

R32 Heat Pump Split type

R32 Heat Pump Split type

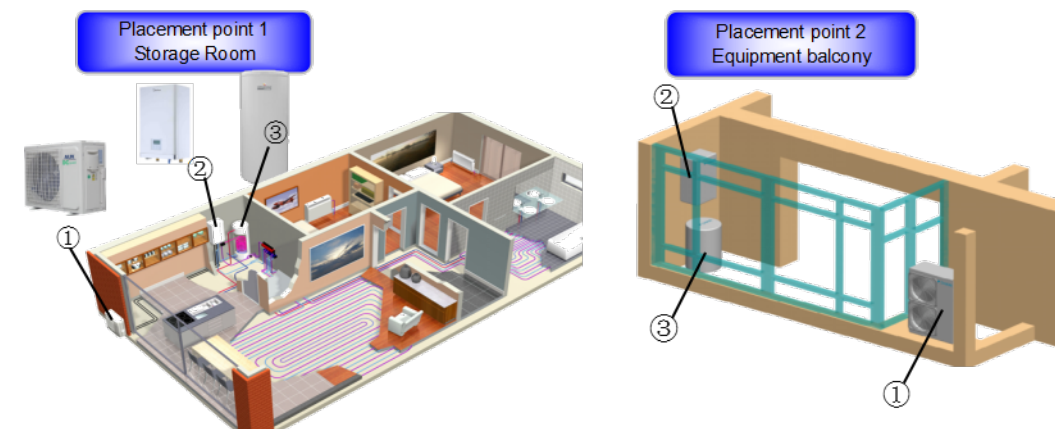
R32 Heat Pump Split type



Wired controller

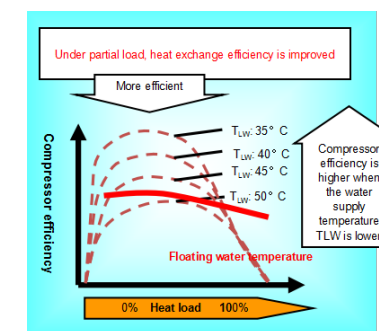


Heating+Cooling+Domestic hot water

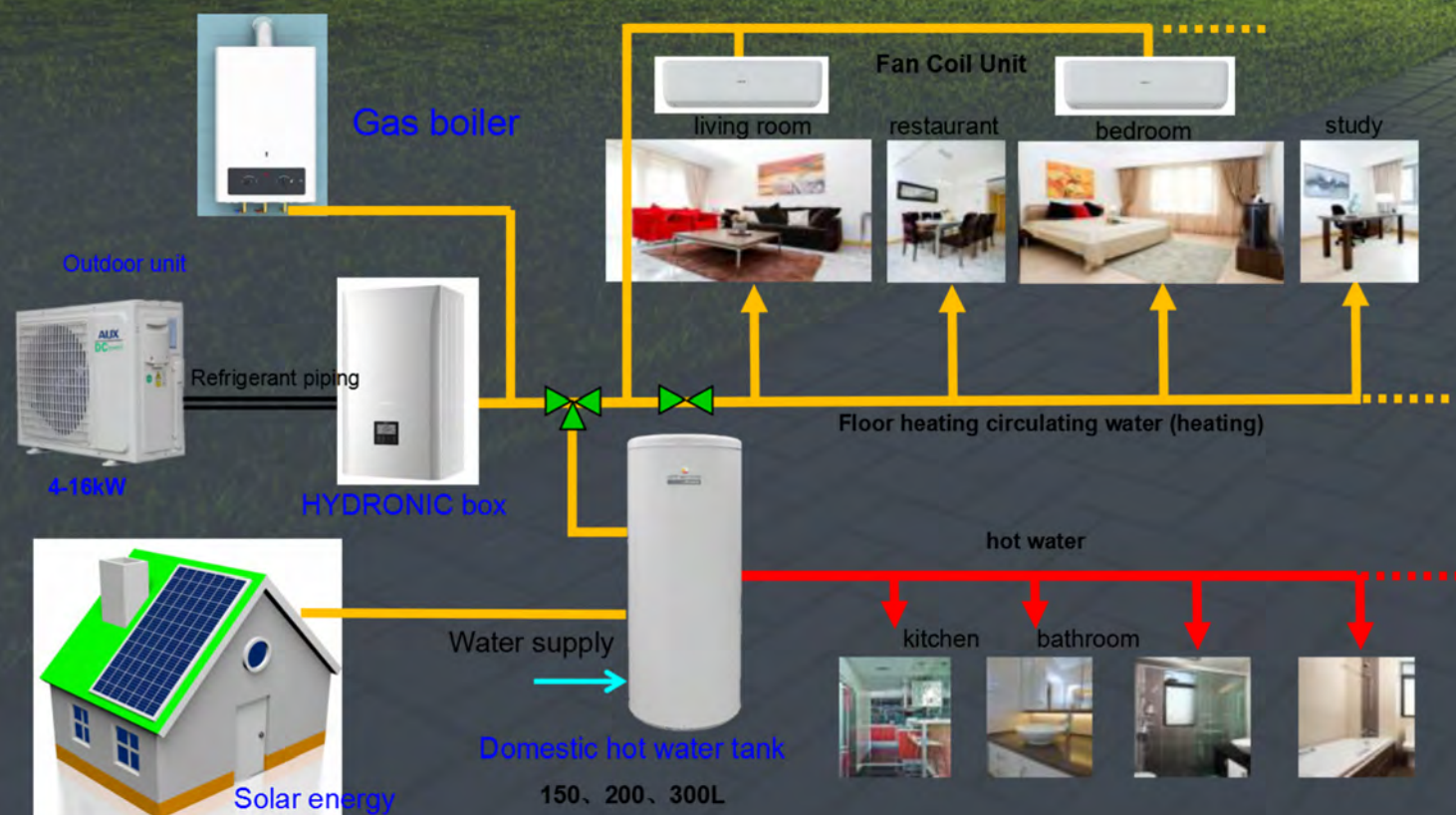
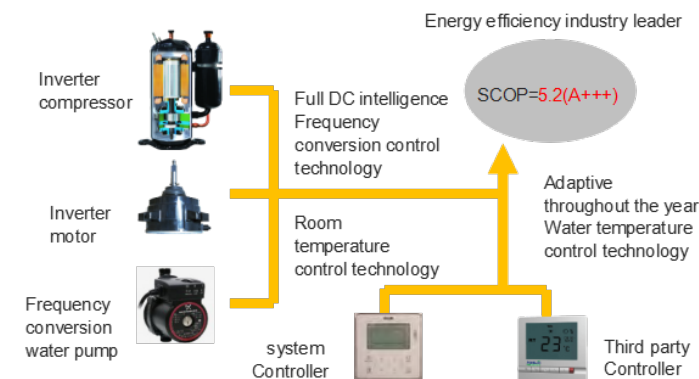


DC Inverter Technology, High Energy Efficient

The compressor speed is controlled according to the indoor heating demand, and the output is completely on demand, more comfortable enjoyment: In any case, it can maintain a stable indoor temperature. Soft start to avoid grid impact



Full DC frequency conversion system, frequency conversion compressor + DC external fan + frequency conversion water pump
Leading in the energy efficiency industry, the highest SCOP=5.2(A+++), far exceeding the EU energy efficiency standard by 14.4%

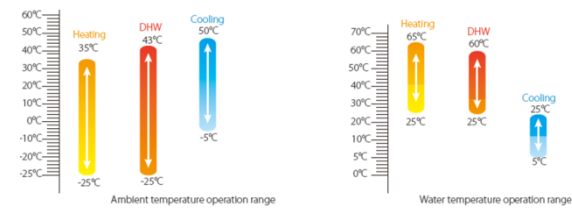


R32 Heat Pump Split type

R32 Heat Pump Split type

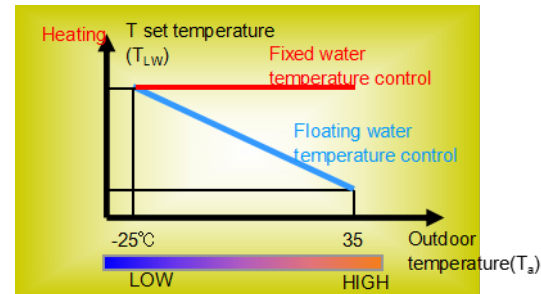
Wide ambient temperature and water temperature operation ranges

Advanced system design, ultra-standard matching and testing, to achieve a wide operating range of ambient temperature and a wide range of water temperature.



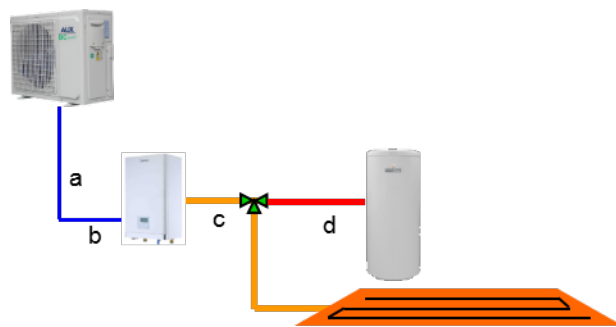
Floating water temperature control more comfort

Changes in outdoor air temperature, changes in heat required indoors, But fix water temperature, provide constant heat, overheating, waste



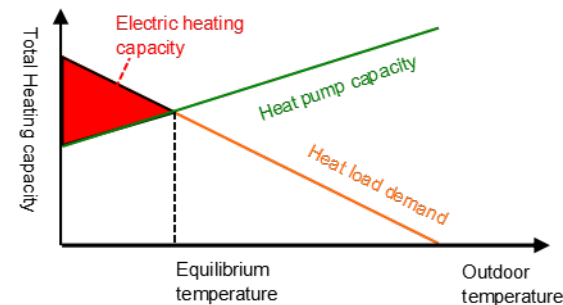
Long piping length

Maximum piping length for outdoor unit and hydronic box (a+b) 30m
 Minimum piping length for outdoor unit and hydronic box (a+b) 3m
 Maximum piping height for outdoor unit and hydronic box (a) 20m
 When the water tank is connected,
 Maximum length between the 3-way valve and hydronic box (c) 3m
 Maximum length between the water tank and hydronic box (c+d) 10m



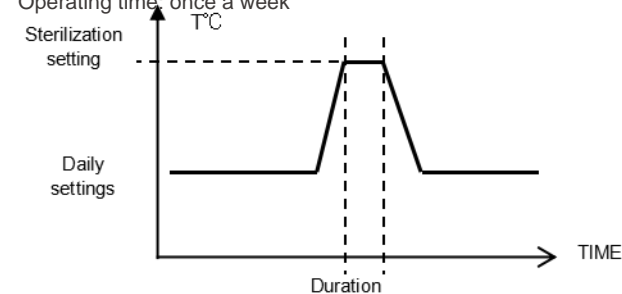
Backup electric heating, More economical and more comfortable

Function: As a supplement to the capacity of the heat pump when the outdoor temperature is low
 Turn on : Only when the heat pump capacity is slightly insufficient (that is, the outdoor temperature is below the equilibrium temperature). But the opening rate is very low throughout the heating season



Sterilization function

With sterilization function, the use of domestic hot water is healthier.
 Sterilization temperature: about 65°C
 Duration: Suggest 10 minutes, refers to the time that can be maintained in high temperature water,
 Operating time: once a week



User interface

New type touch key wired controller
 Real-time check of operating parameters
 Built-in temperature sensor
 Built-in wifi module
 Multiple languages
 Modbus protocol and network flexibility, etc.



R32 Heat Pump Split type



Specification -R32 50&60HZ

Model name		AL-H14/NDR3H(U)	AL-H20/NDR3H(U)	AL-H27/NDR3H(U)	AL-H34/NDR3H(U)	AL-H41/SDR3H(U)	AL-H48/SDR3H(U)	AL-H55/SDR3H(U)	
Compatible hydronic box		6kW			10kW		16kW		
Power supply		220-240/1/50			220-240/1/50		380-415/3/50		
Heating ₂	Capacity kW	4.3	6.25	8.4	10	12.2	14.5	16.1	
	Rated input kW	0.83	1.3	1.62	2	2.44	3.08	3.57	
	COP	5.2	5	5.2	5	5	4.71	4.51	
Heating ₃	Capacity kW	4.36	6.4	8.3	10	12	14	16.1	
	Rated input kW	1.47	2.13	2.60	3.23	3.86	4.67	5.53	
	COP	2.96	3	3.19	3.1	3.11	3	2.91	
Cooling ₁	Capacity kW	4.5	6.6	8.45	10	12	13.6	15	
	Rated input kW	0.81	1.35	1.67	2.08	3	3.78	4.41	
	EER	5.56	4.9	5.06	4.8	4	3.6	3.4	
Cooling ₂	Capacity kW	4.75	7.05	7.45	8.3	11.7	12.8	14	
	Rated input kW	1.40	2.35	2.20	2.52	4.3	5.00	5.7	
	EER	3.4	3	3.39	3.3	2.75	2.56	2.46	
Seasonal space heating energy efficiency class ⁷	LWT at 35° C	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	LWT at 55° C	A++	A++	A++	A++	A++	A++	A++	
SCOPs	LWT at 35° C	4.86	4.96	5.22	5.2	4.82	4.71	4.63	
	LWT at 55° C	3.32	3.53	3.37	3.5	3.46	3.48	3.43	
MOP(Maximum overcurrent protection)	A	18	18	19	19	14	14	14	
Compressor	Type	Twin rotary DC inverter							
Outdoor fan	Motor type	Brushless DC motor							
	Number of fans	1	1	1	1	1	1	1	
Air side heat exchanger	Type	Finned tube							
Refrigerant(R32)	Factory charge kg	1.25	1.25	1.65	1.65	1.84	1.84	1.84	
Piping connections	Throttle type	Electronic expansion valve							
	Type	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Installation height difference	Liquid/ Gas Dia.(OD) mm	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9	
	Min. /Max. pipe length m	2/30	2/30	2/30	2/30	2/30	2/30	2/30	
Sound pressure level(Lm)	Outdoor unit above/below m	20	20	20	20	20	20	20	
	Outdoor Unit dB	43	44	45	48	49	50	54	
Net dimensions (W×H×D)	Hydronic Box dB	28		29	29	31			
	Outdoor Unit mm	350×700×900		395×805×970		420×860×990			
Packed dimensions (W×H×D)	Hydronic Box mm	420×790×270		420×790×270		420×790×270			
	Outdoor Unit mm	430×770×1020		495×895×1105		530×880×1085			
Net/Gross weight	Hydronic Box mm	515×985×355		515×985×355		515×985×355			
	Outdoor Unit kg	37/40		51/55	65/69	100/112			
Operating temperature range	Hydronic Box kg	37/43		38/44		39/45			
	Cooling °C	10 to 48							
Setting water temperature range	Heating °C	-25 to 35							
	DHW °C	-25 to 43							
	Cooling °C	5~25							
Water circuit	Heating °C	25~65							
	DHW(tank) °C	30~60							
Water circuit	Piping connections	inch							
	Safety valve set pressure	MPa							
	Flow switch	m³/h							
	Drainage pipe connection	mm	0.36						
		Volume L	DN25						
	Expansion tank	Max. water pressure MPa	8						
		Pre-pressure MPa	0.3						
	Water side	Type	0.1						
	Capacity of the back-up	kW	0/3		0/3/9				
	Water pump head	m	9.5						

Note:

- Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
- Outdoor air temperature 7° C DB, 85% R.H.; EWT 30° C, LWT 35° C.
- Outdoor air temperature 7° C DB, 85% R.H.; EWT 47° C, LWT 55° C.
- Outdoor air temperature 35° C DB; EWT 23° C, LWT 18° C.
- Outdoor air temperature 35° C DB; EWT 12° C, LWT 7° C.
- Seasonal space heating energy efficiency class tested in average climate conditions.
- Test standard: EN12102-1
- Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.