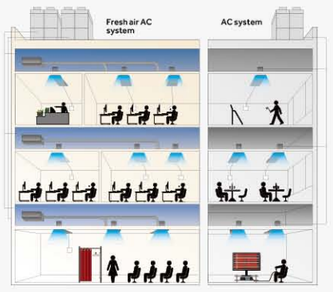
MRV INDOOR Ventilation

Ventilation

Introduction of fresh air, indoor air supply more comfortable

Haier fresh air duct can heat or cool the outdoor fresh air to close to the indoor temperature and transport fresh air to the room. In spring and autumn, fresh air can be filtered without passing through the coil, directly sent into the room to save the energy.



Adopt R410a environment-friendly refrigerant, efficient use of DC frequency conversion technology, more energy saving

The fresh air duct can be mixed with the MRV indoor units to achieve unified management.

Haier

Adopt high efficiency brushless DC fan motor, the rotating speed can be adjusted flexibly according to the actual static pressure to ensure the stable output of air volume, greatly reduce low operating noise.

The built-in float switch can monitor the condensate status of the water receiving tray in real time to avoid accidents. Water leakage and other hidden dangers caused by poor drainage. (for AD72/962MTERAF)

HRV

Design standard

Accord with CE, ROSH and REACH, more safety.

Super comfortable

DC brushless motor and fan simulation volute design, lower noise.

Easy maintenance

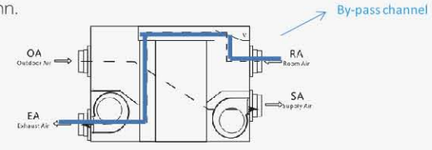
The hydrophilic material is added to the functional film used by the pellet, and its surface friction coefficient is obtained; Smaller, dust particles will not adhere to the surface of the film, no need to frequent cleaning, if you need to clean, you can simply clean with tap water, dry and then use again (can be washed multiple times).The heat exchange core and filter can be pulled out of the structure design, more convenient maintenance.

High efficiency

Graphene material heat exchange core, the effective air exchange rate is up to 95%, and energy saving is achieved through efficient heat recovery technology.

Heat exchange core

This device has a bypass function (the return air can be directly discharged from the outdoor through the bypass without passing through the heat exchanger), which can effectively extend the service life of the heat exchanger. We suggest that you turn on the bypass function in spring or autumn.



Easy control

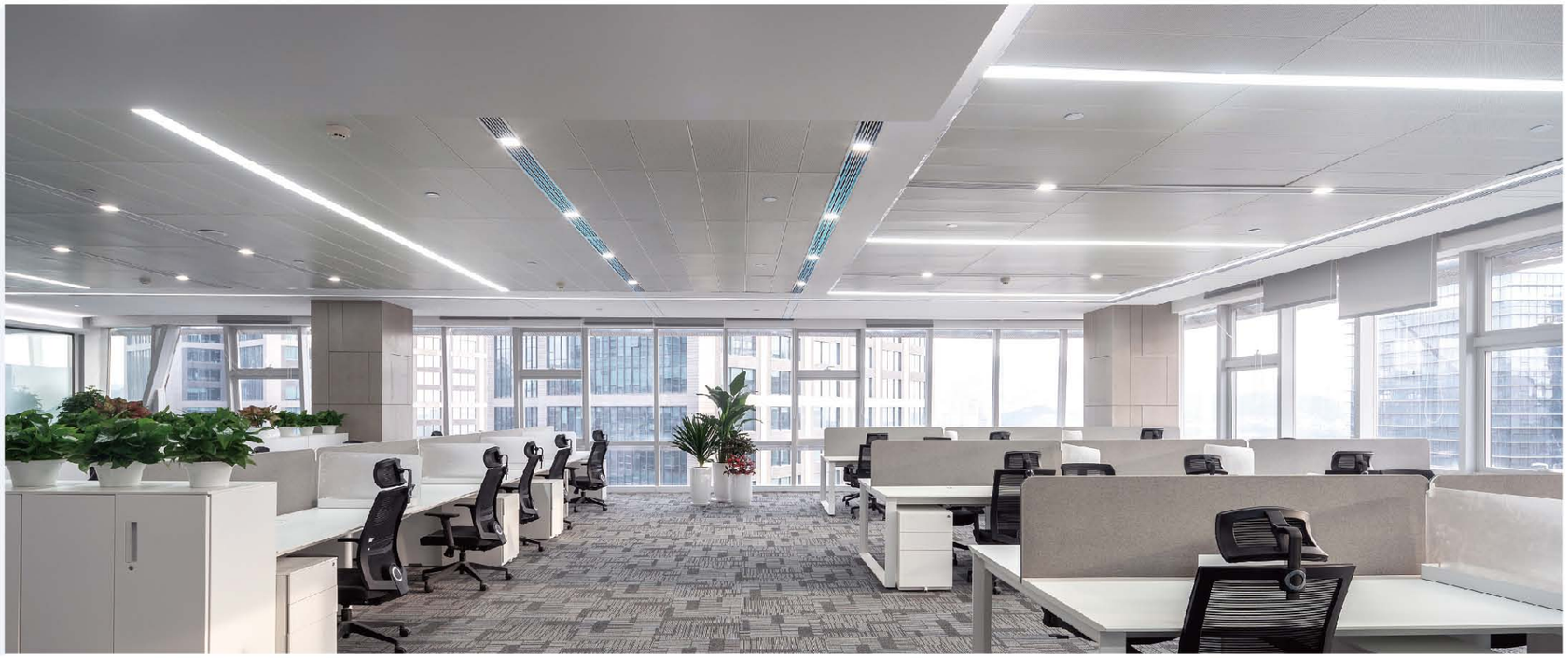
Indoor units linkage function, can be connected with indoor units , according to the operation of the indoor units automatic interlock control HRV on off operation.

The heat exchange core of the heat recovery fresh air main engine sold on the market is mainly divided into three kinds according to the material: paper, aluminum, graphene.

Item	Paper	Aluminum	Graphen
Heat recovery efficiency	★★★	★★★★★	★★★★
Anti-microbial		★★★	★★★★★
Life time	★	★★★★★	★★★★★
Maintenance	Change	Water wash	Water wash

Haier

Fresh Air DUCT



Air Engineering

HW-BA116ABK

HW-SA201ABK

YR-HRS01

100~350Pa
Variable static pressure 100-350Pa setting

DC fan motor

Fresh air

50/60Hz
All module can realize 50/60Hz

Model/Indoor unit			AD482MJERAF	AD722MTERAF	AD962MTERAF
Capacity	Cooling	kBtu/h	47.7	77.1	95.5
		kW	14	22.6	28
	Heating	Btu/h	34.1	68.2	83.5
		kW	10	20	24.5
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H)	m^3/h	1900/1600/1460/1200	2800/2300/1800/1500	3200/2800/2400/2000
	Sound pressure level(H/M/L)	dB(A)	48/46/44/42	48/46/44/42	49/47/45/42
	Sound power level(H/M/L)	dB(A)	61/59/57/55	61/59/57/55	62/60/58/55
Installation	External dimensions(W/D/H)	mm	1500/700/248	1333/748/495	1333/748/495
	Shipping dimensions(W/D/H)	mm	1698/857/305	1558/896/668	1558/896/668
	Net/Shipping weight	kg	45.4/52.6	88/110	88/110
	Refrigerant liquid pipe	mm	9.52	12.7	12.7
	Refrigerant gas pipe	mm	15.88	22.22	22.22
	Static pressure(Standard/Max.)	Pa	100/200	100/350	100/350
Controller	Wired (Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	YR-HQS01	YR-HQS01	YR-HQS01
			HW-BA116ABK	HW-BA116ABK	HW-BA116ABK

www.ttair.co.th | Tel : 02-385-0728 | E-mail : sales@ttair.co.th | LINE ID : @ttair

HRV

Be controlled with other indoor units together

Heat recovery media element

Efficient heat recovery air processing

1000 m³/h

Max. air flow 1000m³/h

Air Engineering

W9301

Model/Indoor unit			ERV0150ANW	ERV0260ANW	ERV0500ANW	ERV0800ANW	ERV1000ANW
Electrical	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
	Rated power input	W	135	165	280	360	420
	Rated current	A	0.65	0.79	1.34	1.72	2.01
Enthalpy exchange effectiveness	Cooling condition		58%	57%	61%	68%	61%
	Heating condition		65%	65%	68%	72%	65%
Performance	Air flow (H/M/L)	m³/h	150/110/70	250/200/160	500/430/375	800/680/600	1000/810/730
	Sound pressure level (H/M/L)	dB(A)	38/35/30	40/38/35	45/42/40	48/46/43	50/48/45
	Sound power level (H/L)	dB(A)	48/45/40	50/48/45	55/52/50	58/58/53	60/58/55
Installation	External dimensions(W/D/H)	mm	750/530/240	750/530/270	1000/710/270	1200/940/324	1250/935/350
	Shipping dimensions(W/D/H)	mm	955/575/305	955/575/335	1205/755/335	1405/985/389	1455/980/415
	Net weight/Shipping weight	kg	26/28	30/32	40/42	55/59	56/60
	Static pressure	Pa	80	80	100	100	100
Controller	Wired (Standard)	/	W9301	W9301	W9301	W9301	W9301

HRV

E5TB-XF

Be controlled with other indoor units together

Heat recovery media element

Efficient heat recovery air processing

2000 m³/h

Max. air flow 2000m³/h

MODEL			ERV0150BNN	ERV0250BNN	ERV0350BNN	ERV0500BNN	ERV0800BNN	ERV1000BNN	ERV2000BNN
Power supply		Ph/V/Hz	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60
Cooling	Airflow※1	m³/h	150	250	350	500	800	1000	2000
	Temperature exchange efficiency(H/M/L)※2	%	71.20/72.50/73.60	67.50/68.90/69.30	67.60/68.90/72.10	71.10/73.50/73.90	68.10/72.40/72.90	70.50/72.60/73.80	67.70/71.90/72.50
	Enthalpy exchange efficiency(H/M/L)※2	%	56.30/60.40/67.20	55.00/59.10/66.20	55.40/60.50/65.40	59.00/60.50/64.00	58.90/62.70/68.30	63.10/65.40/68.80	62.40/65.80/64.80
	Power input ※1	W	60	105	185	315	385	620	950
	Current	A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Heating	Airflow※1	m³/h	150	250	350	500	800	1000	2000
	Temperature exchange efficiency(H/M/L)※3	%	73.60/75.10/77.30	73.00/74.40/76.20	73.00/73.10/75.90	73.00/75.30/76.90	73.60/74.80/75.10	74.00/75.60/76.80	73.00/73.80/75.60
	Enthalpy exchange efficiency(H/M/L)※3	%	67.60/69.90/74.50	64.40/68.30/70.10	66.80/70.30/73.90	67.40/68.00/70.10	67.40/72.10/73.20	71.36/72.20/75.40	66.70/70.20/73.20
	Power input ※1	W	60	105	185	315	385	620	950
	Current	A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Operating current		A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Indoor motor	Type		DC	DC	DC	DC	DC	DC	EC
	Insulation class		Class B	Class B	Class B	Class B	Class B	Class B	Class B
	IP class		IP42	IP42	IP42	IP42	IP42	IP42	IP44
	Power input	W	65	80	160	180	350	350	500
	Power output	W	49	61	126	137	298	298	425
Indoor fan	Quantity		2	2	2	2	2	2	2
Cabinet	Cabinet coating type		Q235	Q235	Q235	Q235	Q235	Q235	Q235
	Cabinet salt spray test duration	Hour	72h	72h	72h	72h	72h	72h	72h
	Control box iP class		IP2X	IP2X	IP2X	IP2X	IP2X	IP2X	IP2X
Construction	Sheet metal thickness	mm	1	1	1	1	1	1	1
Air filter	Material		Non-woven Fabric/ Ultrafine Synthetic Fiber						
	Class		G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7
	Pressure drop	Pa	90	90	90	90	90	90	90
Air return dimension		mm	110	150	150	150	200	200	300*260(mm)
Air outlet dimension		mm	110	150	150	150	200	200	300*260(mm)
Sound pressure level(H/M/L)		dB(A)	33/29/26	35/31/27	38/36/31	43/40/34	46/30/37	48/45/39	55/50/44
Sound power level(H/M/L)		dB	36/35/32	41/37/33	44/42/37	49/46/40	52/36/43	54/51/45	61/56/50
Standard static pressure※1		Pa	65	75	80	90	90	75	70
Max. Static pressure		Pa	65	75	80	90	90	75	70
Indoor airflow(h/m/l)※1		m³/h	150/120/90	250/200/150	350/280/210	500/400/300	800/640/480	1000/800/600	2000/1600/1200
Unit dimension (W*D*H)		mm	820/650/235	835/750/235	876/750/235	1100/800/280	1138/1000/385	1295/1150/385	1450/1150/600
Packing dimension (W*D*H)		mm	1065/750/335	1080/850/335	1080/850/335	1345/900/380	1545/1100/485	1545/1250/485	1695/1250/700
Net weight		kg	36	41	43	52	81	91	142
Remote wired controller		/	E5TB-XF						
Operation range		/	-15-43						

Note:The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level.
Condition： 1. Indoor temperature : 20DB (°C)/15.8WB (°C),outdoor temperature : 20DB (°C)/15.8WB (°C);2. Indoor temperature : 27DB (°C)/19.5WB (°C),outdoor temperature : 35DB (°C)/28WB (°C);
3. Indoor temperature : 21DB (°C)/13WB (°C), outdoor temperature : 2DB (°C)/1WB (°C);