



Aquastream Air-Cooled Water Chiller With Heat Pump Option

CXAH/CGAH 040-150
105~385kW



Contents

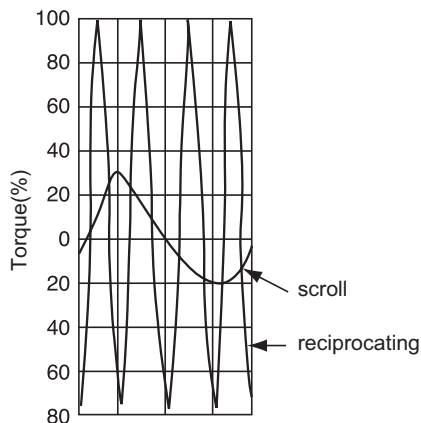
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Features and Benefits

High efficiency Scroll Compressor

The compressor of the chiller is scroll compressor with advantages of:

- Compared with the reciprocating compressor of the same capacity, scroll compressor reduced 64% components, thus decreases frictions and improves reliability and efficiency.
- The compressor torque variation is 30% that of the reciprocating compressor with the same capacity, thus reduces vibrations and noise.
- The motor is cooled by the suction gas, thus prolongs the service life, improves the efficiency.
- Enclosed design, free of maintenance.



▲ Crankshaft angle

(Compared with the reciprocating compressor the torque of the scroll compressor is greatly reduced.

- The rotating part is made by high-strength cast iron. It forms a closed compression chamber, prevents the deformation and the leakage, ensures the high performance and prevents the compressor from the hammering.
- Scroll compressor has been researched and improved for more than 20 years. The measurements and the performance of more than 400,000 hours have proved its high performance and outstanding quality.



Outstanding and Reliable Performance

- High part load efficiency, reduce power consumption and save energy.
- Low sound level, applicable to high standard requirement buildings.
- Chillers are tested before shipment, ensure the safety and the reliability.
- Able to operating within 43°C ambient temperature.
- Specially designed electrical control panel and colored cables for easier connection. Removable panels make it easy to install, adjust and maintain.
- The structure is compact and low in height. It can be installed with clearance of 1 meter to wall and chiller design blends in well with most building environment.
- Water flow protection system is included as a standard component thus eliminating installation of water switches on site (except CG/XAH150).
- The dry contacts are provided by the chiller to control the chilled water pump.

Features and Benefits

Advanced CH530 Controller

• Feedforward Control

Feedforward is predictive control strategy designed to anticipate and compensate for load changes. It uses evaporator entering water temperature as an indication of load change. This allows the controller to respond faster and maintain stable leaving-water temperatures.

• Chilled Water Temperature Reset

The chilled water temperature reset function can increase the chiller's efficiency via the entering water temperature or ambient temperature

• Soft Loading

Large adjustments due to load or setpoint changes are made gradually, preventing the compressor from cycling unnecessarily. It does this by internally filtering the setpoints to avoid reaching the differential-to-stop or the current limit.

• Powerful Communication

Communicate with not only Tracer Summit system but also the 3rd party BAS through Lontalk protocol, thus integrates the chiller control into the building control system.

• Control Software Upgrade

The controller is equipped with RS232 interface to download the latest chiller unit control program, which synchronizes the control technology with the future advanced energy saving technology to greatly save operational cost.

• Auto Restart

When the chiller experiences power cut or other temporary failure the controller allows it to restart without the operator's interference.

• Sensitive Control Response

Calculation speed is fast, the speed of equipment examination to 3 times per second, thus improves the unit's control performance dramatically

Environmentally Responsible

R407C Refrigerant

Both Aquastream cooling-only and reversible chillers have been optimized for exclusive use of chlorine-free R407C refrigerant. Aquastream chillers operate with a refrigerant that has a future and complies with current and upcoming environmental regulations.

Value Added Hydraulic

Module (Optional for models 040 to 120)

Only a main power supply & water connections are necessary, the rest is in the "box" such as pump, expansion tank, valves, relief valve, water make-up system etc which reduces customer's installation time. TRANE offers this hassle-free package that also saves installation, operational and maintenance costs.

Additional Functions

- Delay protection prevents the compressors from frequent start/stop.
- Self-start after power off
- Self-balance the operation time of each compressor
- Control the chilled water pump operation
- Prevent the evaporator from frosting
- Safety and protection operation

Standard Components

- Vibration proof rubber pad
- Differential pressure type water flow switch (except CG/XAH150)
- Remote on / off switch
- Main power disconnect switch

Options

- Condenser protecting grille
- Compressor sound attenuator
- Integrated hydraulic module (Except 150 model)

Factory Testing and Quality

Assurance

- All chillers are subject to the strict performance tests before shipment
- The Quality Management System applied by "TRANE" factories in China has been assessed and approved to ISO 9001 by professional organization.

Product Nomenclature

C **X** **A** **H** **080** **7** **D** **J** **G** **R** **B** **N** **E**
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Digit 1	C=Chiller
Digit 2	X=Heat pump G=Cooling only
Digit 3	A=Air-cooled
Digit 4	H=Major design sequence
Digit 5,6,7	Nominal capacity code 040 050 060 080 100 120 150
Digit 8	Power supply 5=380V/50Hz/3Ph 7=415V/50Hz/3Ph
Digit 9	Development sequence D=Fourth (CH530)
Digit 10	Grille/compressor sound attenuator N=without condenser protecting grille or compressor sound attenuator (standard for CGAH) J=without condenser protecting grille/with compressor sound attenuator (standard for CXAH) L=with condenser protecting grille/without compressor sound attenuator K=with condenser protecting grille and compressor sound attenuator
Digit 11	Control option G=without COMM5 card (standard) M=with COMM5 card (optional)
Digit 12	Available ambient temperature R=3~43°C (standard)
Digit 13	Refrierant system A=R22 (optional) B=R407C (standard)
Digit 14	Hydraulic module N=without hydraulic module (standard) W=with hydraulic module (Except 150 model)
Digit 15	Service sequence E=Export

General Data

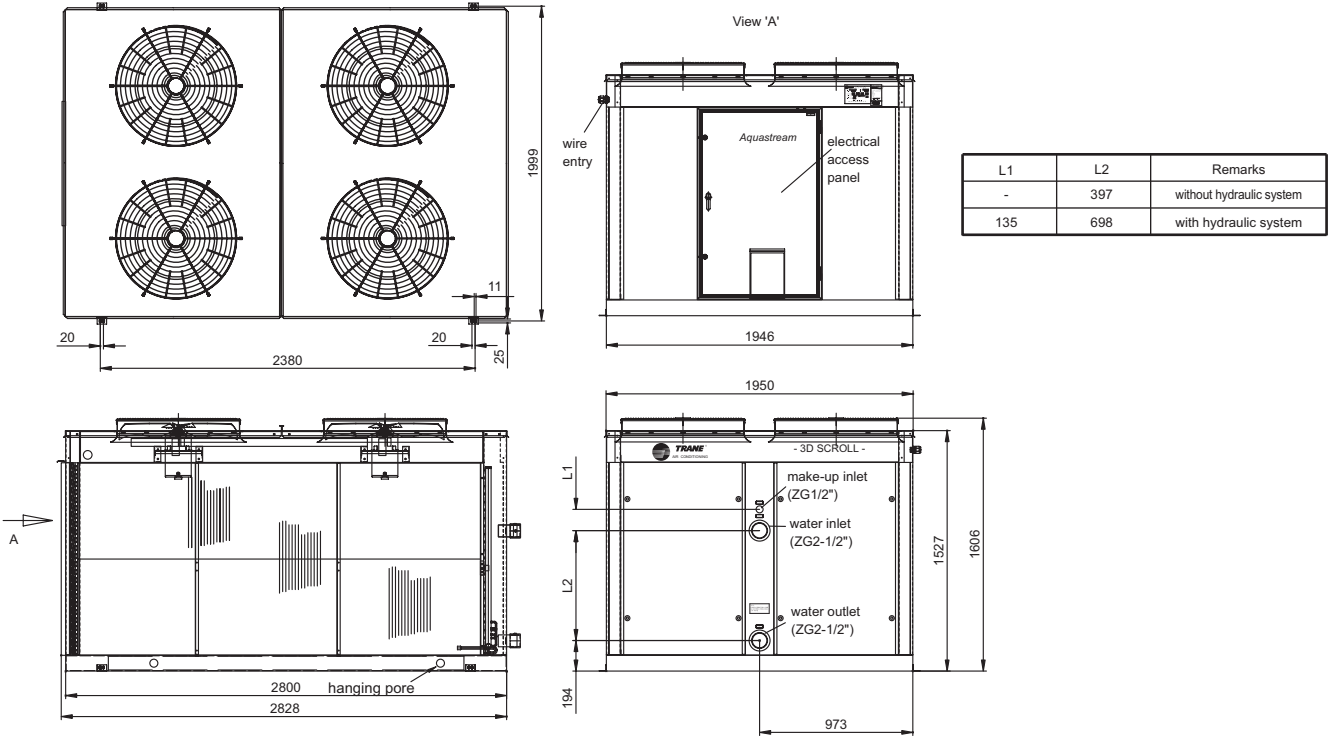
Model		CXAH/CGAH040	CXAH/CGAH050	CXAH/CGAH060	CXAH/CGAH080	CXAH/CGAH100	CXAH/CGAH120	CXAH/CGAH150	
Cooling capacity	kW	105/105	132/132	162/162	212/212	260/268	305/315	373/385	
Power input	kW	35.4/35.4	45.8/45.8	51.4/51.4	72.1/72.1	87.24/89.92	104.16/107.52	126.46/129.64	
Heating capacity	kW	108/-	135/-	165/-	216/-	260/-	305/-	373/-	
Power input	kW	35.4/-	45.8/-	51.4/-	72.1/-	87.24/-	104.16/-	126.46/-	
Main Power supply		380V-3Ph-50Hz/415V-3Ph-50Hz							
Compressor		High efficiency hermetic scroll compressor							
Number of Compressor	unit	2	4	4	4	4	4	6	
Number of Circuit		2	2	2	2	2	2	2	
Refrigerant		R407C/R22							
Charge	kg	19.7x2/16x2	21x2/18x2	26.5x2/21x2	45.5x2/40x2	52x2/47x2	58x2/50x2	60x2/54x2	
Controller		CH530							
Air Side Heat Exchanger		Copper tube/Aluminum fins							
Fan type		Axial							
Fan motor power input	kW	0.9	0.9	0.9	1.3	1.67	1.67	1.67	
Number of fan	unit	4	6	6	6	8	8	8	
Motor RPM	rpm	720	720	720	720	720	720	720	
Water Side Heat Exchanger		Brazen Plate Heat Exchanger							Shell and tube
Water Pressure Drop	kPa	32.4	54.0	54.9	55.7	55.4	55.3	105.6	
Water Pipe Diameter	in	2-1/2	2-1/2	2-1/2	2-1/2	3	3	5	
Water Pipe Connection		Threaded							Flange
Dimensions	Width	mm	1950	1950	1950	1950	2048	2048	2360
	Length	mm	2828	3160	3160	3160	4158	4158	4582
	Height	mm	1608	1850	1850	2003	2064	2420	2593
Operating Weight	kg	1300/1200	1535/1471	1582/1518	1852/1784	2600/2400	2870/2670	3860/3755	
Built In Hydraulic Module (optional)		Pump,filter,relief valve,expansion tank,presure gauge,flow switch,etc.							NA
Pump type		Single stage centrifugal pump 2900rpm							NA
Number of pump	unit	1	1	1	1	1	1	NA	
Discharge head	m	24	26	24	23	30	35	NA	
Capacity of expansion tank	l	24	24	24	24	24	24	NA	
Max operating water pressure	kPa	600	600	600	600	600	600	NA	
Pump motor power input	kW	1.85	4.0	4.0	4.0	5.5	7.5	NA	
Weight of hydraulic module	kg	100	105	114	118	136	136	NA	

1. Cooling capacity is based on 35°C ambient temperature, 7°C outlet water temperature and 12°C inlet water temperature.
2. Heating capacity is based on 7°C DB/6°C WB ambient temperature, 45°C outlet water temperature and 40°C inlet water temperature.
3. R22 refrigerant is also available for above models upon request.

Unit Dimensions

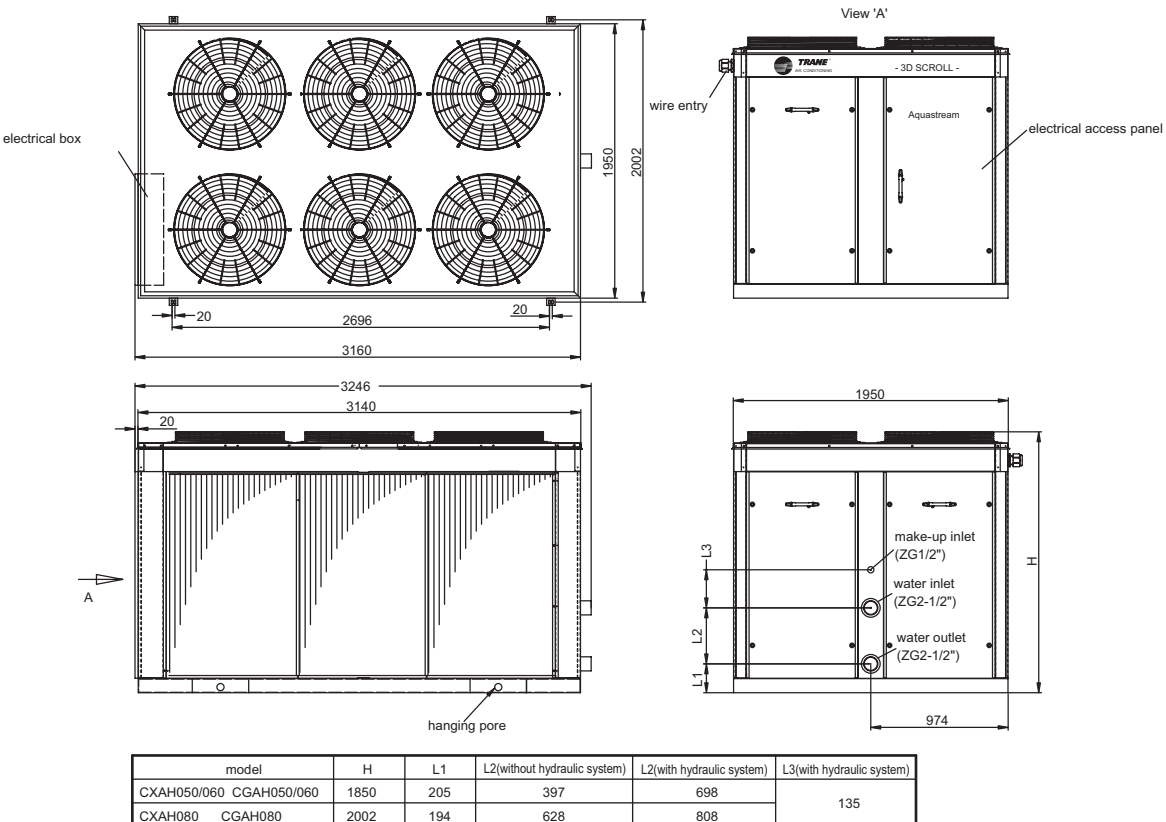
CXAH040/CGAH040

Unit: mm



CXAH050, 060, 080/CGAH050, 060, 080

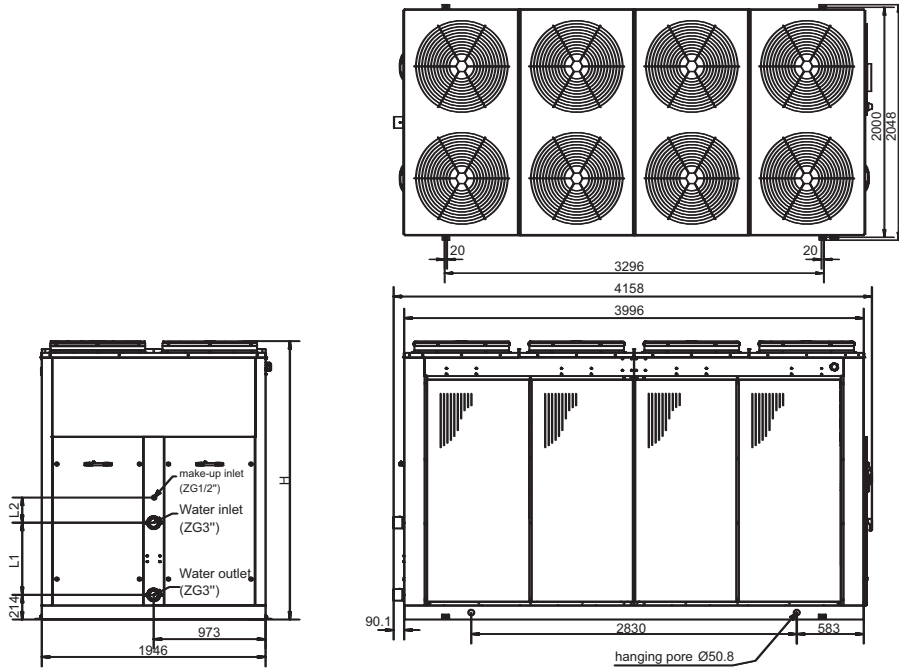
Unit: mm



Unit Dimensions

CXAH100,120/CGAH100,120

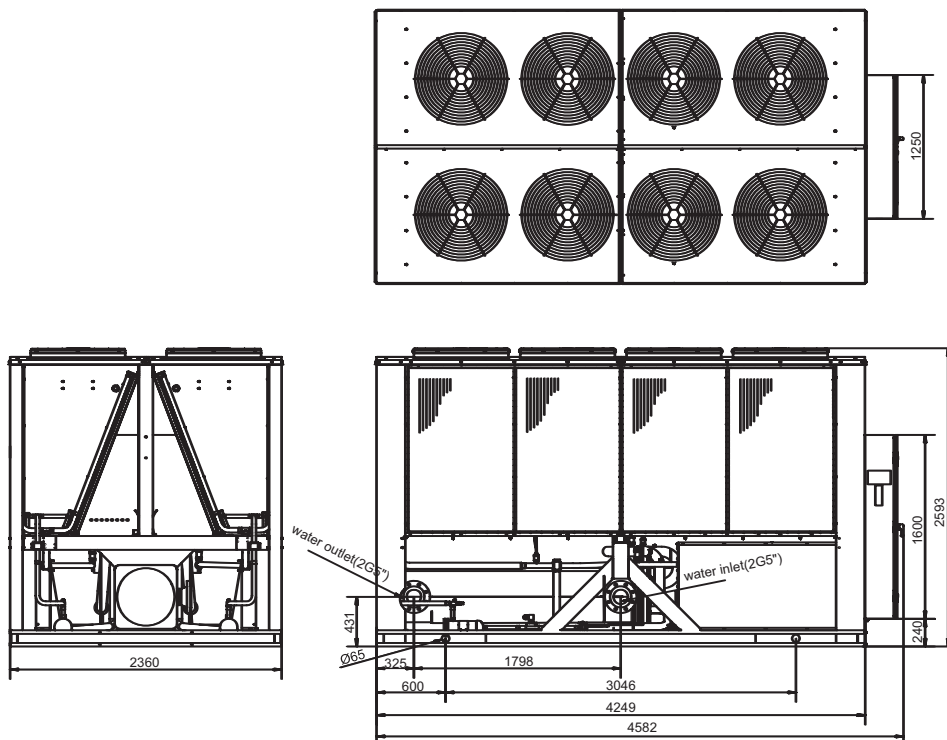
Unit: mm



model	H	L1(without hydraulic system)	L1(with hydraulic system)	L2(with hydraulic system)
CXAH/CGAH100	2064	628	935	158
CXAH/CGAH120	2420			

CXAH/CGAH150

Unit: mm



Selection Procedure

The cooling capacity table in the chapter of "general data" represents of typical leaving water temperature under the following conditions:

- Fouling factor = $0.086\text{m}^2 \cdot ^\circ\text{C}/\text{kW}$
 - Evaporator entering and leaving water temperature difference between $4\sim 8^\circ\text{C}$.
- Take CXAH as an example, the following design conditions should be determined:

Cooling:

- 1) System cooling load(kW)
- 2) Chilled water leaving temperature($^\circ\text{C}$)
- 3) Ambient temperature($^\circ\text{C}$)

Heating

- 1) hot water leaving temperature($^\circ\text{C}$)
- 2) ambient temperature($^\circ\text{C}$), dry bulb(DB) and wet bulb(WB) temperature.

Calculate the water flow rate with the following formula:

Flow rate(L/s) = $0.239 \times \text{load(kW)} / \text{entering and leaving water temperature difference } (^\circ\text{C})$

Case study for selection procedure

Cooling Conditioning:

Condition:

- 1) system load: 120 kW
- 2) chilled water leaving temperature: $+7^\circ\text{C}$
- 3) chilled water entering temperature: $+12^\circ\text{C}$
- 4) ambient temperature: 35°C

1. Select model

According to the cooling capacity chart, model CXAH050 can provide 132 kW cooling capacity, and 45.8 kW input power is required.

2. Water flow rate

Flow rate(L/s) = $132 \times 0.239 / (12-7) = 6.31(\text{L/s})$

3. Water pressure drop across evaporator

According to the water pressure drop

chart, when the flow rate is 6.31 L/s, the pressure drop is 53.8 kPa for CXAH050.

Heating Condition:

Condition:

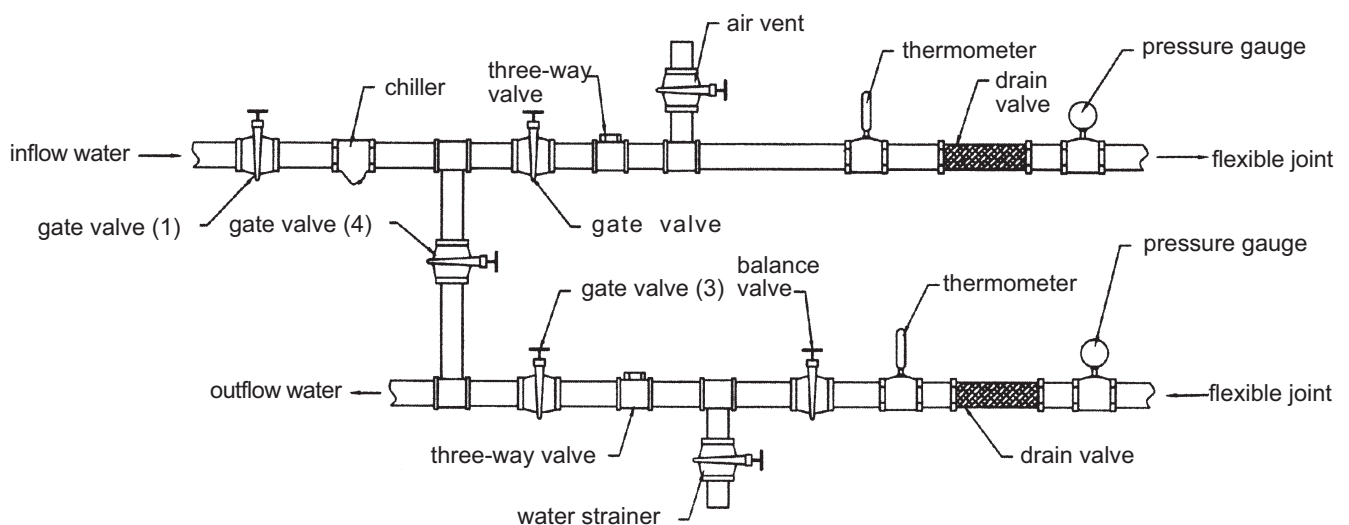
- 1) hot water leaving temperature 45°C
- 2) ambient temperature: $7^\circ\text{C}(\text{DB}), 6^\circ\text{C}(\text{WB})$

1. According to the heating capacity chart, model CXAH050 can provide 135 kW heating capacity, and 45.8 kW input power is required.

2. The entering and leaving water temperature difference can be calculated by the following formula:

hot water entering and leaving temperature difference = heating capacity $(135\text{kW}) \times 0.239 / \text{water flow rate}(6.31 \text{ L/s}) = 5.11^\circ\text{C}$.

External water system connection diagram (recommendation)





Pressure Drop, Electrical Data

Correction for pressure drop (kPa) CXAH/CGAH

Chiller model	Water flow rate (LPM)	Temperature difference between inflow and outflow water(°C)	Water pressure drop (kPa)
040	502	3	78.9
	302	5	32.4
	215	7	15.4
050	631	3	131.7
	380	5	54
	270	7	25.7
060	774	3	136
	465	5	54.9
	332	7	26.2
080	1013	3	140.6
	608	5	55.7
	434	7	26.8
100	1118	3	124.3
	745	5	55.4
	559	7	31.2
120	1311	3	124.2
	874	5	55.3
	656	7	31.2
150	1605	3	254.3
	1070	5	105.6
	803	7	59.5

Electrical Data Without Hydraulic Module

CXAH

Model	Compressor				Fan Motor				Power input		Power supply	Recommended Connection(mm ²)
	Number	Running Amps (A)	LRA (A)	Power Input (kW)	Number	Rated Amps (A)	LRA (A)	Power Input (kW)	Cooling (kW)	Heating (kW)		
040	1+1	29.5+29.5	230+230	15.9+15.9	4	2.7x4	8.5x4	0.9x4	35.4	35.4	380V/50Hz/3Ph	3x25+PE
050	2+2	47.2+27.8	350+250	24.2+16.2	6	2.7x6	8.5x6	0.9x6	45.8	45.8	380V/50Hz/3Ph	3x25+PE
060	2+2	47.2+47.2	350+350	23.0+23.0	6	2.7x6	8.5x6	0.9x6	51.4	51.4	380V/50Hz/3Ph	3x35+PE
080	2+2	61.6+61.6	460+460	32.16+32.16	6	3.2x6	13.5x6	1.3x6	72.1	72.1	380V/50Hz/3Ph	3x50+PE
100	2+2	66.5+66.5	540+540	36.94+36.94	8	3.88x8	13.5x8	1.67x8	87.24	87.24	380V/50Hz/3Ph	3x70+PE
120	2+2	78.96+78.96	640+640	45.4+45.4	8	3.88x8	13.5x8	1.67x8	104.16	104.16	380V/50Hz/3Ph	3x95+PE
150	3+3	98.82+98.82	810+810	56.55+56.55	8	3.88x8	13.5x8	1.67x8	126.46	126.46	380V/50Hz/3Ph	3x95+PE

CGAH

Model	Compressor				Fan Motor				Power input		Power supply	Recommended Connection(mm ²)
	Number	Running Amps (A)	LRA (A)	Power Input (kW)	Number	Rated Amps (A)	LRA (A)	Power Input (kW)	Cooling (kW)	Heating (kW)		
040	1+1	30.8+30.8	230+230	15.9+15.9	4	2.7x4	8.5x4	0.9x4	35.4		380V/50Hz/3Ph	3x25+PE
050	2+2	47.2+27.8	350+250	24.2+16.2	6	2.7x6	8.5x6	0.9x6	45.8		380V/50Hz/3Ph	3x25+PE
060	2+2	47.2+47.2	350+350	23.0+23.0	6	2.7x6	8.5x6	0.9x6	51.4		380V/50Hz/3Ph	3x35+PE
080	2+2	61.6+61.6	460+460	32.16+32.16	6	3.2x6	13.5x6	1.3x6	72.1		380V/50Hz/3Ph	3x50+PE
100	2+2	68.5+68.5	540+540	38.28+38.28	8	3.88x8	13.5x8	1.67x8	89.92		380V/50Hz/3Ph	3x70+PE
120	2+2	81.32+81.32	640+640	47.08+47.08	8	3.88x8	13.5x8	1.67x8	107.52		380V/50Hz/3Ph	3x95+PE
150	3+3	101.79+101.79	810+810	58.14+58.14	8	3.88x8	13.5x8	1.67x8	129.64		380V/50Hz/3Ph	3x95+PE

CXAH

Model	Compressor				Fan Motor				Power input		Power supply	Recommended Connection(mm ²)
	Number	Running Amps (A)	LRA (A)	Power Input (kW)	Number	Rated Amps (A)	LRA (A)	Power Input (kW)	Cooling (kW)	Heating (kW)		
040	1+1	26.8+26.8	230+230	15.9+15.9	4	2.5x4	8.5x4	0.9x4	35.4	35.4	415V/50Hz/3Ph	3x25+PE
050	2+2	43.0+27.8	350+250	24.2+16.2	6	2.5x6	8.5x6	0.9x6	45.8	45.8	415V/50Hz/3Ph	3x25+PE
060	2+2	43.0+43.0	350+350	23.0+23.0	6	2.5x6	8.5x6	0.9x6	51.4	51.4	415V/50Hz/3Ph	3x35+PE
080	2+2	56.0+56.0	460+460	32.16+32.16	6	3.2x6	13.5x6	1.3x6	72.1	72.1	415V/50Hz/3Ph	3x50+PE
100	2+2	60.9+60.9	540+540	36.94+36.94	8	3.55x8	13.5x8	1.67x8	87.24	87.24	415V/50Hz/3Ph	3x70+PE
120	2+2	72.3+72.3	640+640	45.4+45.4	8	3.55x8	13.5x8	1.67x8	104.16	104.16	415V/50Hz/3Ph	3x95+PE
150	3+3	90.48+90.48	810+810	56.55+56.55	8	3.55x8	13.5x8	1.67x8	126.46	126.46	415V/50Hz/3Ph	3x95+PE

CGAH

Model	Compressor				Fan Motor				Power input		Power supply	Recommended Connection(mm ²)
	Number	Running Amps (A)	LRA (A)	Power Input (kW)	Number	Rated Amps (A)	LRA (A)	Power Input (kW)	Cooling (kW)	Heating (kW)		
040	1+1	28.0+28.0	230+230	15.9+15.9	4	2.5x4	8.5x4	0.9x4	35.4		415V/50Hz/3Ph	3x25+PE
050	2+2	43.0+27.8	350+250	24.2+16.2	6	2.5x6	8.5x6	0.9x6	45.8		415V/50Hz/3Ph	3x25+PE
060	2+2	43.0+43.0	350+350	23.0+23.0	6	2.5x6	8.5x6	0.9x6	51.4		415V/50Hz/3Ph	3x35+PE
080	2+2	56.0+56.0	460+460	32.16+32.16	6	3.2x6	13.5x6	1.3x6	72.1		415V/50Hz/3Ph	3x50+PE
100	2+2	60.9+60.9	540+540	38.28+38.28	8	3.55x8	13.5x8	1.67x8	89.92		415V/50Hz/3Ph	3x70+PE
120	2+2	72.3+72.3	640+640	47.08+47.08	8	3.55x8	13.5x8	1.67x8	107.52		415V/50Hz/3Ph	3x95+PE
150	3+3	90.48+90.48	810+810	58.14+58.14	8	3.55x8	13.5x8	1.67x8	129.64		415V/50Hz/3Ph	3x95+PE

Performance Data

Cooling capacity CXAH/CGAH040

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.011	0.808	0.964	0.896	0.912	0.997	0.863	1.110
7	1.103	0.808	1.055	0.899	1.000	1.000	0.945	1.113
9	1.158	0.811	1.108	0.899	1.057	1.000	1.000	1.113

Cooling capacity CXAH/CGAH050

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.039	0.800	0.995	0.888	0.948	0.991	0.900	1.105
7	1.094	0.807	1.048	0.898	1.000	1.000	0.948	1.116
9	1.147	0.821	1.100	0.909	1.049	1.021	0.996	1.130

Cooling capacity CXAH/CGAH060

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.044	0.801	0.999	0.887	0.949	0.986	0.898	0.986
7	1.099	0.813	1.051	0.899	1.000	1.000	0.947	1.111
9	1.151	0.823	1.101	0.913	1.049	1.008	0.993	1.125

Cooling capacity CXAH/CGAH080

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.048	0.770	1.002	0.855	0.953	0.989	0.901	1.059
7	1.099	0.779	1.050	0.865	1.000	1.000	0.947	1.072
9	1.148	0.789	1.099	0.875	1.047	1.011	0.991	1.085

Cooling capacity CXAH/CGAH100

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.046	0.780	1.001	0.875	0.953	0.985	0.890	1.061
7	1.095	0.799	1.050	0.885	1.000	1.000	0.947	1.121
9	1.146	0.810	1.101	0.891	1.043	1.012	0.992	1.135

Cooling capacity CXAH/CGAH120

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.043	0.799	0.998	0.887	0.950	0.988	0.899	1.062
7	1.096	0.809	1.049	0.898	1.000	1.000	0.947	1.112
9	1.148	0.820	1.099	0.910	1.048	1.012	0.993	1.126

Cooling capacity CXAH/CGAH150

Ambient Temp (°C)	25		30		35		40	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
5	1.018	0.825	0.959	0.907	0.912	0.997	0.864	1.098
7	1.099	0.828	1.049	0.909	1.000	1.000	0.948	1.101
9	1.200	0.830	1.148	0.912	1.093	1.003	1.038	1.103

Performance Data

Heating capacity CXAH040

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.264	0.905	1.056	0.899	0.793	0.893	0.719	0.890
45	1.200	1.006	1.000	1.000	0.750	0.994	0.680	0.988
50	1.136	1.116	0.946	1.113	0.708	1.104		

Heating capacity CXAH050

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.222	0.916	1.016	0.896	0.841	0.879	0.773	0.870
45	1.204	1.024	1.000	1.000	0.830	0.982	0.752	0.980
50	1.190	1.150	0.990	1.130	0.828	1.104		

Heating capacity CXAH060

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.209	0.916	1.006	0.896	0.835	0.880	0.767	0.872
45	1.200	1.028	1.000	1.000	0.830	0.982		
50	1.187	1.148	0.992	1.126	0.828	1.098		

Heating capacity CXAH080

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.217	0.919	1.002	0.867	0.841	0.830	0.777	0.815
45	1.206	1.007	1.000	1.000	0.810	0.922		
50	1.197	1.103	0.999	1.054				

Heating capacity CXAH100

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.208	0.959	1.004	0.892	0.844	0.852	0.777	0.833
45	1.156	1.058	1.000	1.000	0.840	0.952		
50	1.097	1.174	0.996	1.125				

Heating capacity CXAH120

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.216	0.932	1.008	0.900	0.839	0.876	0.772	0.865
45	1.199	1.035	1.000	1.000	0.837	0.974		
50	1.191	1.152	0.993	1.119				

Heating capacity CXAH150

Ambient Dry/wet Temp (°C)	15/13		7/6		0/-1		-3/-4	
LWT (°C)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)	Capacity(kW)	Power Input(kW)
40	1.258	0.915	1.012	0.908	0.816	0.900	0.695	0.897
45	1.234	1.007	1.000	1.000	0.813	0.993		
50	1.212	1.109	0.999	1.103				

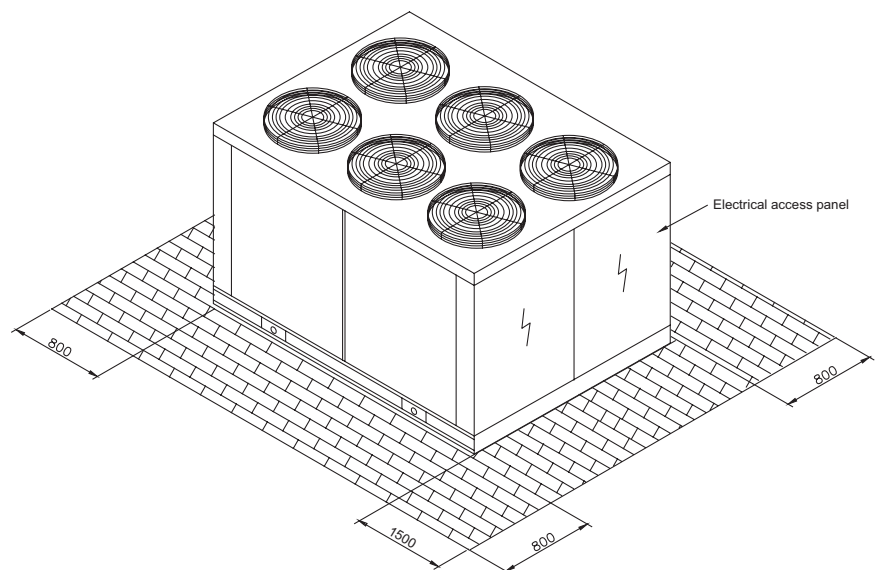
Notes of Application

CXAH/CGAH chiller safety device

1. High pressure
2. Low pressure
3. Anti-freeze low temperature
4. Water flow rate
5. Air vent
6. Phase Reverse
7. Compressor overcurrent, overload
8. Fan motor overcurrent, overload

Illustration of clearance

Note: minimum top air discharge distance 3000mm.





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For more information, contact your local Trane office or e-mail us at comfort@trane.com

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