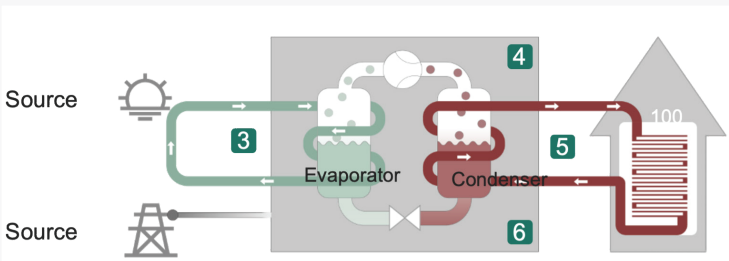
PRODUCT TICA

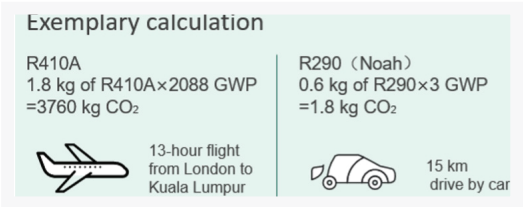
COMMERCIAL HEAT PUMP HOT WATER SYSTEM

TICA's cutting-edge heat pump technology using natural refrigerant (R290) is the best testimony to its future environmental commitment: the same heat pump, using R290, has only 0.05% of the greenhouse effect of traditional R410A.

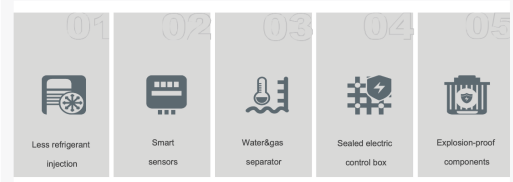


TICA air source system consists of an outdoor module combined with an indoor or control module. They work together to create a complete climate system that's easy to install, run and maintain.

R290 NATURAL REFRIGERANT



Zero ODP and exceptionally eco-friendly low GWP (global warming potential) of 3. Improved SCOP of up to 4.9 for lower running costs. Higher hot water comfort and legionella protection without back-up heater due to a wide working envelope from –25 to +46°C.



HIGH EFFICIENCY

The R290 heat pump is equipped with the latest heat pump technology. This heat pump system serves as the heat source for space heating and domestic hot water service in an incredibly efficient manner, even in cold weather. The system can be connected to photovoltaic or solar heating systems.

TRANQUILITY

High-efficiency, low-speed fans and noise attenuation measures reduce the noise of units down below to 30dB (A), requiring low constraints to the installation location. Even in noise-sensitive residential areas, the unit have little environmental impact.

SPACE SAVING

The aesthetic product design can seamlessly integrate with architectural design.

SAFETY

Comprehensive safety measures have been designed for monitoring and managing R290 refrigerant, with built-in five-stage protections to minimize operational risks.

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TECHNICAL DATA

Model			TUCA040K HLB	TUCA060K HLB	TUCA080K HLB	TUCA100K HLB	TUCA120K HLB	TUCA140K HLB	TUCA160K HLB
Capacity (heating)		kWth	4	6	8	10	12	14	16
Power input		kWe	0.83	1.17	1.63	2.08	2.45	2.89	3.34
COP		-	4.85	4.8	4.9	4.8	4.9	4.85	4.8
SCOP	A7W35	-	A+++				A+++		
	A7W55	-	A+++	A+++	A++	A++	A++		
Refrigerant			R290				R290		
Refrigerant ODP/GWP			ODP=0 / GWP=3				ODP=0 / GWP=3		
Power supply		V/ph/Hz	230V/3p/50Hz				400V/3p/50Hz		
Water outlet temperature		°C	22 - 75°C				22 - 75°C		
Max. water outlet temperature		°C	75°C				75°C		
Operation range	Cooling	°C	15 - 46°C				15 - 46°C		
	Heating	°C	-25 - 43°C				-25 - 43°C		
	DHW	°C	-20 - 43°C				-20 - 43°C		
Water temperature setting	Cooling	°C	5 - 25°C				5 - 25°C		
	Heating	°C	22 - 80°C				22 - 80°C		
	DHW	°C	22 - 75°C				22 - 75°C		
Dimension	LxWxH	mm	1100x455x945 mm				1100x455x1550 mm		

HOT WATER SYSTEM

We offer fully engineered pre-assembled hot water systems to minimize on-site installation work. A typical commercial hot water system is illustrated in the piping and instrument diagram below.

Contact our Aura sales department to discuss the system configuration to suit your building.