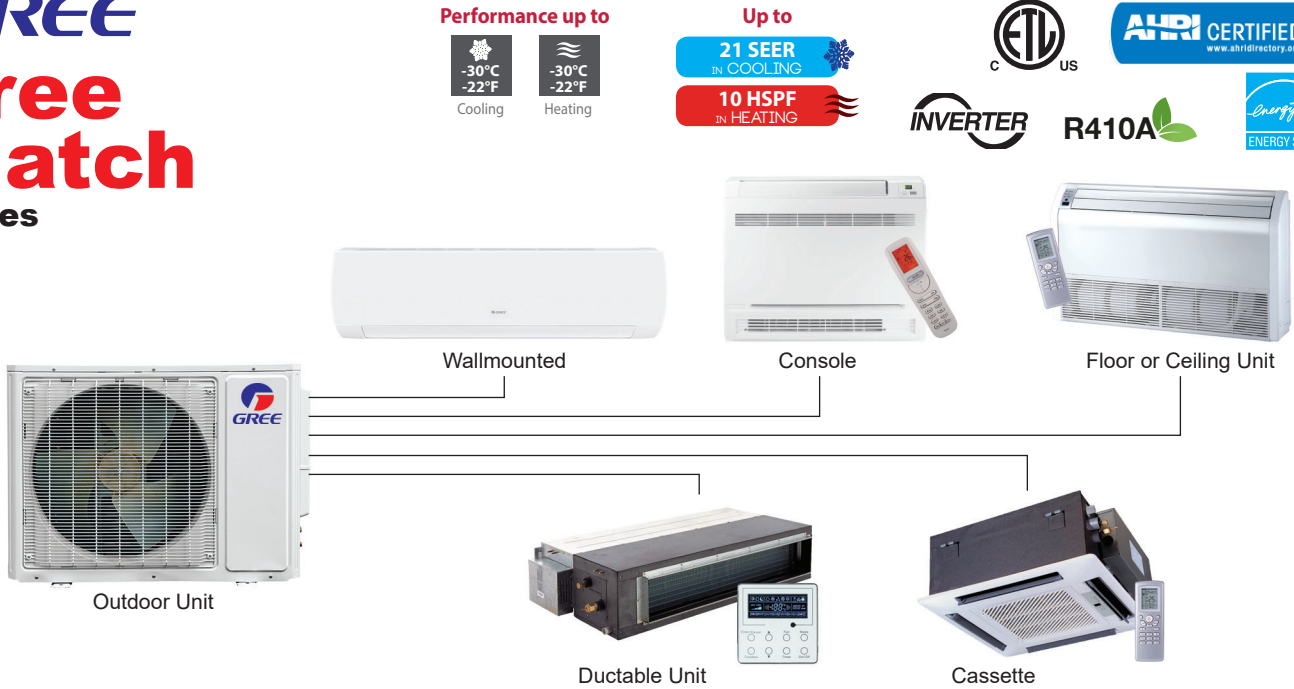


## Free Match Series

### Free Match Ductless MultiZone Heat Pump



Performance up to



Up to  
**21 SEER**  
 IN COOLING  
**10 HSPF**  
 IN HEATING



<b>Operation mode</b>	- Cooling, heating, dehumidifying, fan and auto.
<b>Nominal capacity</b>	- 18000, 24000, 36000, 42000 BTU/hr.
<b>Voltage</b>	- 230/208V, 60 Hz, 1-phase.
<b>Outdoor unit</b>	- Variable speed rotary compressor (INVERTER), with overload protection. - Electronic expansion valve for precise control of refrigerant flow. - Condenser fins covered with a hydrophilic coating for improved corrosion resistance. - Large diameter quiet axial-flow fan for more efficient heat exchange. - Smart pan heater to prevent ice formation. - Compressor blanket and preheating technology.
<b>Connection piping</b>	- Minimum piping length of 10 ft. (3 m). - Flared connections.
<b>Warranty</b>	- <b>10+2 year parts and 10+2 year compressor basic warranty (labor not included).*</b>
<b>Application</b>	- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

### Features

#### Includes

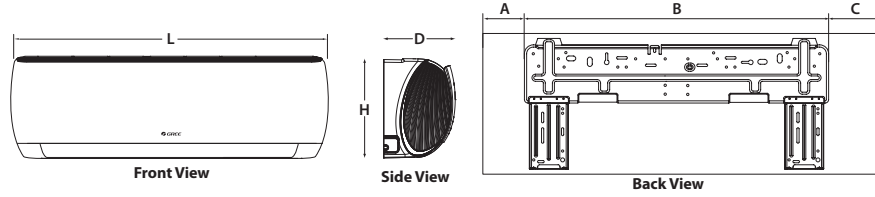
- Smart Pan Heater
- Crankcase Heater
- Fin Coating
- Quiet Design
- Smart Defrosting
- Smart Preheating
- Auto Restart
- Auto-Clean
- Self-Diagnosis
- Sleep Mode
- Turbo Mode
- Up & Down Swing
- Left & Right Swing
- Timer
- I Feel
- Lock
- Wireless Remote

#### Optional

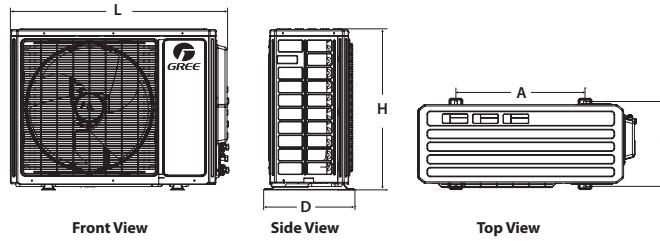
- Wall Controller
- Wi-Fi

\*10 year standard warranty. Additional 2 year extended warranty when product is registered and/or proof of installation

### Indoor Unit



### Outdoor Unit



Indoor Unit	L		H		D		A		B		C	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
GWH09AFCXD-D3DNA1A/I	34 3/8	848	11 7/16	291	8 5/16	211	5 7/8	149	21 5/16	542	8 1/32	204
GWH12AFCXD-D3DNA1A/I												
GWH18AFDXF-D3DNA1A/I	39 3/8	995	12 1/4	311	8 11/16	221	8 1/2	203	27	686	9 1/4	235
GWH24AFEXH-D3DNA1A/I	43 1/2	1105	13 7/64	333	9 11/16	246	8 1/2	203	27	686	9 1/4	235

Outdoor Unit	L		H		D		A		B	
	in	mm	in	mm	in	mm	in	mm	in	mm
GWHD(18)ND3MO	32 3/8	802	21 11/16	550	13 7/8	352	20 5/32	512	13 5/64	332
GWHD(24)ND3MO	37 15/16	964	26	660	15 13/16	402	22	559	14 1/2	368
GWHD(30)ND3MO	40 1/8	1020	32 1/2	826	17 5/16	427	24 13/16	630	14 13/16	376
GWHD(36)ND3MO										
GWHD(42)ND3MO										



## Outdoor Unit Models

Product # <sup>1</sup>	Outdoor Unit		GWHD(18)ND3MO	GWHD(24)ND3MO	GWHD(30)ND3MO	GWHD(36)ND3MO	GWHD(42)ND3MO
Number of connectable indoor unit			1 to 2	2 to 3	2 to 4	2 to 5	2 to 5
Qty							
<b>Technical Performance</b>							
Voltage		Volts	230/208	230/208	230/208	230/208	230/208
Cooling capacity	Nominal	W (BTU/hr)	4982 (17000)	6800 (23200)	8300 (28400)	9970 (34000)	10550 (36000)
	Min. -max.	W (BTU/hr)	2052 - 5744 (7000 - 19600)	2200 - 9200 (7500 - 31400)	2400 - 10000 (8190 - 34100)	2600 - 10500 (8871 - 35826)	2600 - 12000 (8871 - 40944)
Heating capacity	Nominal	W (BTU/hr)	5275 (18000)	7030 (24000)	8792 (30000)	10550 (36000)	11720 (40000)
	Min. -max.	W (BTU/hr)	2052 - 5744 (7000 - 19600)	2200 - 9200 (7500 - 31400)	2400 - 12000 (8188 - 40900)	2600 - 13000 (8871 - 44356)	2600 - 13500 (8871 - 46062)
Used cooling power input	Nominal	W	1420	1860	2270	2830	3000
Used heating power input	Nominal	W	1380	1860	2250	2900	3020
MCA		A	20	25	30	30	30
Max. over-current protection (MOCP)		A	20	25	35	45	45
SEER2 (SEER)		-	21 (21)	21 (21)	21 (21)	21 (21)	21 (21)
HSPF2 (HSPF)		-	10 (10)	10 (10)	10 (10)	10 (10)	10 (10)
EER2 (EER)		W/W	12 (3.52)	12.5 (3.66)	12 (3.66)	12 (3.52)	12 (3.52)
COP		W/W	3.82	3.91	3.91	3.64	3.88
Numéro AHRI		-	210534127	210534128	210534129	210534130	210534131
ENERGY STAR		-	✓	✓	✓	✓	✓
Air flow volume		cfm	1354	2236	3413	3413	3413
Sound level		dB (A)	64	68	74	74	74
Compressor power input		W	1295	1887	2047	2294	2294
Compressor LRA		A	-	-	-	-	-
Compressor RLA			9.95	12.1	14.25	18.2	18.4
Fan motor power output		W	30	60	130	130	130
Refrigerant volume (R410A)		oz (g)	45.9 (1300)	84.7 (2400)	105.8 (3000)	130.5 (3700)	134 (3800)
Net weight		lb (kg)	77 (35)	115 (52)	152 (69)	172 (78)	174 (79)
Operating ambient temperature	Cooling	°C (°F)	-30 to 48 (-22 to 118)				
	Heating	°C (°F)	-30 to 24 (-22 to 75)				
<b>Connection Piping/Refrigerant</b>							
Pre-charge length		ft (m)	33 (10)	98 (30)	131 (40)	131 (40)	131 (40)
Additional refrigerant charge		oz/ft (g/m)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)
Liquid pipe outer diameter		in	1/4	1/4	1/4	1/4	1/4
Gas pipe outer diameter		in	3/8	3/8	3/8	3/8	3/8
Max. height difference outdoor to indoor unit		ft (m)	49 (15)	49 (15)	82 (25)	82 (25)	82 (25)
Maximum total length		ft (m)	131 (40)	197 (60)	262 (80)	262 (80)	328 (100)

<sup>1</sup> Note that each unit is individually packaged

## Indoor Unit Models

Wallmounted

Product # <sup>1</sup>	Indoor Unit		GWH09AFCXD-D3DNA1A/I	GWH12AFCXD-D3DNA1A/I	GWH18AFDXF-D3DNA1A/I	GWH24AFEXH-D3DNA1A/I
<b>Qté</b>						
<b>Technical Performance</b>						
Cooling capacity	Nominal	W (BTU/hr)	2667 (9100)	3517 (12000)	5275 (18000)	6448 (22000)
	Min. – max.	W (BTU/hr)	450 – 3150 (1535 - 10748)	900 – 4132 (3071 - 14100)	1500 – 6200 (5118 - 21154)	2600 – 8200 (8870 - 28000)
Heating capacity	Nominal	W (BTU/hr)	3077 (10500)	3517 (12000)	5275 (18000)	7040 (24000)
	Min. – max.	W (BTU/hr)	1000 – 4300 (3412 - 14671)	900 – 4543 (3071 - 15500)	1500 – 6200 (5118 - 21154)	2100 – 9000 (7200 - 30708)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5 (2.40)
Air flow volume	cfm	CFM	353 / 323 / 294 / 264 / 235 / 176 / 158	400 / 364 / 329 / 288 / 264 / 247 / 229	589 / 500 / 441 / 412 / 383 / 353 / 324	736 / 588 / 530 / 471 / 441 / 412 / 383
Sound level	Min. - max.	dB (A)	50 / 47 / 45 / 42 / 39 / 36 / 35	53 / 48 / 46 / 44 / 42 / 40 / 37	59 / 53 / 51 / 50 / 47 / 43 / 39	62 / 54 / 52 / 49 / 48 / 46 / 44
Fan motor power output		W	15	15	45	60
Fan motor RLA		A	0.22	0.20	0.35	0.30
Deflector stepper motor power output		W	1.5	1.5	1.5	1.5
Net Weight		lb (kg)	21 (9.5)	21 (9.5)	29 (13.5)	35 (16)

Console

Product # <sup>1</sup>	Indoor Unit		GEH(09)AA-D3DNA1C/I	GEH(12)AA-D3DNA1C/I
<b>Qté</b>				
<b>Technical Performance</b>				
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3810 (13000)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)
Air flow volume	Min. - max.	CFM	188 / 382	206 / 441
Sound level	Min. - max.	dB (A)	25 / 40	27 / 43
Dimension	L × H × D	in (mm)	27 5/8 × 23 5/8 × 8 1/2 (701 × 599 × 216)	27 5/8 × 23 5/8 × 8 1/2 (701 × 599 × 216)
Net Weight		lb (kg)	33 (15)	33 (15)
Liquid pipe outer diameter		W	1/4	1/4
Gas pipe outer diameter		oz (g)	3/8	3/8

Floor or Ceiling Unit

Product # <sup>1</sup>	Indoor Unit		GTH(09)CA-D3DNA1A/I	GTH(12)CA-D3DNA1A/I	GTH(18)CA-D3DNA1A/I	GTH(24)CB-D3DNA2A/I
<b>Qté</b>						
<b>Technical Performance</b>						
Cooling capacity	Nominal	W (BTU/hr)	2491 (8500)	3488 (11900)	4982 (17000)	6682 (22800)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3839 (13100)	5480 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	CFM	265 / 383	265 / 383	294 / 559	412 / 736
Sound level	Min. - max.	dB (A)	36 / 40	36 / 40	40 / 45	44 / 48
Dimension	L × H × D	in (mm)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)
Net Weight		lb (kg)	88 (40)	88 (40)	88 (40)	99 (45)
Liquid pipe outer diameter		W	1/4	1/4	1/4	3/8
Gas pipe outer diameter		oz (g)	3/8	1/2	1/2	5/8

## Ductable Unit

Product # <sup>1</sup>	Indoor Unit		GFH(09)EA-D3DNA1A/I	GFH(12)EA-D3DNA1A/I	GFH(18)EA-D3DNA1A/I	GFH(24)EA-D3DNA1A/I
<b>Qté</b>						
<b>Technical Performance</b>						
<b>Cooling capacity</b>	<b>Nominal</b>	W (BTU/hr)	2491 (8500)	3488 (11900)	4484 (15300)	6975 (23800)
<b>Heating capacity</b>	<b>Nominal</b>	W (BTU/hr)	2784 (9500)	3839 (13100)	5480 (18700)	8030 (27400)
<b>Dehumidification</b>		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
<b>Air flow volume</b>	<b>Min. - max.</b>	CFM	147 / 265	176 / 324	294 / 412	324 / 588
<b>Sound level</b>	<b>Min. - max.</b>	dB (A)	31 / 37	32 / 39	33 / 41	34 / 42
<b>ESP</b>		InWg	0.25/0.4	0.3/0.4	0.32/0.4	0.35/0.4
<b>Dimension</b>	<b>L × H × D</b>	in (mm)	27 5/8 × 7 7/8 × 24 3/16 (701 × 201 × 615)	27 5/8 × 7 7/8 × 24 3/16 (701 × 201 × 615)	35 3/8 × 7 7/8 × 24 3/16 (899 × 201 × 615)	43 5/16 × 7 7/8 × 24 3/16 (1100 × 201 × 615)
<b>Net Weight</b>		lb (kg)	49 (22)	51 (23)	60 (27)	68 (31)
<b>Liquid pipe outer diameter</b>		W	1/4	1/4	1/4	3/8
<b>Gas pipe outer diameter</b>		oz (g)	3/8	3/8	1/2	5/8

## Cassette

Product # <sup>1</sup>	Indoor Unit		GKH(12)BB-D3DNA3A/I	GKH(18)BB-D3DNA3A/I	GKH(24)BC-D3DNA4A/I
<b>Qté</b>					
<b>Technical Performance</b>					
<b>Cooling capacity</b>	<b>Nominal</b>	W (BTU/hr)	3517 (12000)	4500 (15354)	6682 (22800)
<b>Heating capacity</b>	<b>Nominal</b>	W (BTU/hr)	3810 (13000)	4982 (17000)	8030 (27400)
<b>Dehumidification</b>		pt/hr (l/hr)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
<b>Air flow volume</b>	<b>Min. - max.</b>	CFM	265 / 382	265 / 417	500 / 694
<b>Sound level</b>	<b>Min. - max.</b>	dB (A)	34 / 44	35 / 47	35 / 39
<b>Unit Dimension</b>	<b>L × H × D</b>	in (mm)	22 3/8 × 9 1/8 × 22 3/8 (569 × 231 × 569)	22 3/8 × 9 1/8 × 22 3/8 (569 × 231 × 569)	33 1/8 × 9 1/2 × 33 1/8 (841 × 241 × 841)
<b>Grille Dimension</b>	<b>L × H × D</b>	in (mm)	25 1/2 × 1 7/8 × 25 1/2 (648 × 48 × 648)	25 1/2 × 1 7/8 × 25 1/2 (648 × 48 × 648)	37 3/8 × 2 5/16 × 37 3/8 (950 × 58 × 950)
<b>Net weight</b>		lb (kg)	40 (18)	40 (18)	62 (28)
<b>Liquid pipe outer diameter</b>		W	1/4	1/4	3/8
<b>Gas pipe outer diameter</b>		oz (g)	3/8	1/2	5/8

<sup>1</sup> Note that each unit is individually packaged

## To order

**1** Choose the outdoor unit based on the system capacity required.

**2** Choose the appropriate indoor unit combination by referring to the combination table below.

Refer to the legend to find the product # of the indoor units you want to order.

*Note that each unit is individually packaged.*

### Example:

Outdoor unit required:  
GWHD(42)ND3MO

Indoor unit combination chosen:  
09 + 09 + 12 + 12 + 18



## Combination Table

Outdoor Unit	2 Indoor Units
GWHD(18)ND3MO	09 + 09
	09 + 12

Outdoor Unit	2 Indoor Units		3 Indoor Units	
	GWHD(24)ND3MO	09 + 09	09 + 09 + 09	
		09 + 12	09 + 09 + 12	
		09 + 18	09 + 09 + 18	
		12 + 12	09 + 12 + 12	
		12 + 18	12 + 12 + 12	
18 + 18		-		

Outdoor Unit	2 Indoor Units		3 Indoor Units		4 Indoor Units	
	GWHD(30)ND3MO	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09		
		09 + 12	09 + 09 + 12	09 + 09 + 09 + 12		
		09 + 18	09 + 09 + 18	09 + 09 + 12 + 12		
		12 + 12	09 + 12 + 12	-		
		12 + 18	09 + 12 + 18	-		
18 + 18		12 + 12 + 12	-			

Outdoor Unit	2 Indoor Units		3 Indoor Units		4 Indoor Units	
	GWHD(36)ND3MO	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09		
		09 + 12	09 + 09 + 12	09 + 09 + 09 + 12		
		09 + 18	09 + 09 + 18	09 + 09 + 09 + 18		
		09 + 24	09 + 09 + 24	09 + 09 + 09 + 24		
		12 + 12	09 + 12 + 12	09 + 09 + 12 + 12		
		12 + 18	09 + 12 + 18	09 + 09 + 12 + 18		
		12 + 24	09 + 12 + 24	09 + 09 + 18 + 18		
		18 + 18	09 + 18 + 18	09 + 12 + 12 + 12		
		18 + 24	09 + 18 + 24	09 + 12 + 12 + 18		
		24 + 24	12 + 12 + 12	12 + 12 + 12 + 12		
		-	12 + 12 + 18	-		
-		12 + 12 + 24	-			

Outdoor Unit	2 Indoor Units		3 Indoor Units		4 Indoor Units		5 Indoor Units	
	GWHD(42)ND3MO	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09	09 + 09 + 09 + 09 + 09			
		09 + 12	09 + 09 + 12	09 + 09 + 09 + 12	09 + 09 + 09 + 09 + 12			
		09 + 18	09 + 09 + 18	09 + 09 + 09 + 18	09 + 09 + 09 + 09 + 18			
		09 + 24	09 + 09 + 24	09 + 09 + 09 + 24	09 + 09 + 09 + 09 + 24			
		12 + 12	09 + 12 + 12	09 + 09 + 12 + 12	09 + 09 + 09 + 12 + 12			
		12 + 18	09 + 12 + 18	09 + 09 + 12 + 18	09 + 09 + 09 + 12 + 18			
		12 + 24	09 + 12 + 24	09 + 09 + 18 + 18	09 + 09 + 09 + 18 + 18			
		18 + 18	09 + 18 + 18	09 + 12 + 12 + 12	09 + 09 + 12 + 12 + 12			
		18 + 24	09 + 18 + 24	09 + 12 + 12 + 18	09 + 09 + 12 + 12 + 18			
		24 + 24	09 + 24 + 24	09 + 12 + 12 + 24	09 + 12 + 12 + 12 + 12			
		-	12 + 12 + 12	09 + 12 + 18 + 18	09 + 12 + 12 + 12 + 18			
		-	12 + 12 + 18	09 + 18 + 18 + 18	12 + 12 + 12 + 12 + 12			
		-	12 + 12 + 24	12 + 12 + 12 + 12	-			
		-	18 + 18 + 18	12 + 12 + 12 + 18	-			
-		18 + 18 + 24	12 + 12 + 12 + 24	-				

## Legend

Code	BTU/hr
09	9000 BTU/hr
12	12000 BTU/hr
18	18000 BTU/hr
24	24000 BTU/hr



# Approval Drawings

**Specifications may change without prior notice**

Project:	Approval Information
Consultant Engineer:	
Electrical Contractor:	
Distributor:	
Date:	
Dettson Contact:	
Comments:	