



AquaStream²

CGWN - CCUN

*Water cooled and condenserless
indoor liquid chillers
180-320 kW*





The AquaStream²® indoor chillers range combines the latest technologies available to offer an optimum answer for today's air conditioning and process cooling applications, even if very demanding.

Its design follows the "Plug and Play" concept to offer easy installation, maintenance, and project management.

Far beyond effective cooling, the AquaStream²® chillers provide unparalleled benefits in terms of:

- **Versatility**
- **Reliability**
- **Substantial energy savings**



Reduced footprint

Trane builds the chillers to make the most efficient use of the available installation space. The compact Indoor AquaStream²® range chiller is smaller than most chillers it might replace, and easier to fit into existing buildings. All units fit through a standard single door.

An excellent solution for any retrofit or replacement job.



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:

- Evaporator pump and strainer
- Expansion tank on cooling loop
- Condenser pump and strainer
- Evaporator flow switch
- Water gauge
- Relief valve

Low installation costs through time and space saving.



880 mm





Smart controls

Trane's Adaptive Control™ CH.530 microprocessor is the most advanced chiller controller available in the air conditioning industry. It offers internal control logic that monitors the chiller's operation and keeps it running during extreme operating conditions. While controls on other chillers will shut down machine operation, the Trane AquaStream^{2®} will modulate system components to keep the chiller operating and producing chilled water, meanwhile continuing to optimize chiller performance. The Tracer™ CH530 chiller controller comes with a touch screen user interface. Thus, it provides the friendliness required to monitor operation of the machine quickly and easily.

Adaptive Control™ keeps the chiller on line



Building management

Tracking the operating cost is simplified thanks to the easy integration of Building Management Systems such as Zenith or Tracer. The Trane AquaStream^{2®} supports standard open LonTalk® protocol.

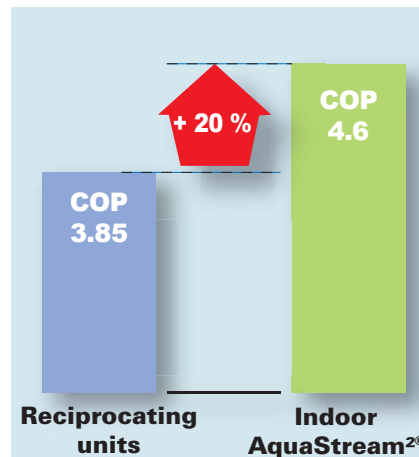
Building comfort under control



Energy Efficiency

The use of advanced heat-transfer technology in conjunction with the most advanced controls has allowed the AquaStream^{2®} chillers to achieve superior energy efficiency levels. Reducing energy consumptions thanks to increased efficiency contributes directly to greenhouse warming effect reduction.

Energy savings and environment care.



Reliability

Trane has designed the Indoor AquaStream^{2®} chiller range to be a leader in reliability for all applications :

- Scroll compressor with 64% fewer moving parts and lower torque variations than equal capacity reciprocating compressor.
- Advanced microelectronics protect both compressor and motor from typical electrical fault conditions.
- Years of laboratory testing have optimised compressor and chiller systems reliability.
- Systematic factory testing.

Years of loyal service

Service In Mind

In addition to product commissioning and warranty coverage, Trane's Service Department proposes maintenance contracts tailored to each client's individual needs as well as programmes for upgrading older equipment to the latest technologies.

Extended service for a constant optimization of equipment performance



Eurovent certification for the AquaStream^{2®} range guarantees accurate performance data and common comparison criteria.

Optimum building comfort in accordance with environmental standards

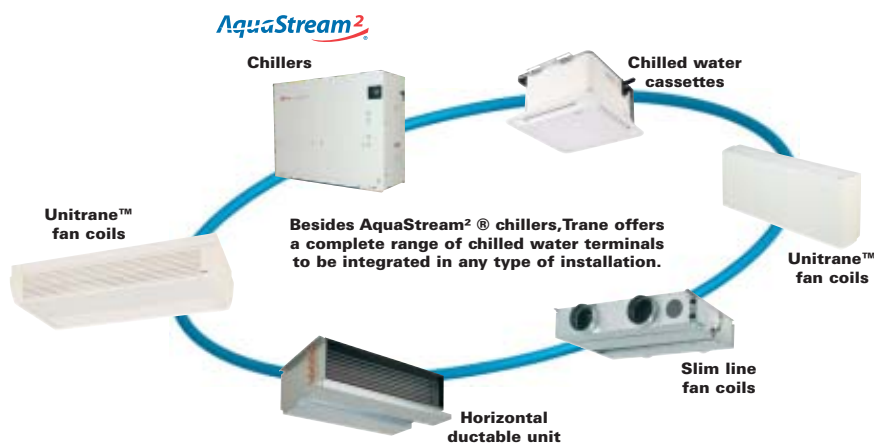
		205	206	207	208	209	210	211	205 HE	206 HE	207 HE	208 HE	209 HE	210 HE	211 HE
Water cooled liquid chillers (CGWN)															
Cooling capacity (1)	(kW)	179.3	208.6	234.6	260.1	288.3	320.0	344.5	187.4	216.6	243.4	267.8	295.7	326.2	351.7
Power input (1)	(kW)	42.3	48.2	55.6	62.2	68.0	75.1	83.9	39.2	44.9	51.4	58.0	64.2	72.7	82.3
Condenserless liquid chillers (CCUN)															
Cooling capacity (2)	(kW)	181.5	196.0	237.5	262.9	291.7	321.0	349.1	189.1	218.6	245.5	270.1	298.5	329.6	355.9
Power input (2)	(kW)	40.3	45.7	51.0	57.4	63.0	70.0	78.4	39.0	44.5	49.5	55.7	61.4	69.0	77.6
Refrigerant		R 407C													
Power supply	(V/Ph/Hz)	400/3/50													
Number of refrigerant circuits		2													
Number of compressors / Type		4 / Scroll													
Evaporator available water pressure (3)	(kPa)	170	150	150	145	140	185	180	190	170	170	160	165	205	190
Evaporator connections		Victaulic - Male - 3"													
Condenser available water pressure (CGWN) (4)	(kPa)	160	140	160	155	150	140	135	180	170	190	180	170	160	140
Condenser connections (CGWN)		Victaulic - Male - 3"													
Discharge - Liquid line connections (CCUN)		1"5/8 - 1"1/8													
Sound Power Level	(dB(A))	85	84	86	85	87	87	87	85	84	86	85	87	87	87
Sound Power Level with sound attenuation jacket	(dB(A))	80	79	81	80	81	81	81	80	79	81	80	81	81	81
Length x Width x Height	(mm)	2520 x 880 x 1842													
Water cooled liquid chillers (CGWN) operating weight															
Base Unit	(kg)	1240	1310	1460	1540	1610	1710	1820	1320	1470	1540	1630	1730	1800	1870
Evap Hydraulic Kit	(kg)	1330	1400	1630	1710	1780	1880	1990	1410	1560	1710	1800	1900	1970	2040
Evap + Cds Hydraulic Kit	(kg)	1400	1470	1730	1810	1880	1980	2090	1480	1630	1810	1900	2000	2070	2140
Condenserless liquid chillers (CCUN) operating weight															
Base Unit	(kg)	1120	1170	1300	1370	1420	1510	1590	1180	1240	1300	1390	1480	1550	1620
Evap Hydraulic Kit	(kg)	1210	1260	1470	1540	1590	1680	1760	1270	1330	1470	1560	1650	1720	1790

- (1) at Eurovent Conditions (Evap 12°C/7°C - Condenser. 30°C/35°C)
(2) at Eurovent Conditions (Evap 12°C/7°C - Saturated condensing temperature 45°C)
(3) High head pressure option - Dual Pump option
(4) High head pressure option



		RTCA 208	RTCA 209	RTCA 211	RTCA 215	RTCA 208 LN	RTCA 209 LN	RTCA 211 LN	RTCA 215 LN
Power supply		400 V / 3 Ph / 50 Hz							
Nominal heat rejected (1) (3)	(V/Ph/Hz)	169.1	191.2	227.7	387.4	128.7	150.8	179.8	300
Length	(mm)	2870							
Width	(mm)	2285							
Height	(mm)	1655							
Discharge line connection		1"5/8							
Liquid line connection		1"1/8							
Operating weight	(kg)	810	890	1090	890	810	890	1090	1770
Sound Power Level (2) (3)	(dB(A))	90	90	92	93	85	85	87	88

- (1) At Eurovent conditions : Air inlet temperature = 25°C; Temperature Difference (Air inlet/Saturated Condensing Temp.) = 15 K
(2) In accordance with ISO 3747
(3) Nominal fan speed.



Quality Management System Approval



LONMARK SPONSOR



Literature Order Number CG-SLB013-E4

Date 0305

New

Literature stocking Location Europe

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

www.trane.com

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

American Standard Europe BVBA
Registered Office: 1789 Chaussée de Wavre, 1160 Brussels - Belgium