

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.



Reducing Energy Intensity

Trane engineers are continuously developing new ideas to make a difference through energy efficiency. Incorporating technologies like partial heat recovery and Thermal Battery™ cooling system, customers can save energy while optimizing building operation.

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:

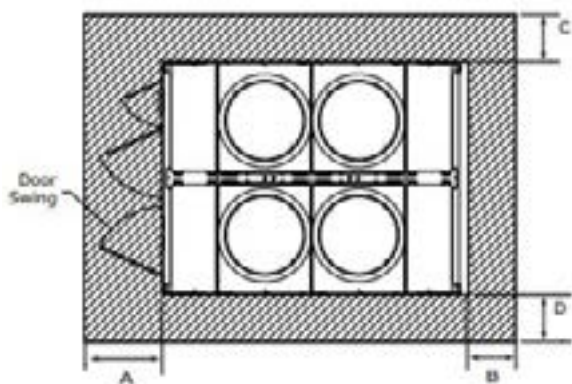
- All major serviceable components are very close to the edge of the unit, making it safer and easier to service.
- Hinged condenser fans with a prop rod makes coil cleaning safer and fan servicing easier.
- The factory-installed pump package is designed to service in place, including pump seal changes.
- 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

General Data

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.

Service Clearances



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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