

SUBMITTAL DATA

GUD30W2/D-D(U) & GUD30AH2/D-D(U)
30000 BTU/H Single Zone Split AHU & Heat Pump System

Job Name

Location

Date

Purchaser

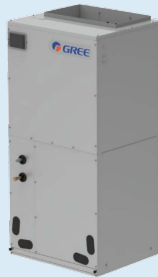
Engineer

Submitted to

For

Unit Designation

Schedule No.



GUD30AH2/D-D(U)



GUD30W2/D-D(U)

GENERAL FEATURES

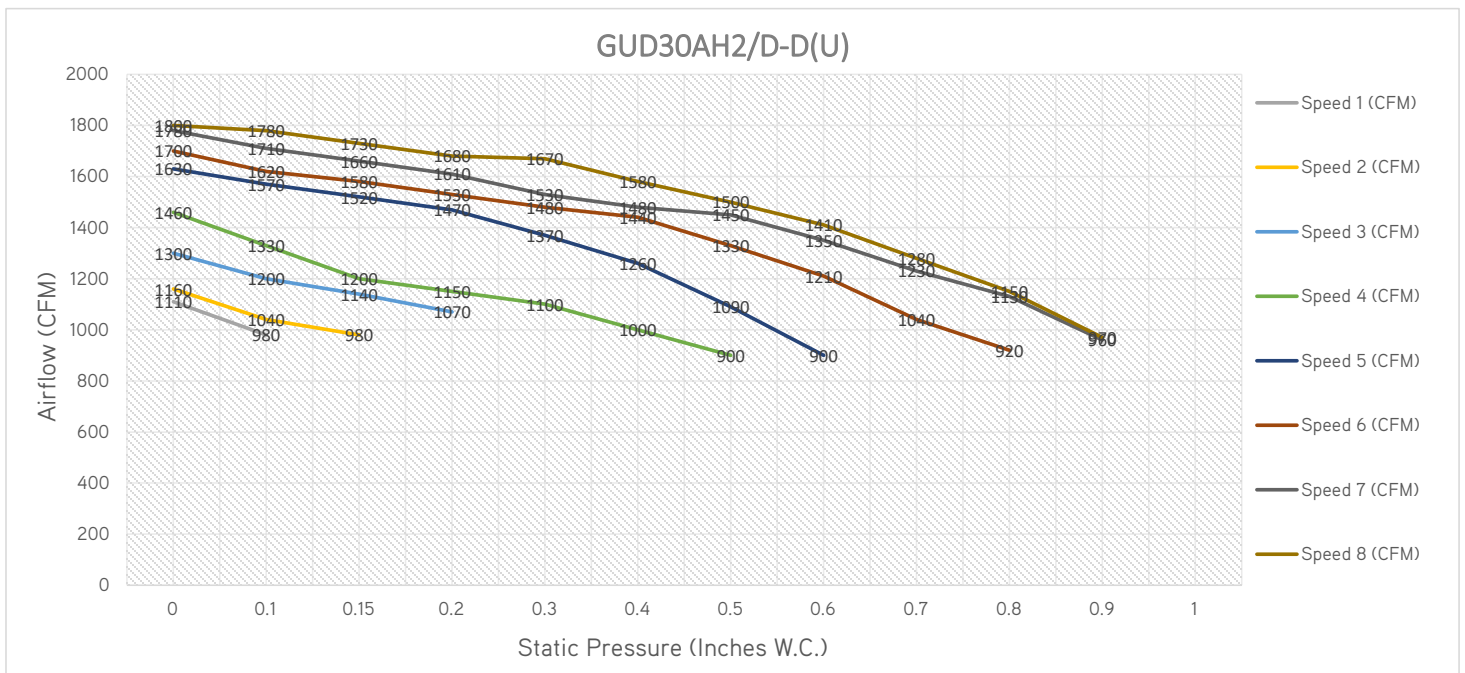
- AHRI Certificate: [210421033](#)
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- 8 Speed Fan Motor
- Matched with GREE Indoor Unit
- Designed for New Construction or Replacement Market
- Compact and Quiet, as low as 58 dB(A) Side Discharge Outdoor Unit
- 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		GUD30W2/D-D(U) & GUD30AH2/D-D(U)		FEATURES & FUNCTIONS SUMMARY		GUD30W2/D-D(U) & GUD30AH2/D-D(U)	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE							
Cooling	Min - Max	Btu/h	23275 - 30000				
	Capacity @95°F	Btu/h	28600				
Heating	Min - Max	Btu/h	13680 - 31000				
	Capacity @5°F	Btu/h	16100				
	Capacity @17°F	Btu/h	18600				
	Capacity @47°F	Btu/h	28600				
SEER2		15.2					
EER2		10					
HSPF2		7.8					
COP @5°F		1.8					
COP @47°F		2.9					
Cooling Temperature Range		°F	5 - 118				
Heating Temperature Range		°F	5 - 75				
Refrigerant Type		R410A					
INDOOR UNIT							
Power Supply		VAC	208-230V / 1Ph / 60 Hz				
Sound Pressure Level		dB(A)	51				
Control Voltage		VAC	24				
Rated Current Cooling		A	3				
Rated Current Heating		A	3				
MCA		A	4.4				
MOCP		A	15				
Electric Heater (Optional)		kW	5, 8				
Air Flow		CFM	900				
External Static Pressure (Up to)		In W.c.	1.0				
Dehumidification		pt/hr	9.70				
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				
OUTDOOR UNIT							
Power Supply		VAC	208-230V / 1Ph / 60 Hz				
Sound Pressure Level		dB(A)	58				
Control Voltage		VAC	24				
Rated Current Cooling		A	15.3				
Rated Current Heating		A	16				
MCA		A	20.5				
MOCP		A	35				
External Dimensions (W x H x D)		in	36-3/8 x 29-3/8 x 14-5/8				
Package Dimension (W x H x D)		in	42-5/8 x 31-1/28 x 19				
Net Weight		lbs	119.0				
Gross Weight		lbs	127.9				
Refrigerant Charge - R410A		oz	77.6				
Additional Charge		oz/ft	0.32				
REFRIGERANT PIPING							
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				
SYSTEM FEATURES							
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)	1110	980										
Speed 2 (CFM)	1160	1040	980									
Speed 3 (CFM)	1300	1200	1140	1070								
Speed 4 (CFM)	1460	1330	1200	1150	1100	1000	900					
Speed 5 (CFM)	1630	1570	1520	1470	1370	1260	1090	900				
Speed 6 (CFM)	1700	1620	1580	1530	1480	1440	1330	1210	1040	920		
Speed 7 (CFM)	1780	1710	1660	1610	1530	1480	1450	1350	1230	1130	960	
Speed 8 (CFM)	1800	1780	1730	1680	1670	1580	1500	1410	1280	1150	970	



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

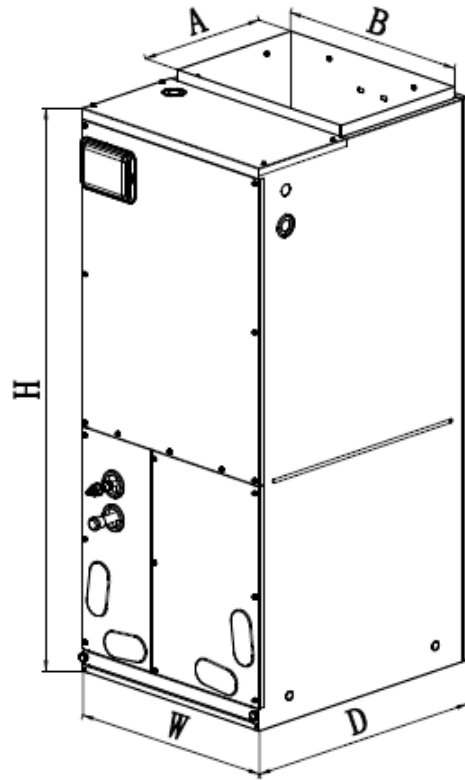
INDOOR UNIT

Unit: inch

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

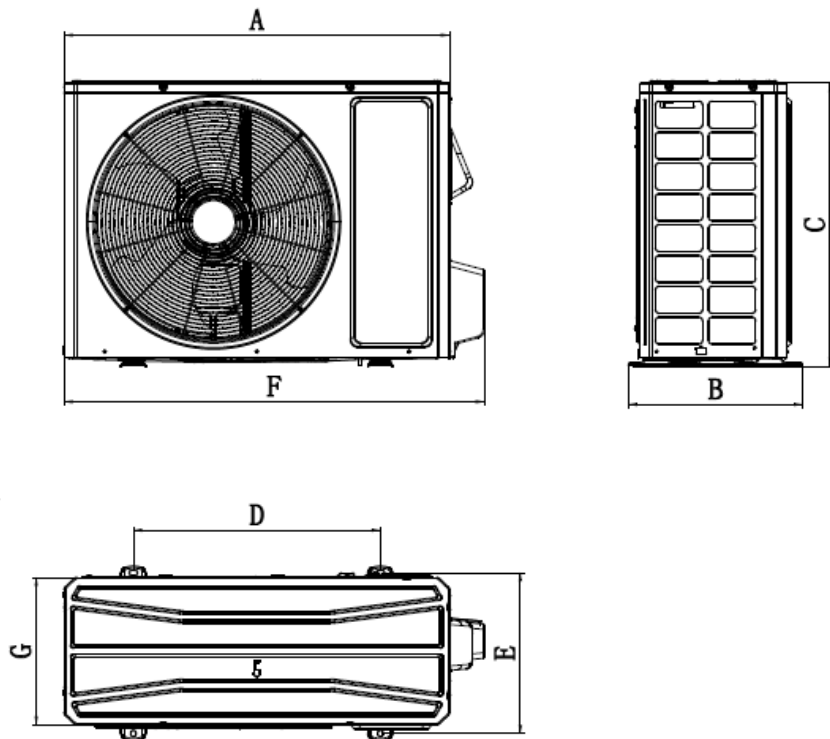
*Supplied filter is metal mesh



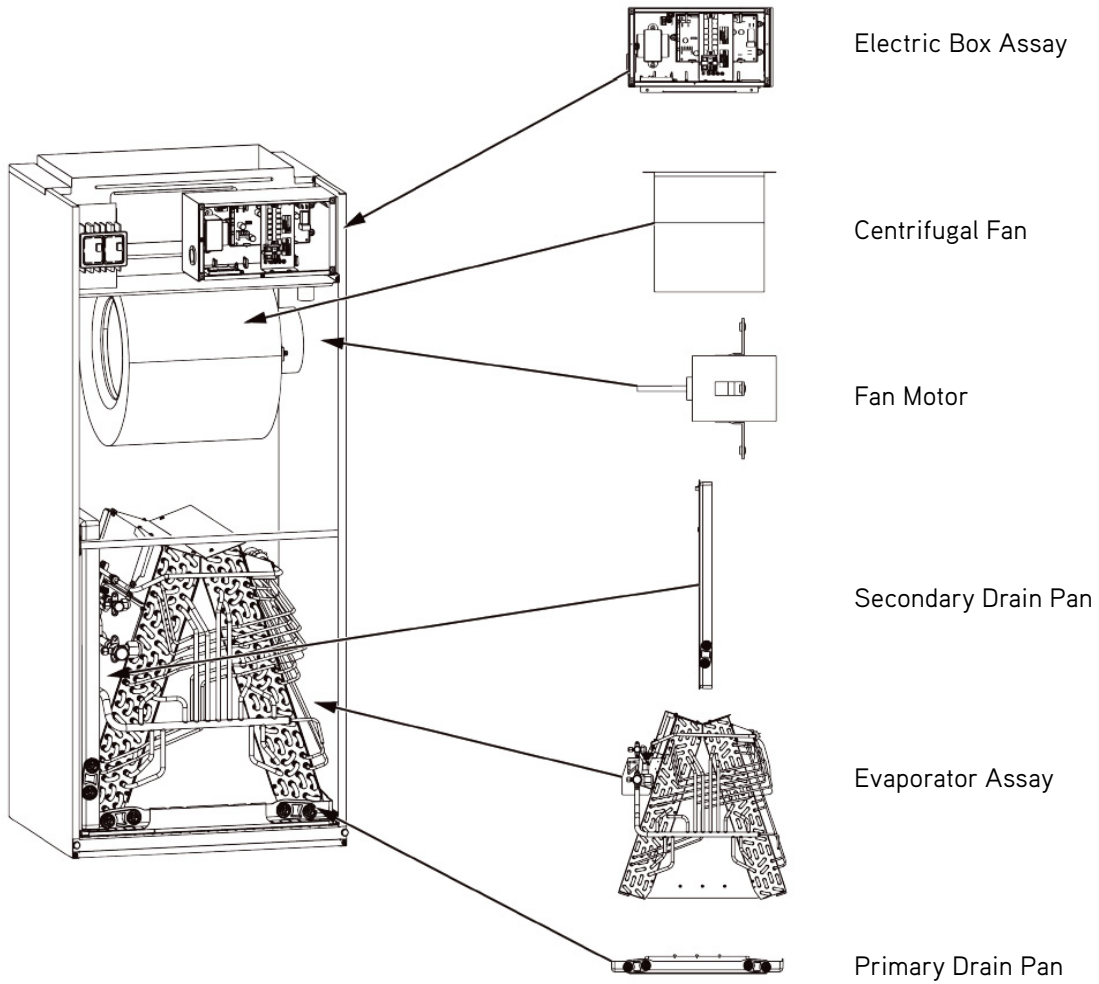
OUTDOOR UNIT

Unit: inch

DIMENSIONS	
A	36-3/8
B	15-13/16
C	29-3/8
D	22-7/16
E	14-9/16
F	38-1/4
G	14-5/8



ACCESSORY HEATER AND GENERAL INFORMATION



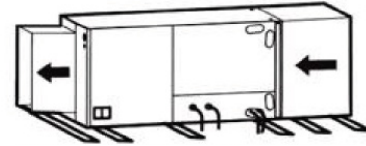
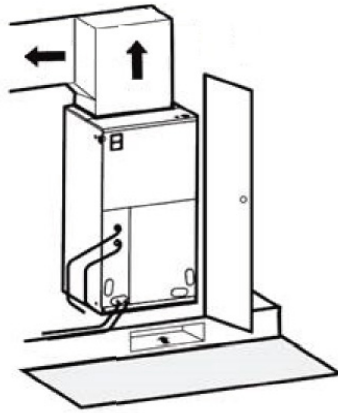
Model	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
		208V	230V	208V	230V	208V	230V
GUD30AH2/D-D(U)	ELEMHT16-5KW	3.74	4.6	31	33	35	35
	ELEMHT16-8KW	6.03	7.36	44	48	45	50

CLEARANCES

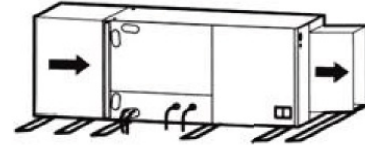
INDOOR UNIT

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

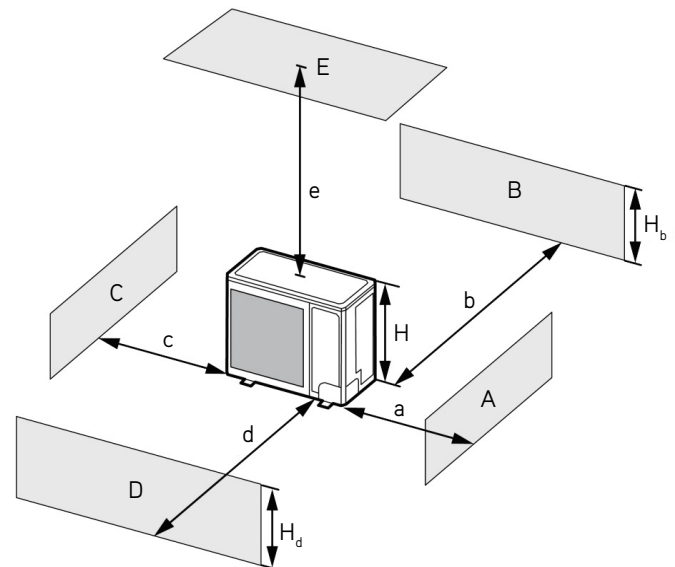
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

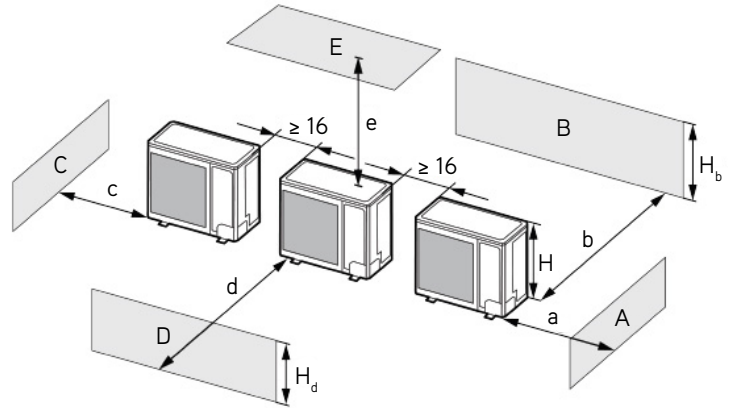
A - E	H_b H_d H		(in)					
			a	b	c	d	e	
B	-	-	-	≥ 4	-	-	-	
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-	
B, E	-	-	-	≥ 4	-	-	≥ 40	
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40	
D	-	-	-	-	-	≥ 40	-	
D, E	-	-	-	-	-	≥ 40	≥ 40	
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-	
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-	
B, D, E	$H_b < H_d$	$H_b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

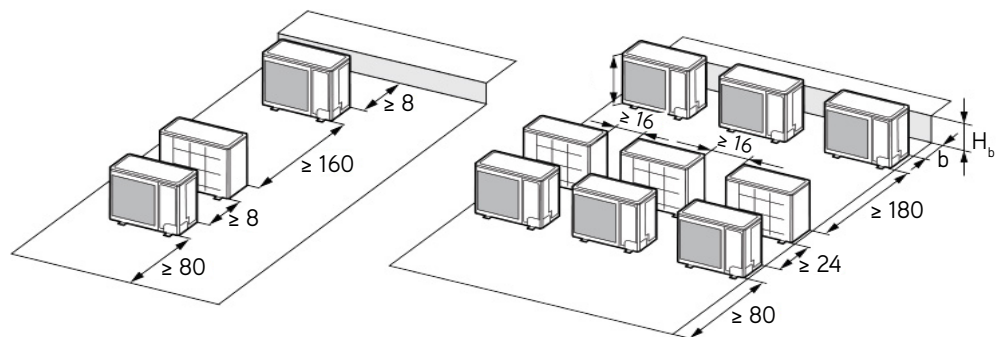
2. When two or more outdoor units are to be installed side by side.

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



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.

