

Air To Water Heat Pump (Mono series)



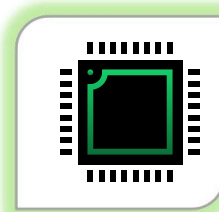
Stable heating
under -25°C



Energy
efficiency



55°C hot
water



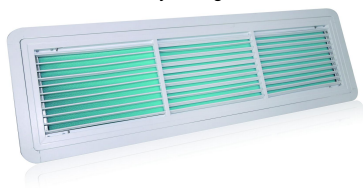
Smart control
and diagnosis



Quiet sleep

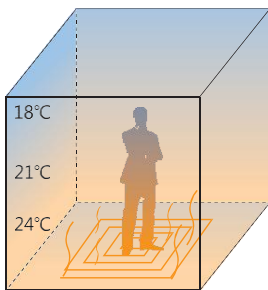
Return air filter

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

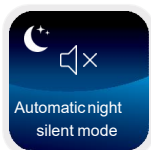


Floor heating

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



Quiet sleep



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





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, and actively improve efficiency through powerful defrosting.



Specifications

Model		TECA120 BEDI/NC	TECA140 BEDI/NC	TECA160 BEDI/NC	TECA180 BER/NA	TECA200 BER/NA	TECA220 BER/NA	TECA255 BETP/IA	TECA285 BETP/IA	TECA335 BETP/IA	TECA255 BETNA	TECA285 BETNA	TECA335 BETNA
Cooling	Capacity	12	14	16	18	20	21	25.5	28.2	32	25.5	28.2	32
	Rated input	3.77	4.68	5.4	6.04	6.89	7.72	7.5	8.41	10.6	7.5	8.41	10.6
	COPC (kW/kW)	3.18	2.99	2.96	2.98	2.9	2.72	3.4	3.35	3.02	3.4	3.35	3.02
Heating	Capacity	14	16	18	20	22	22.5	27	30	34	27	30	34
	Rated input	4.09	4.73	5.37	6.1	6.77	7.25	7.4	8.33	9.99	7.4	8.33	9.99
	COPh (kW/kW)	3.42	3.38	3.35	3.3	3.25	3.1	3.65	3.6	3.4	3.65	3.6	3.4
IPLV (C)		4.6	4.5	4.3	4.5	4.4	4.3	4.95	4.94	4.6	4.95	4.94	4.6
Circulating water flow (m³/h)		2.06	2.41	2.75	3.1	3.44	3.61	4.39	4.9	5.5	4.39	4.9	5.5
Pump type		Variable frequency canned pump						Centrifugal pump			/		
Power supply		220V ~ 50Hz					380V 3N ~ 50Hz						
Maximum total power (kW)		7.3	7.3	7.3	10	10	10	14.5	17	17.5	14.5	17	17.5
Maximum operating current (A)		34	34	34	16.5	16.5	16.5	24	26	27	24	26	27
Applicable ambient temperature(°C)	Cooling	5~55						-5~55					
	Heating	-25~43						-25~55					
Maximum permissible pressure on high pressure side (MPa)		4.2	4.2	4.2	4.2	4.2	4.2	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	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	0.5	0.5	0.5	0.5	0.5	0.5
Refrigerant/Charge quantity		R410A/2.80kg			R410A/3.85kg			R410A/6.30kg					
Sound power level(dB (A))		55	55	56.5	57	57	57.5	56	58	59	56	58	59
Unit external lift (mH2O)		10	8.5	7	7	6	5	21	19	16	/	/	/
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			226			213		

- Notes:1、 Heating capacity : At rated water flow rate,outdoor air temperature 7°C DB, 6°C WB; LWT 45°C.
Cooling capacity: At rated water flow rate,outdoor air temperature 35°C DB; LWT 7°C.
- For products with built-in water pump series, please refer to the external head, and for products without water pump series, please refer to the water resistance to select the water pump.
 - 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.
 - Please refer to the maximum total power and maximum operating current during power distribution.
 - The unit has been charged with refrigerant.

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