

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.

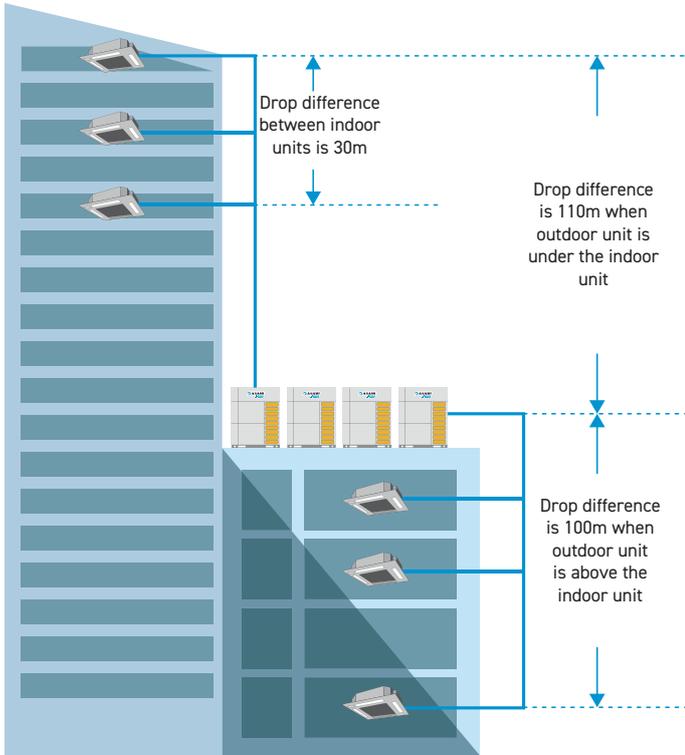
The ODU operation temperature range is -10~55C in cooling, -25~24C in heating and -20~35C in water heating mode.

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

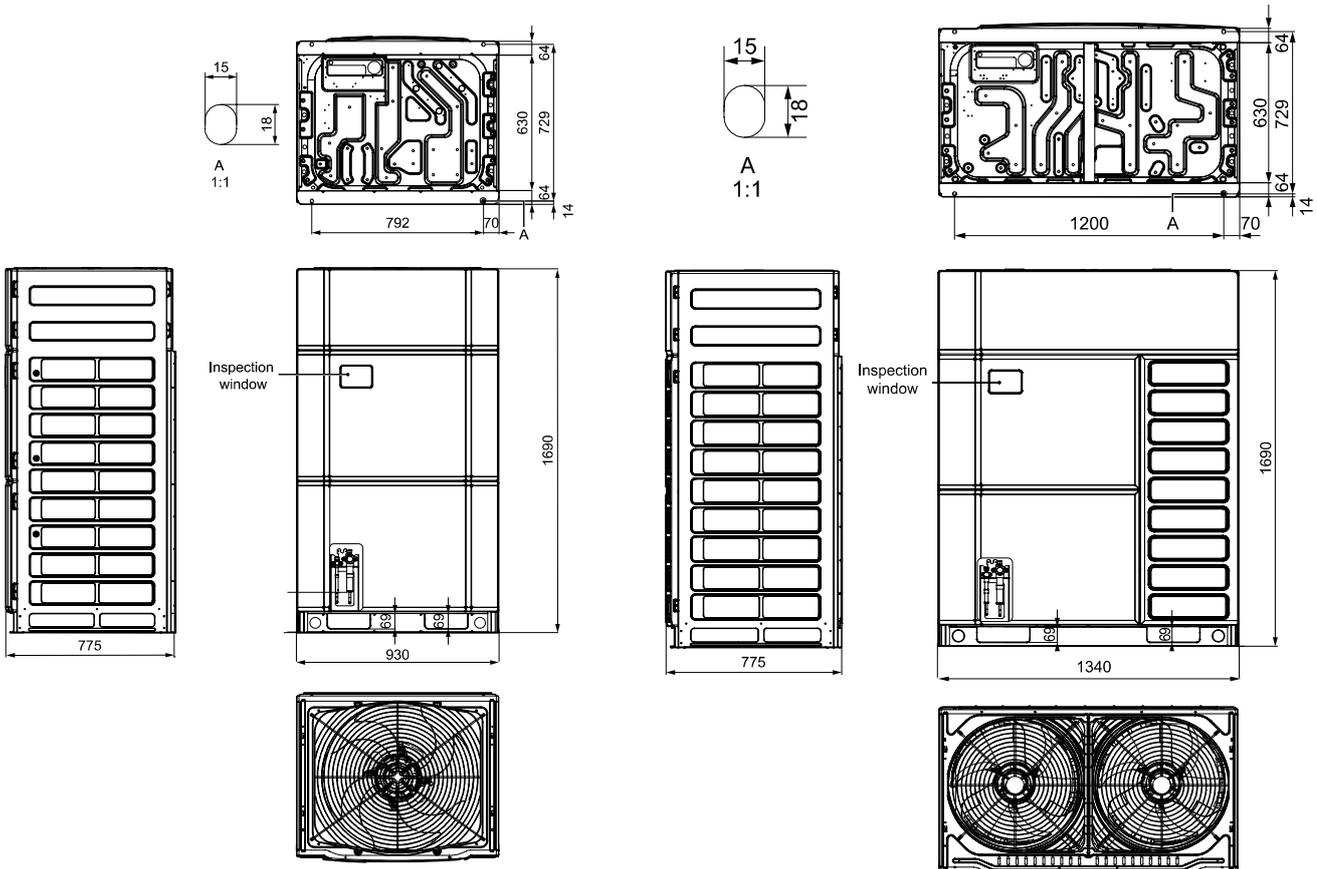
AMV6 HR combines high drop pressure control technology, indoor unit drop identification technology, intermediate pressure adjustment technology, tube length self-correction technology, and deep subcooling technology to increase the length of piping and improve the air conditioning effect.



- 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.

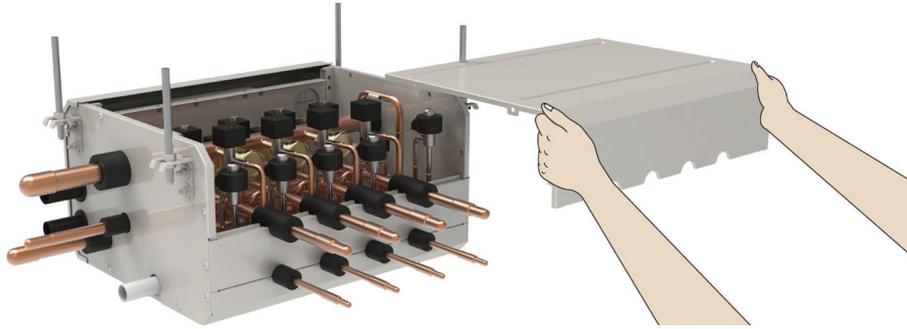
* Please consult technical staff for details.

DIMENSIONS



STRUCTURE FOR EFFICIENT MAINTENANCE

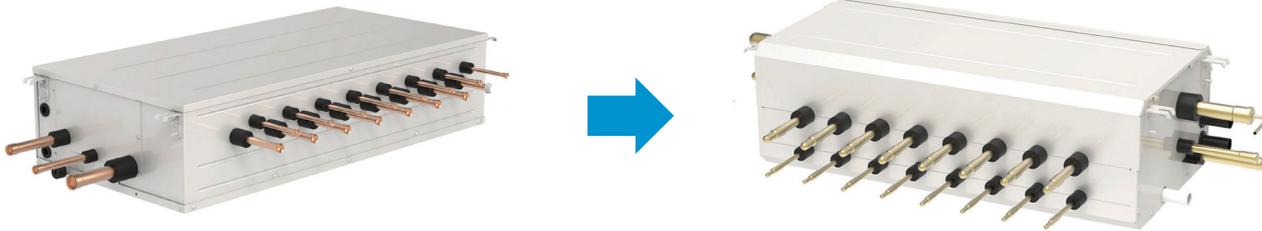
The L-shape integrated upper cover plate is designed so that there's a better view and enough operation space for the inspection and maintenance of pipes and valves when the upper cover plate is removed.



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.