

Hi-FLEXi G+ Series



Hi-FLEXi G+ Series is the latest larger capacity full DC inverter-driven multi-split central air conditioning product. It focuses on customers' requirement and comfort, representing Hisense high quality and technology. It's characterized by:

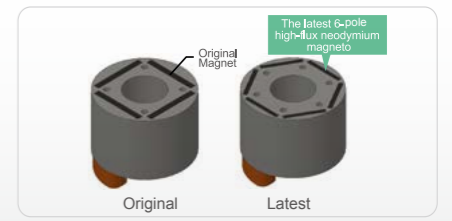
Latest enhanced capacity series:

- Brand new high-pressure chamber scroll compressor
- Integrated high-strength structure and convenient installation
- Adoption of double larger fans and low-pressure loss heat exchanger
- Max. 22HP single unit, 4 modules' combination



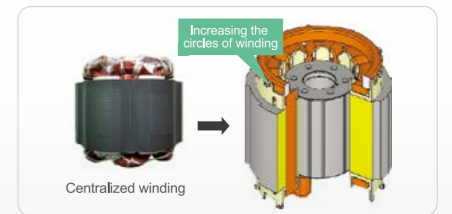
6-pole high-flux neodymium magnetic motor rotor

Motor rotor of the new type compressor uses the latest 6-pole high-flux neodymium magneto structure, rotor shape design is optimized and all rotational speed control is more efficient.



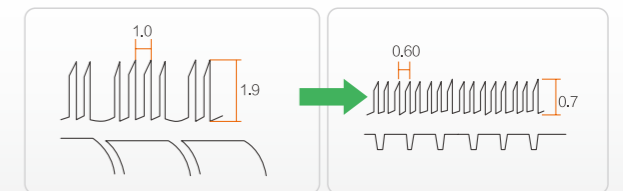
New improved concentrated stator winding

The new type motor stator is equipped with a centralized winding and more turns of windings, sets induced voltage to a higher value (to reduce current) and improves efficiency of motor at low rotational speed.



Improved super-cooling

The optimization of finned tubes, increasing of fins number and reducing of height on the basis of traditional secondary super-cooler reduces its pressure loss, increases coefficient of heat conduction and improves super-cooling performance.



High-precise multiple electronic expansion valves control technology

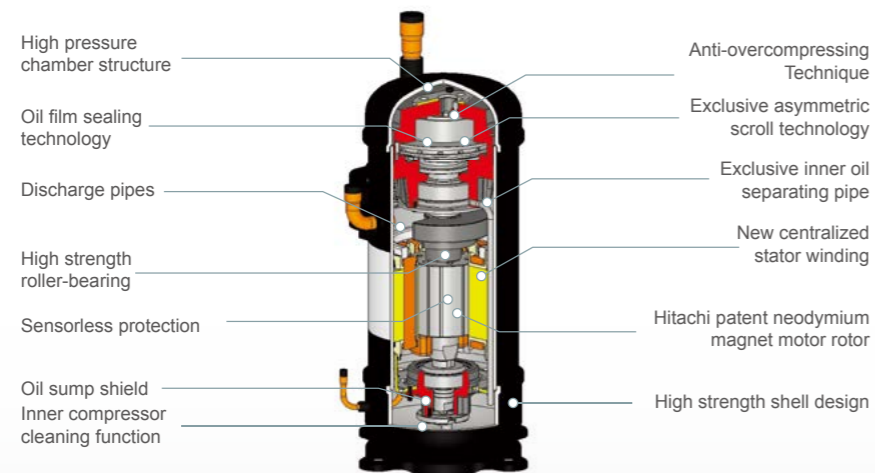
The multiple high-precision electronic expansion valves equipped on the outdoor unit can adjust refrigerant flow of the unit rapidly and accurately according to commands, reduce power consumption during operation, improve energy efficiency and reduce fluctuation of indoor temperature, thus making the environment more comfortable and pleasant.



Upgraded Core Technology

New Hitachi high-pressure chamber scroll compressor, enhancing the efficiency

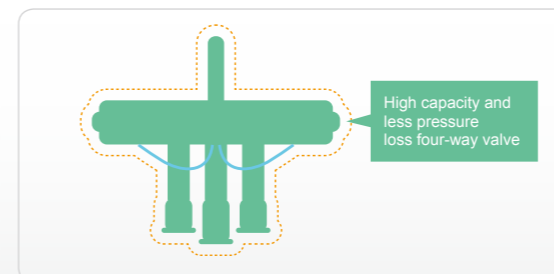
Adoption of the brand new high-pressure chamber scroll compressor realizes high efficiency of motor, optimization of scroll plate and optimum fuel feeding, etc. and increases operation efficiency of compressor under overall operating conditions, especially, enhances intermediate performance greatly.



Motor is the source of power of a compressor. Hi-FLEXi G+ Series compressor is equipped with a new DC motor (with centralized winding) which enhances performance of the compressor significantly at a frequency of 20-80Hz that the compressor operates at most frequently.

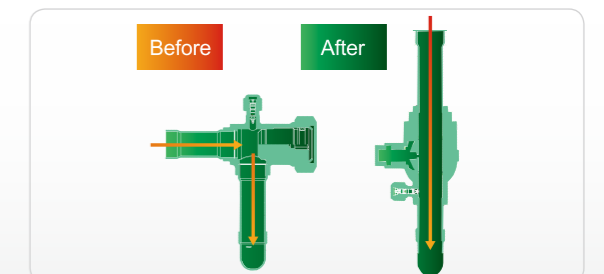
Optimization of the four-way valve

Adoption of the new type high-capacity four-way valve reduces compression at four-way valve greatly, ensures suction intensity of compressor and improves performance of the complete machine.



Optimization of ball check valve

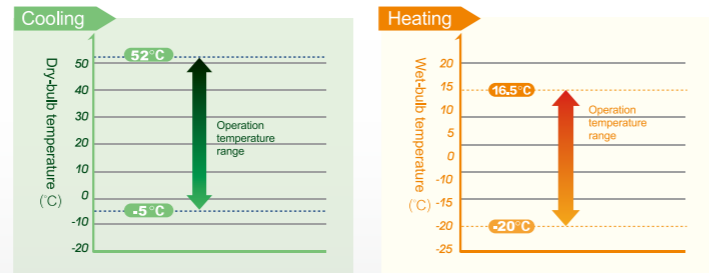
The brand-new ball check valve, in which there is almost no part hindering fluid flow and thus the local pressure loss is improved significantly, enhances efficiency of the whole system.



Wide Operation Range

The highest working temperature reaches upto 52°C in cooling mode, and lowest working temperature reaches -20°C in heating mode.

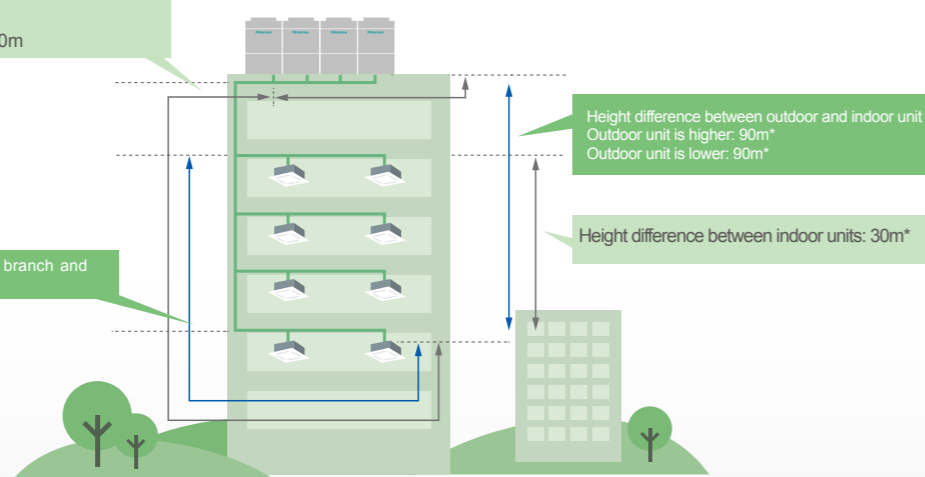
Note: when the designed cooling temperature is over 43°C, please contact our professional engineer.



More Flexible Refrigerant Piping Work

Max. piping length: 190m*
Max. total piping length: 1000m

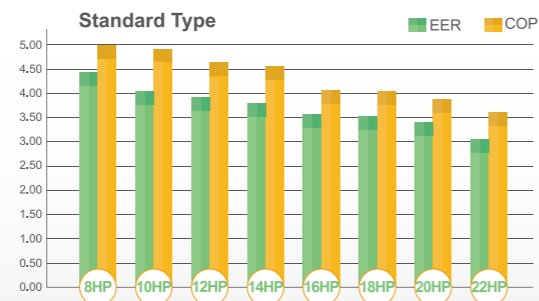
Max. piping length between 1st branch and indoor unit: 90m



Note: For data marked by *, please contact our professional engineer.

New-efficiency

The Hi-FLEXi G+ Series adopts new structure and advanced technology, providing new High efficiency combination solution.

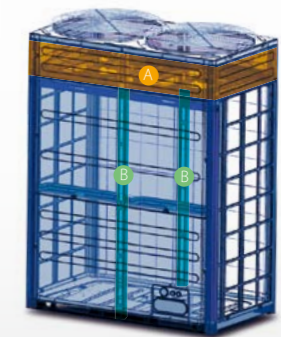


New Appearance

The built-in design of PP air duct ensures safety of inner core effectively

Combination of the integrated sheet-metal upper cover and protecting wire net structure realizes built-in design of PP air duct with optimal protection performance, effectively protecting important parts (e.g. fan) from being damaged when the outdoor unit being hit by object from high altitudes.

- A High strength motor bracket, more stable and quiet
- B High strength frame structure with inside upright column



Integrated high-strength side plate decreases vibration and reduces noises

Compared with the form combining stand column with wire net, Hi-FLEXi G+ Series is equipped with integrated high-strength side plates made from high-quality materials, which increases air handling area and reduces the vibration and noises produced during operation of the machine.



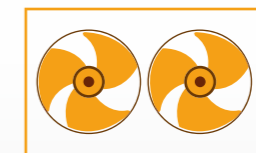
Common air conditioner



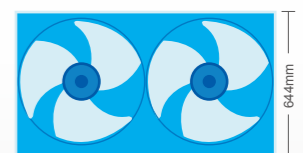
Hi-FLEXi G+ Series

The 644mm large dual-fan leads the industry

Hi-FLEXi G+ Series (20-22HP) is equipped with 644mm×2 large fans characterized by low noise and large air flow, greatly improving heat exchange efficiency of heat exchanger.



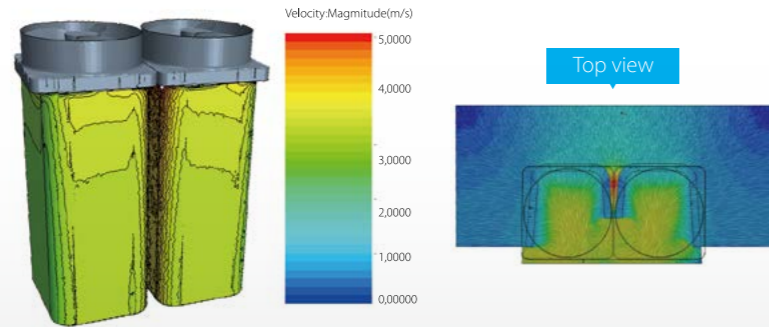
Common double fans diameter: 540mm



Hisense double large fans diameter: 644mm

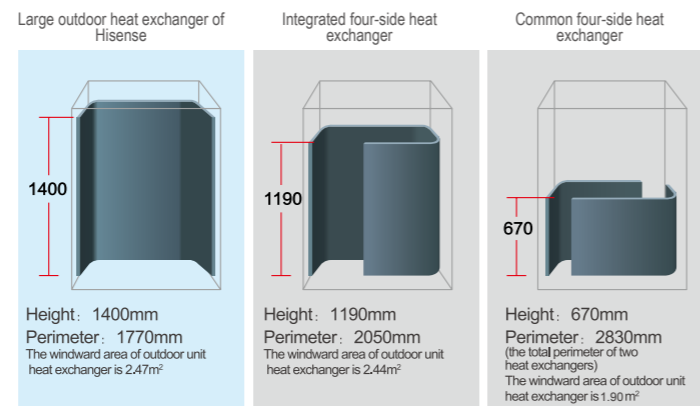
6-side heat exchanging of low pressure-loss Σ type heat exchanger

The low pressure-loss Σ type heat exchanger is structurally designed with a 6-side heat exchange structure and dual-fan, which realizes more uniform distribution of heat exchanger's wind field gradient under the same air-flow conditions, and improves heat-exchanging efficiency of heat exchanger. Meanwhile, higher height, larger heat exchange area and low pressure-loss optimization of flow in bypass branch of the heat exchanger itself improves heat-exchanging efficiency of refrigerant and ensures strong heat-exchanging performance of the complete machine.



Large outdoor heat exchanger

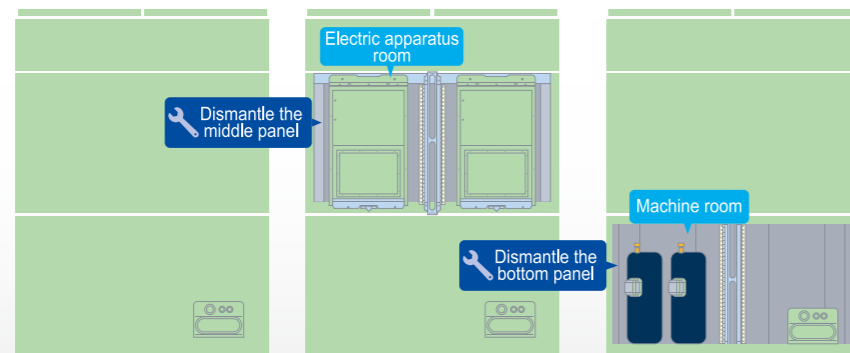
For the large outdoor heat exchanger of Hisense, the heat exchanger is characterized by larger face area and better heat-exchanging efficiency. Meanwhile, it reserves more space for arrangement of piping of refrigerating system and heat exchanger distribution pipe, thus ensuring better maintainability.



Note: the other shape of heat exchanger is taken as an example.

Separation of machine room and electric room makes maintenance more convenient

In the new structure, divisional design of front metal plate, separate assembling of metal plates in each part and separation of electric room and machine room improve repair and maintenance convenience. Modularized design of electric box and spatial independence of two variable frequency compressors' control circuits reduce mutual crosstalk, enhance EMC performance greatly and make heat emission efficiency better.



New Installation

The modular design makes installation easier

Hi-FLEXi G+ Series is characterized by compact structure and modular design by breaking up the whole system into parts, making it easier for both installation and transportation. Taking 88HP as an example, capacity of a single-module product is up to 22HP. And, it can be an assembly of 4 modules, not only meeting the high-capacity requirement but effectively save the space.



The volume is convenient for elevator transportation

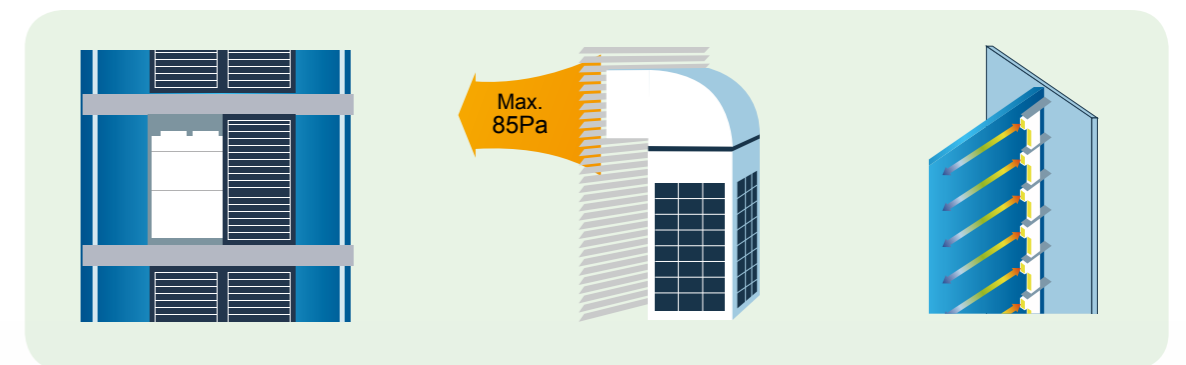
Static pressure of outdoor unit is up to 85Pa

The maximum static pressure of outdoor unit is up to 85Pa and is suitable for layered installation and centralized installation.

The higher static pressure and longer air supplying distance of outdoor unit ensures smooth circulation of air flow and solves the problem of heat dissipation of outdoor unit effectively.

The outdoor unit featured with higher static pressure, well responds to the severe environment where the outdoor unit is placed at, is available for more flexible arrangement and is favorable for concealed installation of outdoor unit.

*Note: for details, please consult the technical personnel.



Layered arrangement of outdoor unit solves the problem of heat dissipation easily

Favorable for concealed installation of outdoor unit and making the facade more aesthetic

Air distribution schematic diagram

Outdoor Unit Specifications



| Hi-FLEXi G+ Series | | HP | 8HP | 10HP | 12HP | 14HP |
|---------------------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-76UKSNA | AVWT-96UKSNA | AVWT-114UKSNA | AVWT-136UKSTA |
| | AC3Φ208~230V/60Hz | | AVWT-76U8SNA | AVWT-96U8SNA | AVWT-114U8SNA | AVWT-136U8STA |
| Combination | | | | | | |
| Cooling Operation | Nominal Capacity | kW | 22.4 | 28.0 | 33.5 | 40.0 |
| | | KBtu/h | 76.4 | 95.5 | 114.3 | 136.5 |
| | Power Consumption | kW | 5.00 | 6.95 | 8.66 | 10.61 |
| | EER | | 4.48 | 4.03 | 3.87 | 3.77 |
| Heating Operation | Nominal Capacity | kW | 25.0 | 31.5 | 37.5 | 45.0 |
| | | KBtu/h | 85.3 | 107.5 | 128.0 | 153.5 |
| | Power Consumption | kW | 5.00 | 6.35 | 8.06 | 9.91 |
| | COP | | 5.00 | 4.96 | 4.65 | 4.54 |
| Air Flow Rate | m³/h | 9,300 | 10,200 | 10,500 | 11,700 | |
| Outer Dimension (H×W×D) | mm | 1,730×950×750 | 1,730×950×750 | 1,730×950×750 | 1,730×1,210×750 | |
| Packing Dimension (H×W×D) | mm | 1,930×1,015×790 | 1,930×1,015×790 | 1,930×1,015×790 | 1,930×1,275×790 | |
| Net Weight | Kg | 239 | 240 | 241 | 331 | |
| Gross Weight | Kg | 251 | 252 | 253 | 353 | |
| Compressor Quantity | | 1 | 1 | 1 | 2 | |
| Condenser Fan Quantity | | 1 | 1 | 1 | 1 | |
| Cabinet Color | | Ivory White | | | | |
| Refrigerant Piping | Gas Line | mm | Φ19.05 | Φ22.2 | Φ25.4 | Φ25.4 |
| | Liquid Line | mm | Φ9.53 | Φ9.53 | Φ12.7 | Φ12.7 |
| Max. number of connectable IDU | | 13 | 16 | 19 | 23 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) |
| Noise Level (208~230V/380~415V) | dB(A) | 63/64 | 65/65 | 65/66 | 66/68 | |
| Operation Range | Cooling | °C DB | -5~52* | | | |
| | Heating | °C WB | -20~16.5 | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.



| Hi-FLEXi G+ Series | | HP | 16HP | 18HP | 20HP | 22HP |
|---------------------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-154UKSTA | AVWT-170UKSTA | AVWT-190UKS1A | AVWT-212UKS1A |
| | AC3Φ208~230V/60Hz | | AVWT-154U8STA | AVWT-170U8STA | AVWT-190U8S1A | AVWT-212U8S1A |
| Combination | | | | | | |
| Cooling Operation | Nominal Capacity | kW | 45.0 | 50.0 | 56.0 | 61.5 |
| | | KBtu/h | 153.5 | 170.6 | 191.1 | 209.8 |
| | Power Consumption | kW | 12.61 | 14.37 | 16.42 | 20.10 |
| | EER | | 3.57 | 3.48 | 3.41 | 3.06 |
| Heating Operation | Nominal Capacity | kW | 50.0 | 56.0 | 63.0 | 69.0 |
| | | KBtu/h | 170.6 | 191.1 | 215.0 | 235.4 |
| | Power Consumption | kW | 12.29 | 13.97 | 16.41 | 19.11 |
| | COP | | 4.07 | 4.01 | 3.84 | 3.61 |
| Air Flow Rate | m³/h | 11,700 | 14,400 | 15,300 | 16,200 | |
| Outer Dimension (H×W×D) | mm | 1,730×1,210×750 | 1,730×1,210×750 | 1,730×1,350×750 | 1,730×1,350×750 | |
| Packing Dimension (H×W×D) | mm | 1,930×1,275×790 | 1,930×1,275×790 | 1,930×1,420×790 | 1,930×1,420×790 | |
| Net Weight | Kg | 332 | 333 | 394 | 395 | |
| Gross Weight | Kg | 354 | 355 | 415 | 416 | |
| Compressor Quantity | | 2 | 2 | 2 | 2 | |
| Condenser Fan Quantity | | 1 | 1 | 2 | 2 | |
| Cabinet Color | | Ivory White | | | | |
| Refrigerant Piping | Gas Line | mm | Φ28.6 | Φ28.6 | Φ28.6 | Φ28.6 |
| | Liquid Line | mm | Φ12.7 | Φ15.88 | Φ15.88 | Φ15.88 |
| Max. number of connectable IDU | | 26 | 26 | 33 | 36 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) |
| Noise Level (208~230V/380~415V) | dB(A) | 66/68 | 67/68 | 69/69 | 69/69 | |
| Operation Range | Cooling | °C DB | -5~52* | | | |
| | Heating | °C WB | -20~16.5 | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Outdoor Unit Specifications



| Hi-FLEXi G+ Series | | HP | 24HP | 26HP | 28HP | 30HP | 32HP | 34HP |
|---------------------------------|-----------------------|-------------------------|-----------------|-----------------|-------------------------|-----------------|-------------------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-232UKSZA | AVWT-250UKSZA | AVWT-268UKSZA | AVWT-287UKSZA | AVWT-306UKSZA | AVWT-324UKSZA |
| | AC3Φ208~230V/60Hz | | AVWT-232U8SZA | AVWT-250U8SZA | AVWT-268U8SZA | AVWT-287U8SZA | AVWT-306U8SZA | AVWT-324U8SZA |
| Combination | | | AVWT-96U* | AVWT-114U* | AVWT-114U* | AVWT-96U* | AVWT-114U* | AVWT-154U* |
| | | | AVWT-136U* | AVWT-136U* | AVWT-154U* | AVWT-190U* | AVWT-190U* | AVWT-170U* |
| Cooling Operation | Nominal Capacity | kW | 68.0 | 73.5 | 78.5 | 84.0 | 89.5 | 95 |
| | | KBtu/h | 232.0 | 250.8 | 267.8 | 286.6 | 305.4 | 324.1 |
| | Power Consumption | kW | 17.56 | 19.27 | 21.26 | 23.37 | 25.08 | 26.97 |
| | EER | | 3.87 | 3.81 | 3.69 | 3.59 | 3.57 | 3.52 |
| Heating Operation | Nominal Capacity | kW | 76.5 | 82.5 | 87.5 | 94.5 | 100.5 | 106.0 |
| | | KBtu/h | 261.0 | 281.5 | 298.6 | 322.4 | 342.9 | 361.7 |
| | Power Consumption | kW | 16.3 | 18.0 | 20.3 | 22.8 | 24.5 | 26.25 |
| | COP | | 4.71 | 4.59 | 4.30 | 4.15 | 4.11 | 4.04 |
| Air Flow Rate | m³/h | 21,900 | 22,200 | 22,200 | 25,500 | 25,800 | 26,100 | |
| Outer Dimension (H×W×D) | mm | 1,730×(950+1,210)×750 | | | 1,730×(950+1,350)×750 | | 1,730×(1,210+1,210)×750 | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,015+1,275)×790 | | | 1,930×(1,015+1,420)×790 | | 1,930×(1,275+1,275)×790 | |
| Net Weight | Kg | 571 | 572 | 573 | 634 | 635 | 665 | |
| Gross Weight | Kg | 605 | 606 | 607 | 667 | 668 | 709 | |
| Compressor Quantity | | 3 | 3 | 3 | 3 | 3 | 4 | |
| Condenser Fan Quantity | | 2 | 2 | 2 | 3 | 3 | 2 | |
| Cabinet Color | | Ivory White | | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ28.6 | Φ31.75 | Φ31.75 | Φ31.75 | Φ31.75 | Φ38.1 |
| | Liquid Line | mm | Φ15.88 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| Max. number of connectable IDU | | 40 | 43 | 47 | 50 | 53 | 56 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) |
| Noise Level (208~230V/380~415V) | dB(A) | 68/69 | 69/70 | 71/73 | 72/73 | 72/73 | 72/73 | |
| Operation Range | Cooling | °C DB | -5~52* | | | | | |
| | Heating | °C WB | -20~16.5 | | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.



| Hi-FLEXi G+ Series | | HP | 36HP | 38HP | 40HP | 42HP | 44HP |
|---------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-----------------|-----------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-340UKSZA | AVWT-364UKSZA | AVWT-382UKSZA | AVWT-398UKSZA | AVWT-420UKSZA |
| | AC3Φ208~230V/60Hz | | AVWT-340U8SZA | AVWT-364U8SZA | AVWT-382U8SZA | AVWT-398U8SZA | AVWT-420U8SZA |
| Combination | | | AVWT-170U* | AVWT-154U* | AVWT-190U* | AVWT-190U* | AVWT-212U* |
| | | | AVWT-170U* | AVWT-212U* | AVWT-190U* | AVWT-212U* | AVWT-212U* |
| Cooling Operation | Nominal Capacity | kW | 100 | 106.5 | 112 | 117.5 | 123 |
| | | KBtu/h | 341.2 | 363.4 | 382.1 | 400.9 | 419.7 |
| | Power Consumption | kW | 28.74 | 32.70 | 32.84 | 36.52 | 40.20 |
| | EER | | 3.48 | 3.26 | 3.41 | 3.22 | 3.06 |
| Heating Operation | Nominal Capacity | kW | 112.0 | 119.0 | 126.0 | 132.0 | 138.0 |
| | | KBtu/h | 382.1 | 406.0 | 429.9 | 450.4 | 470.9 |
| | Power Consumption | kW | 27.9 | 31.4 | 32.8 | 35.5 | 38.2 |
| | COP | | 4.01 | 3.79 | 3.84 | 3.72 | 3.61 |
| Air Flow Rate | m³/h | 28,800 | 27,900 | 30,600 | 31,500 | 32,400 | |
| Outer Dimension (H×W×D) | mm | 1,730×(1,210+1,210)×750 | 1,730×(1,210+1,350)×750 | 1,730×(1,350+1,350)×750 | | | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,275+1,275)×790 | 1,930×(1,275+1,420)×790 | 1,930×(1,420+1,420)×790 | | | |
| Net Weight | Kg | 666 | 727 | 788 | 789 | 790 | |
| Gross Weight | Kg | 710 | 770 | 830 | 831 | 832 | |
| Compressor Quantity | | 4 | 4 | 4 | 4 | 4 | |
| Condenser Fan Quantity | | 2 | 3 | 4 | 4 | 4 | |
| Cabinet Color | | Ivory White | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 |
| | Liquid Line | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| Max. number of connectable IDU | | 59 | 64 | 64 | 64 | 64 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) |
| Noise Level (208~230V/380~415V) | dB(A) | 72/73 | 72/73 | 74/74 | 74/74 | 74/74 | |
| Operation Range | Cooling | °C DB | -5~52* | | | | |
| | Heating | °C WB | -20~16.5 | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
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Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Outdoor Unit Specifications



| Hi-FLEXi G+ Series | | HP | 46HP | 48HP | 50HP | 52HP | 54HP |
|---------------------------------|-----------------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-438UKSZA | AVWT-454UKSZA | AVWT-476UKSZA | AVWT-494UKSZA | AVWT-510UKSZA |
| | AC3Φ208~230V/60Hz | | AVWT-438U8SZA | AVWT-454U8SZA | AVWT-476U8SZA | AVWT-494U8SZA | AVWT-510U8SZA |
| Combination | | | AVWT-114U* | AVWT-114U* | AVWT-114U* | AVWT-114U* | AVWT-170U* |
| | | | AVWT-154U* | AVWT-170U* | AVWT-154U* | AVWT-170U* | AVWT-170U* |
| | | | AVWT-170U* | AVWT-170U* | AVWT-212U* | AVWT-212U* | AVWT-170U* |
| Cooling Operation | Nominal Capacity | kW | 128.5 | 133.5 | 140 | 145.0 | 150 |
| | | KBtu/h | 438.4 | 455.5 | 477.7 | 494.7 | 511.8 |
| | Power Consumption | kW | 35.63 | 37.39 | 41.36 | 43.12 | 43.10 |
| | EER | | 3.61 | 3.57 | 3.38 | 3.36 | 3.48 |
| Heating Operation | Nominal Capacity | kW | 143.5 | 149.5 | 156.5 | 162.5 | 168.0 |
| | | KBtu/h | 489.6 | 510.1 | 534.0 | 554.5 | 573.2 |
| | Power Consumption | kW | 34.3 | 35.99 | 39.5 | 41.1 | 41.9 |
| | COP | | 4.18 | 4.15 | 3.97 | 3.95 | 4.01 |
| Air Flow Rate | m³/h | 36,600 | 39,300 | 38,400 | 41,100 | 43,200 | |
| Outer Dimension (H×W×D) | mm | 1,730×(950+1,210+1,210)×750 | | 1,730×(950+1,210+1,350)×750 | | 1,730×(1,210+1,210+1,210)×750 | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,015+1,275+1,275)×790 | | 1,930×(1,015+1,275+1,420)×790 | | 1,930×(1,275+1,275+1,275)×790 | |
| Net Weight | Kg | 906 | 907 | 968 | 969 | 999 | |
| Gross Weight | Kg | 962 | 963 | 1,023 | 1,024 | 1,065 | |
| Compressor Quantity | | 5 | 5 | 5 | 5 | 6 | |
| Condenser Fan Quantity | | 3 | 3 | 4 | 4 | 3 | |
| Cabinet Color | | Ivory White | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ41.3 | Φ41.3 | Φ41.3 | Φ41.3 | Φ41.3 |
| | Liquid Line | mm | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| Max. number of connectable IDU | | 64 | 64 | 64 | 64 | 64 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) |
| | Between IDUs | m | 15(30°) | 15(30°) | 15(30°) | 15(30°) | 15(30°) |
| Noise Level (208~230V/380~415V) | dB(A) | 74/75 | 74/75 | 74/75 | 74/75 | 75/75 | |
| Operation Range | Cooling | °C DB | -5~52* | | | | |
| | Heating | °C WB | -20~16.5 | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.



| Hi-FLEXi G+ Series | | HP | 56HP | 58HP | 60HP | 62HP | 64HP | 66HP |
|---------------------------------|-----------------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-534UKSZA | AVWT-551UKSZA | AVWT-572UKSZA | AVWT-590UKSZA | AVWT-611UKSZA | AVWT-630UKSZA |
| | AC3Φ208~230V/60Hz | | AVWT-534U8SZA | AVWT-551U8SZA | AVWT-572U8SZA | AVWT-590U8SZA | AVWT-611U8SZA | AVWT-630U8SZA |
| Combination | | | AVWT-154U* | AVWT-170U* | AVWT-170U* | AVWT-170U* | AVWT-190U* | AVWT-212U* |
| | | | AVWT-170U* | AVWT-170U* | AVWT-190U* | AVWT-212U* | AVWT-212U* | AVWT-212U* |
| | | | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* |
| Cooling Operation | Nominal Capacity | kW | 156.5 | 161.5 | 167.5 | 173 | 179 | 184.5 |
| | | KBtu/h | 534.0 | 551.0 | 571.5 | 590.3 | 610.7 | 629.5 |
| | Power Consumption | kW | 47.07 | 48.83 | 50.89 | 54.56 | 56.62 | 60.29 |
| | EER | | 3.32 | 3.31 | 3.29 | 3.17 | 3.16 | 3.06 |
| Heating Operation | Nominal Capacity | kW | 175.0 | 181.0 | 188.0 | 194.0 | 201.0 | 207.0 |
| | | KBtu/h | 597.1 | 617.6 | 641.5 | 661.9 | 685.8 | 706.3 |
| | Power Consumption | kW | 45.4 | 47.0 | 49.5 | 52.2 | 54.6 | 57.3 |
| | COP | | 3.86 | 3.85 | 3.80 | 3.72 | 3.68 | 3.61 |
| Air Flow Rate | m³/h | 42,300 | 45,000 | 45,900 | 46,800 | 47,700 | 48,600 | |
| Outer Dimension (H×W×D) | mm | 1,730×(1,210+1,210+1,350)×750 | | 1,730×(1,210+1,350+1,350)×750 | | 1,730×(1,350+1,350+1,350)×750 | | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,275+1,275+1,420)×790 | | 1,930×(1,210+1,420+1,420)×790 | | 1,930×(1,420+1,420+1,420)×790 | | |
| Net Weight | Kg | 1,060 | 1,061 | 1,122 | 1,123 | 1,184 | 1,185 | |
| Gross Weight | Kg | 1,125 | 1,126 | 1,186 | 1,187 | 1,247 | 1,248 | |
| Compressor Quantity | | 6 | 6 | 6 | 6 | 6 | 6 | |
| Condenser Fan Quantity | | 4 | 4 | 5 | 5 | 6 | 6 | |
| Cabinet Color | | Ivory White | | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ41.3 | Φ44.5 | Φ44.5 | Φ44.5 | Φ44.5 | Φ44.5 |
| | Liquid Line | mm | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| Max. number of connectable IDU | | 64 | 64 | 64 | 64 | 64 | 64 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) | 50(90°)/40(90°) |
| | Between IDUs | m | 15(30°) | 15(30°) | 15(30°) | 15(30°) | 15(30°) | 15(30°) |
| Noise Level (208~230V/380~415V) | dB(A) | 75/76 | 75/76 | 76/76 | 76/76 | 76/76 | 76/76 | |
| Operation Range | Cooling | °C DB | -5~52* | | | | | |
| | Heating | °C WB | -20~16.5 | | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Outdoor Unit Specifications



| Hi-FLEXi G+ Series | | HP | 68HP | 70HP | 72HP | 74HP | 76HP | 78HP |
|---------------------------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-649UKSZA | AVWT-666UKSZA | AVWT-688UKSZA | AVWT-705UKSZA | AVWT-722UKSZA | AVWT-742UKSZA |
| | AC3Φ208~230V/60Hz | | AVWT-649U8SZA | AVWT-666U8SZA | AVWT-688U8SZA | AVWT-705U8SZA | AVWT-722U8SZA | AVWT-742U8SZA |
| Combination | | | AVWT-114U* | AVWT-114U* | AVWT-114U* | AVWT-114U* | AVWT-170U* | AVWT-170U* |
| | | | AVWT-154U* | AVWT-170U* | AVWT-154U* | AVWT-170U* | AVWT-170U* | AVWT-170U* |
| | | | AVWT-170U* | AVWT-170U* | AVWT-212U* | AVWT-212U* | AVWT-170U* | AVWT-190U* |
| | | | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* |
| Cooling Operation | Nominal Capacity | kW | 190 | 195 | 201.5 | 206.5 | 211.5 | 217.5 |
| | | KBtu/h | 648.3 | 665.3 | 687.5 | 704.6 | 721.6 | 742.1 |
| | Power Consumption | kW | 57.51 | 57.49 | 61.46 | 63.22 | 63.20 | 65.26 |
| | EER | | 3.30 | 3.39 | 3.28 | 3.27 | 3.35 | 3.33 |
| Heating Operation | Nominal Capacity | kW | 212.5 | 218.5 | 225.5 | 231.5 | 237.0 | 244.0 |
| | | KBtu/h | 725.1 | 745.5 | 769.4 | 789.9 | 808.6 | 832.5 |
| | Power Consumption | kW | 53.4 | 55.1 | 58.6 | 60.2 | 61.0 | 63.4 |
| | COP | | 3.98 | 3.97 | 3.85 | 3.84 | 3.88 | 3.85 |
| Air Flow Rate | m ³ /h | 52,800 | 55,500 | 54,600 | 57,300 | 59,400 | 60,300 | |
| Outer Dimension (H×W×D) | mm | 1,730×(950+1,210+1,210+1,350)×750 | 1,730×(950+1,210+1,210+1,350)×750 | 1,730×(950+1,210+1,350+1,350)×750 | 1,730×(1,210+1,210+1,210+1,350)×750 | 1,730×(1,210+1,210+1,350+1,350)×750 | 1,730×(1,210+1,210+1,350+1,350)×750 | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,015+1,275+1,275+1,420)×790 | 1,930×(1,015+1,275+1,275+1,420)×790 | 1,930×(1,015+1,210+1,420+1,420)×790 | 1,930×(1,275+1,275+1,275+1,420)×790 | 1,930×(1,275+1,275+1,350+1,420)×790 | 1,930×(1,275+1,275+1,420+1,420)×790 | |
| Net Weight | Kg | 1,301 | 1,302 | 1,363 | 1,364 | 1,394 | 1,455 | |
| Gross Weight | Kg | 1,378 | 1,379 | 1,439 | 1,440 | 1,481 | 1,541 | |
| Compressor Quantity | | 7 | 7 | 7 | 7 | 8 | 8 | |
| Condenser Fan Quantity | | 5 | 5 | 6 | 6 | 5 | 6 | |
| Cabinet Color | | Ivory White | | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | Liquid Line | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| Max. number of connectable IDU | | 64 | 64 | 64 | 64 | 64 | 64 | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) |
| Noise Level (208~230V/380~415V) | dB(A) | 76/77 | 76/77 | 76/77 | 76/77 | 76/77 | 76/77 | |
| Operation Range | Cooling | °C DB | -5~52* | | | | | |
| | Heating | °C WB | -20~16.5 | | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.



| Hi-FLEXi G+ Series | | HP | 80HP | 82HP | 84HP | 86HP | 88HP | |
|---------------------------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|--|
| Model Power Supply | AC3Φ380V~415V/50/60Hz | | AVWT-761UKSZA | AVWT-782UKSZA | AVWT-800UKSZA | AVWT-821UKSZA | AVWT-840UKSZA | |
| | AC3Φ208~230V/60Hz | | AVWT-761U8SZA | AVWT-782U8SZA | AVWT-800U8SZA | AVWT-821U8SZA | AVWT-840U8SZA | |
| Combination | | | AVWT-170U* | AVWT-170U* | AVWT-170U* | AVWT-190U* | AVWT-212U* | |
| | | | AVWT-170U* | AVWT-190U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | |
| | | | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | |
| | | | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | AVWT-212U* | |
| Cooling Operation | Nominal Capacity | kW | 223 | 229 | 234.5 | 240.5 | 246 | |
| | | KBtu/h | 760.9 | 781.3 | 800.1 | 820.6 | 839.4 | |
| | Power Consumption | kW | 68.93 | 70.99 | 74.66 | 76.72 | 80.39 | |
| | EER | | 3.24 | 3.23 | 3.14 | 3.13 | 3.06 | |
| Heating Operation | Nominal Capacity | kW | 250.0 | 257.0 | 263.0 | 270.0 | 276.0 | |
| | | KBtu/h | 853.0 | 876.9 | 897.4 | 921.2 | 941.7 | |
| | Power Consumption | kW | 66.2 | 68.6 | 71.3 | 73.7 | 76.5 | |
| | COP | | 3.78 | 3.75 | 3.69 | 3.66 | 3.61 | |
| Air Flow Rate | m ³ /h | 61,200 | 62,100 | 63,000 | 63,900 | 64,800 | | |
| Outer Dimension (H×W×D) | mm | 1,730×(1,210+1,210+1,350+1,350)×750 | 1,730×(1,210+1,350+1,350+1,350)×750 | 1,730×(1,350+1,350+1,350+1,350)×750 | 1,730×(1,350+1,350+1,350+1,350)×750 | 1,730×(1,350+1,350+1,350+1,350)×750 | | |
| Packing Dimension (H×W×D) | mm | 1,930×(1,275+1,275+1,420+1,420)×790 | 1,930×(1,275+1,420+1,420+1,420)×790 | 1,930×(1,275+1,420+1,420+1,420)×790 | 1,930×(1,420+1,420+1,420+1,420)×790 | 1,930×(1,420+1,420+1,420+1,420)×790 | | |
| Net Weight | Kg | 1,456 | 1,517 | 1,518 | 1,579 | 1,580 | | |
| Gross Weight | Kg | 1,542 | 1,602 | 1,603 | 1,663 | 1,664 | | |
| Compressor Quantity | | 8 | 8 | 8 | 8 | 8 | | |
| Condenser Fan Quantity | | 6 | 7 | 7 | 8 | 8 | | |
| Cabinet Color | | Ivory White | | | | | | |
| Refrigerant Piping | Gas Line | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 | |
| | Liquid Line | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 | |
| Max. number of connectable IDU | | 64 | 64 | 64 | 64 | 64 | | |
| Max. Piping Length | m | 165(190*) | 165(190*) | 165(190*) | 165(190*) | 165(190*) | | |
| Height Difference | Between ODU&IDU | m | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | 50(90*)/40(90*) | |
| | Between IDUs | m | 15(30*) | 15(30*) | 15(30*) | 15(30*) | 15(30*) | |
| Noise Level (208~230V/380~415V) | dB(A) | 77/77 | 77/77 | 77/77 | 77/77 | 77/77 | | |
| Operation Range | Cooling | °C DB | -5~52* | | | | | |
| | Heating | °C WB | -20~16.5 | | | | | |

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between outdoor unit(ODU)&indoor unit(IDU) more than 50(40)m or height difference between indoor units (IDUs) more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.