









CyberCool 2

The quietest, most efficient and most reliable chiller in its class. Made as required. Made in Germany.

The complete range of air conditioning technology – from one source.

For over 50 years, the STULZ family-run company has been synonymous with precision air conditioning at the highest level.

Our solutions for the air conditioning of businesscritical applications and sensitive systems have made us a leading company in our industry.

Whether for data centers, industry or communication technology, the STULZ portfolio has a tailor-made cooling solution to suit your requirements.

We guarantee adherence to our uncompromisingly high requirements and quality standards both at our factory in Hamburg and all our production sites around the globe. Moreover, we work hard not only to satisfy our customers' individual wishes, but also to make sure our air conditioning solutions offer maximum energy efficiency and a minimal CO₀ footprint.

Our portfolio extends from traditional room cooling and High Density Cooling to chillers, air handling units and container modules, all the way to micro data centers, service, and our self-developed monitoring software. An all-embracing quality assurance system monitors all the details in development, production, implementation, and service.

Today, STULZ has a presence in more than 140 countries. STULZ GmbH has 23 subsidiaries and eleven production sites in Europe, India, China, and North and South America. We also have partner agreements with numerous sales and service partners on every continent. Our network of highly qualified specialists is a reliable guarantee of the highest standards.

The combined wealth of our experience, values, performance and service is what defines us and is especially valued by our customers. Air conditioning solutions – custom tailored and from one source: **ONE STULZ. ONE SOURCE.**



Maximum energy efficiency. Minimum noise emissions. Optimum reliability.

Maximum energy efficiency and optimum reliability for complex, sophisticated chiller solutions without compromise – this is what our CyberCool 2 chillers stand for. And for a completely novel overall concept, whereby all the components of the CyberCool 2 are perfectly harmonized to ensure both high energy efficiency and low noise emissions.

In the spotlight: The best individual cooling solution for customers

Every CyberCool 2 is configured precisely for the customer's needs. Whether it's size, cooling capacity, compressors, the electrics or refrigerant: with the CyberCool 2, we will find the optimum cooling solution for you. As well as taking individual wishes for modularity and additional options into consideration, we also answer to international standards and country-specific challenges.

Efficient and reliable. And quiet.

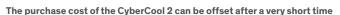
Energy savings at the expense of availability? Less noise to the detriment of energy efficiency? There's no compromise with STULZ chiller solutions. With the CyberCool 2, all performance values are optimized in perfect balance to suit customers' wishes: more efficiency and availability, lower noise.

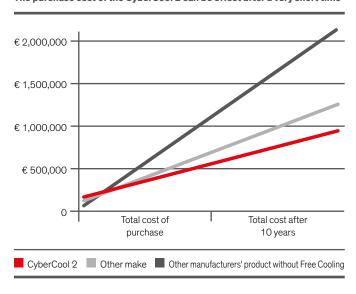


Our TCO promise

The CyberCool 2 has been consistently developed to become the TCO leader in the cooling market — in other words, the cooling system with the lowest total cost of ownership throughout its life, in all operating conditions.

Our customers make sensible investment decisions. Because they know that investing in the quality, reliability and efficiency of STULZ chiller solutions pays off during operation after just a short time, due to energy savings and operational reliability.





CyberCool 2 Energy efficiency at a glance

Maximum size components ensure low energy consumption.

1. Maximized Free Cooling coils

- Reduced compressor runtime thanks to early switchover to efficient Mixed and Free Cooling mode
- Minimized pump energy consumption thanks to low hydraulic pressure drops
- Designed with copper and aluminum coils

2. Large microchannel condensers

- Low fan energy consumption due to minimized air resistance
- Low condensing temperature in DX mode for low energy consumption
- Improved heat transfer combined with reduced quantities of refrigerant

3. EC fans with reduced speed

- Lower nominal current and noise emissions, as the fans always run in partial load mode
- Optimized for continuous operation

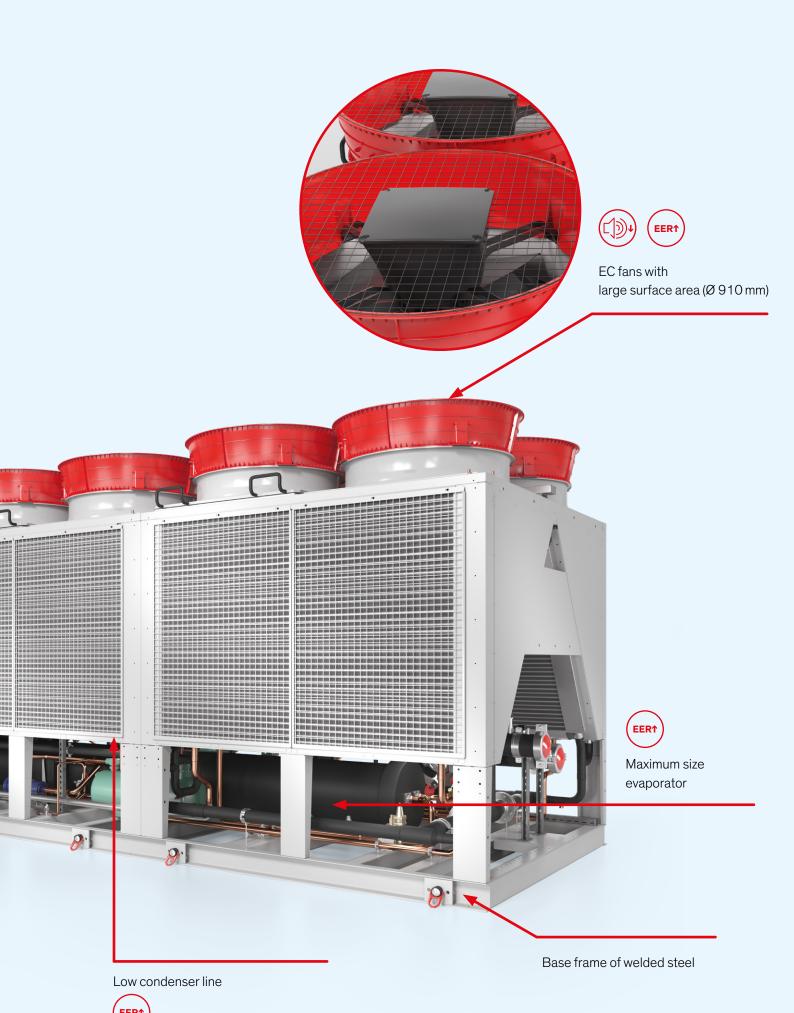
4. Evaporators with a large surface area for high evaporation temperatures

 Low pressure drops and optimized heat transfer ensure especially high evaporation temperatures





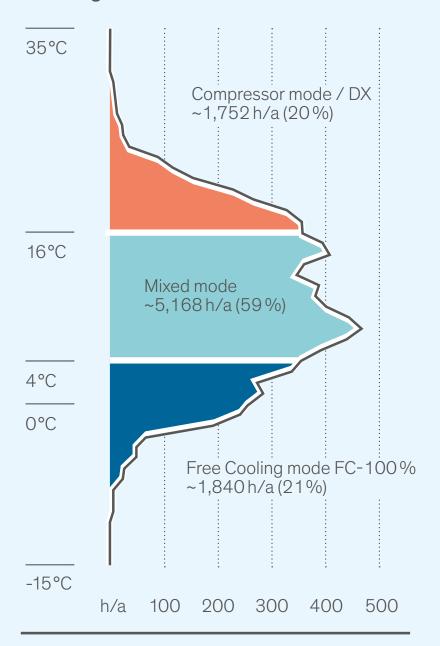




Free Cooling. Maximum possible efficiency.

Mixed mode

Hamburg



Basis for calculation: 30 % ethylene

The Free Cooling of the CyberCool 2

uses the outside temperature, which

When outside temperatures are low, Free Cooling can completely replace energy-intensive compressor cooling. In temperate climates, the CyberCool 2 runs in energy-efficient Mixed mode for most of the year, i.e. with a mixture of Free Cooling and compressor cooling.

CyberCool 2 – Top of the class in energy:

- Early switchover to Free Cooling
- Maximum use of Free Cooling coils between compressor mode and Free Cooling
- Coils designed to allow the maximum surface area

offers the greatest potential savings of all, especially in cold and temperate climates.

When outside temperatures are

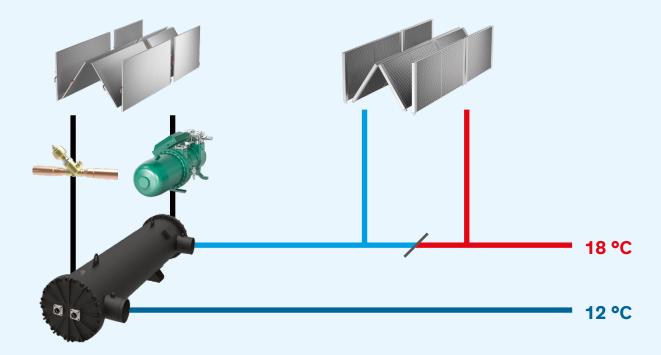
^{*} Cold water inlet / outlet: 18 °C/12 °C External air: 35 °C

No efficiency without "Mix Mode Boost"

In temperate zones, chillers with Free Cooling run in Mixed mode most of the year. Therefore, the greatest potential savings, by some margin, can be achieved by optimizing Mixed mode.

In Mixed mode, the outstanding performance values of the CyberCool 2 have maximum impact: it efficiently utilizes the condensation pressure control in Mixed mode to cut the energy consumption of the compressors to a minimum.

Innovation: Unlike conventional chiller solutions, with "Mix Mode Boost" the CyberCool 2 makes 100 % use of the surfaces of the DX coils without having to regulate the fan speed. This dramatically enhances energy efficiency and slashes operating costs.

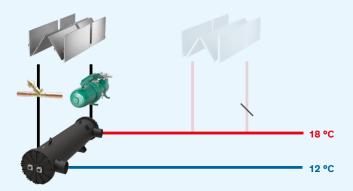


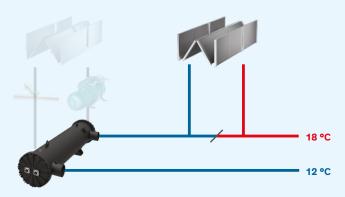
DX mode

The CyberCool 2 cuts operating costs to a minimum in every operating mode, even in relatively energy-intensive DX mode: in DX mode, the CyberCool 2 achieves the best efficiency values in mission-critical applications compared with competing systems – every time.

Free Cooling

At low outside temperatures, the water is cooled solely with the aid of these temperatures. Energy consumption is reduced to an absolute minimum thanks to the maximized Free Cooling coils and early, infinite switchover points.





Noise-optimized for all applications

There are many projects where the noise emissions of the chillers have to be factored in. For installation near an office building or in a hospital, in particular, low noise values are essential.

When designing the CyberCool 2 chiller, STULZ focused on optimizing noise without neglecting energy efficiency.



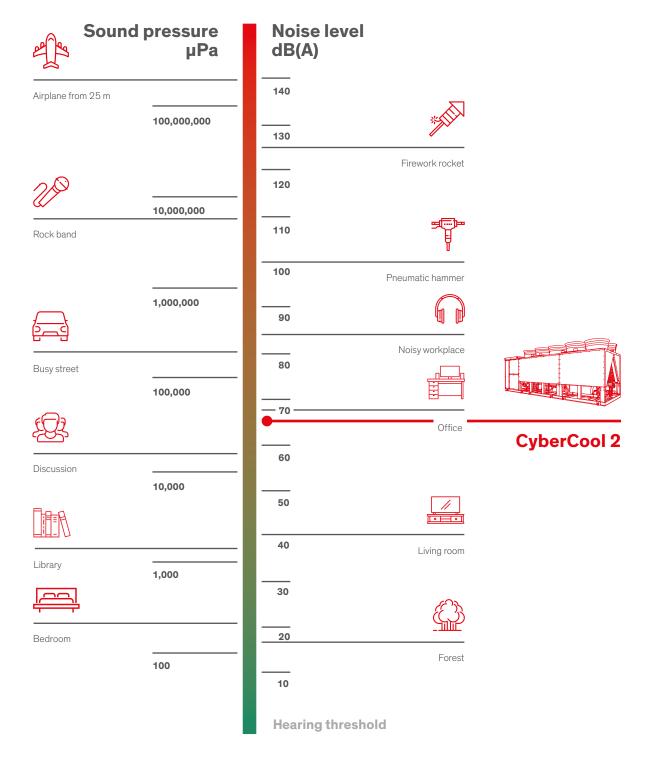
The CyberCool 2 is equipped with high-quality components that greatly minimize the noise level:

- EC fans with a large surface area (Ø 910 mm) enable operation at reduced speed
- The airflow properties ensure reduced air turbulence, resulting in low pressure drops and noise emissions
- Sound-insulated compressor chamber
- The fan diffuser attachment (optional) optimizes the airflow and therefore cuts electricity consumption by up to 20% and noise by up to 5 dB(A)

Powerful and quiet

Where there are people, noise emissions should always be kept to a minimum. This applies in commercial and industrial zones, and even more so in the vicinity of offices, hospitals and residential areas.

The CyberCool 2 is equipped with components that lower noise emissions to a most impressive minimum. The CyberCool 2 therefore works demonstrably more quietly than the STULZ engineering teams who developed it!



Efficient. And reliable. And quiet! For applications both large ...

With the CyberCool 2, the optimum operating point can be achieved for every project. Energy efficiency, noise emissions or both can be individually optimized, depending on your priorities.

The following examples demonstrate the versatility of the CyberCool 2.

Priority: Energy efficiency



The fans run at high speed.

| Sound pressure (1 m) | EER | Cooling capacity | Airflow | Fan power consumption |
|----------------------|------|------------------|--------------|-----------------------|
| 74 dB(A) | 3.81 | 760 kW | 308,000 m³/h | 1.63 kW |

Priority: Noise emissions



Noise values are reduced to the minimum.

| Sound pressure (1 m) | EER | Cooling capacity | Airflow | Fan power consumption |
|----------------------|------|------------------|--------------|-----------------------|
| 66 dB(A) | 2.72 | 625 kW | 123,200 m³/h | 0.10 kW |

Priority: Optimum noise emissions and energy efficiency





Lowest noise emissions with optimum efficiency.

| Sound pressure (1 m) | EER | Cooling capacity | Airflow | Fan power consumption |
|----------------------|------|------------------|--------------|-----------------------|
| 70 dB(A) | 3.77 | 735 kW | 246,400 m³/h | 0.83 kW |

Comments:

Technical data of the CyberCool 2 ESO 7402 AHF under the following conditions: Water 18/12 °C, outside temperature 35 °C, incl. AxiTop Noise level (full load) at a distance of 1 m in free-field conditions (to ISO 3744), 30 % glycol



... and small

Chillers both large and small achieve excellent values for efficiency, reliability and noise emissions.

Priority: Noise emissions

Noise values are reduced to the minimum.





| Sound pressure (1 m) | EER | Cooling capacity | Airflow | Fan power consumption |
|----------------------|------|------------------|-------------|-----------------------|
| 65.5 dB(A) | 3.78 | 193 kW | 64,000 m³/h | 1 kW |

Priority: Optimum noise emissions and energy efficiency





Lowest noise emissions with optimum efficiency.

| Sound pressure (1 m) | EER | Cooling capacity | Airflow | Fan power consumption |
|----------------------|-----|------------------|-------------|-----------------------|
| 66 dB(A) | 4.1 | 200 kW | 88,000 m³/h | 1.32 kW |

Comments:

Technical data of the CyberCool 2 COO 1902 ASF under the following conditions: Water 18/12 °C, outside temperature 35 °C, incl. AxiTop Noise level (full load) at a distance of 1 m in free-field conditions (to ISO 3744), 30 % glycol

Energy Efficiency Ratio (performance coefficient)
The energy efficiency ratio (EER) of a
chiller describes the ratio of cooling capacity
to electrical power consumption at a certain
operating point.

EER = cooling capacity/power consumption



Climate. Customized. You have the challenge, we have the solution.

A vast range of options that leave nothing to be desired: The requirements facing air conditioning systems vary enormously depending on location and local climate, heat production, room planning, environmental and noise protection, not to mention safety.

The CyberCool 2 offers the optimum chiller solution for every requirement. Structural options and equipment versions dependent on capacity can be combined as desired. And it goes without saying that if you wish, our teams will work with you to plan and implement your application.

Application 1 "Steppe and desert climate": extremely hot, dusty sites

What makes the CyberCool 2 ideal for hot regions:

Active switch cabinet cooling (standard)

Protects the switch cabinet from overheating. A temperature of 35 °C is not exceeded, even at very high outside temperatures.

Compressor chamber with forced airflow (standard)

Protects the compressor chamber from overheating

Organic debris protective grill (optional)

Protects the coils from external influences such as dust or dirt, e.g. during a sandstorm

Coil protective grill (optional)

Protects the coils from vandalism

Corrosion protection (optional)

Protects all heat exchangers from aggressive ambient air, e.g. for installation sites near industrial facilities, by the sea, close to airports, and much more

• Frequency: 60 Hz (optional)

• Weather-proofed roof (optional)

Protects the switch cabinet electronics from the weather, e.g. direct sunlight when the switch cabinet is open. Even when the cabinet is closed, it lessens the impact of heat from outside.



| Cooling capacity | 575 kW | 455 kW | 810 kW |
|----------------------|---------------|---------------|-----------------|
| Outside temperature | 40 °C | 55 ℃ | 50 °C |
| EER | 2.94 | 1.77 | 2.94 |
| Sound pressure (1 m) | 72 dB(A) | 72 dB(A) | 72 dB(A) |
| Operating point | Water: 12/7 ℃ | Water: 12/7 ℃ | Water: 26/20 °C |



- Location
- Local climate
- Environmental protection Peace of mind
- Room planning
 Noise protection
 - Heat production
- connectivity
- In-house engineering
- Integration and In-house software development

With the CyberCool 2, our customers basically receive a custom tailored solution that has been ideally configured for their application.

Application 2: "Trans-Siberian and tundra climate": extremely cold, dry sites

What makes the CyberCool 2 ideal for cold regions:

Weather-proofed roof (optional)

Protects the switch cabinet electronics from the weather, e.g. rain or snow when the switch cabinet is open

Free Cooling coils with shut-off (optional)

• Coil protective grill (optional)

Protects the coils from vandalism

Switch cabinet heating

The switch cabinet heating guarantees the optimum temperature and humidity for the electronics, and prevents condensation from forming inside.

Corrosion protection (optional)

Protects all heat exchangers from aggressive ambient air, e.g. for installation sites near industrial facilities, by the sea, close to airports, and much more



Protects the coils from external influences such as hail or pollen



| Cooling capacity | 753 kW | 753 kW | 1000 kW |
|----------------------|-----------------|-----------------|-----------------|
| Outside temperature | 35 ℃ | -40 °C | 33 °C |
| EER | 3.91 | 3763 | 4.64 |
| Sound pressure (1 m) | 74 dBA | ≥0 dBA | 74 dBA |
| 100 % Free Cooling | 2.3 ℃ | 2.3 ℃ | 7 °C |
| Operating point | Water: 18/12 °C | Water: 18/12 °C | Water: 26/20 °C |

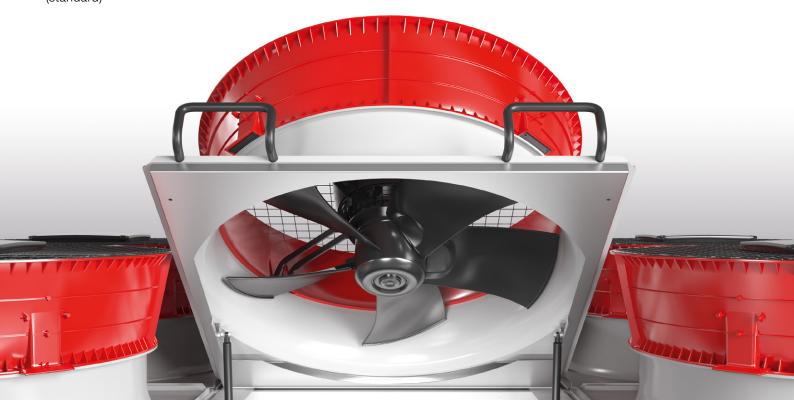


Application 3: Efficient and economical maintenance

Maintenance of the CyberCool 2 is exceptionally efficient and economical: our customers gain peace of mind, save time and cut maintenance downtimes to a minimum.

- Fans run backwards every so often before starting, enabling easy rough cleaning of coil surfaces (standard)
- Simple spare parts concept:
 Uniform sizes and components specially adapted for industry mean spare parts are available all over the world
- Distinction between high and low voltage in the switch cabinet (standard), for easy component assignment
- Good access to main components (standard)
- Simple installation and machine connection (standard)

- Organic debris protective grill (optional)
- Fold-away fans (optional):
 Easy coil cleaning to maintain full performance over time
- Free Cooling coils with shut-off (optional)
- Laptop table (optional):
 Simplified laptop use during maintenance
- Light and socket in the switch cabinet (optional)
- Weather-proofed roof (optional):
 Fast and simple maintenance in all weathers



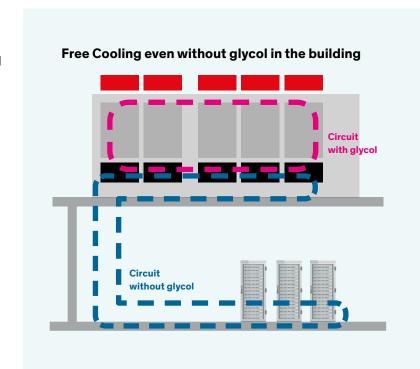
Application 4: Very long "Free Cooling" phase with separate glycol and water circuits offers huge potential savings

There are some buildings where glycol cannot be used. With the "**Non-glycol²** option", glycol is only used in the Free Cooling circuit. This option provides the benefits of Free Cooling while refraining from the use of glycol in the building.

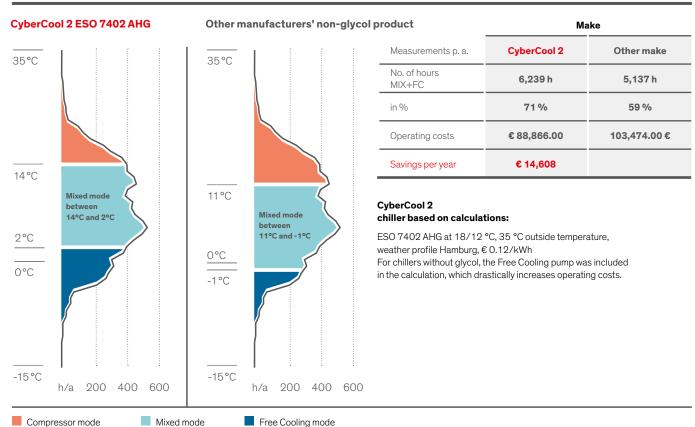
However, by separating the Free Cooling and chilled water circuits with an additional brazed plate heat exchanger, the switchover points to Free Cooling and Mixed mode do shift by a few degrees Celsius. To be energy-efficient, the chiller must run in Mixed and Free Cooling mode as early as possible.

This unique STULZ solution keeps efficiency losses to a minimum.

- Brazed plate heat exchanger with minimized pressure drops
- This permits the use of a "small" Free Cooling pump with low energy consumption (must run continuously in Mixed and Free Cooling mode)
- High quality, meticulously selected components



Optimum switchover points save energy – especially with separate glycol and water circuits

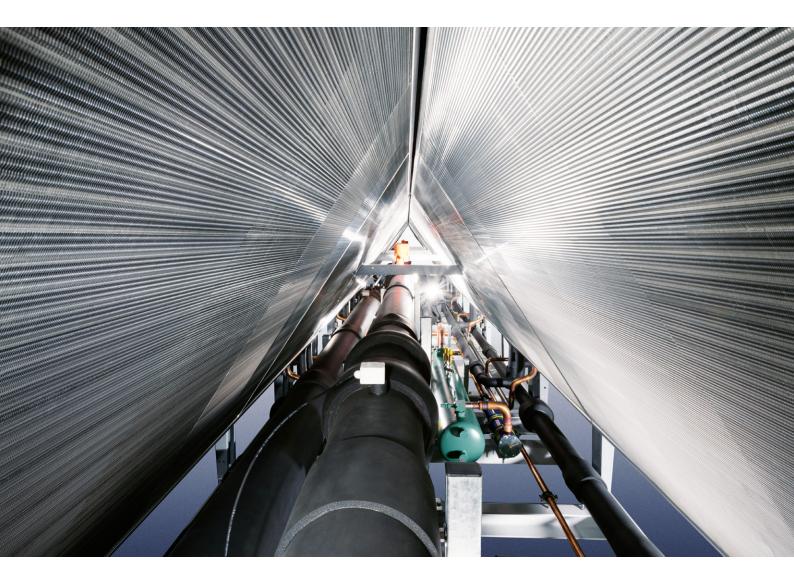


Reliability - Made in Germany

All system components of the CyberCool 2 have been perfectly harmonized and designed for dependable, continuous operation 24/7, 365 days a year, with maximum operational reliability.

- Emergency mode: If necessary, the fan speed can be raised to maximum capacity at any time
- Standardized and commonly available system components ensure availability and a constant spare parts supply
- Function and pressure tests of all mechanical and electrical components ensure quality control
- Continuously available operational and system concept thanks to two symmetrical refrigerant circuits with identical system components

- Corrosion protection (optional) of all heat exchangers against aggressive ambient air, e.g. for installation sites near industrial facilities, by the sea, close to airports, and much more
- Immediate start after power failure
- Logically consistent separation of airflow through individual coil sets
- Quality management from development to start-up, through certification to ISO 9001 and ISO 14001
- and a great deal more



Power failure – be best prepared with the CyberCool 2



With the options available from STULZ, the CyberCool 2 reaches the required cooling capacity as quickly as possible after power failure, minimizing downtimes.

- UPS buffered controller and compressor quick-start (optional)
- Dual mains supply A-B with automatic or manual switchover (optional)
- Compressor soft start to prevent current spikes (optional)

What does restart after power failure look like with and without options?

Restart without options 100 Start controller Compressor Start phase Start **Diesel generators** downtime Power supply Control system is established is initialized **DOWNTIME 100%** > TIME Dispensed with Greatly shortened Dispensed with due to UPS buffered due to second mains due to compressor supply if redundant mains controller quick-start is available Restart 100 with options Synchro-Start phase nization **Drastic reduction in downtime** > TIME

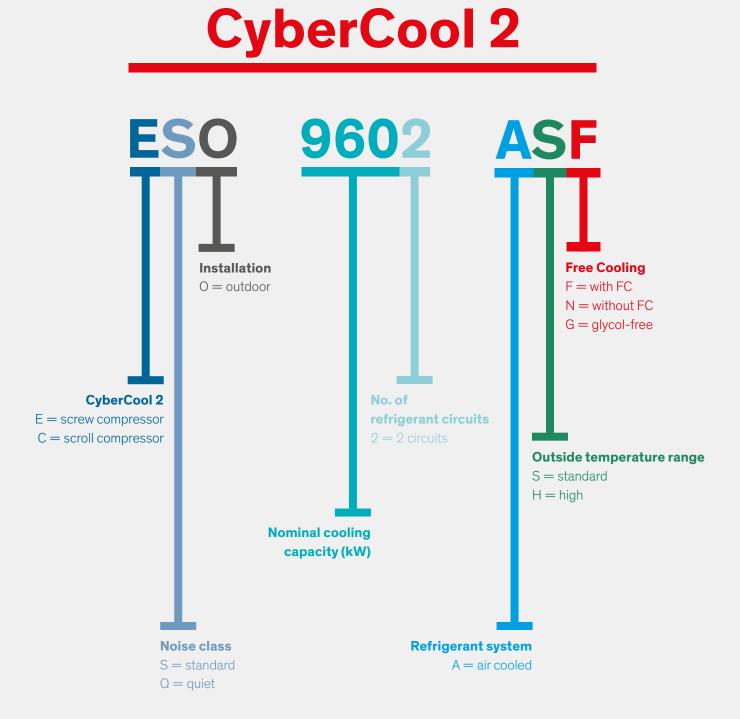
Controller

The CyberCool 2 is ideal for integration in existing systems and can be controlled to perfection by the STULZ controller.

- Hardware and software developed in-house
- Project-specific software adaptation
- Connection to building automation systems: Compatible with all common BMS protocols
- Several chillers are operated in parallel
- Sequencing for runtime compensation/alarm switching
- Programming of customized emergency routines
- Sophisticated warning and alarm system



Nomenclature



Technical data

Performance data - ESO ... ASN

| Model | | 4302 | 4602 | 4702 | 5102 | 6002 | 6602 | 6702 | 7102 | 7402 | 8002 | 8702 | 9602 | 9702 | 9802 | 10202 | 11102 | 11502 | 12602 | 13102 | 14102 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Operating point 18 °C/12 °C (1) | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 427 | 461 | 492 | 520 | 591 | 626 | 656 | 701 | 752 | 790 | 875 | 945 | 899 | 962 | 1,022 | 1,082 | 1,144 | 1,226 | 1,296 | 1,375 |
| Total power consumption | kW | 110 | 116 | 125 | 129 | 158 | 164 | 170 | 179 | 192 | 199 | 240 | 254 | 234 | 247 | 268 | 277 | 308 | 322 | 349 | 361 |
| EER | | 3.88 | 3.96 | 3.95 | 4.03 | 3.75 | 3.82 | 3.86 | 3.92 | 3.92 | 3.97 | 3.64 | 3.73 | 3.84 | 3.90 | 3.82 | 3.91 | 3.72 | 3.81 | 3.71 | 3.81 |
| Noise | | | | | | | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m(2) | dB(A) | 7 | 4 | | 7 | 5 | | 75 | | | | 75 | | | 6 | | 7 | 6 | | 7 | 6 |
| Dimensions | | | | | | | | | | | | | | | | | | | | | |
| Length | mm | 6,1 | 70 | | 7,2 | 50 | | 8,3 | 30 | | 9,4 | -80 | | 10,5 | 560 | | 11,6 | 640 | | 12, | 785 |
| Width | mm | | | | | | | | | | 2,3 | 300 | | | | | | | | | |
| Height | mm | | | | | | | | | | 2,5 | 500 | | | | | | | | | |
| Empty weight | kg | 5,426 | 5,454 | 5,852 | 5,937 | 6,544 | 6,633 | 7,013 | 7,068 | 7,761 | 7,903 | 8,740 | 8,884 | 9,241 | 9,356 | 10,288 | 10,467 | 10,505 | 10,688 | 11,129 | 11,131 |
| Operating weight | kg | 5,851 | 5,879 | 6,350 | 6,440 | 7,048 | 7,136 | 7,541 | 7,596 | 8,570 | 8,710 | 9,620 | 9,760 | 10,090 | 10,205 | 11,820 | 12,000 | 12,100 | 12,290 | 12,790 | 12,970 |

Performance data - ESO ... ASF

| | | | | | | | | | | | | | | | | | | | | - |
|-------|---------------------------|---|--|---|--|--|---|---|--|---|--|---|--|---|--|---|--|---|---|---|
| | 4302 | 4602 | 4702 | 5102 | 6002 | 6602 | 6702 | 7102 | 7402 | 8002 | 8702 | 9602 | 9702 | 9802 | 10202 | 11102 | 11502 | 12602 | 13102 | 14102 |
| | | | | | | | | | | | | | | | | | | | | |
| kW | 427 | 461 | 492 | 520 | 591 | 626 | 656 | 701 | 752 | 790 | 875 | 945 | 899 | 962 | 1,022 | 1,082 | 1,144 | 1,226 | 1,296 | |
| kW | 113 | 120 | 129 | 133 | 162 | 168 | 175 | 184 | 198 | 205 | 246 | 260 | 241 | 254 | 275 | 285 | 315 | 330 | 357 | 369 |
| | 3.76 | 3.85 | 3.81 | 3.90 | 3.65 | 3.72 | 3.74 | 3.81 | 3.80 | 3.86 | 3.55 | 3.64 | 3.73 | 3.79 | 3.71 | 3.80 | 3.63 | 3.72 | 3.63 | 3.72 |
| °C | 2.7 | 2.0 | 4.2 | 3.7 | 2.5 | 1.9 | 3.6 | 3.0 | 3.3 | 2.8 | 1.7 | 0.8 | 2.4 | 1.7 | 3.3 | 2.7 | 2.1 | 1.3 | 1.5 | 0.8 |
| | | | | | | | | | | | | | | | | | | | | |
| dB(A) | 7 | 6 | | 7 | 7 | | 7 | 8 | | 7 | 8 | | 7 | 9 | | 7 | 9 | | 8 | 0 |
| | | | | | | | | | | | | | | | | | | | | |
| mm | 6,1 | 70 | | 7,2 | :50 | | 8,3 | 30 | | 9,4 | 80 | | 10, | 560 | | 11, | 640 | | 12,7 | 785 |
| mm | | | | | | | | | | 2,3 | 00 | | | | | | | | | |
| mm | | | | | | | | | | 2,5 | 00 | | | | | | | | | |
| kg | 6,197 | 6,225 | 6,848 | 6,934 | 7,540 | 7,629 | 8,167 | 8,222 | 9,203 | 9,344 | 10,182 | 10,326 | 10,960 | 11,074 | 12,114 | 12,292 | 12,331 | 12,514 | 13,262 | 13,444 |
| kg | 6,913 | 6,941 | 7,690 | 7,780 | 8,390 | 8,480 | 9,092 | 9,147 | 10,550 | 10,690 | 11,600 | 11,750 | 12,448 | 12,565 | 14,420 | 14,600 | 14,700 | 14,880 | 15,800 | 15,980 |
| | kW °C dB(A) mm mm kg | kW 427 kW 113 3.76 °C 2.7 dB(A) 7 mm 6,1 mm mm kg 6,197 | kW 427 461 kW 113 120 3.76 3.85 °C 2.7 2.0 dB(A) 76 mm 6,170 mm mm kg 6,197 6,225 | kW 427 461 492 kW 113 120 129 3.76 3.85 3.81 °C 2.7 2.0 4.2 dB(A) 76 mm 6,170 mm kg 6,197 6,225 6,848 | kW 427 461 492 520 kW 113 120 129 133 3.76 3.85 3.81 3.90 °C 2.7 2.0 4.2 3.7 dB(A) 76 7 mm 6,170 7,2 mm kg 6,197 6,225 6,848 6,934 | kW 427 461 492 520 591 kW 113 120 129 133 162 3.76 3.85 3.81 3.90 3.65 °C 2.7 2.0 4.2 3.7 2.5 mm 6,170 7,250 mm kg 6,197 6,225 6,848 6,934 7,540 | kW 427 461 492 520 591 626 kW 113 120 129 133 162 168 3.76 3.85 3.81 3.90 3.65 3.72 °C 2.7 2.0 4.2 3.7 2.5 1.9 mm 6,170 7,250 mm kg 6,197 6,225 6,848 6,934 7,540 7,629 | kW 427 461 492 520 591 626 656 kW 113 120 129 133 162 168 175 3.76 3.85 3.81 3.90 3.65 3.72 3.74 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 dB(A) 76 77 7 mm 6,170 7,250 8,3 mm 6,197 6,225 6,848 6,934 7,540 7,629 8,167 | kW 427 461 492 520 591 626 656 701 kW 113 120 129 133 162 168 175 184 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 dB(A) 76 77 78 mm 6,170 7,250 8,330 mm kg 6,197 6,225 6,848 6,934 7,540 7,649 8,167 8,222 | kW 427 461 492 520 591 626 656 701 752 kW 113 120 129 133 162 168 175 184 198 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 dB(A) 76 77 78 mm 6,170 7,250 8,330 mm kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 | kW 427 461 492 520 591 626 656 701 752 790 kW 113 120 129 133 162 168 175 184 198 205 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 dB(A) 76 77 78 7 mm 6,170 7,250 8,330 9,4 mm kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 | kW 427 461 492 520 591 626 656 701 752 790 875 kW 113 120 129 133 162 168 175 184 198 205 246 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 dB(A) 76 77 78 78 mm 6,170 7,250 8,330 9,480 mm 2,300 mm 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 | kW 427 461 492 520 591 626 656 701 752 790 875 945 kW 113 120 129 133 162 168 175 184 198 205 246 260 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 Mm 6,170 7,250 8,330 9,480 2,300 mm 2,500 kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 10,326 | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 3.73 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 mm 6,170 7,250 8,330 9,480 10,8 mm 2,300 mm 2,500 kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 10,326 10,960 | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 3.73 3.79 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 dB(A) 76 77 78 78 79 mm 6,170 7,250 8,330 9,480 10,560 mm 2,300 mm 2,500 kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 10,326 10,960 11,074 | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 3.73 3.79 3.71 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 dB(A) 76 77 78 78 78 79 </td <td>kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 3.73 3.79 3.71 3.80 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 mm 6,170 7,250 8,330 9,480 10,560 11,0 mm 6,170 7,250 8,330 9,480 10,560 11,0 mm 6,170 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 10,326 10,960</td> <td>kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.66 3.55 3.64 3.73 3.79 3.71 3.80 3.63 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 dB(A) 76 77 78 78 78 79 79 mm 6,170 7,250 8,330 9,480 10,560 11,640 mm 2,300 mm 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222</td> <td>kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 1,226 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 330 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.65 3.63 3.72 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 1.3 dB(A) 76 77 78 78 79 79 79 mm 6,170 7,250 8,330 9,480 10,560 11,640 mm 2,500 kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222<td>kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 1,226 1,296 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 330 357 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.63 3.55 3.64 3.73 3.79 3.71 3.80 3.63 3.72 3.63 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 1.3 1.5 dB(A) 76 77 78 78 79 79 79 8 mm 6,170 7,250 8,330 9,480 10,560 11,640 12,7 mm</td></td> | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.86 3.55 3.64 3.73 3.79 3.71 3.80 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 mm 6,170 7,250 8,330 9,480 10,560 11,0 mm 6,170 7,250 8,330 9,480 10,560 11,0 mm 6,170 6,225 6,848 6,934 7,540 7,629 8,167 8,222 9,203 9,344 10,182 10,326 10,960 | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.66 3.55 3.64 3.73 3.79 3.71 3.80 3.63 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 dB(A) 76 77 78 78 78 79 79 mm 6,170 7,250 8,330 9,480 10,560 11,640 mm 2,300 mm 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 1,226 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 330 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.65 3.63 3.72 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 1.3 dB(A) 76 77 78 78 79 79 79 mm 6,170 7,250 8,330 9,480 10,560 11,640 mm 2,500 kg 6,197 6,225 6,848 6,934 7,540 7,629 8,167 8,222 <td>kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 1,226 1,296 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 330 357 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.63 3.55 3.64 3.73 3.79 3.71 3.80 3.63 3.72 3.63 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 1.3 1.5 dB(A) 76 77 78 78 79 79 79 8 mm 6,170 7,250 8,330 9,480 10,560 11,640 12,7 mm</td> | kW 427 461 492 520 591 626 656 701 752 790 875 945 899 962 1,022 1,082 1,144 1,226 1,296 kW 113 120 129 133 162 168 175 184 198 205 246 260 241 254 275 285 315 330 357 3.76 3.85 3.81 3.90 3.65 3.72 3.74 3.81 3.80 3.63 3.55 3.64 3.73 3.79 3.71 3.80 3.63 3.72 3.63 °C 2.7 2.0 4.2 3.7 2.5 1.9 3.6 3.0 3.3 2.8 1.7 0.8 2.4 1.7 3.3 2.7 2.1 1.3 1.5 dB(A) 76 77 78 78 79 79 79 8 mm 6,170 7,250 8,330 9,480 10,560 11,640 12,7 mm |

 $^{^{1)}}$ Chilled water inlet/outlet: 18 °C/12 °C, outside air: 35 °C, ethylene glycol: 30 %

²⁾ Noise level at a distance of 1 m in free-field conditions (to ISO 3744)

Performance data – ESO ... AHN

| Model | | 4302 | 4602 | 4702 | 5102 | 6002 | 6602 | 6702 | 7102 | 7402 | 8002 | 8702 | 9602 | 9702 | 9802 | 10202 | 11102 | 11502 | 12602 | 13102 | 14102 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|
| Operating point 18 °C/12 °C (1) | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 425 | 463 | 491 | 522 | 585 | 636 | 648 | 708 | 757 | 814 | 861 | 945 | 882 | 958 | 1,014 | 1,088 | 1,134 | 1,236 | 1,295 | 1,389 |
| Total power consumption | kW | 113 | 124 | 128 | 136 | 158 | 172 | 176 | 194 | 199 | 214 | 234 | 257 | 230 | 252 | 266 | 287 | 303 | 330 | 342 | 368 |
| EER | | 3.75 | 3.74 | 3.84 | 3.84 | 3.69 | 3.69 | 3.68 | 3.64 | 3.80 | 3.81 | 3.69 | 3.67 | 3.84 | 3.79 | 3.81 | 3.79 | 3.74 | 3.74 | 3.79 | 3.77 |
| Noise | | | | | | | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m ⁽²⁾ | dB(A) | 74. | /62 | | 75 | / 63 | | 75 / | 75 / 64 75 / 64 | | | | | 76 / 65 | | | 76 | | 76 / | ⁄ 66 | |
| Dimensions | | | | | | | | | | | | | | | | | | | | | |
| Length | mm | 6,1 | 170 | | 7,2 | 250 | | 8,3 | 30 | | 9,4 | 180 | | 10, | 560 | | 11, | 640 | | 12, | 785 |
| Width | mm | | | | | | | | | | 2,3 | 300 | | | | | | | | | |
| Height | mm | | | | | | | | | | 2,5 | 500 | | | | | | | | | |
| Empty weight | kg | 5,446 | 5,454 | 5,852 | 5,937 | 6,544 | 6,633 | 7,013 | 7,068 | 7,761 | 7,903 | 8,740 | 8,884 | 9,241 | 9,356 | 10,288 | 10,467 | 10,505 | 10,688 | 11,129 | 11,31 |
| Operating weight | kg | 5,871 | 5,879 | 6,350 | 6,440 | 7,050 | 7,140 | 7,541 | 7,596 | 8,570 | 8,710 | 9,620 | 9,760 | 10,090 | 10,205 | 11,820 | 12,000 | 12,100 | 12,290 | 12,790 | 12,970 |

Performance data – EQO ... ASN

| Model | | 3002 | 3302 | 3702 | 4002 | 4702 | 5102 | 6002 | 6602 | 7402 | 8002 | 8702 | 9602 | 10202 | 11102 | |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--|
| Operating point 18°C/12°C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 322 | 337 | 382 | 401 | 499 | 525 | 605 | 637 | 753 | 790 | 878 | 945 | 1,001 | 1,064 | |
| Total power consumption | kW | 74 | 76 | 92 | 95 | 119 | 123 | 150 | 155 | 186 | 193 | 234 | 248 | 266 | 278 | |
| EER | | 4.35 | 4.41 | 4.16 | 4.22 | 4.20 | 4.27 | 4.05 | 4.12 | 4.05 | 4.08 | 3.76 | 3.81 | 3.77 | 3.82 | |
| Noise | | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m(2) | dB(A) | | 6 | 9 | | | 7 | 0 | | | 7 | 7 | '0 | | | |
| Dimensions | | | | | | | | | | | | | | | | |
| Length | mm | | 7,2 | 250 | | | 9,4 | -80 | | | 11,6 | 640 | | 12,785 | | |
| Width | mm | | | | | | | 2,3 | 300 | | | | | | | |
| Height | mm | | | | | | | 2,5 | 500 | | | | | | | |
| Empty weight | kg | 5,740 | 5,830 | 5,823 | 5,913 | 7,398 | 7,538 | 9,028 | 9,168 | 10,117 | 10,287 | 10,313 | 10,503 | 11,044 | 11,224 | |
| Operating weight | kg | 6,140 | 6,230 | 6,220 | 6,310 | 7,910 | 8,050 | 9,580 | 9,720 | 10,990 | 11,150 | 11,260 | 11,450 | 12,650 | 12,830 | |

Performance data – EQO ... ASF

| Model | | 3002 | 3302 | 3702 | 4002 | 4702 | 5102 | 6002 | 6602 | 7402 | 8002 | 8702 | 9602 | 10202 | 11102 |
|---|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Operating point 18°C/12°C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 322 | 337 | 382 | 401 | 499 | 525 | 605 | 637 | 753 | 790 | 878 | 945 | 1,001 | 1,064 |
| Total power consumption | kW | 77 | 79 | 95 | 98 | 123 | 127 | 154 | 159 | 191 | 199 | 239 | 254 | 271 | 284 |
| EER | | 4.18 | 4.25 | 4.03 | 4.10 | 4.07 | 4.13 | 3.94 | 4.02 | 3.94 | 3.98 | 3.67 | 3.73 | 3.69 | 3.74 |
| Temp. 100 % Free Cooling | °C | 5.9 | 5.6 | 4.6 | 4.1 | 5.0 | 4.6 | 3.3 | 2.8 | 4.1 | 3.7 | 2.6 | 1.8 | 3.2 | 2.5 |
| Noise | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m ⁽²⁾ | dB(A) | | 7 | 2 | | | 7 | '3 | | | 7 | | 75 | | |
| Dimensions | | | | | | | | | | | | | | | |
| Length | mm | | 7,2 | !50 | | | 9,4 | 180 | | | 11, | 640 | | 12, | 785 |
| Width | mm | | | | | | | 2,3 | 300 | | | | | | |
| Height | mm | | | | | | | 2,5 | 500 | | | | | | |
| Empty weight | kg | 6,707 | 6,787 | 6,790 | 6,880 | 8,793 | 8,933 | 10,423 | 10,573 | 11,879 | 12,059 | 12,075 | 12,265 | 13,106 | 13,268 |
| Operating weight | kg | 7,480 | 7,560 | 7,560 | 7,650 | 9,890 | 10,030 | 11,560 | 11,710 | 13,580 | 13,760 | 13,850 | 14,040 | 15,650 | 15,830 |

Technical data

Performance data - EQO ... AHN

| Model | | 3002 | 3302 | 3702 | 4002 | 4702 | 5102 | 6002 | 6602 | 7402 | 8002 | 8702 | 9602 | 10202 | 11102 | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--|
| Operating point 18 °C/12 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 333 | 357 | 375 | 398 | 498 | 527 | 598 | 643 | 759 | 814 | 863 | 944 | 992 | 1,071 | |
| Total power consumption | kW | 81 | 88 | 93 | 99 | 123 | 130 | 151 | 164 | 193 | 209 | 227 | 253 | 263 | 287 | |
| EER | | 4.09 | 4.08 | 4.01 | 4.01 | 4.05 | 4.06 | 3.95 | 3.92 | 3.94 | 3.91 | 3.79 | 3.73 | 3.77 | 3.73 | |
| Noise | | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m ⁽²⁾ | dB(A) | | 69 | | | | 70 | | | | 72 | | | | 0 | |
| Dimensions | | | | | | | | | | | | | | | | |
| Length | mm | | 7,2 | 250 | | | 9,4 | 180 | | 11,640 | | | | 12,785 | | |
| Width | mm | | | | | | | 2,3 | 300 | | | | | | | |
| Height | mm | | 2,500 | | | | | | | | | | | | | |
| Empty weight | kg | 5,740 | 5,830 | 5,823 | 5,913 | 7,398 | 7,538 | 9,028 | 9,168 | 10,117 | 10,287 | 10,313 | 10,503 | 11,044 | 11,224 | |
| Operating weight | kg | 6,140 | 6,220 | 6,230 | 6,310 | 7,910 | 8,050 | 9,580 | 9,720 | 10,990 | 11,150 | 11,260 | 11,450 | 12,650 | 12,830 | |
| | | | | | | | | | | | | | | | | |

Performance data - CSO ... ASN

| Model | | 541 | 621 | 801 | 1102 | 1302 | 1602 | 1902 | 2402 | 2802 | 3702 | 4002 | 4602 | 5002 | 5902 |
|---|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Operating point 18 °C/12 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 57 | 66 | 79 | 115 | 132 | 175 | 202 | 245 | 299 | 373 | 398 | 490 | 531 | 611 |
| Total power consumption | kW | 14 | 17 | 22 | 29 | 33 | 44 | 51 | 67 | 77 | 103 | 112 | 126 | 139 | 165 |
| EER | | 4.00 | 3.93 | 3.53 | 4.01 | 3.93 | 3.99 | 3.99 | 3.65 | 3.87 | 3.64 | 3.56 | 3.90 | 3.81 | 3.71 |
| Noise | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m ⁽²⁾ | dB(A) | | 66 | | | 7 | 70 | | | 72 | | | 74 | | |
| Dimensions | | | | | | | | | | | | | | | |
| Length | mm | | 2,300 | | 4,2 | 200 | 3,950 5,030 | | | | | 7,250 | | | |
| Width | mm | | | 1,300 | | | | | | | 2,300 | | | | |
| Height | mm | 2,350 | | | | 2,500 | | | | | | | | | |
| Empty weight | kg | 821 | 827 | 833 | 1,592 | 1,612 | 3,303 | 3,318 | 3,333 | 3,589 | 3,973 | 3,835 | 4,908 | 4,828 | 5,130 |
| Operating weight | kg | 837 | 844 | 858 | 1,633 | 1,668 | 3,362 | 3,395 | 3,416 | 3,719 | 4,147 | 4,020 | 5,177 | 5,101 | 5,425 |
| | | | | | | | | | | | | | | | |

 $^{^{1)}}$ Chilled water inlet/outlet: 18 °C/12 °C, outside air: 35 °C, ethylene glycol: 30 %

²⁾ Noise level at a distance of 1 m in free-field conditions (to ISO 3744)

Performance data - CSO ... ASF

| Model | | 541 | 621 | 801 | 1102 | 1302 | 1602 | 1902 | 2402 | 2802 | 3702 | 4002 | 4602 | 5002 | 5902 |
|----------------------------------|-------|------|-------------|-------|-------|-------|-----------|-------|-------|-------|-------|-------------|-------|-------|-------|
| Operating point 18 °C/12 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 57 | 66 | 79 | 115 | 132 | 175 | 202 | 245 | 299 | 373 | 398 | 490 | 531 | 611 |
| Total power consumption | kW | 15 | 17 | 23 | 30 | 34 | 45 | 52 | 69 | 80 | 105 | 114 | 130 | 144 | 169 |
| EER | | 3.87 | 3.82 | 3.46 | 3.88 | 3.82 | 3.84 | 3.86 | 3.56 | 3.74 | 3.55 | 3.48 | 3.77 | 3.70 | 3.62 |
| Temp. 100 % Free Cooling | °C | 5.3 | 4.2 | 2.3 | 5.3 | 4.2 | 4.4 | 3.2 | 1.3 | 5.0 | 2.3 | 1.6 | 4.3 | 3.6 | 2.2 |
| Noise | | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m | dB(A) | | 68 | | 6 | 69 | 74 | | | 76 | | | 78 | | |
| Dimensions | | | | | | | | | | | | | | | |
| Length | mm | | 2,300 | | 4,2 | 200 | 3,950 5,C | | | | | 5,030 7,250 | | | |
| Width | mm | | 1,300 2,300 | | | | | | | | | | | | |
| Height | mm | | | 2,350 | | | | | | | 2,500 | | | | |
| Empty weight | kg | 928 | 934 | 940 | 1,737 | 1,757 | 3,607 | 3,622 | 3,637 | 4,037 | 4,421 | 4,283 | 5,660 | 5,580 | 5,882 |
| Operating weight | kg | 997 | 1,005 | 1,018 | 1,885 | 1,919 | 3,784 | 3,817 | 3,838 | 4,338 | 4,765 | 4,639 | 6,217 | 6,142 | 6,466 |

Performance data - CQO ... ASN

| Cooling capacity kW 55 62 79 110 137 169 193 250 286 352 418 471 500 Total power consumption kW 15 18 20 30 33 44 52 65 78 107 107 127 14 EER 3.69 3.50 3.93 3.71 4.14 3.85 3.73 3.83 3.65 3.28 3.92 3.71 3.5 Noise level at a distance of 1 m ⁽²⁾ dB(A) 63 64 66 68 69 Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,820 | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling capacity kW 55 62 79 110 137 169 193 250 286 352 418 471 508 Total power consumption kW 15 18 20 30 33 44 52 65 78 107 107 127 14 EER 3.69 3.50 3.93 3.71 4.14 3.85 3.73 3.83 3.65 3.28 3.92 3.71 3.5 Noise level at a distance of 1 m ⁽²⁾ dB(A) 63 64 66 68 69 Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 2,350 2,500 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,82 | Model | | 541 | 621 | 802 | 1102 | 1302 | 1602 | 1902 | 2402 | 2802 | 3702 | 4002 | 4602 | 5002 |
| Total power consumption kW 15 18 20 30 33 44 52 65 78 107 107 127 14 EER 3.69 3.50 3.93 3.71 4.14 3.85 3.73 3.83 3.65 3.28 3.92 3.71 3.5 Noise Noise level at a distance of 1 m ⁽²⁾ dB(A) 63 64 66 68 69 Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 1,300 2,300 Height mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,589 3,973 4,788 4,908 4,820 | Operating point 18 °C/12 °C (1) | | | | | | | | | | | | | | |
| Noise Nois | Cooling capacity | kW | 55 | 62 | 79 | 110 | 137 | 169 | 193 | 250 | 286 | 352 | 418 | 471 | 508 |
| Noise level at a distance of 1 mt ⁽²⁾ dB(A) 63 64 66 68 69 Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 1,300 2,300 Height mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,82 | Total power consumption | kW | 15 | 18 | 20 | 30 | 33 | 44 | 52 | 65 | 78 | 107 | 107 | 127 | 141 |
| Noise level at a distance of 1 m ⁽²⁾ dB(A) 63 64 66 68 69 Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 1,300 2,300 Height mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,82 | EER | | 3.69 | 3.50 | 3.93 | 3.71 | 4.14 | 3.85 | 3.73 | 3.83 | 3.65 | 3.28 | 3.92 | 3.71 | 3.59 |
| Dimensions Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 1,300 2,300 Height mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,82 | Noise | | | | | | | | | | | | | | |
| Length mm 2,300 4,200 3,950 5,030 7,250 Width mm 1,300 2,300 Height mm 2,350 2,500 Emptyweight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,82 | Noise level at a distance of 1 m(2) | dB(A) | 6 | 3 | 6 | 64 | 66 | | | | 68 | | 69 | | |
| Width mm 1,300 2,300 Height mm 2,350 2,500 Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,973 4,788 4,908 4,820 | Dimensions | | | | | | | | | | | | | | |
| Height mm 2,350 2,500 Emptyweight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,589 3,973 4,788 4,908 4,82 | Length | mm | 2,3 | 300 | 4,2 | 200 | | 3,950 | | | 5,030 | | | 7,250 | |
| Empty weight kg 821 827 1,395 1,612 3,303 3,318 3,333 3,589 3,589 3,973 4,788 4,908 4,82 | Width | mm | | 1,3 | 300 | | | | | | 2,300 | | | | |
| | Height | mm | | 2,3 | 350 | | 2,500 | | | | | | | | |
| Operating weight kg 837 844 1.429 1.651 3.356 3.374 3.406 3.668 3.714 4.139 4.965 5.164 5.08 | Empty weight | kg | 821 | 827 | 1,395 | 1,612 | 3,303 | 3,318 | 3,333 | 3,589 | 3,589 | 3,973 | 4,788 | 4,908 | 4,828 |
| | Operating weight | kg | 837 | 844 | 1,429 | 1,651 | 3,356 | 3,374 | 3,406 | 3,668 | 3,714 | 4,139 | 4,965 | 5,164 | 5,089 |

Performance data - CQO ... ASF

| Model | | 541 | 621 | 802 | 1102 | 1302 | 1602 | 1902 | 2402 | 2802 | 3702 | 4002 | 4602 | 5002 |
|---|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Operating point 18°C/12°C ⁽¹⁾ | | | | | | | | | | | | | | |
| Cooling capacity | kW | 55 | 62 | 78 | 110 | 137 | 169 | 193 | 250 | 286 | 352 | 418 | 471 | 508 |
| Total power consumption | kW | 15 | 18 | 22 | 30 | 34 | 45 | 53 | 68 | 81 | 110 | 110 | 131 | 145 |
| EER | | 3.58 | 3.41 | 3.63 | 3.67 | 3.97 | 3.73 | 3.63 | 3.70 | 3.55 | 3.21 | 3.79 | 3.61 | 3.50 |
| Temp. 100 % Free Cooling | °C | 5.2 | 4.0 | 6.4 | 3.7 | 4.7 | 3.0 | 1.6 | 4.1 | 2.8 | 0.4 | 3.8 | 2.6 | 1.8 |
| Noise | | | | | | | | | | | | | | |
| Noise level at a distance of 1 m ⁽²⁾ | dB(A) | 6 | 6 | 6 | 5 | | 71 | | | 71 | | 73 | | |
| Dimensions | | | | | | | | | | | | | | |
| Length | mm | 2,3 | 300 | 4,2 | 200 | | 3,950 | | | 5,030 | | | 7,250 | |
| Width | mm | 1,3 | 300 | 1,3 | 300 | 2,300 | | | | | | | | |
| Height | mm | 2,3 | 350 | 2,3 | 350 | | | | | 2,500 | | | | |
| Empty weight | kg | 928 | 934 | 1,576 | 1,752 | 3,607 | 3,622 | 3,637 | 4,037 | 4,037 | 4,421 | 5,540 | 5,660 | 5,580 |
| Operating weight | kg | 997 | 1005 | 1,719 | 1,904 | 3,771 | 3,803 | 3,824 | 4,317 | 4,363 | 4,751 | 6,066 | 6,193 | 6,199 |

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