

**GTH Series**

**Ductless Multi zone heat pump**



**Performance up to**



**Up to**



**Features**

**Operation mode**

**Nominal capacity**

**Voltage**

**Indoor unit**

**Outdoor unit**

**Connection piping**

**Control**

**Warranty**















**Application**

- Cooling, heating, dehumidifying, fan and auto.
- 18000, 24000, 36000, 42000 BTU/hr.
- 230/208V, 60 Hz, 1-phase.
- High wall installation, dual side connection.
- Plastic housing, standard white.
- 4-speed cross-flow fan (turbo, high, medium, and low).
- Washable filters.
- Variable speed rotary (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.
- Minimum piping length of 10 ft (3 m).
- Flared connections.
- Wireless remote included for each indoor unit (except for the ductable unit).
- Wired wall controller available.
- Wi-Fi (KIT-WIFI option required).
- Set temperature: 16 to 30 °C (61 to 86 °F).
- Temperature display format : °C or °F.

**Note :** All heat pump systems must be installed by a certified Dettson installer to benefit from the basic warranty.  
 - 10-year parts and 10-year compressor basic warranty (labor not included).

- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

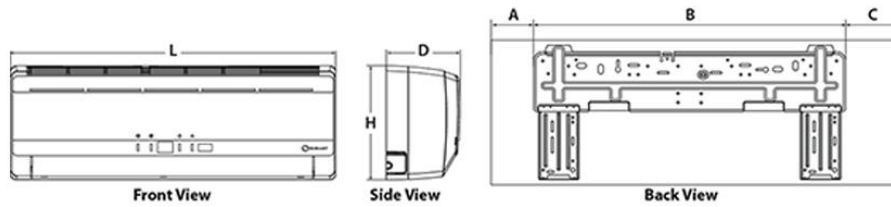
**Includes**

 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	 Timer	 Lock

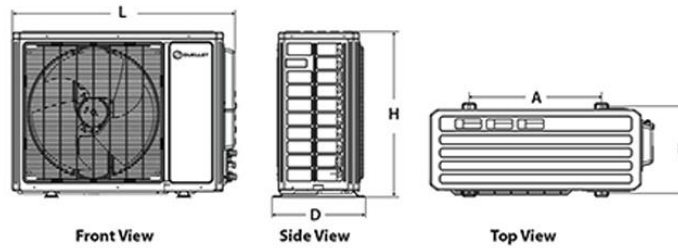
### Outdoor unit models

# Product		GWHD(18)ND3GO	GWHD(24)ND3GO	GWHD(30)ND3GO	GWHD(36)ND3GO	GWHD(42)ND3EO	
<b>Qty</b>							
<b>Technical performance</b>							
<b>Number of connectable indoor unit-</b>		1 to 2	2 to 3	2 to 4	2 to 5	2 to 5	
<b>Voltage</b>		Volts	230/208	230/208	230/208	230/208	
<b>Cooling capacity</b>	<b>Nominal</b>	W (BTU/hr)	5280 (18000)	7034 (24000)	8300 (28400)	9970 (34000)	
	<b>Min. – max.</b>	W (BTU/hr)	2051 - 6155 (6998 - 21000)	2198 - 9672 (7500 - 33000)	2400 - 9800 (8189 - 33438)	2600 - 10500 (8871 - 35826)	2600 - 12000 (8871 - 40944)
<b>Heating capacity</b>	<b>Nominal</b>	W (BTU/hr)	5570 (19000)	7620 (26000)	8792 (30000)	12460 (42500)	
	<b>Min. – max.</b>	W (BTU/hr)	2052 - 6624 (7000 - 22600)	2198 - 8200 (7500 - 27978)	2400 - 9500 (8188 - 32414)	2600 - 13000 (8871 - 44356)	2600 - 13500 (8871 - 46062)
<b>Used cooling power input</b>	<b>Nominal</b>	W	1440	1920	2280	2720	
<b>Used heating power input</b>	<b>Nominal</b>	W	1520	2050	2350	3370	
<b>MCA</b>	A	16	23	20	23	24	
<b>Max. over-current protection (MOCP)</b>	A	25	30	30	35	40	
<b>SEER</b>	-	22	21	21	21	21	
<b>HSPF</b>	-	11	11	11.5	10.5	10.2	
<b>EER</b>	W/W	12.5	12.5	12.5	12.5	9.6	
<b>COP</b>	W/W	3.66	3.72	3.74	3.70	3.61	
<b>ENERGY STAR</b>	-	✓	✓	✓	✓	-	
<b>Air flow volume</b>	cfm	1883	2354	2354	4531	4531	
<b>Sound level</b>	dB (A)	56	59	59	61	61	
<b>Compressor power input</b>	W	1440	2550	4150	4150	4150	
<b>Compressor LRA</b>	A	-	-	-	-	-	
<b>Compressor RLA</b>	A	10.82	15.82	13.9	15.6	17.8	
<b>Fan motor power input</b>	W	60	90	100	170	170	
<b>Fan motor RLA</b>	A	0.62	0.59	0.68	0.82	0.82	
<b>Refrigerant volume (R410A)</b>	oz (g)	56.5 (1600)	77.6 (2200)	98.8 (2800)	128.8 (3651)	128.8 (3651)	
<b>Net weight</b>	lb (kg)	115 (52)	153 (69)	154 (70)	199 (90)	199 (90)	
<b>Operating ambient temperature</b>	<b>Cooling</b>	°C (°F)	-18 to 48 (0 to 118)			-18 to 48 (0 to 118)	
	<b>Heating</b>	°C (°F)	-20 to 24 (-5 to 75)			-20 to 30 (-5 to 86)	
<b>Connection Piping/Refrigerant</b>							
<b>Pre-charge lenght</b>	ft (m)	33 (10)	98 (30)	131 (40)	131 (40)	131 (40)	
<b>Additional refrigerant charge</b>	oz/pi (g/m)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)	
<b>Liquid pipe outer diameter</b>	in	1/4	1/4	1/4	1/4	1/4	
<b>Gas pipe outer diameter</b>	in	3/8	3/8	3/8	3/8	3/8	
<b>Max. height difference outdoor to indoor unit</b>	ft (m)	33 (10)	33 (10)	49 (15)	49 (15)	49 (15)	
<b>Max. height difference between indoor unit</b>	ft (m)	33 (10)	33 (10)	25 (7.5)	25 (7.5)	25 (7.5)	
<b>Max. lenght outdoor to last indoor unit</b>	ft (m)	33 (10)	66 (20)	82 (25)	82 (25)	82 (25)	
<b>Max. total lenght</b>	ft (m)	66 (20)	197 (60)	230 (70)	246 (75)	246 (75)	

### Indoor Unit



### Outdoor Unit



Indoor units (Wallmount)	L		H		D		A		B		C	
	po	mm	po	mm	po	mm	po	mm	po	mm	po	mm
GWH09QC-D3DNB6D-I GWH12QC-D3DNB6D-I	33 1/4	845	11 3/8	289	8 1/4	209	4 11/16	119	21 5/16	542	7 1/4	184
GWH18QD-D3DNB6G-I	38 3/16	970	11 13/16	300	8 13/16	224	4	102	27	686	7 3/16	183
GWH24QE-D3DNB6D-I	42 7/16	1078	12 13/16	325	9 11/16	246	8 1/8	206	27	686	7 5/16	186

Outdoor units	L		H		D		A		B	
	po	mm	po	mm	po	mm	po	mm	po	mm
GWHD(18)ND3GO	38	955	27 9/16	700	15 5/8	396	22	559	14 1/2	368
GWHD(24)ND3GO	38 9/16	980	31 1/8	790	17 5/16	427	22	559	14 1/2	368
GWHD(30)ND3GO	38 7/16	980	31	787	17 5/16	427	24	610	15 3/4	399
GWHD(36)ND3GO	42 1/2	1080	43 7/16	1103	17 5/16	440	24 13/16	630	14 13/16	376
GWHD(42)ND3EO										

## Indoor Unit Models

### Wallmount

# Product			GWH09QC-D3DNB6D-I	GWH12QC-D3DNB6D-I	GWH18QD-D3DNB6G-I	GWH24QE-D3DNB6D-I
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5275 (18000)	6448 (22000)
	Min. - max.	W (BTU/hr)	909 - 2813 (3100 - 9600)	909 - 3810 (3100 - 13000)	1993 - 5861 (6800 - 20000)	2000 - 8000 (6824 - 27296)
Heating capacity	Nominal	W (BTU/hr)	3224 (11000)	3810 (13000)	5803 (19800)	6741 (23000)
	Min. - max.	W (BTU/hr)	560 - 3517 (1911 - 12000)	703 - 4103 (2400 - 14000)	2151 - 6887 (7340 - 23500)	2000 - 9000 (6824 - 30708)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.4)	3.8 (1.8)	4.23 (2)
Air flow volume	T / H / M / L <sup>1</sup>	cfm	377 / 288 / 241 / 170	400 / 288 / 241 / 171	559 / 488 / 412 / 335	706 / 647 / 589 / 530
Sound level	T / H / M / L <sup>1</sup>	dB (A)	43 / 39 / 35 / 29	45 / 39 / 35 / 29	47 / 43 / 40 / 39	48 / 44 / 40 / 36
Fan motor power input		W	20	20	60	60
Fan motor RLA		A	0.09	0.09	0.24	0.38
Deflector motor power input		W	1.5	1.5	2.5	2.5
Net Weight		lb (kg)	22 (10)	22 (10)	28 (12.5)	34 (15.5)
Liquid pipe outer diameter		In.	1/4	1/4	1/4	1/4
Gaz pipe outer diameter		In.	3/8	1/2	5/8	5/8

<sup>1</sup> Cross-flow fan speeds : (T) Turbo / (H) High / (M) Medium / (L) Low.

### Console

# Product			GEH09AA-D3DNA1C/I	GEH12AA-D3DNA1C/I	GEH18AA-D3DNA1C/I
Qty					
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3510 (12000)	5270 (18000)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3810 (13000)	5800 (19800)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.4)	1.8 (3.80)
Air flow volume	Min. – max.	cfm	188 / 382	206 / 441	650
Sound level	Min. – max.	dB (A)	26 / 40	27 / 43	35 / 48
Dimensions	L x H x W	po. (mm)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)
Net weight		lb (kg)	33 (15)	33 (15)	33 (15)
Liquid pipe outer diameter		in.	1/4	1/4	1/4
Gas pipe outer diameter		in.	3/8	3/8	1/2

### Floor or Ceiling Unit

# Product			GTH09BA-D3DNA1A/I	GTH12BA-D3DNA1A/I	GTH18BA-D3DNA1A/I	GTH24BA-D3DNA1A/I
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2500 (8500)	3500 (11900)	5000 (17000)	6680 (22800)
Heating capacity	Nominal	W (BTU/hr)	2800 (9500)	3850 (13100)	5500 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.4)	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
Dimensions	L x H x W	po. (mm)	48 x 27 5/8 x 8 7/8 (1220 x 700 x 225)	48 x 27 5/8 x 8 7/8 (1220 x 700 x 225)	48 x 27 5/8 x 8 7/8 (1220 x 700 x 225)	48 x 27 5/8 x 8 7/8 (1220 x 700 x 225)
Net weight		lb (kg)	88 (40)	88 (40)	88 (40)	99 (45)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

### Ductable unit

# Product			GFH09EA-D3DNA1A/I	GFH12EA-D3DNA1A/I	GFH18EA-D3DNA1A/I	GFH24EA-D3DNA1A/I
Qty						
Cooling capacity	Nominale	W (BTU/hr)	2500 (8500)	3500 (11900)	4484 (15300)	6975 (23800)
Heating capacity	Nominale	W (BTU/hr)	2800 (9500)	3850 (13100)	5500 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.4)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. – max.	cfm	125/ 264	176 / 324	294 / 412	324 / 588
Sound level	Min. – max.	dB (A)	31 / 37	32 / 39	33 / 41	34 / 42
Dimensions	L x H x W	po. (mm)	27 5/8 x 7 7/8 x 24 3/16 (700 x 200 x 615)	27 5/8 x 7 7/8 x 24 3/16 (700 x 200 x 615)	35 3/8 x 7 7/8 x 24 3/16 (900 x 200 x 615)	43 5/16 x 7 7/8 x 24 3/16 (1100 x 2000 x 615)
Net weight		lb (kg)	49 (22)	51 (23)	60 (27)	68 (31)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

### Cassette

# Product			GKH12BB-D3DNA3A/I	GKH18BB-D3DNA3A/I	GKH24BC-D3DNA4A/I
Qty					
Cooling capacity	Nominale	W (BTU/hr)	12000.004	14400.346	22800.349
Heating capacity	Nominale	W (BTU/hr)	12999.72	16000.233	27400.066
Dehumidification		pt/hr (l/hr)	2.96 (1.4)	3.80 (1.80)	5.28 (2.50)
Air flow volume SS/H/MH/M/ML/L/SL)		m <sup>3</sup> /h	650/560/520/450	710/670/590/450	1280/1220/1100/880
Sound level	Min. – max.	dB (A)	34 / 44	35 / 47	36 / 47
Unit Dimensions	W x D x H	po. (mm)	596×596×240	596×596×240	840×840×240
Package Dimensions	W x D x H	po. (mm)	763×763×105	763×763×105	1033×1038×133
Net weight		lb (kg)	44 (20)	44 (20)	57 (26)
Liquid pipe outer diameter		mm	6	6	9.52
Gas pipe outer diameter		mm	9.52	12	16

**Specifications can change without notice**

*Note that each unit is individually packaged.*

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