



**TRANE®**

Cooling and Heating  
Systems and Services

## Air-Cooled Liquid Chiller

# AquaStream<sup>2</sup>®





# AquaStream<sup>2</sup>

**An answer to all your needs...**

We at TRANE listen to our customers. AquaStream<sup>2</sup>® was developed with customers' demands in mind:

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

The proven success of AquaStream<sup>2</sup>® chillers over the last two years, along with the close cooperation with customers, have driven Trane to add three sizes to the range.

**With AquaStream<sup>2</sup>® 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)*

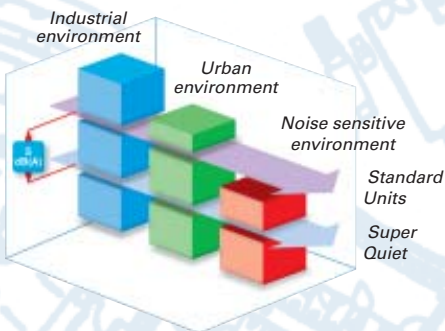
## Silence is the key...

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 AquaStream<sup>2</sup>® range that has accomplished a 10 dB(A) noise reduction compared with 1998 products.

AquaStream<sup>2</sup>® 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.



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.**



## Let it think for you...

AquaStream<sup>2</sup>® 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 AquaStream<sup>2</sup>® 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.**

**AquaStream<sup>2</sup>**



**A long future for your installation**

Both AquaStream<sup>2</sup>® cooling-only and reversible chillers have been optimized for exclusive use of chlorine-free and ozone layer-friendly, R407C refrigerant.

**AquaStream<sup>2</sup>® 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	
		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		R407C											
Power supply	(V/Ph/Hz)	400/3/50											
Cooling capacity (1) CGAN/CXAN	(kW)	49.7 / 46.4	64.1 / 62.3	78.1 / 75.2	104.4 / 92.1	120.8 / 119.3	130.1 / 125.4	132.1 / 123	161 / 156.8	188.1 / 171.6	219.5 / 200	243.8 / 227.6	268.2 / 251.2
Cooling mode power input (1) CGAN/CXAN	(kW)	19.5 / 19.1	24.4 / 25.4	28.8 / 29.3	38.9 / 39.2	44.7 / 44.8	50.8 / 49.7	49.1 / 51.1	57.9 / 60.7	69.1 / 69.8	77.9 / 78.2	91.1 / 91.6	101.3 / 100.9
Heating capacity (2) CXAN	(kW)	49.3	61.1	74.2	101.7	115.1	120.9	122.1	149.0	176.1	203.4	225.5	252.9
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	2	2	4	4	6	6	6	4
Available Water Pressure (3)	(kPa)	198	178	171	139	196	183	205	184	194	172	138	123
Evaporator water connection type		Male ISO R7											
Evaporator water connection diameter	(inches)	2	2	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	3	3	3	3
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	2092	2092	2092	1897	1897	2100	2100	2100	2100
Operating Weight													
without hydraulic module	(kg)	748/743	842/834	968/954	1143/1124	1267/1260	1292/1284	1623/1588	1818/1778	2087/2030	2245/2181	2423/2344	2456/2377
with hydraulic module		851/846	945/937	1076/1062	1251/1232	1375/1368	1400/1390	1733/1638	1928/1888	2201/2144	2359/2295	2612/2533	2645/2566
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 : 40/45° C, outdoor temperature 7° C DB/6° C WB.

(3) Dual pump option

### Optimized Systems

Reliability Energy Savings Environment

Retail

Lodging

Commercial Offices

Health Care

### Expertise in Applications & Services

Design & Applications Of HVAC Systems

- Water side
- Air side
- Refrigeration side
- Control systems
- Standard codes
- Acoustics
- Energy, Environment
- Services

### Expertise in Controls & Integration

Factory-mounted Controls

Interoperability And Integration

BMS Compatibility

### Complete Range of Equipment

Water Terminals

Rooftops

Chillers

Air Handling Units



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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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