



# Conquest CGAX Air-Cooled Chiller

Cooling capacity: 40-165 kW



# Conquest CGAX Air-Cooled Chiller



## At a Glance:

- Compact: reduced footprint and low-profile design
- High seasonal efficiency with standard EC fans, and full optimization for low GWP R454B refrigerant
- Proven reliability with microchannel condenser coils
- Low sound levels with no compromise on efficiency
- Wide operating map for comfort and process applications
- Single and/or dual circuit



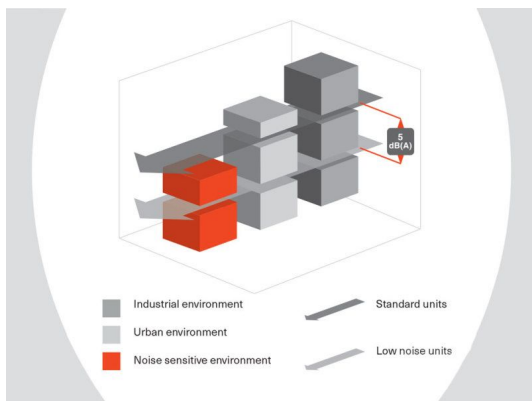
## The best value chiller

Comfort, efficiency and economy are primary concerns when selecting HVAC equipment for your building. Trane Conquest chillers combine high performance and proven reliability in a compact and affordable design, delivering maximum value. CGAX can cool your building all year round, whether the outdoor air temperature is -18°C or +46°C. Operation is easy thanks to the integrated Trane Symbio™ 800 controller.



## Optimized for high seasonal efficiency

Trane's Conquest HE range is designed to help you save on your Total Cost of Ownership. Since comfort applications often don't run at full capacity, we've optimized these units for part-load operation. Every CGAX HE unit comes standard with EC fans, which dynamically adjust airflow to maximize efficiency.



## Low noise – with no compromise on efficiency

Operating noise can be a significant disturbance in sensitive building environments. Most manufacturers oversize their chillers in order to reduce sound power levels. Trane's Conquest HE range has been designed to deliver lower noise, without reducing efficiency or affecting the footprint. Low Noise (LN) models achieve an impressive 45 dB(A) sound pressure level at 10m in free field.

## Range description

- The Trane Conquest range is available in 14 sizes. Units are available with single and/or dual circuit (on 90-165 kW range), and a choice of two acoustic packages being Standard Noise or Low Noise (with no loss of energy efficiency).

## Technical specifications

|                        |                           |
|------------------------|---------------------------|
| Unit type              | Air-to-water              |
| Operating mode         | Cooling only              |
| Cooling capacity       | 40-165 kW                 |
| Heating capacity       | -----                     |
| Eurovent certification | ●                         |
| ErP Certification      | ●                         |
| Refrigerants           | R454B                     |
| Energy saving          | Heat recovery             |
| Compressor             | Scroll                    |
| Data protocols         | Lonmark   Bacnet   Modbus |

## CGAX HE

|                      | P <sub>c</sub><br>(1)<br>kW | EER<br>(1) | SEER<br>(2) | η <sub>sc</sub><br>(2)<br>% | LwO<br>(3)<br>dB(A) | L<br>(4)<br>mm | W<br>(4)<br>mm | H<br>(4)<br>mm | OW<br>(4)<br>kg |
|----------------------|-----------------------------|------------|-------------|-----------------------------|---------------------|----------------|----------------|----------------|-----------------|
| CGAX 015 HE SN R454B | 40,7                        | 2,80       | 4,13        | 162,2                       | 80                  | 2346           | 1285           | 1747           | 519             |
| CGAX 017 HE SN R454B | 48,1                        | 2,79       | 4,35        | 171,0                       | 81                  | 2346           | 1285           | 1747           | 531             |
| CGAX 020 HE SN R454B | 56,1                        | 3,12       | 4,31        | 169,4                       | 84                  | 2346           | 1285           | 1747           | 574             |
| CGAX 023 HE SN R454B | 63,3                        | 3,02       | 4,35        | 171,0                       | 84                  | 2346           | 1285           | 1747           | 579             |
| CGAX 026 HE SN R454B | 74,2                        | 3,05       | 4,35        | 171,0                       | 85                  | 2346           | 1285           | 1747           | 608             |
| CGAX 030 HE SN R454B | 81,3                        | 2,92       | 4,18        | 164,3                       | 85                  | 2346           | 1285           | 1747           | 621             |
| CGAX 036 HE SN R454B | 96,2                        | 2,91       | 4,70        | 184,9                       | 84                  | 2326           | 2250           | 1747           | 853             |
| CGAX 039 HE SN R454B | 111,2                       | 3,17       | 4,74        | 186,5                       | 84                  | 2326           | 2250           | 1747           | 858             |
| CGAX 045 HE SN R454B | 122,1                       | 3,05       | 4,57        | 180,0                       | 87                  | 2326           | 2250           | 1747           | 912             |
| CGAX 035 HE SN R454B | 100,0                       | 3,00       | 4,77        | 187,8                       | 84                  | 2326           | 2250           | 1747           | 917             |
| CGAX 040 HE SN R454B | 115,8                       | 3,22       | 4,73        | 186,2                       | 87                  | 2326           | 2250           | 1747           | 1004            |
| CGAX 046 HE SN R454B | 130,9                       | 3,10       | 4,68        | 184,1                       | 87                  | 2326           | 2250           | 1747           | 1014            |
| CGAX 052 HE SN R454B | 149,8                       | 3,11       | 4,74        | 186,7                       | 88                  | 2326           | 2250           | 1747           | 1034            |
| CGAX 060 HE SN R454B | 164,2                       | 2,97       | 4,56        | 179,5                       | 88                  | 2326           | 2250           | 1747           | 1060            |

P<sub>c</sub>: Cooling capacity

η<sub>sc</sub>: Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

LwO: A-weighted sound power level outside

H: Height

SEER: Seasonal Energy Efficiency Ratio

L: Length

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. η<sub>s,c</sub>/SEER as defined in Ecodesign requirements for Comfort Chillers with 2000 kW maximum capacity - REGULATION (EU) N° 2016/2281 of 20 December 2016.

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

(4): Basic unit without accessories

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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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