



CE A+++

Air To Water Split Heat Pump



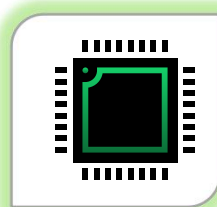
Stable heating
under -25°C



Top A+++ energy
efficiency



55°C hot
water



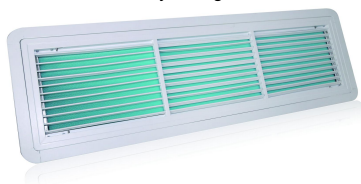
Smart control
and diagnosis



Quiet sleep

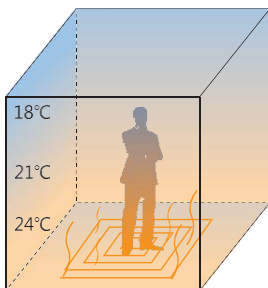
Return air filter

Air purifying and heat exchange function ensure purification efficiency as high as 95%.

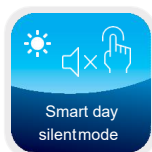


Floor heating

Complying with human thermal engineering rules
Improving blood circulation and metabolism of the body

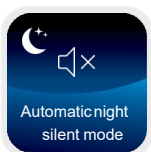


Quiet sleep



Smart day
silent mode

Smart day
silent mode



Automatic night
silent mode

Automatic night
silent mode



Powerful night
silent mode

Powerful night
silent mode

Intelligence

Varieties of Control

Operating mode



Fan coil
cooling



Fan coil
heating



Floor
heating



Floor heat
preservation

Regular function



Outdoor environment
Temperature display



Time, date, and
week display



Room
temperature
setting and display



Scheduled
power-on/off



Automatic startup
upon power recovery



Ultra quiet
operation



Powerful
defrosting



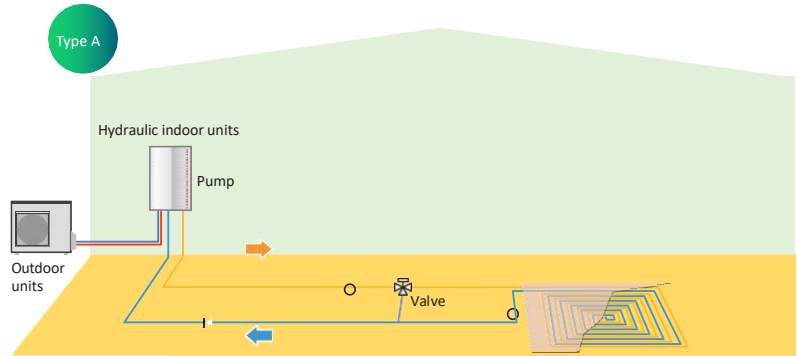
Error
check



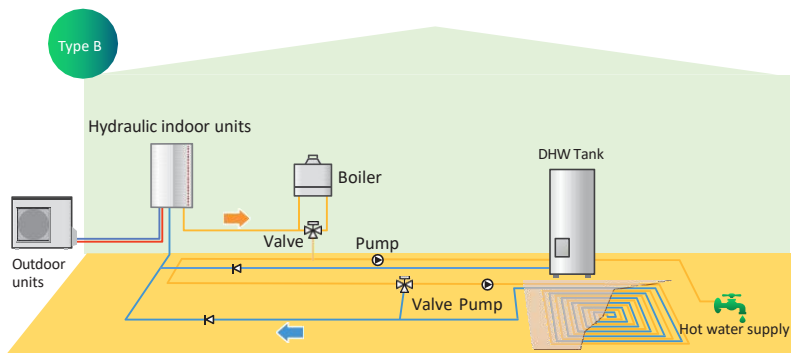
Password
setting

Installation Type

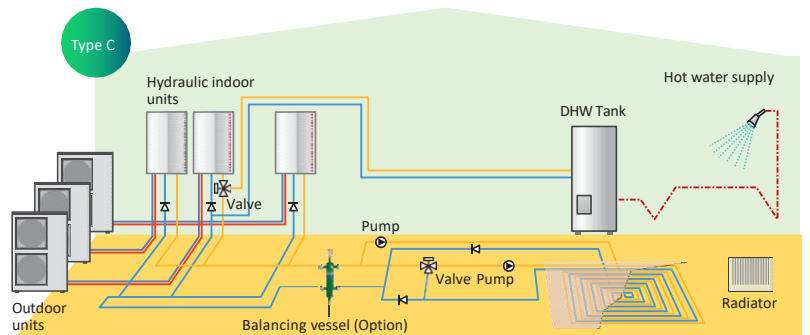
Type A



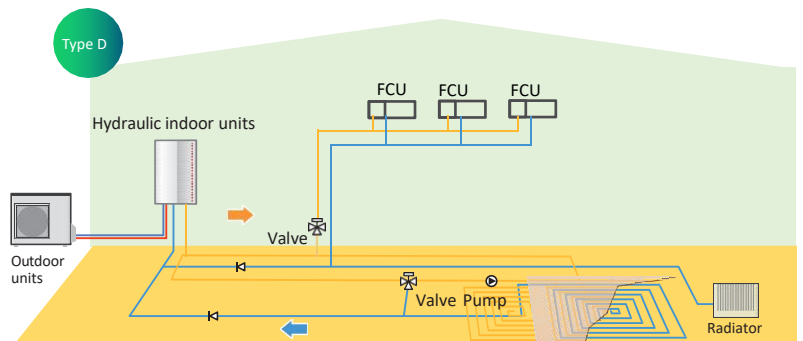
Type B



Type C



Type D



Specifications

Model		TSCA/I120FHL	TSCA/I140FHL	TSCA/I160FHL
ODU		TSCA120FHL	TSCA140FHL	TSCA160FHL
IDU		TSCI120FHL	TSCI140FHL	TSCI160FHL
Heating capacity 1	Nominal heating capacity (kW)	12.5	14.2	16
	Rated power input (kW)	3.2	3.74	4.26
	COP _h (kW/kW)	3.91	3.8	3.76
Cooling capacity 1	Nominal cooling capacity (kW)	12	13.5	14.5
	Rated power input (kW)	4.24	5.01	5.56
	EER	2.83	2.69	2.61
Seasonal space heating energy efficiency class		LWT at 35°C	A+++	
		LWT at 55°C	A++	
SCOP	LWT at 35°C	4.65	4.6	4.52
	LWT at 55°C	3.45	3.4	3.31
Circulating water flow (m3/h)		2.06	2.41	2.75
Pump type		Variable frequency canned pump (Optional)		
Power supply		220-240V ~50Hz		
Maximum total power (kW)	ODU	7		
	IDU	0.3		
Maximum operating current (A)	ODU	35		
	IDU	1.36		
Applicable ambient temperature (°C)	Cooling	-15~55		
	Heating	-25~48		
Refrigerant/Charge quantity		R410A/3.05kg		
Sound power level(dB(A))ODU		67	69	70
Sound power level(dB(A))IDU		45	45	45
Unit external lift (mH ₂ O)		9.5	8	6.5
IP rating	ODU	IPX4, and applies to outdoor applications		
Refrigerant pipeline connection	Gas/liquid pipe diameter (mm)	φ19.05/φ9.52		
	Connection mode	Pipe socket		
Circulating water pipe connection	Water inlet/outlet pipe diameter	DN32		
	Connection mode	External thread (R 1-1/4')		
Net weight (kg)	ODU	96	96	96
	IDU	53	53	53
Dimensions L*W*H	ODU	980*420*840		
	IDU	520*245*892		

Notes:

1. Nominal cooling test conditions: The water outlet temperature is 7°C and the outdoor dry bulb temperature is 35°C.
2. Due to the continuous improvement and innovation of TICA products, the product models, parameters and performance in this document are subject to changes without prior notice. The parameters indicated on the nameplate should prevail.
3. Please refer to the maximum total power and maximum operating current during power distribution.
4. The ODU has been charged with refrigerant.