

Trane® Air-Cooled Scroll Chillers

Efficient, flexible and quiet—the perfect balance of sound and efficiency for your small jobs



Model CGAM – 20-130 tons

The CGAM air-cooled scroll chiller offers the perfect combination of flexibility, efficiency and low noise. Available in sizes ranging from 20 to 130 tons with a compact footprint, the CGAM is one of the quieter air-cooled chillers available today. There are multiple levels of efficiency to choose from to comply with your local code requirements. The CGAM consistently delivers sound levels five to eight decibels lower than typical fixed-speed helical rotary chillers. With factory-installed attenuation, an additional three-decibel-reduction can be achieved for applications requiring ultra-quiet operation.

Lowering your energy usage at every point

Using some of the best analytic approaches and tools in the industry, Trane engineers look for ways to reduce energy usage at every point within your system.

Using partial heat recovery, the heat rejected from the condenser while cooling the building can be redirected through a factory-installed heat exchanger on the chiller to provide heat for VAV reheat coils. This can dehumidify a commercial building more efficiently, or pre-heat laundry or pool water in a hotel.

Another energy-saving strategy is a thermal storage system that uses ice made at night, when energy costs are lowest, to cool the building during the day. Thermal storage can be used in many settings, including schools, government buildings and industrial processes.

Factory-installed reliability

Several factory-installed features further reduce your energy consumption, add redundancy for mission-critical operations and reduce jobsite installation time—when every day counts.

A factory-installed pump package option, designed specifically for this unit, comes pre-wired and factory-tested. The dual pump set-up provides built-in redundancy and the standard inverter delivers added energy savings.

With the factory-installed optional buffer tank, you can use the chiller in applications with less than a three-minute water loop and still maintain precise temperature control.

The flow switch and water strainer are also factory-installed as standard, reducing job site installation requirements and ensuring reliable operation.



Lower carbon footprint

CGAM chillers help customers meet sustainability goals by reducing the direct emissions of greenhouse gases while increasing efficiency.

- The CGAM chiller's design is optimized with the next-generation, low-global warming refrigerant R-454B in mind. This refrigerant provides a 75% percent drop in GWP over R-410a.
- Light weight, anti-corrosive long life alloy aluminum coils lower refrigerant charge.

Remote Connectivity for optimal performance and uptime

Building data is collected by the Symbio® 800 unit controller to remotely monitor, troubleshoot, schedule and control the ACS chiller 24 hours a day. The Symbio® 800 unit controller features factory programmed Adaptive Control™ performance algorithms that respond to a variety of conditions to maximize efficient chiller plant operation.

Symbio 800 integrates seamlessly and securely with your building automation system, leveraging secure remote IP connectivity (BACnet, Modbus®) and optional Air-Fi® wireless technology and LonTalk® communication protocols for simplified equipment monitoring and management.

Easier to service if needed

We take advantage of the vast knowledge of service professionals by including them in our early design efforts. As a result, the Trane CGAM chiller has many valuable service improvements:

- All major serviceable components are very close to the edge of the unit, making it safer and easier to service.
- Hinged condenser fans with a prop rod makes coil cleaning safer and fan servicing easier.
- The factory-installed pump package is designed to service in place, including pump seal changes.
- The high-pressure transducer and temperature sensor mountings enable troubleshooting and replacement without refrigerant handling.
- Separate access to the low-voltage control panel makes the chiller easier to service.

Size	Operating Weight (lb)	Length (in)	Width (in)	Height (in)	Flow (gmp)		Water Connection (in)
					Min	Max	
20	2208	114	50	85	23	69	2
26	2278	114	50	85	30	89	2.5
30	2880	150	50	85	33	100	2.5
35	2920	150	50	85	39	117	2.5
40	3697	114	88	85	45	136	3
52	3806	114	88	85	59	176	3
60	5033	150	88	85	67	201	3
70	5121	150	88	85	80	238	3
80	5692	143	88	93	92	275	4
90	5961	143	88	93	103	307	4
100	6759	166	88	93	116	346	4
110	6846	166	88	93	125	375	4
120	6884	166	88	93	136	407	4
130	7900	202	88	93	147	440	4

High efficiency units with lanced aluminum fins.
Weight and dimension can change depending on options selected.

Unit Size	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
20 to 35 ton	47.2	1200	31.5	800	23.6	600	39.4	1000
40 to 70 ton	47.2	1200	31.5	800	39.4	1000	39.4	1000
80 to 130 ton	47.2	1200	39.4	1000	39.4	1000	39.4	1000

- Notes:
1. Number of fans and panel doors shown does not represent the number of fans installed.
 2. More clearance may be needed for airflow, depending on installation.



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