

## SUBMITTAL DATA

GUD24W2/D-D(U) & GUD24AH2/D-D(U)  
24000 BTU/H Single Zone Split AHU & Heat Pump System

Job Name

Location

Date

Purchaser

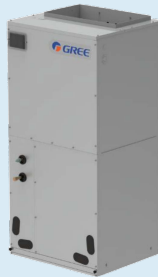
Engineer

Submitted to

For

Unit Designation

Schedule No.



GUD24AH2/D-D(U)



GUD24W2/D-D(U)

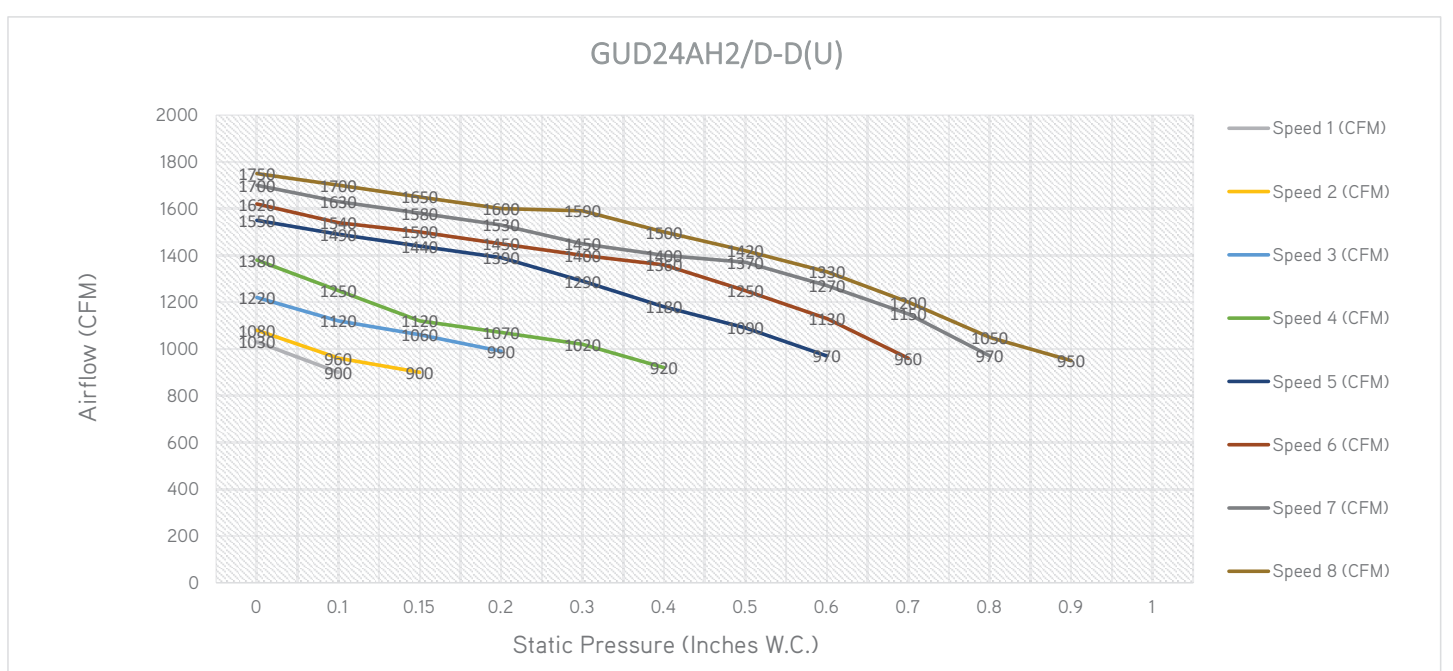
### GENERAL FEATURES

- AHRI Certificate: [210421032](#)
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- 8 Speed Fan Motor
- Matched with GREE Indoor Unit
- Designed for New Construction or Replacement Market
- Compact and Quiet, as low as 56 dB(A) Side Discharge Outdoor Unit
- Cooling and Heating down to -15°C (5°F)
- Coil (Outdoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Gold Colored Fin - 1500Hr Salt Spray Rating)
- Coil (Indoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Blue Colored Fin - 500Hr Salt Spray Rating)

## SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

SPECIFICATIONS		GUD24W2/D-D(U) & GUD24AH2/D-D(U)		FEATURES & FUNCTIONS SUMMARY		GUD24W2/D-D(U) & GUD24AH2/D-D(U)	
System Type		HEAT PUMP					
<b>SYSTEM PERFORMANCE</b>							
Cooling	Min - Max	Btu/h	16100 - 25000				
	Capacity @95°F	Btu/h	23000				
Heating	Min - Max	Btu/h	11135 - 27000				
	Capacity @5°F	Btu/h	13100				
	Capacity @17°F	Btu/h	14600				
	Capacity @47°F	Btu/h	23000				
SEER2		15.5					
EER2		10.5					
HSPF2		7.8					
COP @5°F		1.8					
COP @47°F		3.1					
Cooling Temperature Range		°F	5 - 118				
Heating Temperature Range		°F	5 - 75				
Refrigerant Type		R410A					
<b>INDOOR UNIT</b>							
Power Supply		VAC	208-230V / 1Ph / 60 Hz				
Sound Pressure Level		dB(A)	47				
Control Voltage		VAC	24				
Rated Current Cooling		A	3				
Rated Current Heating		A	3				
MCA		A	3.5				
MOCP		A	15				
Electric Heater (Optional)		kW	5, 8				
Air Flow		CFM	800				
External Static Pressure (Up to)		In W.c.	1.0				
Dehumidification		pt/hr	3.06				
External Dimensions (W x H x D)		in	18-1/8 x 43-1/2 x 21-1/4				
Package Dimension (W x H x D)		in	20-5/8 x 45-11/16 x 26				
Net Weight		lbs	125.7				
Gross Weight		lbs	134.5				
<b>OUTDOOR UNIT</b>							
Power Supply		VAC	208-230V / 1Ph / 60 Hz				
Sound Pressure Level		dB(A)	56				
Control Voltage		VAC	24				
Rated Current Cooling		A	15.5				
Rated Current Heating		A	15.5				
MCA		A	17				
MOCP		A	20				
External Dimensions (W x H x D)		in	35 x 25-7/8 x 13-3/8				
Package Dimension (W x H x D)		in	40-5/8 x 28-3/4 x 18				
Net Weight		lbs	99.2				
Gross Weight		lbs	108				
Refrigerant Charge - R410A		oz	70.6				
Additional Charge		oz/ft	0.32				
<b>REFRIGERANT PIPING</b>							
Line Set Size (Liquid - Gas) - Flared Connections		in	3/8 - 3/4				
Pre-Charge Length		ft	31				
Pipe Length (Min - Max)		ft	10 - 98.4				
Max. Pipe Elevation		ft	49.2				
<b>SYSTEM FEATURES</b>							
Compressor		Inverter					
Ultra Low Frequency Torque Control		Yes					
Power Factor Correction		Yes					
Compressor Type		Rotary					
Refrigerant Type		R410A					
Outdoor Electronic Expansion Valve (EEV)		Yes					
Indoor TXV Control		Yes					
Basepan With Electric Heater		Yes					
Compressor With Electric Heater		Yes					
Fin Coating (Outdoor - Golden & Indoor - Blue)		Acrylic Resin					
Intelligent Defrosting		Yes					
Intelligent Preheating		Yes					
Low Voltage Startup		Yes					
Memory/Power Failure Recovery		Yes					
Self Diagnosis		Yes					
Low Ambient Cooling		No					
24VAC Thermostat Compatible		Yes					
Indoor Fan Type		Centrifugal					
Multi Fan Speeds		8					
Auxiliary Electrical Heater		Optional					

## FAN PERFORMANCE



Static Pressure (Inches W.C.)	0	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Speed 1 (CFM)	1030	900										
Speed 2 (CFM)	1080	960	900									
Speed 3 (CFM)	1220	1120	1060	990								
Speed 4 (CFM)	1380	1250	1120	1070	1020	920						
Speed 5 (CFM)	1550	1490	1440	1390	1290	1180	1090	970				
Speed 6 (CFM)	1620	1540	1500	1450	1400	1360	1250	1130	960			
Speed 7 (CFM)	1700	1630	1580	1530	1450	1400	1370	1270	1150	970		
Speed 8 (CFM)	1750	1700	1650	1600	1590	1500	1420	1330	1200	1050	950	

### NOTE:

1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

## DIMENSIONS

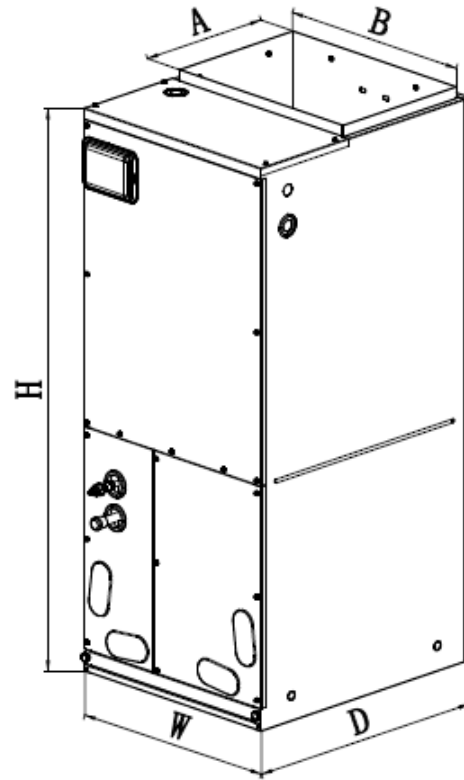
### INDOOR UNIT

Unit: inch

GUD24AH2/D-D(U)	
DIMENSIONS	
A	11-5/8
B	16-3/4
H	43-1/2
W	18-1/8
D	21-1/4

FILTER SIZE	
Supplied*	16-1/2 x 20-3/8 x 5/8
Suggested	16-1/2 x 20-3/8 x 1

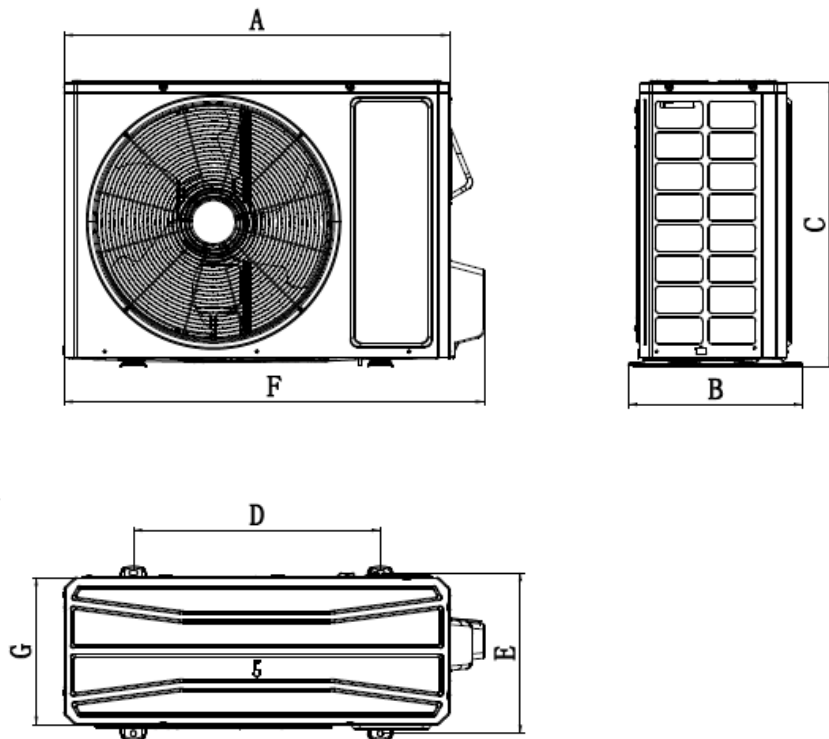
\*Supplied filter is metal mesh



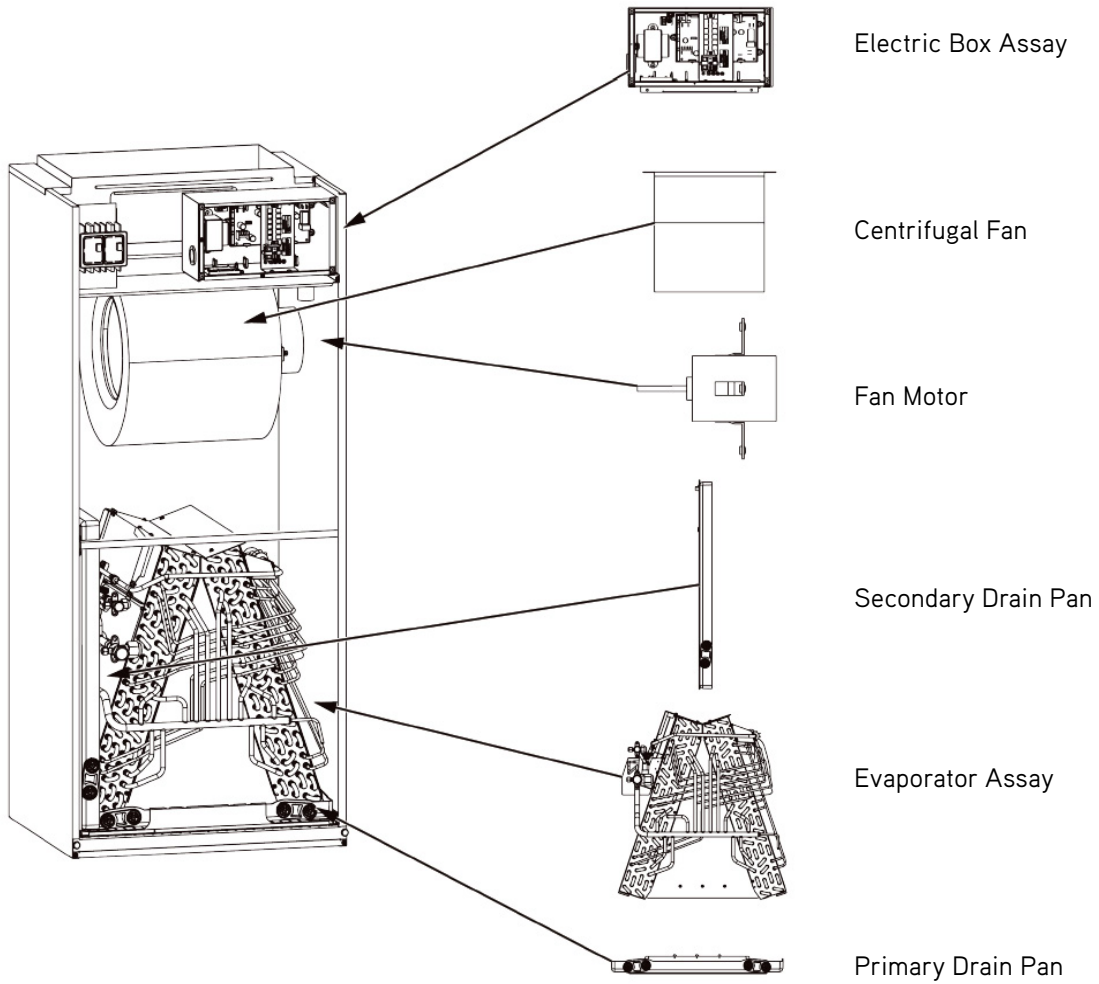
### OUTDOOR UNIT

Unit: inch

GUD24W2/D-D(U)	
DIMENSIONS	
A	35
B	15-13/16
C	25-7/8
D	22-7/16
E	14-9/16
F	38-1/4
G	13-3/8



## ACCESSORY HEATER AND GENERAL INFORMATION



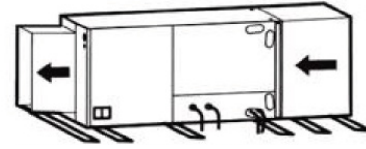
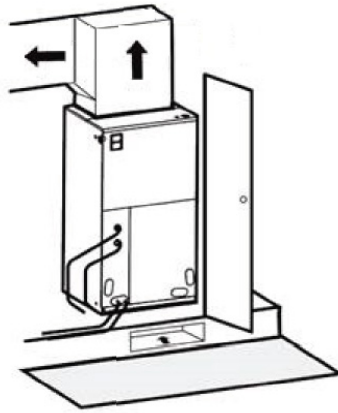
Model	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
		208V	230V	208V	230V	208V	230V
<b>GUD24AH2/D-D(U)</b>	ELEMHT16-5KW	3.74	4.6	31	33	35	35
	ELEMHT16-8KW	6.03	7.36	44	48	45	50

# CLEARANCES

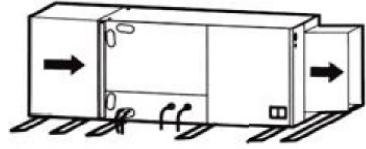
## INDOOR UNIT

Minimum clearance

FRONT > 24



Horizontal Left Configuration - No Modification Needed



Horizontal Right Configuration - Must Relocate Drain Pan

### NOTE:

Allow a minimum of 24" in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. **See local and state codes for requirements.** When installing this unit in an area that may become wet, elevate the unit with a sturdy, non-porous material. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage. This air handler is designed for a complete supply and return ductwork system.

## OUTDOOR UNIT

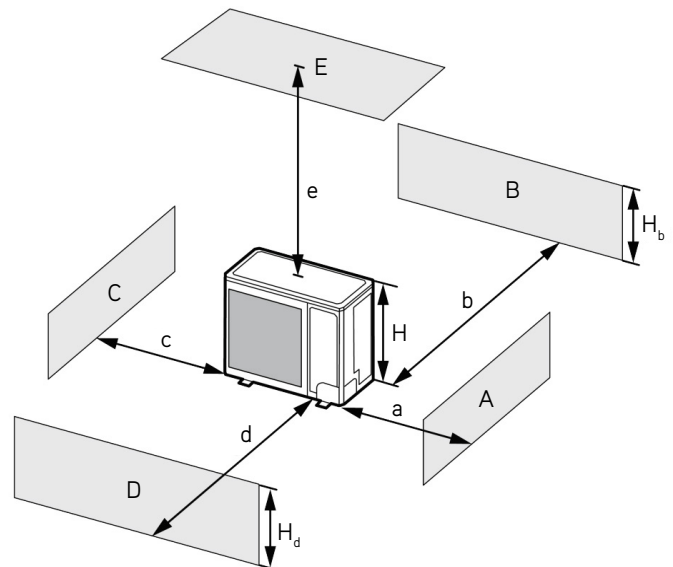
Minimum clearance

### NOTE:

Install the Outdoor Unit **2 Inches** Above the Expected Snow Line

1. When one outdoor unit is to be installed.

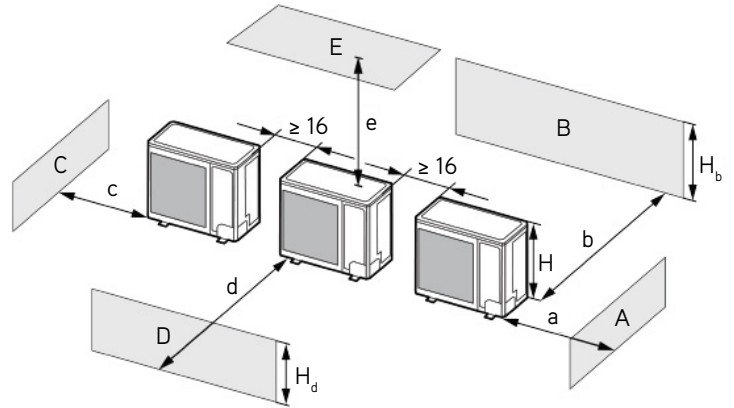
A - E	$H_b$ $H_d$ H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	$H_b < H_d$	$H_b \leq 1/2H$	-	≥ 10	-	≥ 80	≥ 40
		$1/2H < H_b \leq H$	-	≥ 10	-	≥ 80	≥ 40
	$H_b > H$	Prohibited					
	$H_b > H_d$	$H_b \leq 1/2H$	-	≥ 4	-	≥ 80	≥ 40
		$1/2H < H_b \leq H$	-	≥ 8	-	≥ 80	≥ 40
	$H_b > H$	Prohibited					



# CLEARANCES

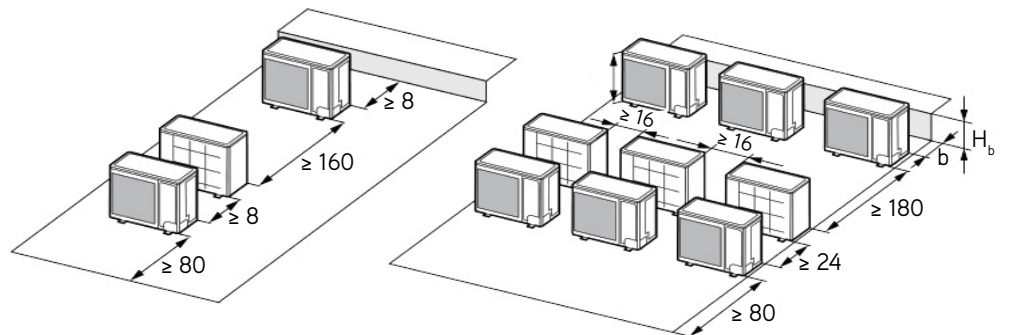
2. When two or more outdoor units are to be installed side by side.

A - E	$H_b$ $H_d$ $H$		(in)				
			a	b	c	d	e
A, B, C	-	-	$\geq 12$	$\geq 12$	$\geq 40$	-	-
A, B, C, E	-	-	$\geq 12$	$\geq 12$	$\geq 40$	-	$\geq 40$
D	-	-	-	-	-	$\geq 80$	-
D, E	-	-	-	-	-	$\geq 80$	$\geq 40$
B, D	$H_b < H_d$	$H_d > H$	-	$\geq 12$	-	$\geq 80$	-
	$H_b > H_d$	$H_d \leq 1/2H$	-	$\geq 10$	-	$\geq 80$	-
B, D, E	$H_b > H_d$	$1/2H < H_b \leq H$	-	$\geq 12$	-	$\geq 100$	-
		$H_b \leq 1/2H$	-	$\geq 12$	-	$\geq 80$	$\geq 40$
	$H_b < H_d$	$1/2H < H_b \leq H$	-	$\geq 12$	-	$\geq 100$	$\geq 40$
		$H_b > H$	Prohibited				
	$H_b > H_d$	$H_d \leq 1/2H$	-	$\geq 10$	-	$\geq 100$	$\geq 40$
		$1/2H < H_d \leq H$	-	$\geq 12$	-	$\geq 100$	$\geq 40$
	$H_d > H$	Prohibited					



3. When outdoor units are installed in rows.

$H_b$ $H_d$	(in)
$H_b \leq 1/2H$	$b \leq 10$
$1/2H < H_b \leq H$	$b \leq 12$
$H_b > H_d$	Prohibited



4. When outdoor units are installed one above another.

