



The related products of Oubo have obtained the above certification,
and the specific product certification is detailed in the relevant product certification certificate

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OBAIR
Central air conditioning



Pure Copper
Motor



Two-way
ventilation



Silent and
low noise



Metal impeller

CONDENSING EXHAUST

HEAT RECOVERY FRESH AIR HANDLING UNIT

The Obair R410A condensing exhaust heat recovery fresh air air conditioning unit is an energy-saving fresh air air conditioning unit that utilizes the indoor polluted return air (exhaust air) as the cold and heat source for the air conditioning unit. It integrates fresh air exchange, energy recovery, and exhaust air system into a single machine design (no need for additional outdoor units), significantly improving the unit's energy efficiency ratio and saving energy.

This product has many advantages such as stable and reliable product performance, high energy efficiency ratio, low noise, simple and aesthetic exterior structure, and easy and flexible installation. It can be widely used in various places that require fresh air conditioning, such as hospitals, office buildings, restaurants, hotels, shopping malls, banks, pharmaceutical factories, sports centers, entertainment centers, etc. It has a good application prospect and energy-saving effect in the field of fresh air treatment. The Obair intelligent control system achieves precise output of energy load according to the demand for cooling and heating.

» Product Features

Energy Efficiency: The unit leverages low-temperature indoor return air (exhaust air) as the cooling source in summer to reduce condensing temperature and compressor power consumption, thus enhancing cooling efficiency. In winter, it uses high-temperature, high-humidity indoor return air for heating to raise the evaporation temperature, maintain high evaporation pressure, provide efficient heating, and reduce frost, thereby improving heating efficiency.

Comfort: In winter, the unit recovers heat from the high-temperature indoor return air (exhaust air), which eliminates the need for frequent defrosting stops and ensures a continuous supply of fresh air, preventing the discomfort of cold air drafts, thereby significantly improving indoor comfort.

Reliability and Stability: Each unit, rigorously tested for items specified by national standards in a comprehensive enthalpy difference experimental testing center, designed, manufactured, and certified by national authorities, meets or exceeds those standards, ensuring reliable, safe, and stable performance.

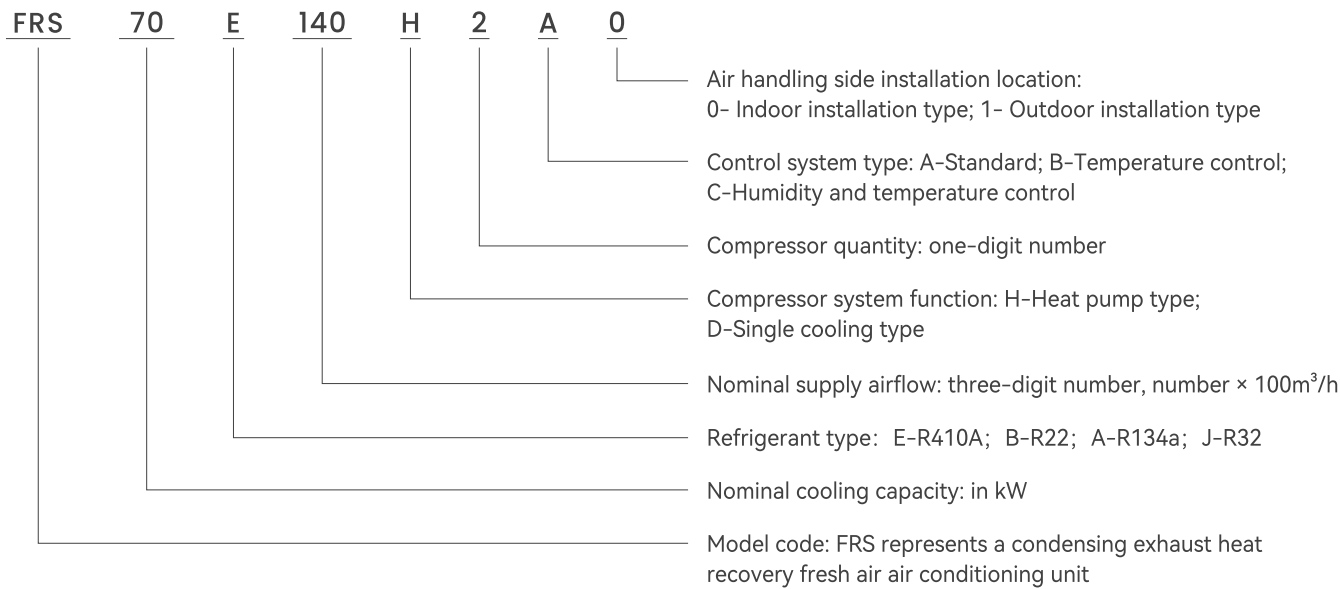
Hygiene: The design separates the evaporator and condenser, eliminating the risk of cross-contamination by bacteria or other pollutants, ensuring a clean air output.

Air Quality: It features a built-in condenser with special filters (such as initial effect, activated carbon, electrostatic dust removal) on the fresh air side. These filters remove harmful microorganisms, mites, and up to 50% of PM2.5, greatly improving the quality of incoming fresh air.

Integrated Design: Its integrated design of fresh air and exhaust air systems allows recovery of indoor exhaust air heat to achieve energy efficiency while functioning as an exhaust air unit.

Customization: The unit can be customized according to customer needs, offering functions such as cooling, heating, disinfection, filtration, dehumidification, and humidification. It delivers 100% outdoor fresh air, exhausts contaminated air, and ensures indoor air quality, making it an ideal choice for users.

» Model Description



» Ordering Instructions

- 1、Customers should specify the model and specifications of the unit when ordering.
- 2、The standard unit surface color is beige. Specify if a different color is needed.

» Technical Parameters

Heat Pump Type FRS			15E018H1A0	20E025H1A0	30E036H1A0	33E041H1A0	
Rated Cooling Capacity		kW	15	20	30	33	
Heat Pump Heating Capacity		kW	15	21	31	33	
Total Power of the Unit		kW	4.9	6.7	9.4	11	
Air Supply			380V/3N~/50Hz				
Entire Unit	Air Supply Volume		m³/ h	1750	2500	3600	4100
	Static Pressure of Supply Fan		Pa	100	100	150	150
	Power of Supply Fan		kW	0.75	1.1	1.1	1.5
	Exhaust Air Volume		m³/ h	1750	2500	3600	4100
	Static Pressure of Exhaust Fan		Pa	100	100	150	150
	Power of Exhaust Fan		kW	0.75	1.1	1.5	2.2
	Drainage Pipe		mm	DN32	DN32	DN32	DN32
	Compressor Type		Hermetic Scroll Type				
	Number of Compressors		1	1	1	1	
	Outline Dimensions	Length	mm	1900	1900	1900	1900
		Width	mm	750	950	1250	1250
		Height	mm	1700	1700	1700	1700
	Weight		kg	540	630	882	910
Refrigerant			R410A				
COP			3.06	2.99	3.19	3.00	

- Note:
1. Cooling mode: ambient wet-bulb and dry-bulb temperatures are 35/28℃, room return air wet-bulb and dry-bulb temperatures are 27/19℃;
2. Heating mode: ambient wet-bulb and dry-bulb temperatures are 7/6℃, room return air wet-bulb and dry-bulb temperatures are 20/15℃;
3. Cooling environment dry-bulb temperature range: 15 ~ 45℃, indoor coil incoming air temperature range: 15 ~ 43℃;
4. Heating environment dry-bulb temperature range: -8 ~ 21℃, indoor coil incoming air temperature range: -8 ~ 21℃;
5. The unit has been charged with refrigerant before leaving the factory;
6. The unit is fully assembled (including piping and wiring) before leaving the factory, and is shipped as a complete unit;
7. Specifications and parameters are subject to change without prior notice due to product improvements.

» Technical Parameters

Heat Pump Type FRS			37E046H1A0	43E055H1A0	58E072H2A0	66E082H2A0	
Rated Cooling Capacity		kW	37	43	58	66	
Heat Pump Heating Capacity		kW	36	42	56	64	
Total Power of the Unit		kW	12.14	14.85	18	20.6	
Air Supply			380V/3N~/50Hz				
Entire Unit	Air Supply Volume		m³/ h	4600	5500	7200	8200
	Static Pressure of Supply Fan		Pa	150	200	200	200
	Power of Supply Fan		kW	1.5	2.2	2.2	3
	Exhaust Air Volume		m³/ h	4600	5500	7200	8200
	Static Pressure of Exhaust Fan		Pa	150	200	200	200
	Power of Exhaust Fan		kW	2.2	2.2	2.2	3
	Drainage Pipe		mm	DN32	DN32	DN32	DN32
	Compressor Type		Hermetic Scroll Type				
	Number of Compressors		1	1	2	2	
	Outline Dimensions	Length	mm	1900	2000	2000	2000
		Width	mm	1350	1350	1650	1650
		Height	mm	1800	2000	2000	2200
	Weight		kg	954	1181	1272	1324
Refrigerant			R410A				
COP			3.05	2.90	3.22	3.20	

Note:

1. Cooling mode: ambient wet-bulb and dry-bulb temperatures are 35/28°C, room return air wet-bulb and dry-bulb temperatures are 27/19°C;
2. Heating mode: ambient wet-bulb and dry-bulb temperatures are 7/6°C, room return air wet-bulb and dry-bulb temperatures are 20/15°C;
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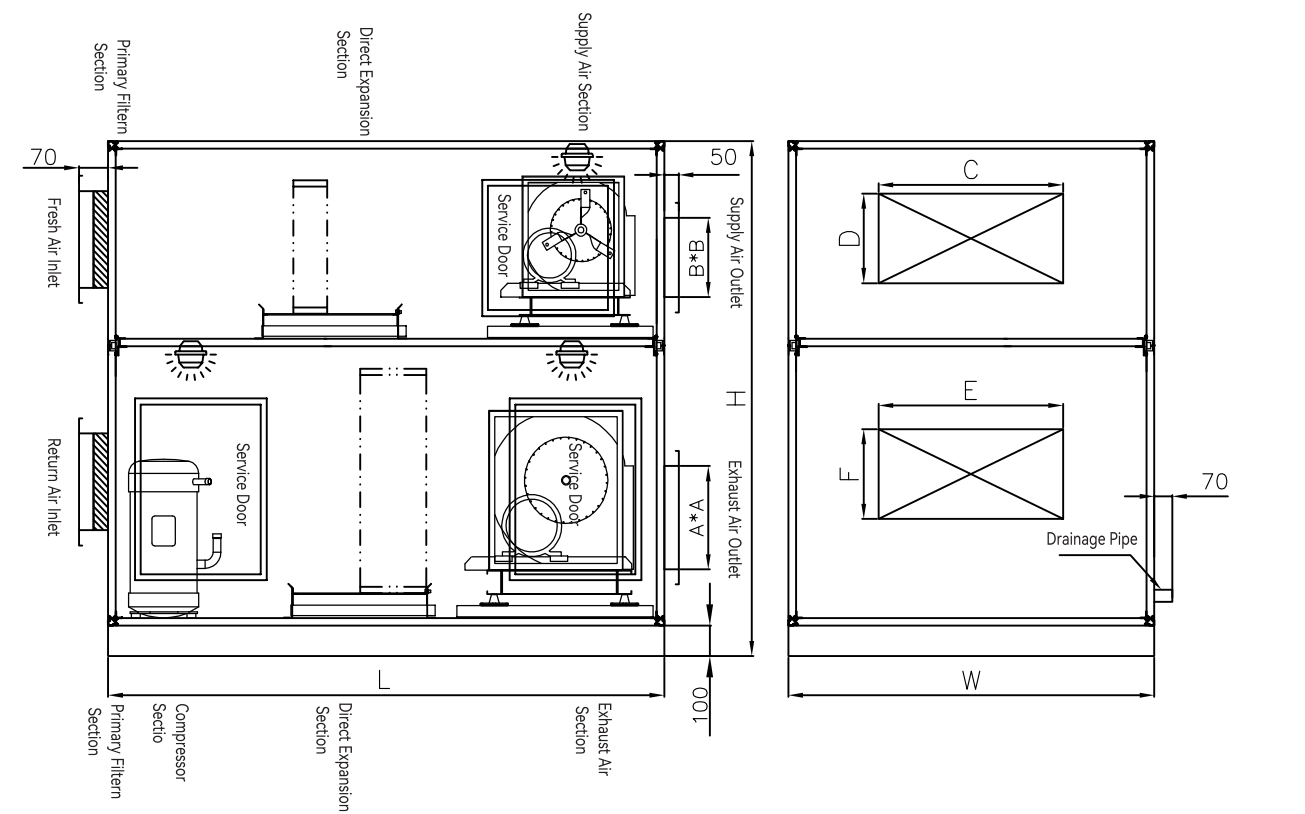
» Technical Parameters

Heat Pump Type FRS			74E092H2A0	95E118H2A0	116E143H3A0	142E176H3A0	152E189H4A0	
Rated Cooling Capacity		kW	74	95	116	142	152	
Heat Pump Heating Capacity		kW	72	94	114	140	150	
Total Power of the Unit		kW	23.88	28.9	36.32	44.35	46.76	
Air Supply			380V/3N~/50Hz					
Entire Unit	Air Supply Volume		m³/h	9200	11800	14300	17600	18900
	Static Pressure of Supply Fan		Pa	250	250	300	300	300
	Power of Supply Fan		kW	3	4	5.5	5.5	5.5
	Exhaust Air Volume		m³/h	9200	11800	14300	17600	18900
	Static Pressure of Exhaust Fan		Pa	250	250	300	300	300
	Power of Exhaust Fan		kW	4	4	5.5	7.5	7.5
	Drainage Pipe		mm	DN32	DN32	DN32	DN32	DN32
	Compressor Type		Hermetic Scroll Type					
	Number of Compressors		2		2	3	3	4
	Outline Dimensions	Length	mm	2000	2100	2100	2200	2200
		Width	mm	1850	1850	2050	2450	2650
		Height	mm	2200	2400	2600	2600	2600
	Weight		kg	1368	1671	2094	2354	2594
Refrigerant			R410A					
COP			3.10	3.29	3.19	3.20	3.25	

Note:

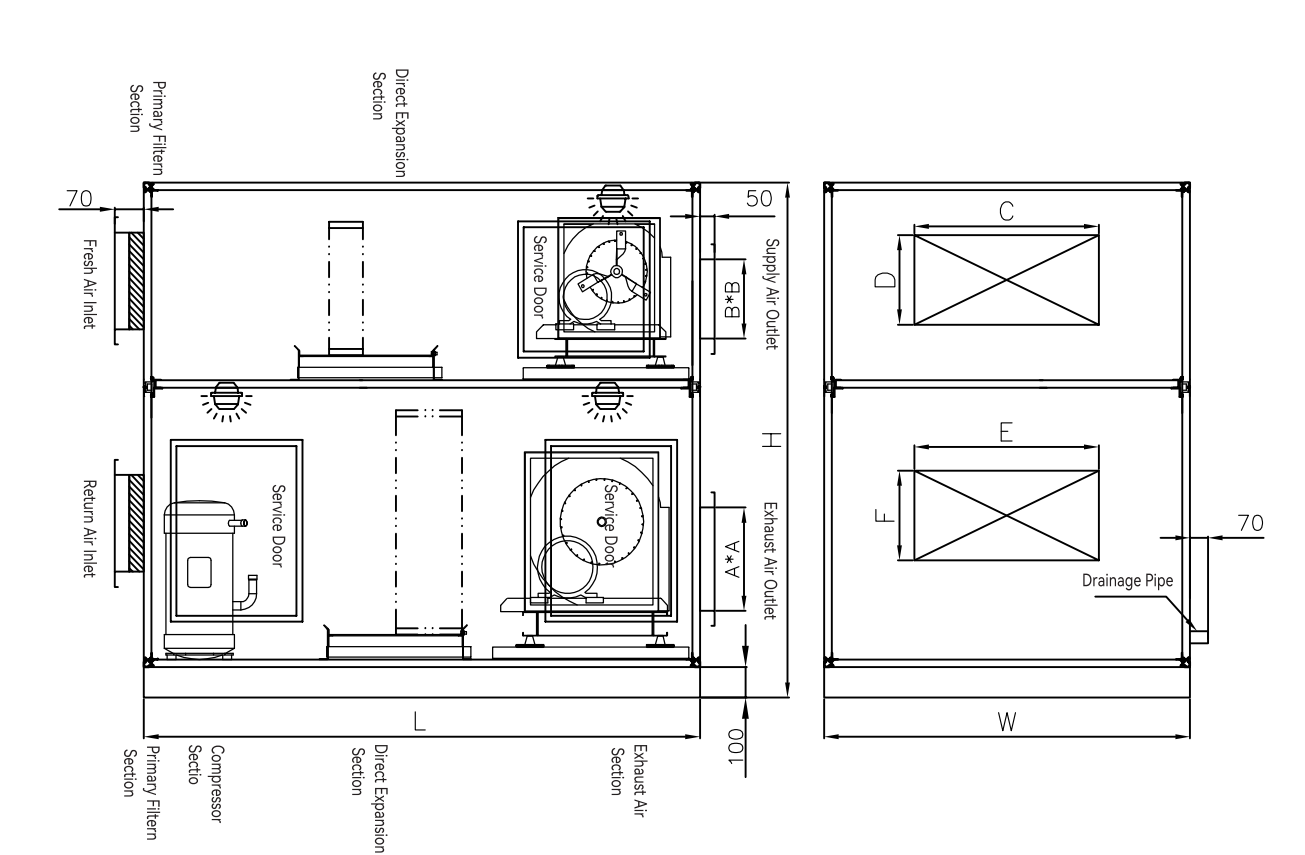
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» Dimensions and Weight



Model	Outline Dimensions (mm)			Fresh Air Outlet Dimensions (mm)	Return Air Inlet Dimensions (mm)	Supply Air Outlet Dimensions (mm)	Exhaust Air Outlet Dimensions (mm)	Condensing Water Pipe Diameter	Unit Weight
	Length	Width	Height						
FRS	L	W	H	C*D	E*F	B*B	A*A	DN	kg
15E018H1A0	1900	750	1700	500*400	500*400	260*260	260*260	32	540
20E025H1A0	1900	950	1700	600*500	600*500	260*260	260*260	32	630
30E036H1A0	1900	1250	1700	700*600	700*600	290*290	290*290	32	882
33E041H1A0	1900	1250	1700	800*600	800*600	290*290	290*290	32	910
37E046H1A0	1900	1350	1800	900*600	900*600	320*320	320*320	32	954
43E055H1A0	2000	1350	2000	900*700	900*700	360*360	360*360	32	1181
58E072H2A0	2000	1650	2000	1200*700	1200*700	405*405	405*405	32	1272

» Unit Dimensions and Weight



Model	Outline Dimensions (mm)			Fresh Air Outlet Dimensions (mm)	Return Air Inlet Dimensions (mm)	Supply Air Outlet Dimensions (mm)	Exhaust Air Outlet Dimensions (mm)	Condensing Water Pipe Diameter	Unit Weight
	Length	Width	Height						
FRS	L	W	H	C*D	E*F	B*B	A*A	DN	kg
66E082H2A0	2000	1650	2200	1400*700	1400*700	405*405	405*405	32	1324
74E092H2A0	2000	1850	2200	1400*800	1400*800	455*455	455*455	32	1368
95E118H2A0	2100	1850	2400	1400*1000	1400*1000	510*510	510*510	32	1671
116E143H3A0	2100	2050	2600	1600*1100	1600*1100	570*570	570*570	32	2094
142E176H3A0	2200	2450	2600	1900*1100	1900*1100	640*640	640*640	32	2354
152E189H4A0	2200	2650	2700	2100*1100	2100*1100	640*640	640*640	32	2594