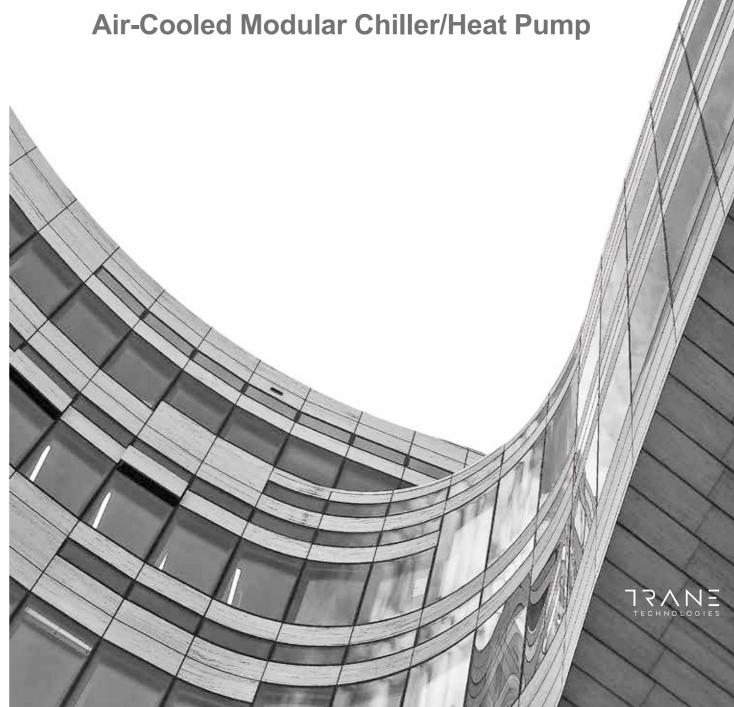


CXAU VFD UNIT





Trane - by Trane Technologies (NYSE: TT), a global climate innovator creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

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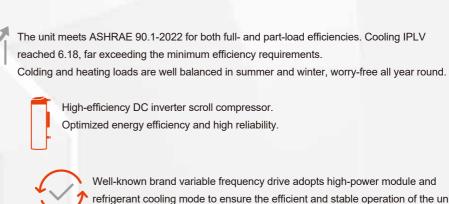
CXAU VFD Unit

 CXAU0655BVSAEN/CXAU1305BVSAEN CXAU0656BVSAEN/CXAU1306BVSAEN CXAU0657BVSAEN/CXAU1307BVSAEN

According to AHRI Standard 551/591, entering water temperature is 12.00°C and leaving water temperatuer is 7.00°C, outdoor temperature is 35.0°C.

TRANT

Three power supply : 380V/3Ph/50Hz, 380V/3Ph/60Hz and 460V/3Ph/60Hz



IPLV 6.18

the states

AquaCube

tion and anti-corrosion.

AquaCube

The unit can operate stably in heating mode at ambient temperature -30 to 48 °C and in cooling mode at -20 to 48°C. Easily cope with severe cold and heat, and meet the vast majority of comfort/process air conditioning applications.



Well-known brand variable frequency drive adopts high-power module and refrigerant cooling mode to ensure the efficient and stable operation of the unit.

> Well-known brand high-efficiency stainless steel plate heat exchanger has low water-side pressure drop and high heat exchange performance.

> > Trane red iconic column stands out and looks bright and eye-catching. Embedded red handle, beautiful and elegant, easy maintenance.

Equipped with sheet metal panel to protect critical parts from exposure, extended dustproof and waterproof resistance and longer lasting reliability.

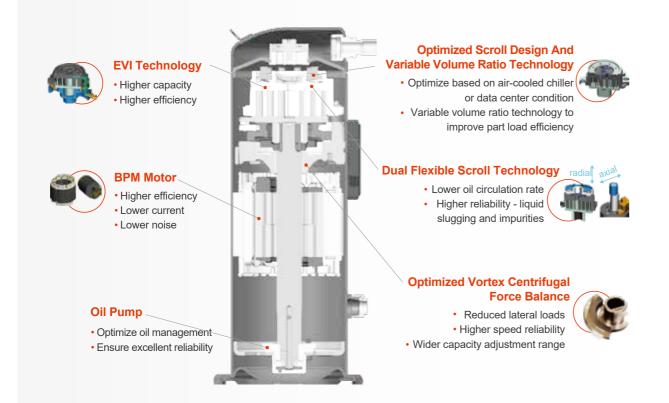
Precise leaving water temperature control, smaller water temperature fluctuation, more constant water temperature, yielding improved comfort for customers.

U-shaped fin coil, eight-sided heat exchange with air, outstanding performance; Louvered hydrophilic aluminum fins, high heat exchange efficiency, anti-oxida-

Stepless part-load adjustment between 15% and 100%, according to actual load on site, effectively reducing operating costs.

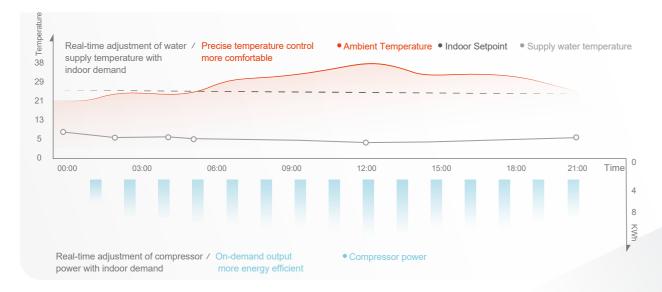
High Efficiency / Energy Saving

High efficiency DC inverter compressor



Energy Saving Mode

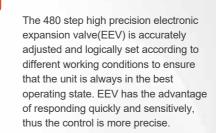
The summer energy-saving mode of the Trane modular unit automatically increases the supply water temperature when the indoor temperature setpoint is reached, thus the operating frequency is reduced, the load is reduced, and the noise is reduced. Customers feel more comfortable, and the units are more energy-efficient.



Dual Circuit Design

The 130 module adopts dual-circuit design. The refrigerant system and the air-side heat exchanger of each circuit operate independently. One circuit can be closed while the other continues to operate under part-load, thereby reducing energy consumption.

EEV Precise Control





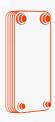
High Efficiency Fan Design

Large air volume and low noise axial flow fan with aerodynamic optimization, along with variable frequency drive, effectively reduce part-load energy consumption. Lower fan speed also means lower noise and more comfortable.



High Precision Stepless Energy Modulation

Trane variable frequency unit can implement 15-100% stepless load modulation according to the actual load requirements on site, while traditional constant-speed units can only achieve limited load modulating (2-4 levels). Low capacity output effectively reduce the operating cost under low load condition. 0---



High Efficiency Plate Heat Exchanger

The stainless steel plate heat exchanger with optimized design of cooling and heating performance has high heat exchanging efficiency. Meanwhile,very low water pressure drop can effectively reduce the power consumption of the pump.



High Efficiency Fin Heat Exchanger

The U-shaped fin coil structure, with multi-angle air intake, can maximize air-side area and significantly improve the heat exchanging efficiency.

Separate left and right side air duct design ensure each circuit can run independently. This ensures stable water temperature even though one side is in defrosted mode.

Coil bottom is specially designed for superheat circuit protection to ensure completely defrosting in order to avoid ice climbing, which enable the unit to always run efficiently with sufficient heat exchanging.

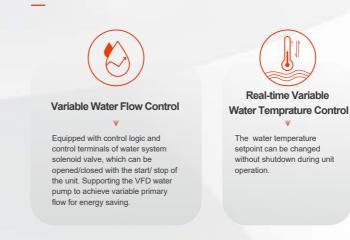
AsuCuri

Full Function · Convenient Operation

	7700.00	202	3/02	2/13	05	9:06:0	93				Stop	Cooling	Home
chedule Management	General Setting	Advance			Par Tene	onota			uge Sel		Other Sett	ing	Group
Schedule Management	Mon	day i		H	00	Ma	00	H		Min	no		User
	Tues	Say 1	00	н	00	Me	00	H	00	Min	50		
	Wedry	nday i	00		00	Mie	00	н	00	Met	10		Alarms
	Thur	iday (00	H	00	Min	00	н	00	Mit	100/		Service
+=	Prid	wy e	00	8	00	Мо	00	н:	00	Me	140		-
	Setur	day i	00	H 3	00	Mit	00	#	00	Min	110		
	Surv	fay i	00	н	00	Ma	00	н	00	Min	50		(ZON TE)
			1	<				>					
Self-diagnosis								F					

- · CXAU uses a new 7-inch color touch screen, the interface is clear and easy to operate.
- The schedule management mode can set the unit to automatically turn on/off by week or day.
- · Self-restart function after power recovery. Customers can choose to activate this function by their needs. In case of accidental power off failure, the system will automatically record the operating mode before power off and restore the original mode after power restoration.
- · Remote control mode can remotely switch on/off the unit and switch cooling and heating mode through the host contact.
- · Perfect self-diagnosis function, clear view of fault query to help maintenance quickly solve problems.
- · All-day noise reduction mode or night noise reduction mode can be selected. The fan speed can be intelligently adjusted to create a comfortable and quiet environment.

Combined Control · System Optimization

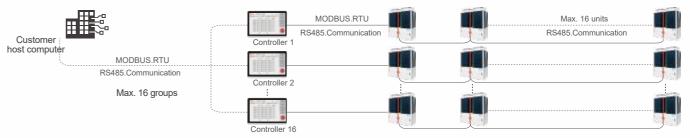


Intelligent Communication · System Centralized Control

• ZhenYue 7-inch color touch screen centralized controller supports up to 16 module units to meet the needs of centralized management of most projects;



- With RS485 interface, standard open MODBUS protocol, easy access to building management system (BMS);
- When the host computer system is centrally controlled, it supports control of up to 16 groups with up to 256 units;





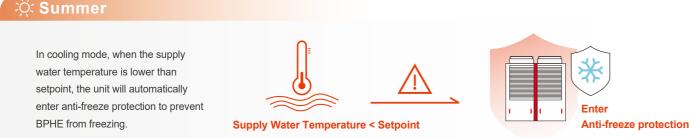
Stable / Reliable

Emergency Backup Operation

- For the model CXAU130-VS with dual-circuit design, when one circuit fails, the other circuit can continue to operate.
- · When any of the modular units in centralized control fails or is repaired, the rest units can still operate, ensuring the continuous operation to the greatest extent.

All-around Anti-freeze Protection





🔆 Winter

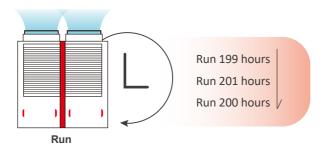
Triple automatic low temperature anti-freeze protection in winter

- When the water temperature is lower than setpoint, start the circulating pump, controlled by the host, to avoid the pipeline freezing.
- If the water temperature drops further, the unit will enter heating mode as the second protection, until the water temperature rises above the setpoint and then exit;
- Control signal for auxiliary heater is provided, configued by customers according to their needs. When the unit fails to turn on accidentally, the heater will be turned on to raise water temperature to the setpoint.

Balanced Compressor operation

Real-time monitor, adjust and balance the running time of each module and compressor in the system intelligently, which effectively extend the service life of the unit and reduce the frequency of maintenance.





Reliable Components

Four-sided Sheet Metal Protection >

Equipped with 4-side sheet metal panel as standard, the unit is not only beautiful and elegant, but also can protect important parts from direct exposure, greatly reducing the invasion of wind and rain, dust and even small animals.

Water Filter 🕨

CXAU065 uses Trane's patented drum-type water filter, more convenient to remove and wash, stronger dirt capacity than ordinary Y-type filters. The CXAU130 uses stainless steel water filter, more corrosion-resistant, more dirt capacity.

Refrigerant Cooling Driver >

Compared with the air-cooled driver, the refrigerant cooling can better reduce the driver temperature with higher reliability. Meanwhile, the compressor can be ensured with high-frequency operation in a larger range for higher cooling/heating capacity. The driver has a wider voltage range to ensure proper operation.

Smart Defrosting Without Downtime

Smart Defrost >>

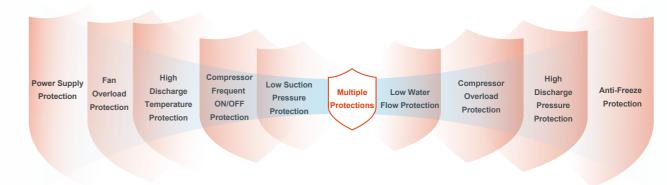
Trane's unique logic, intelligently judging defrosting entry and exit time according to the system operation, defrost uniform and clean and avoiding frequent defrosting.

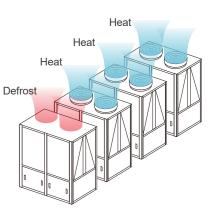
Manual Defrost >>

Manual defrosting function is also designed to perform the defrosting function in bad weather manually by customers to completely remove the frost layer and freezing.

Defrosting in Heating Mode without Downtime >>

When multiple modules are combined, the defrosting sequence of each module will be automatically calculated and balanced, and some units can operate normally during defrosting of other units. For dual-circuit design models, when one circuit is defrosting, the other circuit can operate normally in heating mode, ensuring supply water temperature fluctuation small, and the heating capacity stable and efficient.





CXAU-VS Variable Frequency Unit

The CXAU-VS variable frequency module unit has excellent performance; the unique energy-saving mode in summer, and the load is adjusted through frequency throughout the year, making the product more energy-efficient. Precise temperature and humidity control, bring a more comfortable environment, also suitable for clean industry and laboratory and other fields. The wide operating range enables worry-free use all year round.

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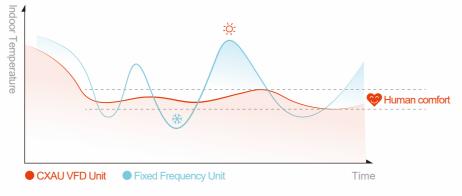
Excellent Energy Efficiency

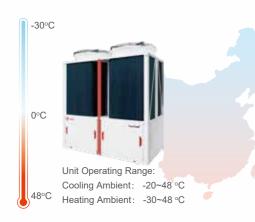
Supper efficiency VS series products pay great attention to the optimization of energy efficiency. Both full- and part-load efficiencies(IPLV) are far exceeding the minimum efficiency requirements in accordance with ASHRAE 90.1-2022, which can meet the needs of high-end customers for excellent energy efficiency.

Comfortable Temperature and Humidity

Compared with the fixed frequency unit, the CXAU VFD unit can automatically adjust the speed according to the load maintaining a more constant indoor temperature, and the customer will not feel the temperature fluctuation. When running at partial load, the unit automatically increases the supply water temperature to reduce the loss of moisture in the air and ensure comfortable body humidity.

The application of VFD technology brings higher indoor temperature control accuracy, small temperature fluctuations, and more comfortable human feelings.





Wide Application

CXAU VFD units can meet not only regular cooling and heating needs, but also heating needs in low ambient temperature and cooling needs all year round. The ambient temperature range for cooling mode is -20~48 °C, which could meet the cooling needs in "furnace" cities and all year-round cooling needs in industrial area. The units adopting EVI (Enhanced Vapor Injection Technology) design improves heating performance by about 20% at low ambient temperature in winter, and extends the minimum operating ambient temperature from -15°C to -30°C, which can cope with extreme cold weather in some areas.

CXAU-VS Specification

	Model		CXAU065	CXAU130	CXAU065	CXAU130					
Power	Power Supply	V/Ph/Hz	380/3/50 ,	380/3/60	460/3	/3/60					
Cooling	Capacity	kW	65.00	130.0	65.00	130.0					
	Input Power	kW	21.45	42.21	21.45	42.21					
	Operating Current	А	40	82	33	68					
Heating	Capacity	kW	70.00	145.0	70.00	145.0					
	Input Power	kW	19.70	38.50	19.70	38.50					
	Operating Current	А	41	79	34	65					
Max. Operating	Maximum Power	kW	31.00	56.00	31.00	56.00					
	Maximum Currrent	А	65	115	55	96					
Refrigerant	Туре	-		R-410A							
	Number of Circuits	-	1	2	1	2					
	Charge Amount	kg	13.5	15.3x2	13.5	15.3x2					
Compressor	Туре	-		EVI Inverter Sci	croll Compressor						
	Quantity	pcs	1	2	1	2					
Water side	Heat Exchanger Type		Brazed Plate								
	Rated Water Flow	L/s	3.000	6.056	3.000	6.056					
	Pressure Drop	kPa	42.0	34.0	42.0	34.0					
	Pressure Drop(With Filter)	kPa	54.0	39.0	54.0	39.0					
	Connection	inch	Rc 2	Rc 2-1/2	Rc 2	Rc 2-1/2					
Air side	Fan Type	-	Variable Speed Aixial Fan								
	Fan Quantity	pcs	2	2	2	2					
	Fan Airflow	m3/h	12500×2	23500×2	12500×2	23500×2					
	Fan Power	kW	0.75×2	1.8×2	0.75×2	1.8×2					
	Heat Exchanger Type	-	High Efficiency Round-tube & Fin								
Unit	Cooling COP	kW/kW	3.030	3.080	3.030	3.080					
	Heating COP	kW/kW	3.553	3.766	3.553	3.766					
	IPLV	-	6.184	6.030	6.184	6.030					
	Sound	dB(A)	71	71	71	71					
	Net Weight	kg	395	890	395	890					
	Shipping Weight	kg	400	900	400	900					
Dimension	Length	mm	1790	2200	1790	2200					
	Width	mm	840	1150	840	1150					
	Height	mm	1690	2450	1690	2450					

Note:

- . Trane has a policy of continuous product data improvement and reserves the right to change specifications without notice.

 Cooling Condition: Entering/leaving water temperature: 12.00/7.00 °C, Ambient Temperature: 35.0 °C in accordance with AHRI standard 551/591. • Heating Condition: Leaving water temperaure: 45.00 °C, rated cooling water flow rate, Ambient dry/wet-bulb temperature : 7.0/6.0 °C.

Centennial Trane Air conditioning expert from the United States

Operations in more than 400 locations and 60 countries; over 25,000 employees worldwide; 24 innovation, engineering and manufacturing centers

technology center was established in Shanghai to better serve the Chinese market.

Trane has entered the Chinese market since the 1980s and has successively established two large-scale production bases in Taicang, Jiangsu and Zhongshan, Guangdong. Today, Trane has spread all over China and has set up more

than 40 sales offices and after-sales service and spare parts centers in major cities in China. In 2003, an engineering

Trane in China





Gold Quality Service

Pre-sales

Professional designers provide detailed air conditioning solution



World-class R&D capabilities · Strong guarantee of high quality



More than 1,600 engineers working on technology improve



Industry-leading engineering laboratory

In-sale

After-sales

Trane professionals provide reliable support during installation.

All-year free national service hotline timely response to customer needs.