



## Fairy Ultra Heat

### Ductless Single 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.
- 9000, 12000, 18000, 24000 BTU/hr.
- 230/208V, 60 Hz, 1-phase.
- High wall installation, dual side connection.
- Plastic housing, standard white.
- 7-speed cross-flow fan (auto, turbo, high, medium-high, medium, low and very low).
- Washable filters.
- 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.
- Minimum piping length of 10 ft. (3 m).
- Flared connections.
- Wireless remote included.
- Wired wall controller available.
- Wi-Fi (optional).
- Sinopé interface (optional HP6000ZB-GE and GT130 required).
- Set temperature: 16 to 30 °C (61 to 86 °F).
- Temperature display format: °C or °F.
- **10+2 year parts and 10+2 year compressor basic warranty (labor not included).\***
- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

#### Includes



#### Optional



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

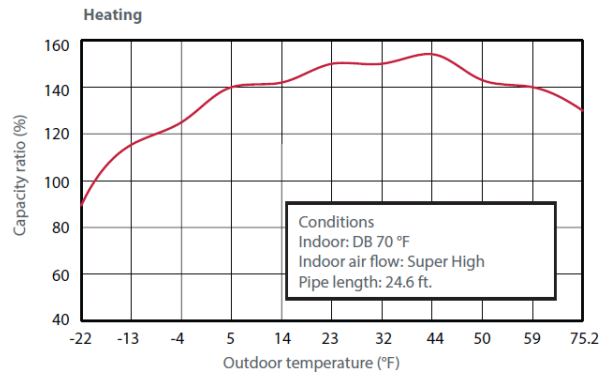
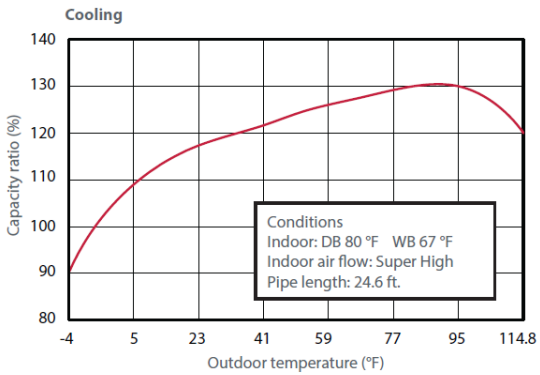
## Models

Product # <sup>1</sup>	Indoor Unit		GWH09QD-D3DNE6B/I	GWH12QD-D3DNE6A/I	GWH18QE-D3DND6A/I	GWH24QE-D3DND6L/I
	Outdoor Unit		GWH09ACD-D3DNA1A/O	GWH12YD-D3DNA1A/O	GWH18YE-D3DNA1A/O	GWH24YE-D3DNA1A/O
<b>Qty</b>						
<b>Technical Performance</b>						
<b>Voltage</b>		Volts	230/208	230/208	230/208	230/208
<b>Cooling capacity</b>	<b>Nominal</b>	W (BTU/hr)	2638 (9000)	3517 (12000)	5276 (18000)	6450 (22000)
	<b>Min. – max.</b>	W (BTU/hr)	450 - 3800 (1535 - 12966)	850 - 4500 (2900 - 15354)	1200 - 6400 (4094 - 21837)	2000 - 9000 (6800 - 30700)
<b>Heating capacity</b>	<b>Nominal</b>	W (BTU/hr)	2638 (9000)	3575 (12200)	5276 (18000)	7000 (24000)
	<b>Min. – max.</b>	W (BTU/hr)	700 - 4000 (2388 - 13648)	900 - 5500 (3071 - 18766)	1200 - 7200 (4094 - 24566)	2000 - 9500 (6800 - 32000)
<b>Used cooling power input</b>	<b>Nominal</b>	W	540	785	1330	1700
	<b>Min. – max.</b>	W	50 - 1400	75 - 1500	350 - 2500	450 - 3700
<b>Used heating power input</b>	<b>Nominal</b>	W	590	940	1500	2000
	<b>Min. – max.</b>	W	200-1500	250 - 1600	350 - 2500	380 - 3700
<b>Used rated input</b>		W	1500	1600	2500	3700
<b>Rated current</b>		A	6.2	6.5	10.8	16.4
<b>MCA</b>		A	9	9	22	22
<b>Max. over-current protection (MOCP)</b>		A	15	15	30	35
<b>SEER2 (SEER)</b>		-	27(38)	24(30.5)	22(24.5)	21.5(21.5)
<b>HSPF2 (HSPF)</b>		-	11(15)	8.5(14)	10(12)	9.5(12)
<b>EER</b>		W/W	4.84	4.48	3.97	3.81
<b>COP</b>		W/W	4.47	3.8	3.52	3.5
<b>AHRI number</b>		-	202360989	9116197	9102074	9102794
<b>ENERGY STAR</b>		-	✓	✓	✓	✓
<b>Indoor Unit</b>						
<b>Dehumidification</b>		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.20 (2.50)
<b>Air flow volume</b>		cfm	424 / 383 / 353 / 324 / 294 / 265 / 206	500 / 471 / 441 / 353 / 324 / 265 / 235	736 / 677 / 618 / 559 / 500 / 457 / 353	824 / 765 / 706 / 647 / 589 / 500 / 383
<b>Sound level</b>		dB (A)	43 / 40 / 38 / 36 / 33 / 31 / 19	49 / 46 / 43 / 40 / 37 / 34 / 22	51 / 48 / 45 / 42 / 39 / 36 / 34	52 / 49 / 46 / 43 / 40 / 37 / 34
<b>Fan motor power output</b>		W	60	60	60	70
<b>Fan motor RLA</b>		A	0.09	0.09	0.24	0.38
<b>Deflector stepper motor power output</b>		W	2.5 / 1.5	2.5 / 1.5	2.5 / 1.5	2.5
<b>Net weight</b>		lb (kg)	29.8 (13.5)	29.8 (13.5)	36.4 (16.5)	36.4 (16.5)
<b>Outdoor Unit</b>						
<b>Air flow volume</b>		m <sup>3</sup> /hr	2400	2400	2354	4000
<b>Sound level</b>		dB (A)	53	53	59	59
<b>Compressor power input</b>		W	1070	1070	2443	2443
<b>Compressor LRA</b>		A	35	35	30	30
<b>Compressor RLA</b>		A	6.9	6.9	15.5	16
<b>Fan motor power output</b>		W	30	30	90	90
<b>Fan motor RLA</b>		A	0.24	0.24	0.65	0.65
<b>Refrigerant volume (R410A)</b>		oz (g)	45.9 (1301)	49.4 (1400)	70.6 (2101)	81.1 (2299)
<b>Net weight</b>		lb (kg)	99.2 (45)	99.2 (45)	141.1 (64)	147.7 (67)
<b>Operating ambient temperature</b>	<b>Cooling</b>	°C (°F)	-18 to 54 (0 to 129)			
	<b>Heating</b>	°C (°F)	-30 to 24 (-22 to 75)			
<b>Connection Piping/Refrigerant</b>						
<b>Pre-charge length</b>		ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
<b>Additional refrigerant charge</b>		oz/ft. (g/m)	0.2 (20)	0.2 (20)	0.5 (505)	0.5 (50)
<b>Liquid pipe outer diameter</b>		in.	1/4	1/4	1/4	1/4
<b>Gas pipe outer diameter</b>		in.	1/2	1/2	5/8	5/8
<b>Maximum height difference</b>		ft. (m)	49 (15)	49 (15)	66 (20)	98 (30)
<b>Maximum total length</b>		ft. (m)	98 (30)	98 (30)	100 (30)	164 (50)

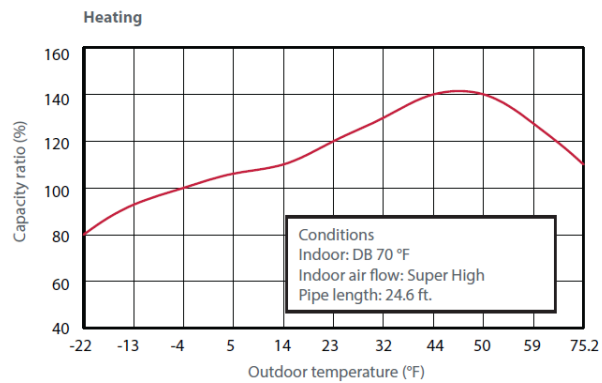
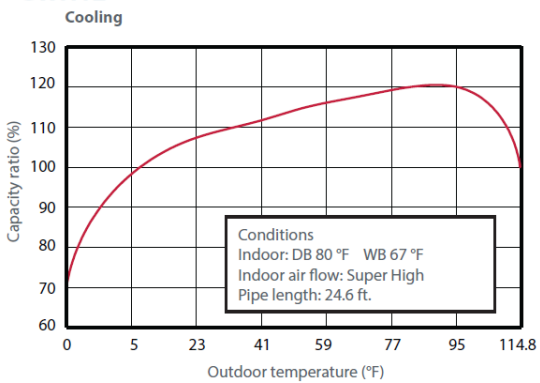
<sup>1</sup> 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

## Capacity Variation Ratio According to Temperature

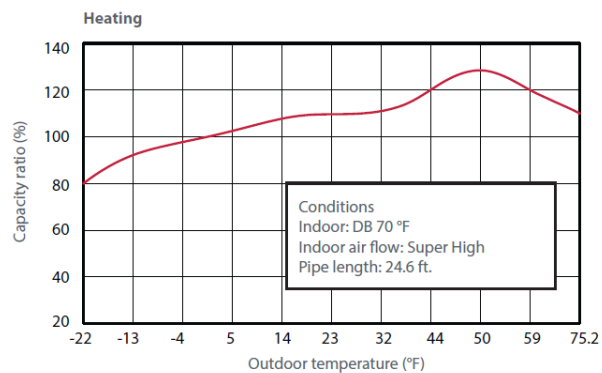
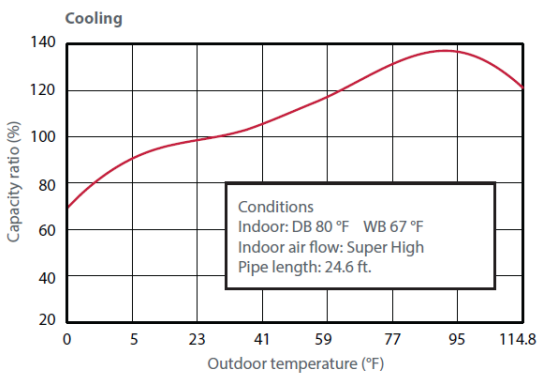
### GWH09



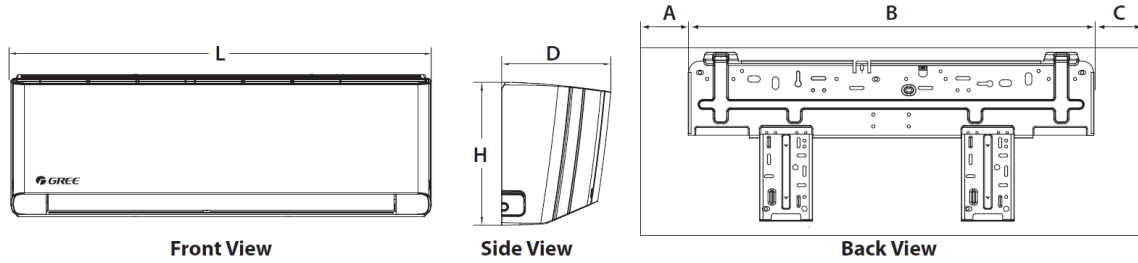
### GWH12



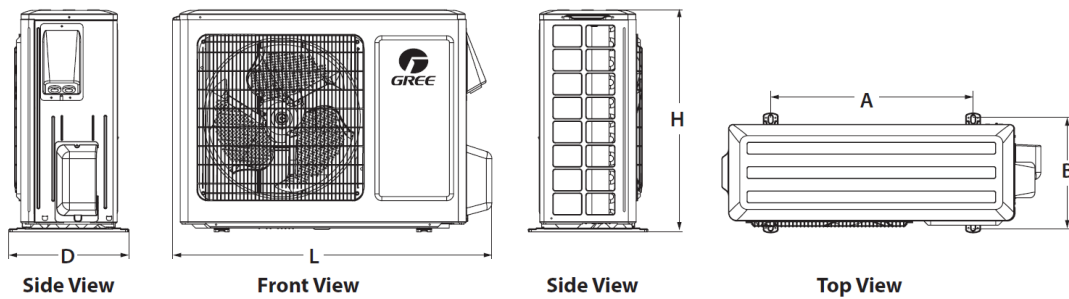
### GWH18 & GWH24



### Indoor Unit



### Outdoor Unit



Indoor Unit	L		H		D		A		B		C	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
GWH09QD-D3DNE6B/I GWH12QD-D3DNE6A/I	39 3/16	970	11 7/8	302	8 7/8	225	4 5/8	117	27	685	7 5/8	194
GWH18QE-D3DNE6A/I GWH24QE-D3DNE6L/I	43 3/8	1078	12 7/8	325	9 13/16	246	8 9/16	217	26 15/16	684	7 7/8	199

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
GWH09ACD-D3DNA1A/O GWH12YD-D3DNA1A/O	35 3/8	899	23 1/2	596	14 7/8	378	21 11/16	550	13 1/2	343
GWH18YE-D3DNA1A/O GWH24YE-D3DNA1A/O	38 5/8	1000	31 1/8	790	16 13/16	427	24	610	15 9/16	395

**Specifications may change without prior notice**

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