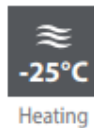


LOMO-23 series

Ductless single zone heat pump



Performance up to



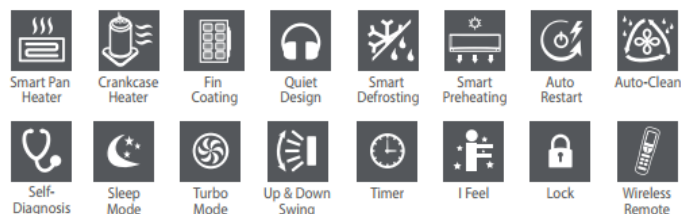
Up to



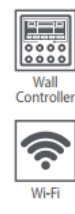
Features

- Operation mode**
 - Cooling, heating, dehumidifying, fan and auto.
- Nominal capacity**
 - 9000, 12000, 18000, 24000 BTU/hr.
- Voltage**
 - 230/208V, 60 Hz, 1-phase.
- Indoor unit**
 - High wall installation, dual side connection.
 - Plastic housing, standard white.
 - 4-speed cross-flow fan (turbo, high, medium et low).
 - Washables filters.
- Outdoor unit**
 - 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.
 - Heating wire in the defrost pan to prevent ice build-up.
 - Compressor blanket and preheating technology.
 - Installation on an adjustable steel wall bracket, painted with epoxy / polyester powder (optional).
- Connection piping**
 - Minimum piping length of 10 ft (3 m).
 - Flared connections.
- Control**
 - Wireless remote included.
 - 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.
- Warranty**
 - Note:** All heat pump systems must be installed by a certified Dettson installer to benefit from the basic warranty.
 - 10+2 year parts and 10+2 year compressor basic warranty (labor not included).*
- Application**
 - 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 ¹ | Indoor unit | | GWH09QC-D3DNB6D-I GWH09QC-D3DNAID-O | GWH12QC-D3DNB6D-I GWH12QC-D3DNAID-O | GWH18QD-D3DNB6G-I GWH18QD-D3DNAIG-O | GWH24QE-D3DNB6D-I GWH24QE-D3DNAID-O | GWH30QF-D3DNB2K/I GWH30QF-D3DNB2K/O | GWH36QF-D3DNB2O/I GWH36QF-D3DNB2O/O |
|--------------------------------------|----------------------|-----------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| | Outdoor unit | | | | | | | |
| Qty | | | | | | | | |
| Technical performance | | | | | | | | |
| Voltage | | Volts | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 | 230/208 |
| Cooling capacity | Nominal | W (BTU/hr) | 2638 (9000) | 3517 (12000) | 5275 (18000) | 6448 (22000) | 8792 (30000) | 9847 (33600) |
| | Min. - max. | W (BTU/hr) | 909 - 2813 (3100 - 9600) | 909 - 3810 (3100 - 13000) | 1993 - 5861 (6800 - 20000) | 2000 - 8000 (6824 - 27296) | 2781 - 8800 (9490 - 30000) | 2169 - 10550 (7400 - 36000) |
| Heating capacity | Nominal | W (BTU/hr) | 3224 (11000) | 3810 (13000) | 5803 (19800) | 6741 (23000) | 8792 (30000) | 10140 (34600) |
| | Min. - max. | W (BTU/hr) | 560 - 3517 (1911 - 12000) | 703 - 4103 (2400 - 14000) | 2151 - 6887 (7340 - 23500) | 2000 - 9000 (6824 - 30708) | 2931 - 9668 (10000 - 32990) | 4390 - 10550 (14980 - 36000) |
| Used cooling power input | Nominal | W | 630 | 960 | 1435 | 1830 | 2839 | 3650 |
| | Min. - max. | W | 160 - 1300 | 200 - 1350 | 450 - 2150 | 450 - 3000 | - | - |
| Used heating power input | Nominal | W | 1020 | 1100 | 1730 | 2000 | 2750 | 3620 |
| | Min. - max. | W | 160-1350 | 400 - 1400 | 580 - 2600 | 450 - 3000 | - | - |
| Used rated input | | W | 1350 | 1400 | 2600 | 3000 | 3800 | 4200 |
| Rated current | | A | 6 | 6.3 | 12.5 | 14.5 | 16.5 | 19 |
| MCA | | A | 9 | 9 | 16 | 20 | 20 | 24 |
| Max over-current protection (MOCP) | | A | 15 | 15 | 25 | 30 | 30 | 40 |
| SEER | | - | 23 | 22 | 20 | 20 | 18 | 18 |
| HSPF | | - | 10.5 | 10.1 | 10 | 10 | 9 | 9 |
| EER | | W/W | 4.19 | 3.66 | 3.68 | 3.66 | 3.1 | 2.7 |
| COP | | W/W | 3.16 | 3.46 | 3.35 | 3.37 | 3.30 | 2.80 |
| ENERGY STAR | | - | ✓ | ✓ | ✓ | ✓ | - | - |
| Indoor unit | | | | | | | | |
| Dehumidification | | pt/hr (L/hr) | 1.69 (0.80) | 2.96 (1.4) | 3.8 (1.80) | 4.23 (2.00) | 6.34 (3.60) | 6.34 (3.60) |
| Air flow volume | T/H/M/L ² | cfm | 377 / 288 / 241 / 170 | 400 / 288 / 241 / 171 | 559 / 488 / 412 / 335 | 706 / 647 / 589 / 530 | 820 / 706 / 589 / 441 | 824 / 706 / 589 / 441 |
| Sound level | T/H/M/L ² | dB (A) | 43 / 39 / 35 / 29 | 45 / 39 / 35 / 29 | 47 / 43 / 40 / 39 | 48 / 44 / 40 / 36 | 55 / 50 / 46 / 37 | 55 / 50 / 46 / 37 |
| Fan motor power output | | W | 20 | 20 | 60 | 60 | 70 | 70 |
| Fan motor RLA | | A | 0.09 | 0.09 | 0.24 | 0.38 | 0.55 | 0.55 |
| Deflector stepper motor power output | | W | 1.5 | 1.5 | 2.5 | 2.5 | 1.5 | 1.5 |
| Net weight | | lb (kg) | 22 (10) | 22 (10) | 28 (12.5) | 34 (15.5) | 43 (19.5) | 44 (20) |
| Outdoor Unit | | | | | | | | |
| Air flow volume | | cfm | 1059 | 2000 | 3200 | 2354 | 2354 | 2354 |
| Sound level | | dB (A) | 53 | 54 | 55 | 59 | 60 | 61 |
| Compressor power input | | W | 845 | 845 | 1440 | 2550 | 2420 | 2420 |
| Compressor LRA | | A | - | - | 25 | 25 | - | 24 |
| Compressor RLA | | A | 4 | 4 | 12.08 | 11.5 | 16.9 | 16.9 |
| Fan motor power output | | W | 30 | 30 | 60 | 92 | 92 | 92 |
| Fan motor RLA | | A | - | 0.36 | 0.49 | 0.65 | 0.70 | 0.70 |
| Refrigerant volume (R410A) | | oz (g) | 45.9 (1301) | 47.6 (1349) | 56.44 (1600) | 77.6 (2200) | 77.6 (2200) | 88.2 (2500) |
| Net weight | | lb (kg) | 78 (35.5) | 86 (39) | 106 (48) | 142 (65.5) | 139 (63) | 140 (63.5) |
| Operating ambient temperature | Cooling | °C (°F) | -18 to 46 (0 to 115) | | | | | |
| | Heating | °C (°F) | -25 to 24 (-13 to 75) | | | | | |
| Connection piping/refrigerant | | | | | | | | |
| Pre-charge length | | ft (m) | 25 (7.5) | 25 (7.5) | 25 (7.5) | 25 (7.5) | 25 (7.5) | 25 (7.5) |
| Additional refrigerant charge | | oz/ft (g/m) | 0.2 (20) | 0.2 (20) | 0.2 (20) | 0.5 (50) | 0.2 (20) | 0.2 (20) |
| Liquid pipe outer diameter | | In | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| Gas pipe outer diameter | | In | 3/8 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 |
| Maximum height difference | | ft (m) | 33 (10) | 33 (10) | 33 (10) | 33 (10) | 33 (10) | 33 (10) |
| Maximum total length | | ft (m) | 49 (15) | 66 (20) | 82 (25) | 82 (25) | 82 (25) | 82 (25) |

¹ 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged

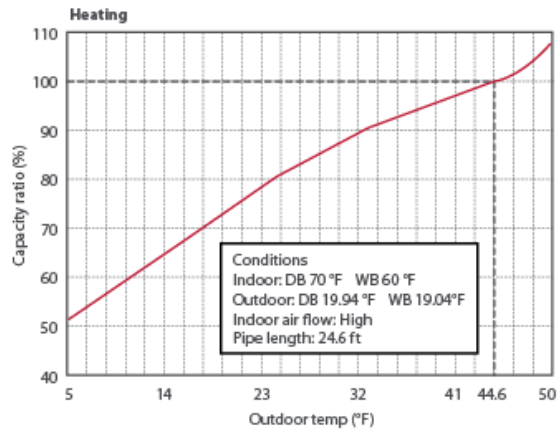
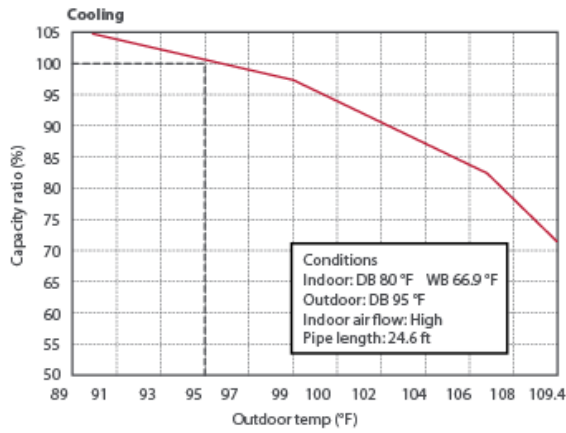
² Cross-flow fan speeds : (T) Turbo / (H) High / (M) Medium / (L) Low.

Option

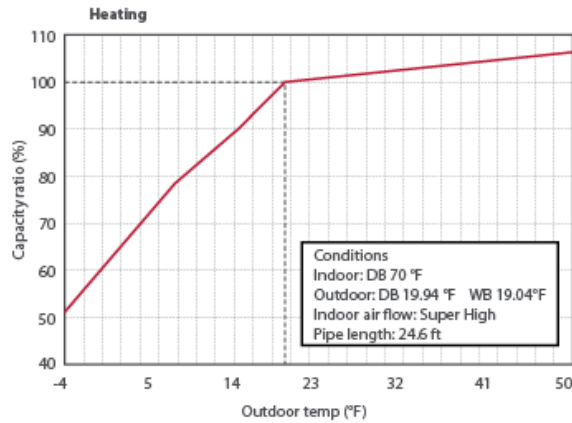
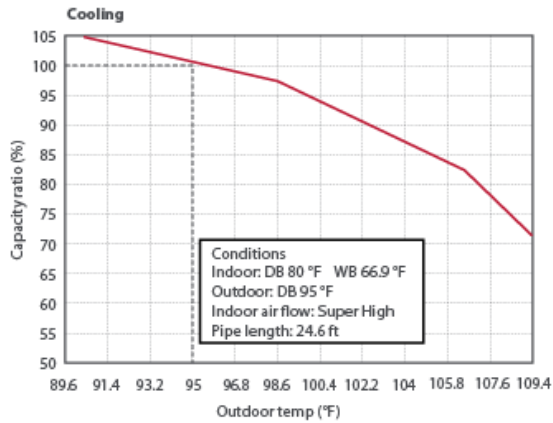
| # Product | Description | Qty |
|-----------|-------------|-----|
| WSBEC04 | Wi-Fi kit | |

Variation of the capacity ratio as a function of the outside temperature

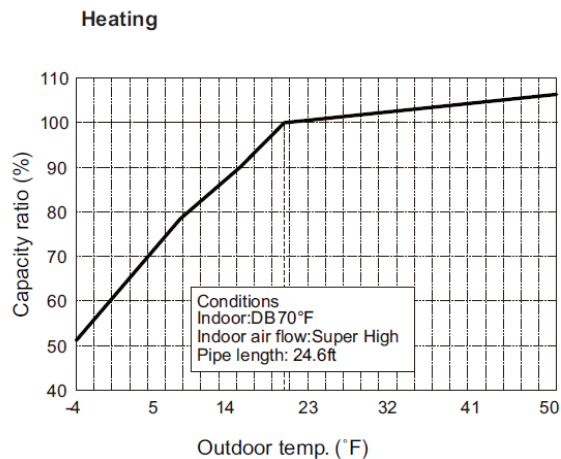
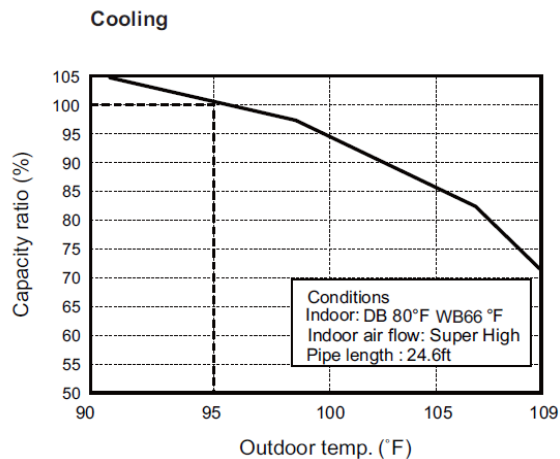
GWH09 & GWH12



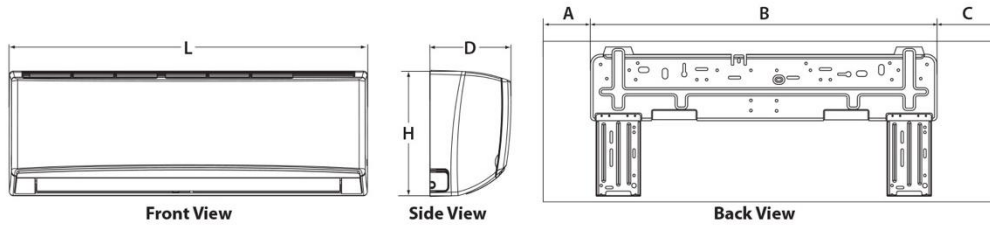
GWH18 & GWH24



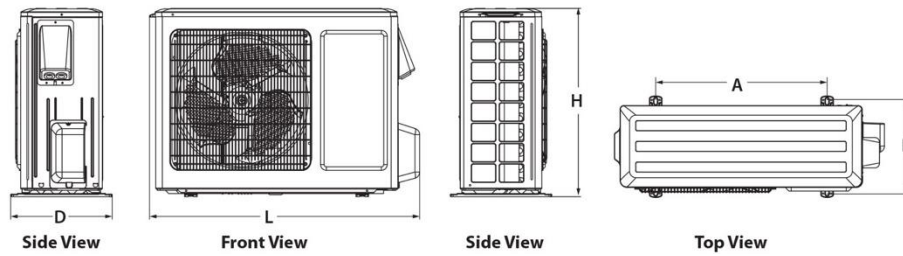
GWH30 & GWH36



Indoor Unit



Outdoor Unit



| Indoor unit | L | | H | | P | | A | | B | | C | |
|----------------------------------------|---------|------|----------|-----|---------|-----|---------|-----|---------|-----|--------|-----|
| | in | mm | in | mm | in | mm | in | mm | in | mm | in | 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 unit | L | | H | | P | | A | | B | |
|-------------------|---------|-----|---------|-----|----------|-----|--------|-----|---------|-----|
| | in | mm | in | mm | in | mm | in | mm | in | mm |
| GWH09QC-D3DNAID-O | 33 3/8 | 848 | 21 1/4 | 540 | 12 5/8 | 320 | 21 1/4 | 540 | 11 1/4 | 286 |
| GWH12QC-D3DNAID-O | 33 3/8 | 848 | 23 5/16 | 592 | 12 5/8 | 320 | 21 1/4 | 540 | 11 1/4 | 286 |
| GWH18QD-D3DNAIG-O | 37 5/8 | 955 | 27 9/16 | 700 | 15 9/16 | 396 | 22 | 559 | 14 5/16 | 364 |
| GWH24QR-D3DNB6D-I | 38 9/16 | 980 | 31 1/8 | 790 | 16 13/16 | 427 | 24 | 610 | 15 9/16 | 395 |



Specifications can change without notice

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