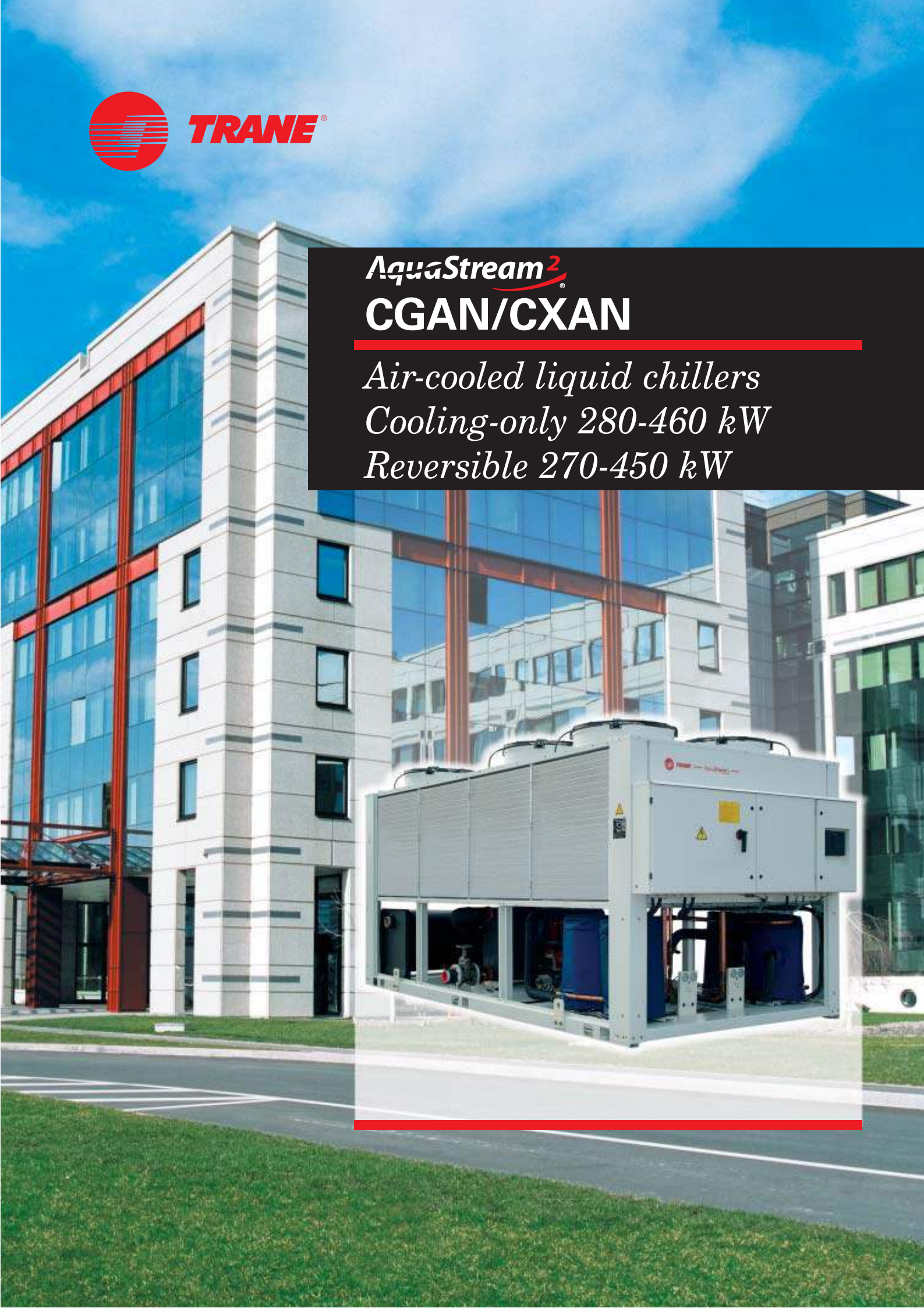
TRANE®

AquaStream 2®

CGAN/CXAN

Air-cooled liquid chillers
Cooling-only 280-460 kW
Reversible 270-450 kW



An answer to all your needs...

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

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

The proven success of AquaStream²® air-cooled chillers, along with close cooperation with customers, has driven Trane to extend the range up to 460kW.

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



AquaStream²®







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 roof, avoiding the use of a dedicated technical room.

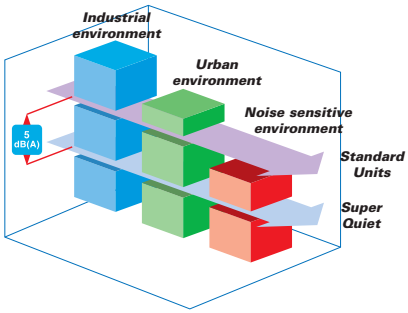
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Silence is the key...

In today's market, noise nuisance has become a major issue. During the past years TRANE has had a strong equipment sound reduction policy. 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.



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

- Compressors are insulated in order to avoid airborne noise
- Condenser coil is "W shaped" allowing enhanced air distribution
- 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 sound level.



DynaView control user interface

Smart controls

Trane's Adaptive Control™ CH530 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 CH530 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.

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.

In line with major environmental concerns

- ODP = 0: complies with Montreal Protocol
- Low GWP, moderate operating pressure, positive impact of glide when used in counter-flow heat exchangers such as brazed plate, COP remains high even at high temperature.

Benefits:

- The potential Direct Global Warming impact is reduced due to the limited pressure, low ODP, low refrigerant charge and considerably reduced number of solderings, gaskets, manifolds, etc.
- The potential Indirect Global Warming impact is also reduced due to high efficiency obtained at all load conditions, including high ambient temperatures, thanks to counter flow heat exchangers and generously sized air to refrigerant heat exchanger coils.

Model		CGAN / CXAN 209	CGAN / CXAN 210	CGAN / CXAN 211	CGAN / CXAN 212	CGAN / CXAN 213	CGAN / CXAN 214
Main power supply	(V/Ph/Hz)			400/3/50			
Refrigerant	Type			R407C			
Net cooling capacity CGAN / CXAN (1)	(kW)	288/277	316/305	350/335	389/367	428/410	462/451
Total power input in cooling mode CGAN/CXAN	(kW)	107/109	120/118	130/131	139/145	156/155	172/165
Net heating capacity CXAN (1)	(kW)	291	317	351	384	425	467
Total power input in heating mode CXAN	(kW)	107	112	131	146	159	172
Number of refrigerant circuit		2	2	2	2	2	2
Number of compressors and steps		4	4	5	6	6	6
Available water pressure (2)	(kPa)	119/174	109/168	120/164	108/151	94/140	88/136
Chiller water connection type				Victaulic			
Chilled water connection diameter	(Inch/mm)	4" (100)	4" (100)	4" (100)	4" (100)	4" (100)	4" (100)
Height	(mm)	2323	2323	2323	2323	2323	2323
Length	(mm)	5135	5135	5135	5135	5135	5135
Width	(mm)	2230	2230	2230	2230	2230	2230
Operating Weight							
without hydraulic module CGAN/CXAN	(kg)	2680/2950	2710/2990	3070/3260	3370/3500	3490/3640	3590/3750
with hydraulic module CGAN/CXAN	(kg)	2980/3250	3010/3290	3370/3560	3670/3800	3790/3940	3890/4050
Water tank volume (Option)	(l)	600	600	600	600	600	600
Water tank additionnal shipping weight	(kg)	270	270	270	270	270	270

(1) At Eurovent Conditions (Cooling: Water 12°C/7°C - Air. 35°C // Heating: Water 40°C/45°C - Air. DB7°C / WB6°C)
(2) With Single Pump Option: Low head pressure pump / High head pressure pump



Quality Management System Approval

EUROVENT CERTIFIED PERFORMANCE

LONMARK® SPONSOR

TRANE®

Literature Order Number	CG-SLB014-E4
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Supersedes	CG-SLB014-E4_0505
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

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