	3.28	2.01	21906	3.32	1.93	21482	3.43	1.84
0°F	22148	3.34	1.94	21565	3.38	1.87	21130	3.49	1.78
5°F	22251	3.17	2.06	21672	3.21	1.98	21245	3.31	1.88
10°F	22498	3.20	2.06	21913	3.24	1.98	21475	3.34	1.88
17°F	22072	3.18	2.03	21492	3.22	1.96	21053	3.32	1.86
19°F	21778	2.97	2.15	21478	3.01	2.09	21036	3.10	1.99
24°F	21108	3.08	2.01	20856	3.11	1.96	20478	3.21	1.87
32°F	20566	2.95	2.05	20339	2.98	2.00	20008	3.07	1.91
41°F	21375	2.73	2.30	21165	2.76	2.25	20848	2.84	2.15
43°F	21960	2.13	3.02	21750	2.16	2.96	21440	2.22	2.82
47°F	24000	2.18	3.23	23340	2.20	3.10	22846	2.27	2.94
53°F	24240	1.98	3.59	23573	2.00	3.45	23079	2.07	3.27
59°F	22316	2.00	3.27	21695	2.02	3.14	21236	2.09	2.98
64°F	22788	1.83	3.64	22160	1.85	3.50	21695	1.91	3.32
70°F	23220	1.86	3.66	22579	1.88	3.51	22100	1.94	3.33
75°F	23544	1.70	4.06	22896	1.72	3.90	22417	1.78	3.70
78°F	23760	1.72	4.06	23105	1.74	3.90	22619	1.79	3.70

* Maximum system capacity

TC- Total Capacity (BtuH)

COP- Coefficient of Performance

ULTRA HEAT
ULTRA COOL
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	20,000	9,000	11,000	NA	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	21,000	10,500	10,500	NA	NA
9K+12K	22,000	10,000	12,000	NA	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