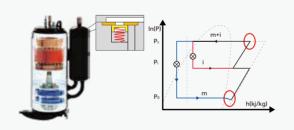


Advanced Technology

Increasing enthalpy by replenish gas, realize the unit powerful heating capacity

Taking the heating cycle as an example, when environment tempetature is low, heat exchanged capability of outdoor unit is depressed. The amount of air returned by compressor is reduced, increase the amount of refrigerant in the heating cycle of the indoor unit heat exchanger, There by achieving improved heating capacity.



DC inverter fan motor

- •DC inverter fan motor more higher efficiency in part load running
- •16-stage speed control; high efficiency running especially in low speed
- Efficiency increase 45% comparing with AC motor and power input largely decrease

•Big diameter fan

•570mm big diameter fan, more big air flow and more higher efficiency(8/10/12HP)



Advanced Technology

High EER and COP(8/10/12HP) The promotion of energy efficiency. SEER SCOP SEER SCOP 10 9 7.67 4.16 4.21 1

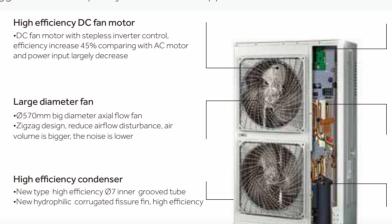
Leadership in technology(4-6HP)

- •Two-stage super cooling cycle technology, increased unit efficiency by 9%. (Double fan)
- •Maximizing 30°C undercooling, increase unit refrigerating capacity by 46%.



Upgraded configuration, upgraded performance (8/10/12HP side discharge)

Bigger outdoor capacity, more flexible application



Vector inverter control

•180 degrees sine wave vector control, 64-bit operation •High precision control, to achieve high efficiency and lower noise

→ Double pressure sensor

•Equipped with high and low voltage pressure double sensors •Accurate pressure control, the system run more smoothly, more energy efficiency

Twin rotary DC Inverter compressor

High chamber DC inverter twin rotary compressor
 Small vibration, low noise, high energy efficiency

Indoor units and outdoor units self-cleaning

Indoor units and outdoor units cleaning mode conversion with nonstop, make abundant use of ODU waste heat to IDU defrosting. At the same time, the IDU uses the waste heat of the ODU to defrost the heat exchanger, to dry the condensed water, effectively prevent mold breeding.









Condensation

Frosting

Powerful rinsing

Outdoor self-cleaning

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High Efficiency

High energy efficiency

DC inverter compressor

Haier takes DC INV. compressor, 5% power input lower. (14kW)

DC fan motor and 550mm big fan

38% power input I ower and 8% airflow higher

Larger heat exchanger

Heat exchange area rise 10%

Charge valve

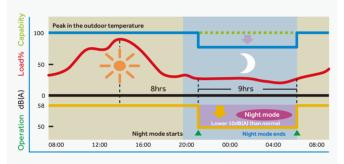
Built-in charge valve enables safer and easier maintenance

Low standby power

New PCB programme, reduce 20% standby power consumption

Low noise level

Night quiet operation function Noise can be reduced to 45dB(A).



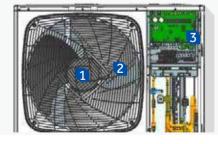
New DC inverter twin rotary compressor

- •Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency.
- •More higher efficiency in part load running.



Super Comfort

- New aerodynamics fan 550mm super big diameter aerospace helix fan. lowering sound level 3dB(A).
- Enlarged air inlet path and spiral air outlet path air flow direction follows the grill direction. lowering sound level 2-4 dB(A).
- Automatic sound-lowering programme night mode set by PCB, 8dB(A) lower.



Low noise operation

- •DC inverter compressor, smooth operation, no need frequent start the compressor, effectively reduce the noise outdoor.
- •Vector inverter control, more precise control.
- •DC fan motor, motor bracket used the non-resonance structure, ensure smooth running of the motor, reduce operating noise.
- •Big diameter fan, design according to aviation quieter principle.



Easy installation

Compact side discharge design, big capacity, small footprint/small footprint, only 0.42m², 43% floor area can be reduced.





% Easy Installation

Double side "4" handles
Easy to carry

"888" test panel

All running data & error code can be checked from "888" screen, which is easy for installers

"Four-way" pipe connection

4-way (front, back, left & right) pipe connection, easy to design and install



Long pipe length, high height drop

- •Total pipe length: 300m.
- •Single pipe length: Max.175m.
- •From outdoor to the first branch pipe: 135m.
- •From the first branch to the farthest indoor door unit: 40m.
- •Height drop: 50m(outdoor above)/40m (outdoor below).
- •Height drop between indoor units: 15m.



Parameter display panel

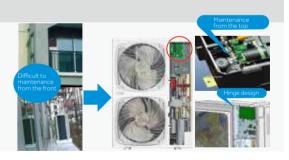
The first original parameter display panel on the side.

The parameter can be observed directly by opening the protective cover in case of maintenance, to avoid removing the repair board.



Easy maintenance for control

The control box is in front, reserving space 108mm between control box and top panel, easy maintenance from the top control box is with hinge design, easy to open for maintenance(8/10/12HP).



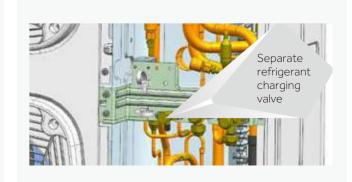
Compact side discharge design

No need additional ventilation hood comparing with top discharge unit.



Separate refrigerant charging valve

Easy for refrigerant charging.

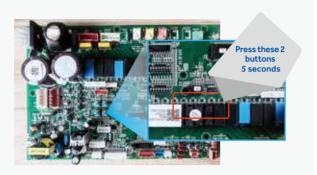


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High Reliability

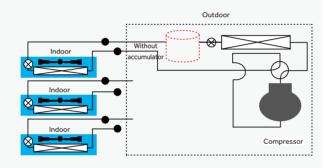
Refrigerant automatically reclaim technology

Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance.



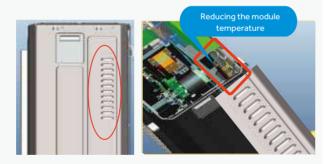
Refrigerant control technology

Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume and enhancing the running efficiency.



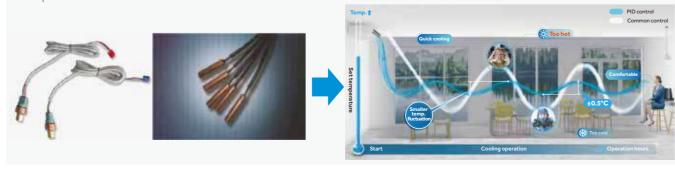
Air inlet grill design on right side panel

Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner.



High and low double pressure sensor

- •Double pressure sensor with PID control technology.
- •Together with high speed communication to realize the quick start of compressor and more precise control, the temperature can be control ± 0.5 °C.





Model			AU042FNERA	AU052FNERA
	Capacity range	HP	4	5
	Cooling		12.1	14.0
	Heating	kW	12.1	14.0
	Heating(Max.)		14.0	15.5
Capacity (1)	SEER(T1)	/	4.90	4.85
	η S,C		193	191
	SCOP(T1)		3.50	3.55
	η s,h		137	139
Electrical Parameters	Power supply		1/220-240/50/60	1/220-240/50/60
	Rated power input (Cooling)	kW	4.25	5.00
	Rated power input (Heating)	kW	4.10	4.83
	External (W/D/H)	mm	950/370/965	950/370/965
Dimensions	Shipping (W/D/H)	mm	1010/458/990	1010/458/990
Weight	Net/Shipping weight	kg	90/102	90/102
	Compressor type	/	Rotary	Rotary
Compressor	Motor power	W	4130	4130
	Compressor quantity	/	1	1
an	Air flow (H)	m³/h	5400	5400
Pressure	Cooling	dB(A)	58	60
Sound level	Heating	dB(A)	60	62
Refrigerant	Туре	/	R410A	R410A
terrigerant	Charge	kg	3.3	3.3
	Refrigerant liquid pipe	mm	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88
Piping	Total pipe length	m	120	120
pmg	Max. pipe length(Equivalent/Actual)	m	70/60	70/60
	Max. drop between I.U.&O.U.(ODU above / below)	m	30/20	30/20
	Max. drop between I.U.&I.U.	m	10	10
Connection	Connectable indoor unit ratio	%	50~130	50~130
Ratio	Maximum number of indoor units	/	7	8
Vorking	Cooling	°C	-5-50	-5~50
Temp.	Heating	°C	-15~21	-15~21

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27° C DB/19 $^{\circ}$ C WB; Outdoor temp 35° C DB/24 $^{\circ}$ C WB; In heating, Indoor Temp. is 20° C DB, Outdoor Temp. is 7° C DB/6 $^{\circ}$ C WB)

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AU042FPERA AU052FPERA AU062FPERA AU04IFPERA AU05IFPERA AU06IFPERA





Double Fan Series Total Pipe Length 300m Two Stage Sub-cooling







Model			AU042FPERA	AU052FPERA	AU062FPERA	AU04IFPERA	AU05IFPERA	AU06IFPERA
Capacity ⁽¹⁾	Capacity range	HP	4	5	6	4	5	6
	Cooling	kW	12.1	14	15.5	12.1	14	15.5
	Heating	kW	12.1	14	15.5	12.1	14	15.5
	SEER(T1)	/	6.82	6.65	6.80	6.82	6.65	6.80
	η S,C	%	270	263	269	270	263	269
	SCOP(T1)	/	4.05	4.11	4.05	4.05	4.11	4.05
	η s,h	%	159	161	159	159	161	159
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Rated power input (Cooling)	kW	3.61	4.33	5.17	3.61	4.33	5.17
	Rated power input (Heating)	kW	3.23	3.76	5.00	3.23	3.76	5.00
Dimensions	External(W/D/H)	mm	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350
	Shipping (W/D/H)	mm	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492
Weight	Net/Shipping	kg	108/123	108/123	108/123	108/123	108/123	108/123
	Compressor type	/	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Compressor	Motor power	W	4130	4130	4130	4060	4060	4060
	Compressor quantity	/	1	1	1	1	1	1
Fan	Air flow (H)	m³/h	7200	7200	7200	7200	7200	7200
Pressure Sound level	Cooling	dB(A)	57	58	59	57	58	59
	Heating	dB(A)	57	58	59	57	58	59
Refrigerant	Туре	/	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	4	4	4	4	4	4
Piping	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Total pipe lenth	m	300	300	300	300	300	300
	Max. pipe length (Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150
	Max. drop between IDU&ODU (ODU above/below)	m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between IDU & IDU	m	15	15	15	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	/	8	10	13	8	10	13
Working	Cooling	°C	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	°C	-20~27	-20~27	-20~27	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27° C DB/19°C WB; Outdoor temp 35° C DB/24°C WB; In heating, Indoor Temp. is 20° C DB, Outdoor Temp. is 7° C DB/6°C WB)

AU08NFKERA AU10NFKERA AU12NFKERA AU12NFKERA

Model			AU08NFKERA	AU10NFKERA	AU12NFKERA
	Capacity range		8HP	10HP	12HP
	Cooling	kW	22.6	28	31.5
	Heating	kW	22.6	30.5	31.5
Capacity ⁽¹⁾	Heating(Max.)	kW	25	32	35
	SEER	/	7.67	7.65	7.47
	η S,C	%	304	303	296
	SCOP		4.05	4.16	4.21
	ηs,h	%	159	163.4	165.4
Electrical Parameters	Power supply		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated Power input (Cooling)	kW	6.95	8.67	11.52
	Rated Power input (Heating)	kW	5.79	8.03	8.49
Dimensions	External (W/D/H)	mm	1050/400/1636	1050/400/1636	1050/400/1636
	Shipping (W/D/H)	mm	1150/510/1790	1150/510/1790	1150/510/1790
Weight	Net/Shipping weight	kg	149/168	149/168	149/168
	Compressor type	/	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
Compressor	Motor Power	W	6270	6270	6270
	Compressor quantity	/	1	1	1
Fan	Air flow (H)	m³/h	10000	10000	10000
Pressure	Cooling	dB(A)	63	64	65
Sound level	Heating	dB(A)	65	66	67
Refrigerant	Туре	/	R410A	R410A	R410A
Reirigerant	Charge	kg	5.1	5.1	5.1
	Refrigerant liquid pipe	mm	9.52	9.52	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
Piping	Total pipe length	m	300	300	300
riping	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150
	Max. drop between I.U.&O.U.(ODU above / below)	m	50	50	50
	Max. drop between I.U.&I.U.	m	15	15	15
Connection	Connectable indoor unit ratio	%	50~130	50~130	50~130
Ratio	Maximum number of indoor units	/	13	16	19
Working	Cooling	°C	-5~48	-5~48	-5~48
Temp.	Heating	°C	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

Dimensions

