



Air-Cooled Liquid Chiller

AquaStream²





AquaStream²

An answer to all your needs...

We at TRANE listen to our customers. AquaStream² was developed with customers' demands in mind:

- **Easy installation**
- **Low noise levels**
- **Energy efficiency**
- **Simplified maintenance**
- **Intelligent and communicating controller**

The proven success of AquaStream² chillers over the last two years, along with the close cooperation with customers, have driven Trane to add three sizes to the range.

With AquaStream² chillers, you will find an answer to fit all your applications, whether it is comfort or process cooling/heating.

Everything is in the box...

Only a main power supply and water connections are necessary, the rest is in the "box".

The integrated hydraulic module features all necessary components:

- **pump**
- **expansion tank**
- **valves**
- **flow switch**
- **pressure gauge**
- **relief valve**
- **strainer.**



An optional buffer tank is available for short water loops or process applications. Three versions are available from the factory:

- **with a hydraulic module**
- **with a hydraulic module and a buffer tank**
- **without hydraulic components.**

Thanks to built-in components, installation is easy and you will make considerable savings using any available space on the ground or rooftop, avoiding the use of a dedicated technical room.



Picture taken without thermal insulation (standard feature)

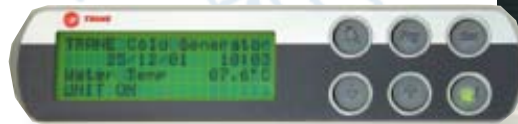
Silence is the key...

In today's market, noise nuisance has become a major issue. During the past years TRANE has had a strong equipment sound reduction policy. The result is AquaStream²® range that has accomplished a 10 dB(A) noise reduction compared with 1998 products.

AquaStream²® chillers come in two versions:

- *standard, suitable for applications that do not require an extremely low sound level*
- *super quiet, for very noise-sensitive environments.*

The super quiet version is 5 dB(A) sound power less than standard version.



Let it think for you...

AquaStream²® chillers are controlled by a TRANE TRACER chiller controller that monitors all operating and security parameters. It also offers programmable features such as scheduled start/stop or water temperature reset, and has remote starts/stop or default signalling capabilities.

The 6-key keypad along with the liquid crystal display will allow the user to interact very simply with the system, and to quickly diagnose eventual problems or even better: prevent them.

TRACER chiller controller will allow you to control your installation with ease and a pleasant peace of mind.

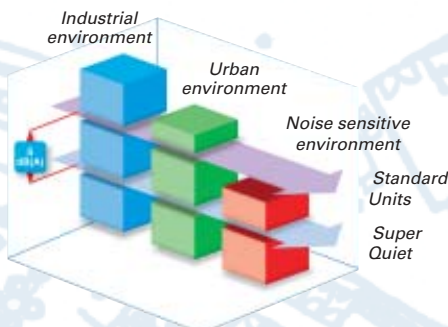


Years of loyal service...

Great care has been put in the design of AquaStream²® chillers, as any component, piece of pipe or metal sheet developed has had to pass severe test and qualification processes.

The full range is equipped with Scroll compressors that have acquired an indisputable notoriety on today's market due to their efficiency and reliability. Heat exchangers have been designed to guarantee the best energy efficiencies, and the widest operating temperature range in order to fully benefit from a year-round operation.

Operation and maintenance cost will be reduced, while your energy bill will remain affordable.



Particular attention has been given to any component that can generate any noise or vibration:

- *compressors are insulated and separated from airflow in order to avoid airborne noise*
- *condenser coil heat exchange surface has been optimized*
- *fan especially designed to improve airflow*
- *communication of vibration is controlled thanks to very strict design requirements of piping, chassis and panels.*

You and your neighbourhood will appreciate the noise level.

AquaStream²



A long future for your installation

Both AquaStream²® cooling-only and reversible chillers have been optimized for exclusive use of chlorine-free and ozone layer-friendly, R407C refrigerant.

AquaStream²® chillers operate with a refrigerant that has a future and that complies with current and upcoming environmental regulations.

Model	Type	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN	CGAN
		CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN	CXAN
		200	250	300	400	450	490	500	600	700	800	900	925
Refrigerant	Type	R407C											
Power supply	(V/Ph/Hz)	400/3/50											
Cooling capacity (1) CGAN/CXAN	(kW)	50.7/49.2	62.5/60.8	76.2/73.6	102.8/94.5	121.8/116.4	132.3/124.8	128.9/125.9	157.1/153.1	182.8/167.4	214.2/195.1	241.3/220.7	267.0/251.9
Cooling mode power input (1) CGAN/CXAN	(kW)	19.1/20.3	24.4/25.4	28.8/30.1	38.7/40.0	43.6/42.8	50.5/49.7	49.1/51.1	57.9/60.7	68.4/69.8	77.9/78.2	88.3/90.1	102.4/102.0
Heating capacity (2) CXAN	(kW)	48.1	59.6	72.7	99.2	112.3	120.3	119.2	145.3	171.8	198.4	220.0	251.6
Heating mode power input (2)	(kW)	20.3	24.9	30.4	43.0	45.7	48.7	49.5	60.4	69.6	84.5	92.6	101.1
Number of refrigerant circuits		1	1	1	1	1	1	2	2	2	2	2	2
Number of compressors		2	2	2	3	3	3	4	4	6	6	6	4
Available Water Pressure (3)	(kPa)	195	180	173	139	195	181	206	185	196	174	137	124
Evaporator water connection type		Male ISO R7											
Width	(mm)	1100	1100	1100	1100	1100	1100	2300	2300	2300	2300	2300	2300
Length	(mm)	2800	2800	3200	3200	3200	3200	3400	3400	3400	3400	3400	3400
Height without water tank	(mm)	1897	1897	1897	2074	2074	2074	1897	1897	2100	2100	2100	2100
Operating Weight													
without hydraulic module	(kg)	748/776	842/870	968/996	1143/1182	1267/1302	1292/1331	1623/1677	1818/1872	2087/2166	2245/2324	2423/2502	2456/2535
with hydraulic module	(kg)	851/879	945/973	1076/1104	1251/1290	1375/1410	1400/1439	1733/1787	1928/1982	2201/2280	2359/2438	2612/2691	2645/2724
Water tank volume	(l)	370	370	410	470	470	470	570	570	570	570	570	570
Water tank additional height	(mm)	400											
Water tank additional shipping weight	(kg)	396	396	437	436	436	436	644	644	644	644	644	644

(1) Water entering/leaving temperature : 12/7° C, outdoor temperature 35° C.

(2) Water entering/leaving temperature : 45/50° C, outdoor temperature 7° C DB/6° C WB.

(3) Dual pump option

TRANE comfort chilled water systems



Quality Management
System Approval



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For more information, contact
your local district office or e-mail us at
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