

AMV6 HEAT RECOVERY



The AMV6 Heat Recovery Series integrates multiple functions of cooling, heating, water heating and floor heating, featuring powerful functions and convenient operation. It adopts DC inverter enthalpy-adding compressor and brand new high-efficiency heat exchanger, to achieve -25°C ultra-low ambient temperature heating, continuous heating and other functions for more energy savings and higher energy efficiency.

PRODUCT DATA



| MODEL | | | AMV6-0224/HR | AMV6-0280/HR | AMV6-0335/HR | AMV6-0400/HR | AMV6-0450/HR | AMV6-0504/HR | AMV6-0560/HR | AMV6-0615/HR |
|--------------------------------|-------------------|-----------------------|-------------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|
| Cooling capacity | Max. | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 |
| Heating capacity | Max. | kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | 63.0 | 69.0 |
| SEER | Ducted * | - | 7.00 | 6.70 | 6.55 | 6.90 | 6.46 | 6.48 | 6.32 | 6.32 |
| | Cassette * | - | 7.24 | 6.45 | 6.66 | 6.18 | 6.15 | 6.68 | 6.35 | 6.35 |
| SCOP | Ducted * | - | 4.32 | 4.57 | 4.74 | 4.44 | 4.41 | 4.25 | 4.15 | 4.15 |
| | Cassette * | - | 4.29 | 4.43 | 4.37 | 4.44 | 4.50 | 4.34 | 4.34 | 4.34 |
| Power supply | V/Ph/Hz | 380-415V 3N ~ 50/60HZ | | | | | | | | |
| Min. circuit/Max. fuse current | A | | 23.0/25 | 23.5/25 | 24.1/25 | 37.5/40 | 39.3/40 | 47.0/50 | 48.0/50 | 49.0/50 |
| Maximum drive IDU NO. | unit | | 13 | 16 | 19 | 23 | 26 | 29 | 33 | 36 |
| Refrigerant Charge volume | kg | | 8.2 | 8.5 | 9.6 | 11.1 | 11.6 | 12.8 | 12.8 | 13.3 |
| Sound pressure level (cooling) | dB(A) | | 60 | 61 | 63 | 63 | 63 | 63 | 63 | 64 |
| Sound power level (cooling) | Ducted * | dB(A) | 80 | 82 | 84 | 91 | 91 | 88 | 88 | 88 |
| | Cassette * | dB(A) | 80 | 84 | 86 | 87 | 94 | 87 | 89 | 89 |
| Connecting pipe | Liquid | mm | Φ 9.52 | Φ 9.52 | Φ 12.7 | Φ 12.7 | Φ 12.7 | Φ 15.9 | Φ 15.9 | Φ 15.9 |
| | High pressure gas | mm | Φ 15.9 | Φ 19.05 | Φ 19.05 | Φ 22.2 | Φ 22.2 | Φ 25.4 | Φ 25.4 | Φ 25.4 |
| | Low pressure gas | mm | Φ 19.05 | Φ 22.2 | Φ 25.4 | Φ 25.4 | Φ 28.6 | Φ 28.6 | Φ 28.6 | Φ 28.96 |
| Dimension (W*D*H) | Outline | mm | 930 × 775 × 1690 | | | 1340 × 775 × 1690 | | | | |
| | Package | mm | 1000 × 830 × 1855 | | | 1400 × 830 × 1855 | | | | |
| Net weight/Gross weight | kg | | 243/253 | 243/253 | 256/266 | 325/340 | 325/340 | 385/400 | 385/400 | 385/400 |

*The data is Eurovent compliant.

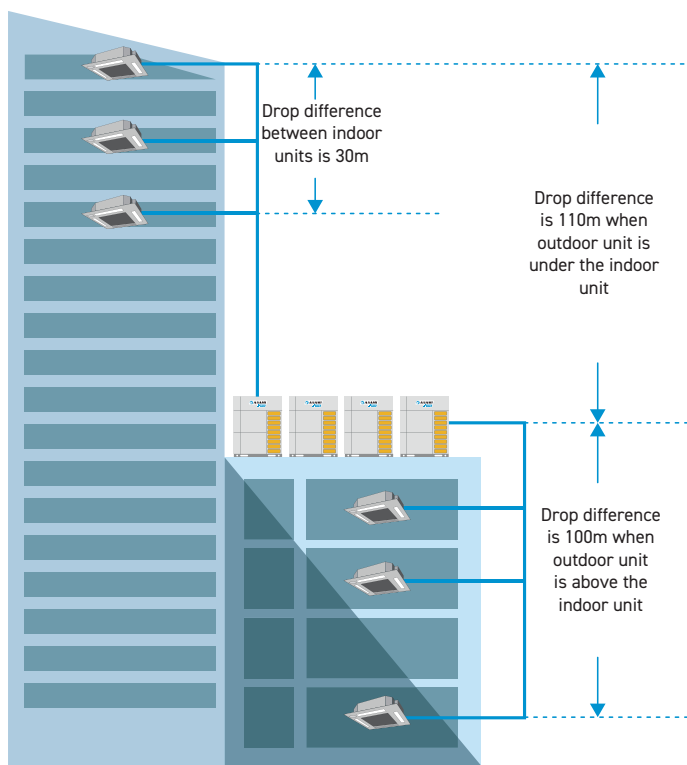
The ODU operation temperature range is -10~55C in cooling, -25~24C in heating and -20~35C in water heating mode.

The data is measured under following conditions. Cooling: Indoor temp. 27C DB, 19C WB, and outdoor temp. 35C DB. Heating: Indoor temp. of 20 C DB and outdoor temp. of 7C DB, 6C WB.

Sound pressure level was measured at a distance 1m.

DIMENSIONS

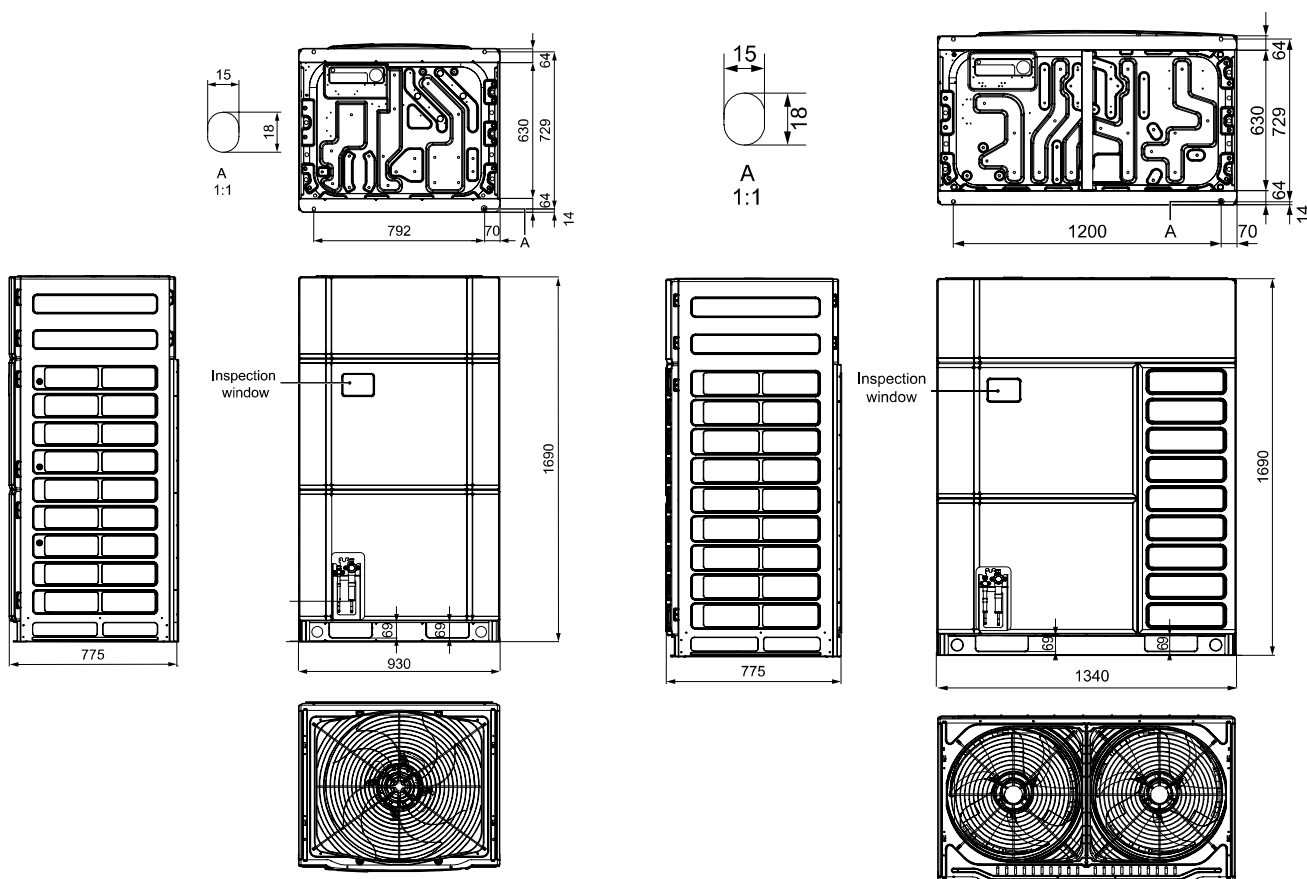
AMV6 HR combines high drop pressure control technology, indoor unit drop identification technology, intermediate pressure adjustment technology, tube length self-correction technology, and deep subcooling technology to increase the length of piping and improve the air conditioning effect.



- The maximum actual single pipe length is 200m, the maximum equivalent single pipe length is 240m, and the maximum piping length is 1,000m.
- The maximum length after the first branch pipe is 120m *.
- The maximum drop of indoor and outdoor units is 110m* (100m when the outdoor unit is in upper position) *.
- The maximum drop between indoor units is 30m.

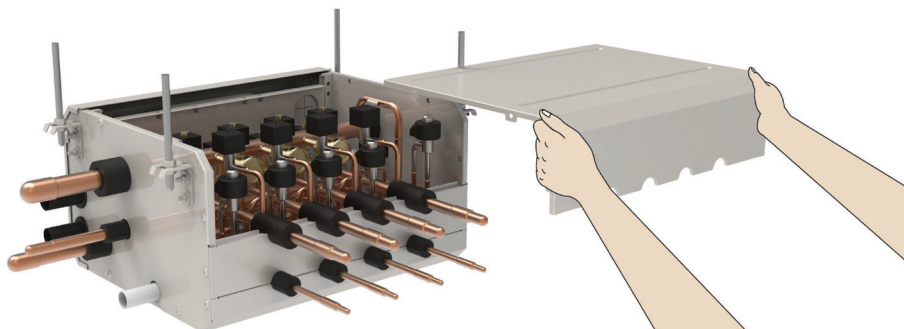
* Please consult technical staff for details.

DIMENSIONS



STRUCTURE FOR EFFICIENT MAINTENANCE

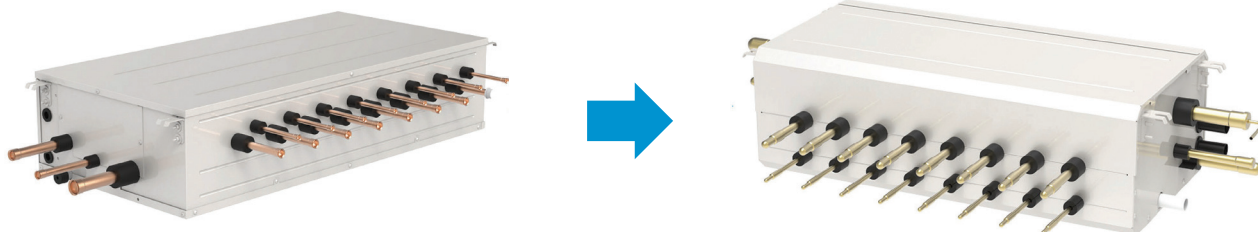
The L-shape integrated upper cover plate is designed so that there's a better view and enough operation space for the inspection and maintenance of pipes and valves when the upper cover plate is removed.



WIDE CAPACITY RANGE

The new generation mode exchange unit adopts high refrigerant flow design and the connectable indoor unit capacity is significantly increased. A maximum of 16kW can be connected to a single branch, which is 13% higher than before; and the maximum capacity connected to multiple branches is 85kW, which is 25% higher.

An increase of 13% in capacity allowed for a single branch; an increase of 25% in capacity allowed for a single mode exchange unit



Note: For two branches in parallel, the maximum capacity of connectable indoor units is 28kW.

PRODUCT DATA

| MODEL | | | NCHS1D | NCHS2D | NCHS4D | NCHS8D | |
|-----------------------------------|-----------|-------------------|--------------------|-------------|-------------|-------------|--------------|
| Number of branches | | unit | 1 | 2 | 4 | 8 | |
| Max. number of connectable IDUS | Per batch | unit | 8 | 8 | 8 | 8 | |
| | Total | unit | 8 | 16 | 32 | 64 | |
| Max. capacity of connectable IDUS | Per batch | kW | 16 | 16 | 16 | 16 | |
| | Total | kW | 16 | 28 | 45 | 85 | |
| Sound Pressure Level | | dB(A) | 38 | 39 | 43 | 44 | |
| Power supply | | V/Ph/Hz | 220-240V ~ 50/60Hz | | | | |
| Power consumption | Cooling | W | 14 | 25 | 32 | 90 | |
| | Heating | W | 14 | 25 | 32 | 90 | |
| Piping connections | ODU | Liquid | mm | Φ 9.52 | Φ 9.52 | Φ 12.7 | Φ 15.9 |
| | | High pressure gas | mm | Φ 19.05 | Φ 19.05 | Φ 22.2 | Φ 22.2 |
| | | Low pressure gas | mm | Φ 22.2 | Φ 22.2 | Φ 28.6 | Φ 28.6 |
| | IDU | Liquid | mm | Φ 6.35/9.52 | Φ 6.35/9.52 | Φ 6.35/9.52 | Φ 6.35/9.52 |
| | | Gas | mm | Φ 12.7/15.9 | Φ 12.7/15.9 | Φ 12.7/15.9 | Φ 12.7/15.9 |
| | | Package | mm | 863×624×298 | 863×624×298 | 979×624×303 | 1300×624×288 |
| Dimension (WxDxH) | | mm | 340×388×250 | 340×388×250 | 460×388×250 | 784×388×250 | |
| Net weight/Gross weight | | kg | 12/17.5 | 14.5/20.5 | 20.6/27 | 33/42 | |

*Sound pressure level measured at 1m distance.