

WiseAir™

Room Cooling System

>> Foundation of Digital Future



 **ATTOM**

Efficiency Prefabricated

Why Work with Attom

We are experts with data center thermal management system



Quality

Products designed with heart featuring reliable quality and balanced cost to improve your business margin and performance.



Speed

A professional team always standby with service spirit and quick response to support your business agility.



Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications



Efficiency Prefabricated.



WiseAir – Product Configuration



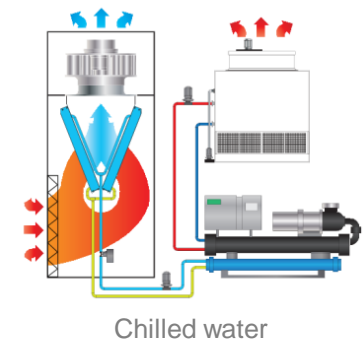
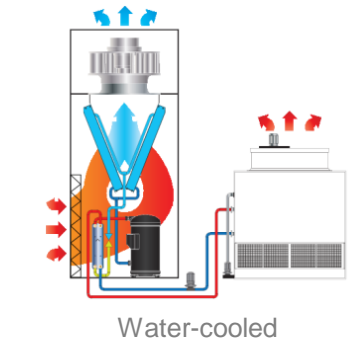
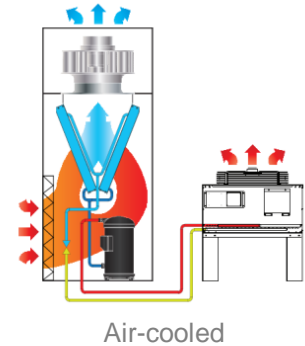
- 1 Highly reliable scroll compressor
- 2 Industry leading brands EC / AC fan
- 3 Intelligent industry-leading controller with color touch screen. Supports BMS integration, teamwork and master/slave working policy.
- 4 A large area of high-efficiency heat exchanger
- 5 Industry-leading brands thermostatic expansion valve/electronic expansion valve
- 6 A large area air filtration system closed to heat exchanger
- 7 Electrode humidifier
- 8 Modular design of cabinet can easily achieve secondary disassembly

WiseAir – Product Configuration

- Downflow



Cooling Type



- Upflow



- Options

- Long Piping Kit
- Low-temperature Kit
- Water Leaking Kit
- RS485 / SNMP Network Monitoring Card
- Automatic Phase Switching Module
- Lightning Protection Module
- High-power Electric Heating System
- Large Color Display
- Remote Temperature and Humidity sensor
- Ultra-quiet Air-cooled Outdoor Condenser

WiseAir – Product Configuration

The units designed with top brands components to realize leading level reliability and efficiency.



Efficient Indoor EC Fan

EC Fan modulates airflow precisely matching heat load while saving energy by flexible fan speed adjustment.



Reliable Compressor

Inverter compressor adjusting capacity of whole system per heat load requirement, saving energy during part load application. Optional R134a refrigerant working up to 55C ambient.



Smart Controller

Intelligent controller automatically monitoring and adjusting the components outputs in the optimized balance. Rich input/output and monitoring protocols supporting easier integrations.



Low Noise Outdoor Fan

The outdoor condenser fan is special designed with Owl wings shapes resulting in quiet operation and high performance. VFD/EC driven speed control further lower the noise level in low speed.



Sine Form Evaporator

Sine wave shape evaporator optimized even airflow distribution and better energy efficiency performance. Modular design, easy expansion. Air filters directly covering the coils, minimize wind resistance and increase efficiency.



Electronic Expansion Valve

EEV (electronic expansion valve) precisely maintain the refrigerant flow in the efficient way reducing the compressor/pump power consumption.



Water Modulating Valve

Motorized ball valve is easily controlled from smart controller system with 0-10V signal, and support high water working pressure.



Water Cooled Modules

Compact design, high heat transfer capacity. The heat from the DX circuit is exchanged through the water-cooled module, which operates in a closed loop, and then heat to the outside environment through an external dry cooler.

WiseAir – Room Cooling DX Air Cooled

Technical Data

| Upflow Unit Downflow Unit | W-005FA W-005DA | W-007FA W-007DA | W-012FA W-012DA | W-017FA W-017DA | W-020FA W-020DA | W-025FA W-025DA |
|--|------------------------------------|------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity –kW | 5.5 | 7.5 | 12.5 | 17.5 | 21.2 | 27.5 |
| Sensible Capacity –kW | 5.2 | 6.8 | 11.3 | 15.9 | 19.1 | 25 |
| SHR-% | 94.5 | 90.7 | 90.4 | 90.9 | 90.1 | 90.9 |
| Air Volume -m ³ /h | 2000 | 2250 | 2850 | 5000 | 6200 | 6700 |
| Fan Type | AC / EC | AC / EC | AC / EC | AC / EC | AC / EC | AC / EC |
| Heating Capacity-kW | 3 | 3 | 4 | 6 | 6 | 6 |
| Heating Type | PTC | PTC | PTC | PTC | PTC | PTC |
| Humidification Capacity -kg/h | 2.5 | 2.5 | 4 | 4.5 | 4.5 | 5 |
| Humidifier Type | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode |
| Filter Rating | G3 | G3 | G3 | G4 | G4 | G4 |
| Weight -kg | 118 | 128 | 178 | 300 | 318 | 338 |
| Width -mm | 550 | 550 | 650 | 750 | 750 | 850 |
| Depth -mm | 450 | 450 | 550 | 700 | 700 | 700 |
| Height -mm | 1750 | 1750 | 1850 | 1900 | 1900 | 1900 |
| Power Input ¹⁾ | 208-240V /50Hz 60Hz /1Ph 2Ph | 208-240V /50Hz 60Hz /1Ph 2Ph | 380-415V /50Hz 60Hz /3Ph | 380-415V /50Hz 60Hz /3Ph | 380-415V /50Hz 60Hz /3Ph | 380-415V /50Hz 60Hz /3Ph |
| FLA -A ¹⁾ cooling | 14.5 | 16.5 | 13.1 | 14.3 | 19.4 | 23.1 |
| FLA -A ¹⁾ with heating/hum. | 28.2 | 30.2 | 19.2 | 23.4 | 28.5 | 32.2 |
| Power Input ²⁾ | - | - | 200-230V/60Hz/3Ph | 200-230V/60Hz/3Ph | 200-230V/60Hz/3Ph | 200-230V/60Hz/3Ph |
| FLA -A ²⁾ cooling | - | - | 23.9 | 26.2 | 35.4 | 42.2 |
| FLA -A ²⁾ with heating/hum. | - | - | 35.1 | 42.9 | 52.1 | 58.1 |
| Power Input ³⁾ | - | - | 460V/60Hz/3Ph | 460V/60Hz/3Ph | 460V/60Hz/3Ph | 460V/60Hz/3Ph |
| FLA -A ³⁾ cooling | - | - | 10.8 | 11.8 | 16.0 | 19.1 |
| FLA -A ³⁾ with heating/hum. | - | - | 15.8 | 19.3 | 23.5 | 26.6 |
| Ref. Pipe Connection –mm | 10/12 | 10/12 | 12/16 | 16/16 | 16/16 | 16/22 |
| Drain Connection –mm | 20 | 20 | 20 | 20 | 20 | 20 |
| Water In Connection | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G |
| Single/Dual System | Single | Single | Single | Single | Single | Single |
| Refrigerant Type | R410A | R410A | R410A | R410A | R410A | R410A |
| Standard Outdoor | | | | | | |
| Unit Model | KSF08 | KSF12 | KSF18 | KSF24 | KSF24 | KSF32 |
| Unit Numbers | 1 | 1 | 1 | 1 | 1 | 1 |

Notes:

- 1, Capacity based on 24°C/50%RH return air conditions, and 45°C condensing temperature.
- 2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
- 3, FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
- 4, Standard air-cooled outdoor unit operating temperature range-15°C above, optional operating temperature range of the components -35°C with low temperature kit.

WiseAir – Room Cooling DX Air Cooled

Technical Data

| Upflow Unit Downflow Unit | W-030UA W-030DA | W-035UA W-035DA | W-040UA W-040DA | W-050UA W-050DA | W-045UA W-045DA | W-055UA W-055DA | W-065UA W-065DA | W-070UA W-070DA | W-080UA W-080DA | W-090UA W-090DA | W-100UA W-100DA | W-110UA W-110DA | W-120UA W-120DA |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity - kW | 32.5 | 37.7 | 41.8 | 50.0 | 43.5 | 53.1 | 65.1 | 71.1 | 83.6 | 92.1 | 100.9 | 110.9 | 122.9 |
| Sensible Capacity - kW | 29.3 | 34 | 38.1 | 45.0 | 39.2 | 47.8 | 58.8 | 64 | 75.3 | 83.6 | 91.1 | 97.1 | 105.2 |
| SHR-% | 90.2 | 90.2 | 91.1 | 90.0 | 90.1 | 90.2 | 90.3 | 90.0 | 90.1 | 90.8 | 90.2 | 87.6 | 85.6 |
| Air Volume -m ³ /h | 8325 | 8620 | 10500 | 12400 | 10500 | 12400 | 16650 | 17240 | 21000 | 22600 | 24800 | 26200 | 27100 |
| Fan Type | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC |
| Heating Capacity - kW | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 12 | 12 | 12 | 12 | 12 |
| Heating Type | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC |
| Hum. Capacity -kg/h | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 12 |
| Humidifier Type | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode |
| Filter Rating | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 |
| Weight -kg | 433 | 438 | 468 | 528 | 478 | 568 | 688 | 718 | 788 | 866 | 888 | 902 | 930 |
| Width -mm | 1126 | 1126 | 1326 | 1326 | 1326 | 1326 | 1826 | 1826 | 2226 | 2226 | 2226 | 2226 | 2226 |
| Depth -mm | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 |
| Height -mm | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 |
| Power Input ¹⁾ | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph |
| FLA -A ¹⁾ | 35.5 | 36.3 | 46.0 | 49.6 | 48.2 | 53.8 | 66.4 | 67.2 | 83.0 | 86.6 | 90.2 | 93.8 | 97.2 |
| Power Input ²⁾ | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph |
| FLA -A ²⁾ | 29.3 | 30.0 | 38.0 | 41.0 | 39.8 | 44.5 | 54.9 | 55.5 | 68.6 | 71.5 | 74.5 | 77.4 | 80.3 |
| Power Input ³⁾ | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph |
| FLA -A ³⁾ | 64.9 | 66.4 | 84 | 90.6 | 88.1 | 98.3 | 121.3 | 122.8 | 151.7 | 158.2 | 164.8 | 171.3 | 177.5 |
| Pipe Connection -mm | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 | 16/22 |
| Drain Connection -mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water In Connection | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G |
| Single/Dual System | Single | Single | Single | Single | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| Refrigerant | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Standard Outdoor | | | | | | | | | | | | | |
| Unit Model | KSF38 | KSF52 | KSF52 | KSF62 | KSF32 | KSF32 | KSF42 | KSF52 | KSF52 | KSF62 | KSF62 | KSF70 | KSF76 |
| Unit Numbers | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Notes:

1. Capacity based on 24°C/50%RH return air conditions, and 45°C condensing temperature.
2. The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4. Standard air-cooled outdoor unit operating temperature range-15°C above, optional operating temperature range of the components-35°C with low temperature kit.

WiseAir – Room Cooling DX Water Cooled

Technical Data

| Upflow Unit Downflow Unit | W-030UW W-030DW | W-035UW W-035DW | W-040UW W-040DW | W-050UW W-050DW | W-045UW W-045DW | W-055UW W-055DW | W-065UW W-065DW | W-070UW W-070DW | W-080UW W-080DW | W-090UW W-090DW | W-100UW W-100DW | W-110UW W-110DW | W-120UW W-120DW |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity - kW | 32.5 | 37.7 | 41.8 | 50.0 | 43.5 | 53.1 | 65.1 | 71.1 | 83.6 | 92.1 | 100.9 | 110.9 | 122.9 |
| Sensible Capacity - kW | 29.3 | 34 | 38.1 | 45.0 | 39.2 | 47.8 | 58.8 | 64 | 75.3 | 83.6 | 91.1 | 97.1 | 105.2 |
| SHR-% | 90.2 | 90.2 | 91.1 | 90.0 | 90.1 | 90.2 | 90.3 | 90.0 | 90.1 | 90.8 | 90.2 | 87.6 | 85.6 |
| Air Volume -m ³ /h | 8325 | 8620 | 10500 | 12400 | 10500 | 12400 | 16650 | 17240 | 21000 | 22600 | 24800 | 26200 | 27100 |
| Fan Type | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC | EC |
| Heating Capacity - kW | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 12 | 12 | 12 | 12 | 12 |
| Heating Type | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC |
| Hum. Capacity -kg/h | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 12 |
| Humidifier Type | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode |
| Filter Rating | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 |
| Weight -kg | 433 | 438 | 468 | 528 | 478 | 568 | 688 | 718 | 788 | 866 | 888 | 920 | 950 |
| Width -mm | 1126 | 1126 | 1326 | 1326 | 1326 | 1326 | 1826 | 1826 | 2226 | 2226 | 2226 | 2226 | 2226 |
| Depth -mm | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 |
| Height -mm | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 |
| Power Input ¹⁾ | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph | 380-415V /50Hz/60Hz /3Ph |
| FLA -A ¹⁾ | 35.5 | 36.3 | 46.0 | 49.6 | 48.2 | 53.8 | 66.4 | 67.2 | 83.0 | 86.6 | 90.2 | 93.8 | 97.2 |
| Power Input ²⁾ | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph | 460V /60Hz /3Ph |
| FLA -A ²⁾ | 29.3 | 30.0 | 38.0 | 41.0 | 39.8 | 44.5 | 54.9 | 55.5 | 68.6 | 71.5 | 74.5 | 77.4 | 80.3 |
| Power Input ³⁾ | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 200-230V /60Hz /3Ph | 208-230V /60Hz /3Ph | 208-230V /60Hz /3Ph |
| FLA -A ³⁾ | 64.9 | 66.4 | 84 | 90.6 | 88.1 | 98.3 | 121.3 | 122.8 | 151.7 | 158.2 | 164.8 | 171.3 | 177.5 |
| Drain Connection -mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Hum Water Connection | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G |
| Single/Dual System | Single | Single | Single | Single | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| Refrigerant | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Condenser Water Side | | | | | | | | | | | | | |
| Water Flow – m3/h | 7.24 | 7.96 | 9.1 | 10.91 | 4.88*2 | 5.41*2 | 7.24*2 | 7.96*2 | 9.1*2 | 9.53*2 | 10.91*2 | 11.96*2 | 13.36*2 |
| Pressure Drop - kPa | 52.6 | 50.1 | 50.8 | 52.2 | 48.3 | 51.3 | 52.6 | 50.1 | 50.8 | 50.4 | 52.2 | 50.3 | 51.7 |
| Water Piping -mm | 32 | 32 | 32 | 42 | 28 | 28 | 32 | 32 | 32 | 32 | 42 | 42 | 42 |

Notes:

- 1, Capacity based on 24°C/50%RH return air conditions.
- 2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
- 3, Rated water temperature 30c/35c in/out.



WiseAir – Room Cooling Chilled Water

Technical Data

| Upflow Unit Downflow Unit | W-030UC W-030DC | W-040UC W-040DC | W-050UC W-050DC | W-060UC W-060DC | W-070UC W-070DC | W-080UC W-080DC | W-090UC W-090DC | W-100UC W-100DC | W-110UC W-110DC |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Total Capacity (7C/12C water temperature) -kW | 38,2 | 50.8 | 62.8 | 76.2 | 89.6 | 100.4 | 113.2 | 124 | 137.6 |
| Total Capacity (10C/15C water temperature) -kW | 30.2 | 39 | 48 | 56.2 | 68.8 | 78 | 86.4 | 95.2 | 104.8 |
| Total Capacity (13C/18C water temperature) -kW | 24 | 31.2 | 37.8 | 44 | 54.8 | 62.4 | 68 | 75,6 | 83.2 |
| SHR -% | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Air Volume -m ³ /h | 9230 | 9610 | 10230 | 11260 | 17100 | 20500 | 18700 | 21360 | 23300 |
| Fan Type | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC |
| Heating Capacity -kW | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 |
| Heating Type | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC |
| Hum. Capacity -kg/h | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 |
| Humidifier Type | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode |
| Filter Rating | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 |
| Weight - kg | 303 | 312 | 333 | 352 | 492 | 502 | 512 | 522 | 539 |
| Width -mm | 925 | 925 | 925 | 925 | 1675 | 1675 | 1675 | 1675 | 1825 |
| Depth -mm | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 |
| Height -mm | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 |
| Power Type ¹⁾ | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P |
| FLA -A ¹⁾ | 22.2 | 22.2 | 22.2 | 22.4 | 38.8 | 38.8 | 38.8 | 38.8 | 39.2 |
| Power Type ²⁾ | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P |
| FLA -A ²⁾ | 18.4 | 18.4 | 18.4 | 18.5 | 32.0 | 32.0 | 32.0 | 32.0 | 32.3 |
| Power Type ³⁾ | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P |
| FLA -A ³⁾ | 40.2 | 40.2 | 40.2 | 40.6 | 75.7 | 75.7 | 75.7 | 75.7 | 76.4 |
| Water Connection -mm | 32 | 32 | 42 | 42 | 42 | 42 | 54 | 54 | 54 |
| Drain Connection -mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water In Connection | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G |
| Water Flow -l/s | 1.4 | 1.6 | 2.2 | 2.6 | 3.3 | 3.7 | 4.1 | 4.5 | 5.0 |
| Water PD -kPa | 49.6 | 55.0 | 63.0 | 57.3 | 57.2 | 73.6 | 63.2 | 77.8 | 85.3 |

Notes:

- 1, Technical data based on 28°C/40%RH return air conditions.
- 2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
- 3, Standard with 2 way valves and optional with 3 way valves.

WiseAir – Room Cooling Chilled Water

Technical Data

| Upflow Unit Downflow Unit | W-120UC W-120DC | W-130UC W-130DC | W-140UC W-140DC | W-150UC W-150DC | W-160UC W-160DC | W-170UC W-170DC | W-180UC W-180DC | W-190UC W-190DC | W-200UC W-200DC |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Total Capacity (7C/12C water temperature) -kW | 147.2 | 159.6 | 177.2 | 184.2 | 199.8 | 208.2 | 221.4 | 233.4 | 265.8 |
| Total Capacity (10C/15C water temperature) -kW | 113.5 | 121.2 | 134 | 141 | 151.8 | 159.6 | 171 | 177.6 | 201 |
| Total Capacity (13C/18C water temperature) -kW | 99.2 | 95.2 | 104 | 111.6 | 120 | 126.6 | 135.6 | 139.2 | 156 |
| SHR -% | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Air Volume -m ³ /h | 25960 | 25030 | 26120 | 31680 | 33120 | 35460 | 39100 | 36010 | 38500 |
| Fan Type | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC | EC/AC |
| Heating Capacity -kW | 9 | 9 | 9 | 12 | 12 | 12 | 12 | 12 | 12 |
| Heating Type | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC | PTC |
| Hum. Capacity -kg/h | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Humidifier Type | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode | Electrode |
| Filter Rating | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 | G4 |
| Weight - kg | 553 | 562 | 585 | 772 | 792 | 812 | 822 | 842 | 852 |
| Width -mm | 1825 | 1825 | 1825 | 2500 | 2725 | 2725 | 2725 | 2725 | 2725 |
| Depth -mm | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 | 990 |
| Height -mm | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 | 1975 |
| Power Type ¹⁾ | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P | 380-415V /50-60Hz/3P |
| FLA -A ¹⁾ | 39.2 | 39.2 | 39.2 | 47.3 | 47.3 | 47.9 | 47.9 | 47.9 | 47.9 |
| Power Type ²⁾ | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P | 460V/60Hz/3P |
| FLA -A ²⁾ | 32.3 | 32.3 | 32.3 | 39.1 | 39.1 | 39.6 | 39.6 | 39.6 | 39.6 |
| Power Type ³⁾ | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P | 200-230V /60Hz/3P |
| FLA -A ³⁾ | 76.4 | 76.4 | 76.4 | 91.3 | 91.3 | 92.4 | 92.4 | 92.4 | 92.4 |
| Water Connection -mm | 54 | 54 | 54 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 |
| Drain Connection -mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water In Connection | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G | 3/4"G |
| Water Flow -l/s | 5.4 | 5.7 | 6.1 | 6.7 | 7.2 | 7.5 | 8.1 | 8.3 | 8.9 |
| Water PD -kPa | 99.9 | 77.8 | 80.1 | 74.1 | 76.5 | 84.1 | 97.8 | 71.5 | 74.1 |

Notes:

- 1, Technical data based on 28°C/40%RH return air conditions.
- 2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
- 3, Standard with 2 way valves and optional with 3 way valves.