

Trane Cube CXB Air-to-Water Heat Pump



Cooling capacity: 15-78 kW

Heating capacity: 17-87 kW

- Tandem scroll compressors
- Electronic expansion valve
- Axial fans with two-step fan speed for condensing control or EC type according to unit size
- Brazed plate heat exchanger with pressure differential switch and antifreeze protection electric heater
- Microprocessor-based controller to manage unit on/off mode, operating mode setting, parameters setting, and error code display



Dynamic Controls

A microprocessor-based controller manages unit on/off mode, operating mode setting, parameters setting, and error code display.

Dynamic Logic Control manages the differential of the outlet water temperature on the basis of the speed variation, ensuring fewer compressor starts and energy savings.

Dynamic Set Point allows operators to change the setpoint simultaneously ensuring best comfort and maximum energy savings.



Extensive operating range

Leaving chilled water temperatures between -7°C and +18°C with outdoor air between 5°C and 45°C or down to -10°C thanks to low ambient air temperature kit.

Leaving hot water temperature from 28°C up to 55°C, with outdoor air temperature between +25 and -5°C or down to -15°C with Low air temperature kit.

Range description

- Trane Cube CXB chillers are available with/without hydraulic module and built in water tank. The units can be customized with many factory-mounted options and accessories.

Technical specifications

Cooling capacity	15-78 kW
Heating capacity	17-87 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R410A
Operating mode	Heat pump
Energy saving	----
Compressor	Scroll

Product data

CXB

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	η_{sc} (2) %	Ph (3) kW	Peh (3) kW	COP (3)	Ph (4)	Peh (4) kW	COP (4)	SCOP (5)	η_{sh} (5) %	LwO (6) dB(A)	Refrigerant (7) mm	W (7) mm	H (7) mm	OW (4) kg	
CXB 017	15,1	5,8	2,60	-	-	17,4	5,4	3,23	17,8	4,4	4,06	3,73	146,0	74	R410A	1807	779	1687	328
CXB 020	17,0	6,9	2,47	-	-	20,1	6,1	3,29	20,5	4,9	4,18	3,73	146,0	74	R410A	1807	779	1687	331
CXB 025	22,0	8,4	2,62	-	-	26,5	8,0	3,32	27,2	6,6	4,15	3,70	145,0	77	R410A	1807	779	1687	365
CXB 028	25,2	9,9	2,55	-	-	31,0	9,1	3,40	31,5	7,3	4,30	3,65	143,0	76	R410A	2061	779	1687	385
CXB 033	28,5	11,9	2,39	-	-	35,7	10,5	3,40	36,6	8,7	4,20	3,78	148,0	77	R410A	2061	779	1687	396
CXB 036	31,1	14,0	2,22	-	-	39,6	12,0	3,30	40,6	9,8	4,13	3,80	149,0	78	R410A	2061	779	1687	396
CXB 039	33,3	15,5	2,15	-	-	42,5	12,9	3,30	43,8	10,8	4,04	3,78	148,0	78	R410A	2061	779	1687	398
CXB 045	40,4	16,6	2,44	-	-	48,6	15,0	3,24	50,1	12,3	4,08	3,93	154,0	79	R410A	2061	779	1687	580
CXB 050	45,0	19,7	2,29	-	-	54,4	17,0	3,20	56,0	13,9	4,02	3,80	149,0	79	R410A	2061	779	1687	590
CXB 055	50,1	17,8	2,82	-	-	57,1	17,5	3,27	59,4	14,4	4,12	3,38	132,0	81	R410A	2524	1038	1995	726
CXB 065	57,8	21,8	2,65	-	-	66,5	21,3	3,13	69,2	17,4	3,97	3,49	137,0	82	R410A	2524	1038	1995	737
CXB 080	71,2	25,1	2,84	-	-	79,0	24,9	3,17	82,3	20,7	3,98	3,24	127,0	84	R410A	2524	1038	1995	809
CXB 090	78,4	28,5	2,75	-	-	87,4	27,9	3,13	91,3	23,2	3,93	3,33	130,0	85	R410A	2524	1038	1995	815

Pc: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio

Peh: Total power input in heating

η_{sh} : Seasonal space heating energy efficiency

L: Length

OW : Operating Weight

Pec: Total power input in cooling

η_{sc} : Seasonal space cooling energy efficiency

COP: Coefficient Of Performance (heating)

LwO: A-weighted sound power level outside

W: Width

EER: Energy Efficiency Ratio (cooling)

Ph: Heating capacity

SCOP: Seasonal Coefficient Of Performance

Refrigerant: Refrigerant type

H: Height

(1): Cooling: outdoor air temperature 35°C and chilled water temperature 12°C/7°C. (EN 14511:2022)

(2): Ecodesign rating for comfort chiller - Fan coil application. Outdoor air temperature 35°C and chilled water temperature in/ out: 12°C/7°C. η_{sc} ,c/SEER as defined in Ecodesign requirements for Comfort Chillers with 2000 kW maximum capacity - REGULATION (EU) N° 2016/2281 of 20 December 2016.

(3): Outdoor air temperature 7°C - hot water temperature in/out 40/45°C. (EN 14511:2022)

(4): Outdoor air temperature 7°C - hot water temperature in/out 30/35°C. (EN 14511:2022)

(5): Ecodesign rating at low temperature conditions. Outdoor temperature: 7°C dry bulb/6°C wet bulb and hot water temperature in/out: 30°C/35°C. η_{sh} ,h / SCOP as defined in Directive 2009/125/EC of the European Parliament and of the Council with regard to Ecodesign requirements for Space heaters and combination heaters with Prated < 400kW - COMMISSION REGULATION (EU) N° 813/2013 of 2 August 2013

(6): According ISO 9614:2009. Eurovent conditions, with 1pW reference sound power (without accessories)

(7): Basic unit without accessories

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.



Read more <https://trane.eu/rental>

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



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