# Trane Cube CXB Air-to-Water Heat Pump


TRANE
TECHNOLOGIES

# 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) | ηsc (2) % | Ph (3) kW | Peh (3) kW | COP (3) | Ph (4) | Peh (4) kW | COP (4) kW | SCOP (5) | ηsh (5) % | LwO (6) dB(A) | Refrigerant | L (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
Pec: Total power input in cooling
EER: Energy Efficiency Ratio (cooling)
SEER: Seasonal Energy Efficiency Ratio
ηsc: Seasonal space cooling energy efficiency
Ph: Heating capacity
Peh: Total power input in heating
COP: Coefficient Of Performance (heating)
SCOP: Seasonal Coefficient Of Performance
ηsh: Seasonal space heating energy efficiency
LwO: A-weighted sound power level outside
Refrigerant: Refrigerant type
L: Length
W: Width
H: Height
OW : Operating Weight

(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. ηs,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. ηs,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