

VRF

Midea

HEAT RECOVERY VENTILATOR



ENHANCED EFFICIENCY

The Midea heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations caused by the ventilation process. Temperature exchange efficiency is over 74% and enthalpy exchange efficiency is over 76%.

LOW NOISE

Soundproofing is used to guarantee quiet operation.

FLEXIBLE CONTROL

HRV can be controlled together with other indoor units. Heights starting from as little as 264mm and weights from as little as 23kg mean that the HRV can be easily installed where space is limited.

MULTIPLE MODES

Heat Exchange Mode: The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.

Bypass Mode: Supply and exhaust fans run at the same speed. In mild climates, where temperature and humidity differences between indoor and outdoor are small, the HRV can work as a conventional ventilation fan.

Air Supply Mode: Supply fan runs faster than exhaust fan. A mode suitable in mild climate installations with fresh air ventilation requirements.

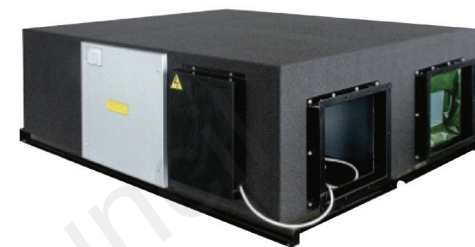
Exhaust Mode: Exhaust fan runs faster than supply fan. A mode suitable in mild climate installations with large amounts of exhaust air to be expelled.

Auto Mode: The controller chooses Heat Exchange mode or Bypass mode according to temperature difference between outdoors and indoors. Both fans run at low speed.

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Indoor unit: HRV-D200/300/400/500/800/1000



Indoor unit: HRV-D1500/2000

MODEL		HRV-D200	HRV-D300	HRV-D400	HRV-D500	HRV-D800	HRV-D1000	HRV-D1500	HRV-D2000
Power supply		1-phase,220-240V,50/60Hz							
Recommended Fuse Size		A	5	5	5	5	10	10	10
Cooling	Temp. exchange efficiency	%	76.1	74.8	76.2	76.1	76.9	75.8	77.2
	Enthalpy exchange efficiency	%	77.3	76.1	78.7	78.2	78.1	76.9	78.7
Heating	Temp. exchange efficiency	%	76.1	74.8	76.2	76.1	76.9	75.8	77.2
	Enthalpy exchange efficiency	%	82.6	79.8	83.6	80.4	80.1	78.6	80.3
Current		A	0.72	0.99	1.07	1.56	2.28	3.1	5.29
Indoor fan motor	Model		WZDK100-38G-1	WZDK100-38G-1	WZDK100-38G-1	WZDK100-38G-1	WZDK170-38G-2	WZDK170-38G-2	WZDK750-38G-W-1
	Insulation class		E						
	Output	W	26*2	42*2	46*2	72*2	104*2	153*2	570*2
	Pole number		8P	8P	8P	8P	8P	8P	8P
	Speed	r/min	1390	1390	1390	1380	1150	1230	1220
Indoor fan	Material		ABS						metal
	Type		Centrifugal fan						
	Diameter	mm	Φ154	Φ194	Φ194	Φ203	Φ245	Φ245	Φ234
	Height	mm	102	100	100	151	203	203	261
Indoor external static pressure (Hi)		Pa	75	75	80	80	100	100	160
Nominal air flow		m³/h	200	300	400	500	800	1000	1500
Sound pressure level		dB(A)	27	30	32	32	35	36	46
Net dimension (LxWxH)		mm	852×665×264	928×734×270	928×940×270	1020×1036×270	1276×1020×388	1276×1269×388	1600×1270×540
Packing size (LxWxH)		mm	930×730×445	1010×800×450	1010×1010×450	1120×1120×452	1380×1100×573	1390×1350×580	1680×1350×720
Net/Gross weight		kg	25/40	27/44	32/52	35/60	58/88	69/100	151/224
Power supply wire	Wire's qty		3	3	3	3	3	3	3
	Code wire cross section	mm²	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Fresh Air diameter		mm	Φ144	Φ144	Φ144	Φ194	Φ242	Φ242	346×326
Operating temperature range		°C	-7~43DB, 80%RH or less						

For the units model of HRV-D200~HRV-D2000, there are 3-speed adjustable air-volume (Hi, Med, Low).
All the parameters is measured at the high speed air-volume.
Sound Pressure is measured 1.5m below the air-outlet at Nominal Conditions.

Efficiency is measured under the following conditions:
* Cooling: air exhaust temp 27°C DB, 19.5°C WB; fresh air temp. 35°C DB, 28°C WB.
* Heating: air exhaust temp 21°C DB, 13°C WB; fresh air temp. 5°C DB, 2°C WB.