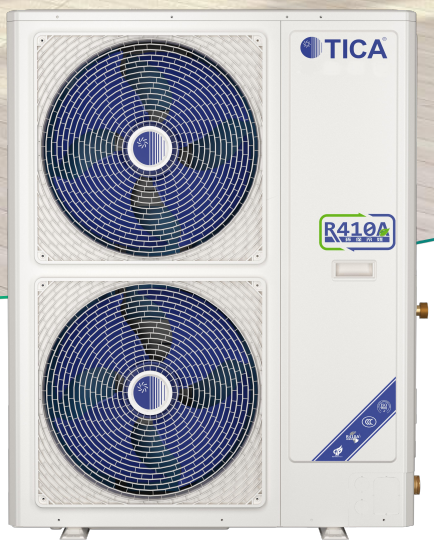
PRO

TICA®

Air To Water Heat Pump

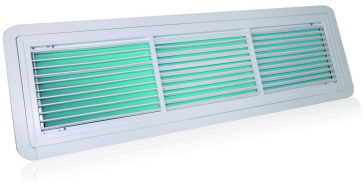
（Mono series)



- Stable heating under -25℃
- Energy efficiency
- 55℃ hot water
- Smart control and diagnosis
- Quiet sleep

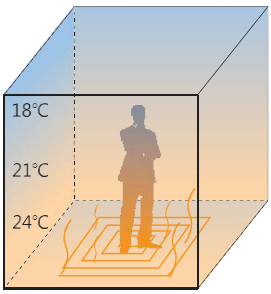
Return air filter

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



Floor heating

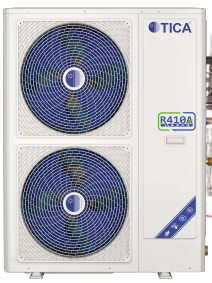
Complying with human thermal engineering rules
Improving blood circulation and metabolism of the body



Quiet sleep

Automatic 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

All DC inverter

All DC inverter configuration, including compressor, motor and water pump.
Automatically regulate the unit frequency to meet the indoor capability requirements to the maximum extent while guaranteeing energy saving.

(Mitsubishi)

(Grundfos of Denmark)

Anti-Freezing

The unit implements anti-freezing detection based on the water flow, water temperature, and refrigerant temperature and provides three-tier anti-freezing procedures to prevent local freezing of water pipelines in winter.

Water pumping

Heating

Electric heating

Fast defrosting

Intelligent Defrosting

The unit intelligently determines whether to defrost based on the outdoor environment temperature and running status, to implement defrosting when frost exists and heating when frost does not exist, prevent mistaken defrosting, and improve heating efficiency to the maximum extent.

Powerful Defrosting

In severe conditions such as high humidity and low environment temperature, the unit automatically regulates to optimize defrosting effect, enhance heat exchange efficiency, andactively improve efficiency through powerful defrosting.

Specifications

Model		TECA120 BEDIC	TECA140 BEDIC	TECA160 BEDIC	TECA180 BERIA	TECA200 BERIA	TECA220 BERIA
Cooling	Capacity	12	14	16	18	20	21
	Rated input	3.77	4.68	5.4	6.04	6.89	7.72
	COPC (kW/kW)	3.18	2.99	2.96	2.98	2.9	2.72
Heating	Capacity	14	16	18	20	22	22.5
	Rated input	4.09	4.73	5.37	6.1	6.77	7.25
	COPh (kW/kW)	3.42	3.38	3.35	3.3	3.25	3.1
IPLV (C)		4.6	4.5	4.3	4.5	4.4	4.3
Circulating water flow (m3/h)		2.06	2.41	2.75	3.1	3.44	3.61
Pump type		Variable frequency canned pump					
Power supply		220V~50Hz			380V 3N~50Hz		
Maximum total power (kW)		7.3	7.3	7.3	10	10	10
Maximum operating current (A)		34	34	34	16.5	16.5	16.5
Applicable ambient temperature(℃)	Cooling	5~55					
	Heating	-25~43					
Maximum permissible pressure on high pressure side (MPa)		4.2	4.2	4.2	4.2	4.2	4.2
Maximum permissible pressure on low pressure side(MPa)		3	3	3	3	3	3
Maximum operating pressure of water system(MPa)		0.5	0.5	0.5	0.5	0.5	0.5
Refrigerant/Charge quantity		R410A/ 2.80kg	R410A/ 2.80kg	R410A/ 2.80kg	R410A/ 3.85kg	R410A/ 3.85kg	R410A/ 3.85kg
Sound power level(dB (A))		55	55	56.5	57	57	57.5
Unit external lift (mH2O)		10	8.5	7	7	6	5
IP rating		IPX4，and applies to outdoor applications					
Type of protection against electric shock		I Class					
Circulating water pipe connection	Water inlet/outlet pipe diameter	DN32					
	Connection mode	External thread(R 1- 1/4’)					
Weight(kg)		119			140		

Notes:

1.Nominal test conditions:

Cooling capacity: At rated water flow rate,outdoor air temperature 35°C DB; LWT 7°C.

Heating capacity : At rated water flow rate,outdoor air temperature 7C DB, 6C WB; LWT 45C

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 unit has been charged with refrigerant.

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