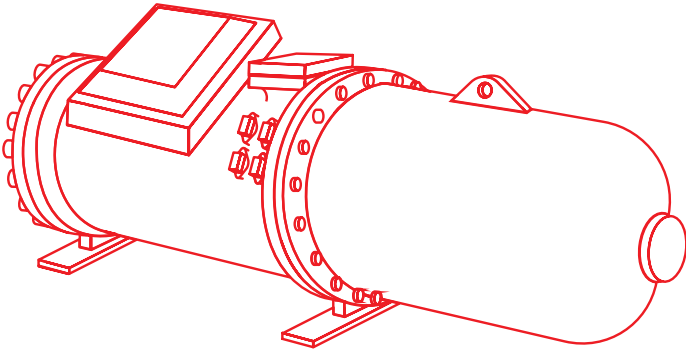


STULZ

CLIMATE. CUSTOMIZED.



STULZ Explorer WSA

**Air-cooled chillers
for a cooling capacity of 370 to 1260 kW**

STULZ is a global company with headquarters in Hamburg, Germany, 19 subsidiaries, 7 production sites and distribution and service partners in more than 140 countries.



More than 40 years' experience

Since its foundation in 1947, STULZ has evolved into one of the world's leading system suppliers of air conditioning technology. The company has undergone continuous expansion since 1974 in Germany and abroad with the development, production, installation and service of precision air conditioning units, chillers and humidifying systems for mission-critical applications.

Intelligent solution for mission-critical applications

The WSA Explorer expands the series of efficient STULZ chillers with applications in the industrial, IT and comfort air conditioning sectors.

The Explorer series combines high cooling capacity with compact dimensions.



Applicable to all WSA Explorer chillers:

Refrigerant R134a

All WSA Explorer units use R134a refrigerant that does not damage the ozone layer. In addition, it has lower global warming potential than conventional refrigerants.

Outdoor installation

The units are designed for outdoor installation. The electronic components within the electrical cabinet are protected in accordance with protection type IP54. With the available options, the operational limits of the chiller can be expanded both in the direction of particularly low and also particularly high outside temperatures.



Low noise

The WSA Explorer units are available in a low-noise version.

This version works particularly quietly due to sound insulation of the compressors.

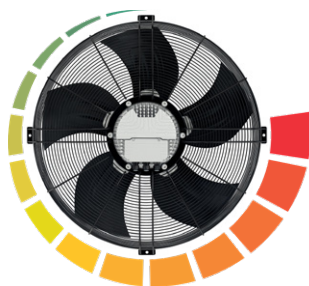
The compressors, fans and pumps are the only noise sources with the WSA Explorer. Depending on operating conditions, the noise level of the chiller can be reduced by up to 10 dB.

To do this, the maximum fan speed is restricted during operation. Furthermore, cooling capacity that is comparable with the standard version can be attained with the low-noise version due to the matching of condensers and fans.

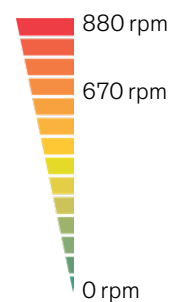
Restriction of fan speed

To reduce noise emission, the fan speed is reduced by approx. 30% by the use of a star-delta circuit.

Standard version



Low-noise version



Acoustic insulation

In the WSA Explorer, the compressors and pumps are insulated by a polyester fiber-coated housing for sound insulation.

This housing around the compressor is made of metal plate painted in the color of the chiller. Despite the additional housing, the control box of the compressor remains easily accessible.

Applications

Data center and telecommunications



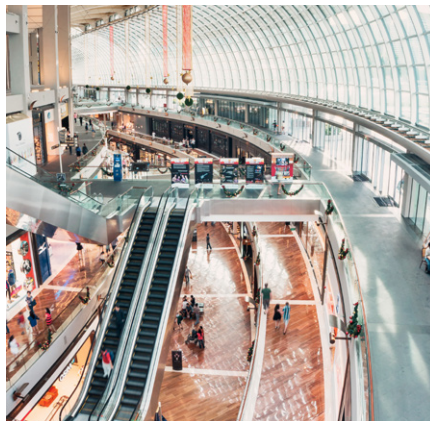
Outside air temperature: -20°C to $+45^{\circ}\text{C}$
Chilled water: Inlet $+12^{\circ}\text{C}$ to $+22^{\circ}\text{C}$
Chilled water: Outlet $+7^{\circ}\text{C}$ to $+18^{\circ}\text{C}$

Process and industrial cooling



Outside air temperature: -20°C to $+45^{\circ}\text{C}$
Chilled water: Inlet $+0^{\circ}\text{C}$ to $+30^{\circ}\text{C}$
Chilled water: Outlet -5°C to $+25^{\circ}\text{C}$

Comfort air conditioning



Outside air temperature: -20°C to $+45^{\circ}\text{C}$
Chilled water: Inlet $+12^{\circ}\text{C}$ to $+20^{\circ}\text{C}$
Chilled water: Outlet -7°C to $+15^{\circ}\text{C}$

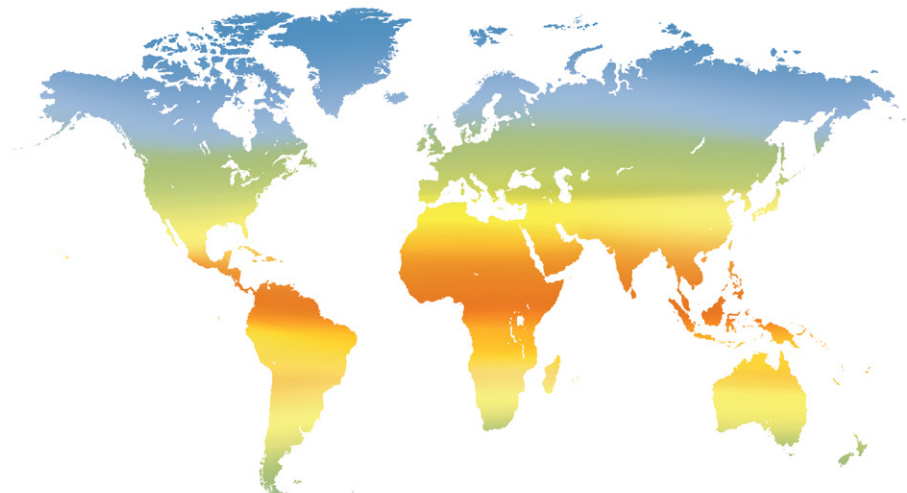
Free Cooling

The Free Cooling circuit of the WSA Explorer comprises copper-aluminum heat exchangers. Two 2-way valves controlled by the STULZ C2020 controller regulate the flow of the chilled water through the Free Cooling coil.

Operating costs can be reduced by use of the 2-way valves due to comparatively low pressure drops in the chilled water circuit.

In addition, operating times and compressor utilization can be minimized by use of a Free Cooling circuit.

When outside temperatures drop, the 2-way valves are opened to allow cooling of the chilled water via the outside air. In addition, if outside temperatures continue to fall, the speed of the fans is reduced to provide the exact amount of required cooling capacity.



Temperate climate zones

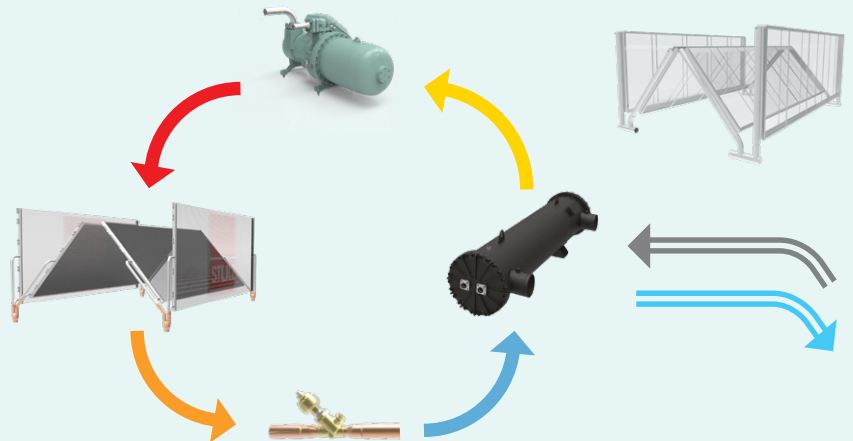
The energy saving of Indirect Free Cooling can be fully exploited in temperate climate zones. Electricity consumption for the provision of air conditioning for data centers is reduced by up to 60%.





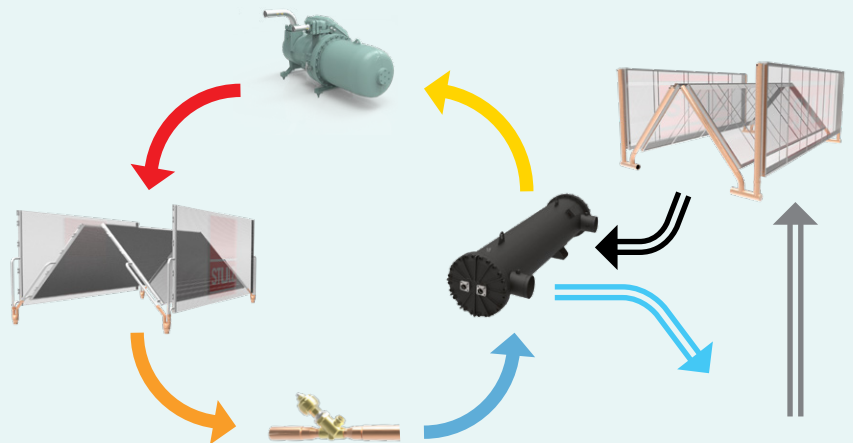
Compressor operation

In the case of high outside temperatures, the throughflow of the chilled water through the Free Cooling coil is blocked. The entire cooling capacity is generated with the help of the compressor.



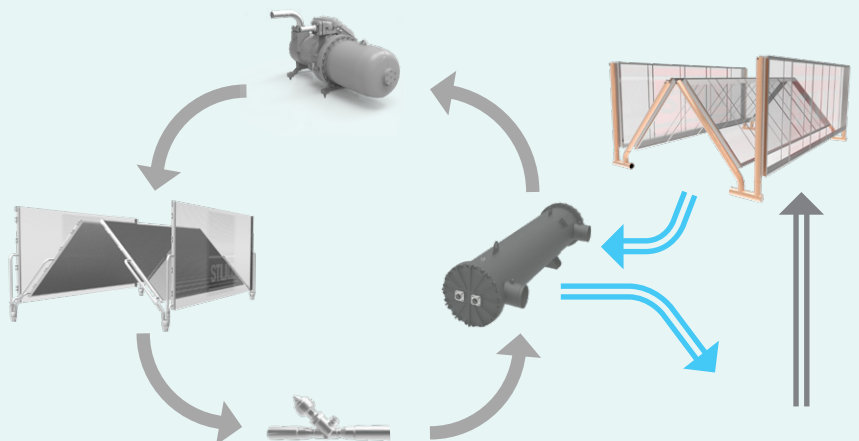
Mixed mode

In the case of outside temperatures below the water inlet temperature, part of the cooling capacity is generated via the Free Cooling coil. The residual heat is dissipated via the refrigerant circuit.



Free Cooling

Depending on the water and outside temperature, the chilled water is exclusively cooled with the help of the outdoor temperature. Only the fans of the chiller are operated. The energy requirement is thus significantly reduced and the operating costs are minimized.

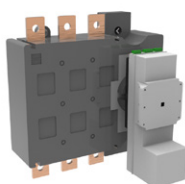


Options



Compressor soft start

This option reduces the starting current to decrease the load on the compressors and the electrical supply line upon start-up.



Automatic transfer switch

Three-phase switch without neutral with automatic or manual change-over. Special functions for mains applications / power generator, such as e.g. functions to check the switchability or the voltage and frequency of the mains power supply. The switch is mounted in the electrical cabinet and has auxiliary contacts to display the line switching.



Circuit breakers

Circuit breakers guarantee increased protection against current spikes that could otherwise damage downstream components such as e.g. compressors.



Energy meter

Option to measure the power consumption of the entire chiller, mounted in the electrical cabinet. The unit has an LCD display to show the values for current and voltage, moment values of the 3 phases and also historical maximum and average values. In addition, the energy meter has the option of transmitting the data via ModBus RTU.



Condensers for phase compensation

Selected condensers to optimize phase displacement within a $\cos \varphi$ value of 0.95.



Flow monitor

Fluid circulation in the water circuit is monitored by the flow monitor. The flow monitor is mounted at the outlet side and is connected to the C2020 controller. An alarm is triggered to prevent damage to the chiller as soon as the minimum flow speed is fallen below.



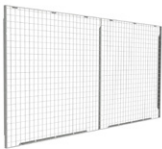
Frost protection heating

The electric heating is controlled by the C2020 controller and prevents freezing of the hydraulic circuit. For operation under extreme conditions, the quantity of ethylene glycol or propylene glycol in the chilled water circuit has to be adapted correspondingly.



Corrosion protection

Protection of the heat exchangers in the event of aggressive outside air. This coating is present as standard for chillers with Free Cooling.



Coil protective grilles

Coil protective grilles protect the Free Cooling coils and condensers from coarse contamination and vandalism. The grille is made from powder-coated and galvanized sheet metal, color RAL 9005.



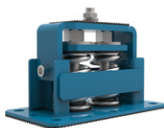
Shipping without refrigerant

The chiller is delivered without refrigerant and is instead filled with nitrogen. The gas filling is evident from the rating plates on the chiller.



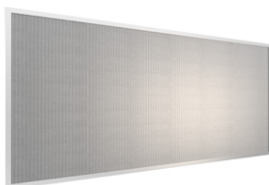
Container

The chiller can be transported in a 40 foot high cube container.



Anti-vibration mounts

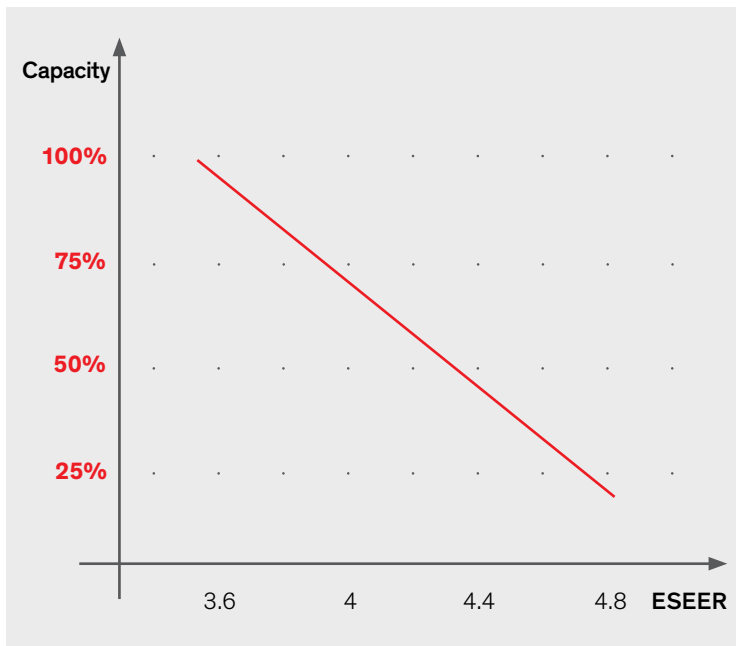
Anti-vibration mounts that are specially adapted to the chiller prevent transmission of vibration. The anti-vibration mounts are delivered separately and must be installed by the customer.



Dust protection filter

Metal filters that prevent contamination of the condensers from dust in the air and hence guarantee the full preservation of energy efficiency. They are attached by two brackets on the condenser inlet.

Energy efficiency



The WSA Explorer units were designed and developed to cover a broad spectrum of applications (from the process industry and hospitals up to data centers). The chillers are available in high energy efficiency classes (class A or B). They can be operated under extreme outside conditions or in configurations that work extremely precisely thanks to application-specific temperature controls. In the case of almost all applications, the thermal loads and outside temperatures can be set out very variably. The WSA Explorer chillers are optimally suited to any outdoor and load conditions and attain high ESEER values that can also exceed a value of 5.

EER Energy Efficiency Ratio (coefficient of performance)

The energy efficiency ratio (EER) of a chiller describes the ratio of output cooling capacity to electric power consumption at a certain operating point. The EER value is e.g. calculated using an outside air temperature of 35 °C with a water inlet temperature of 12 °C and a water outlet temperature of 7 °C.

$$\text{EER} = \frac{\text{cooling capacity}}{\text{power consumption}}$$

ESEER European Seasonal Energy Efficiency Ratio (coefficient of performance with partial load conditions in cooling mode)

The coefficient of performance with partial load conditions in cooling mode is a coefficient that is used to specify the efficiency of air conditioning units or chillers. The ESEER is specified by the certification body Eurovent Certification Company.

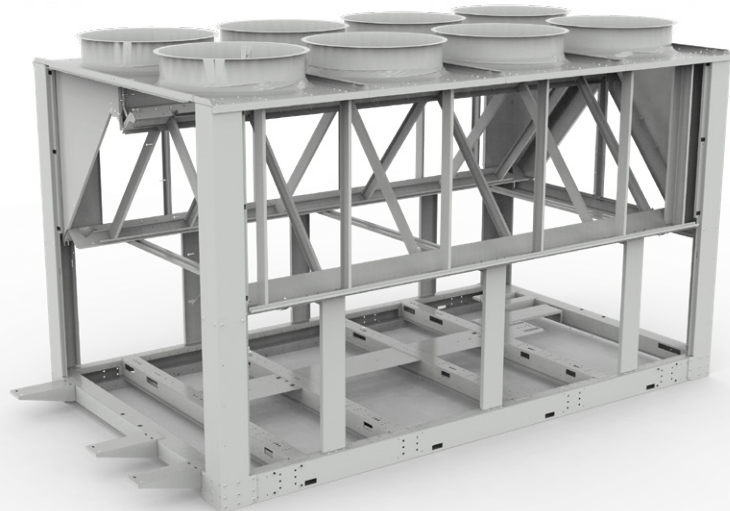
$$\text{ESEER} = 0.03 \times \text{EER}_{100\%} + 0.33 \times \text{EER}_{75\%} + 0.41 \times \text{EER}_{50\%} + 0.23 \times \text{EER}_{25\%}$$

IPLV Integrated Part Load Value

The IPLV is a coefficient that was developed by the American Air Conditioning, Heating and Refrigeration Institute (AHRI). This coefficient usually serves to specify the performance of chillers under different conditions. Unlike the EER (Energy Efficiency Ratio) or the COP (Coefficient of Performance) that specify efficiency at full load, this coefficient specifies the efficiency of the chiller in

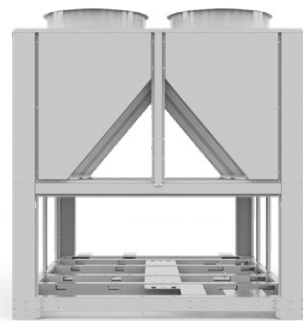
$$\text{IPLV} = 0.01 \times \text{EER}_{100\%} + 0.42 \times \text{EER}_{75\%} + 0.45 \times \text{EER}_{50\%} + 0.12 \times \text{EER}_{25\%}$$

Design



The basic structure of the units is made from powder-coated, galvanized steel. Powder-coated and galvanized sheet metal parts are used for covers to seal condensers, compressor housing and electrical cabinet. Transportation eyes on the base frame allow safe transportation of the chiller. The bolted-on eyes can be removed after installation or for transportation of the chiller in a container. Pre-defined bores allow the easy and rapid installation of anti-vibration mounts.

Standard color: RAL 7035



Rear side



Right side

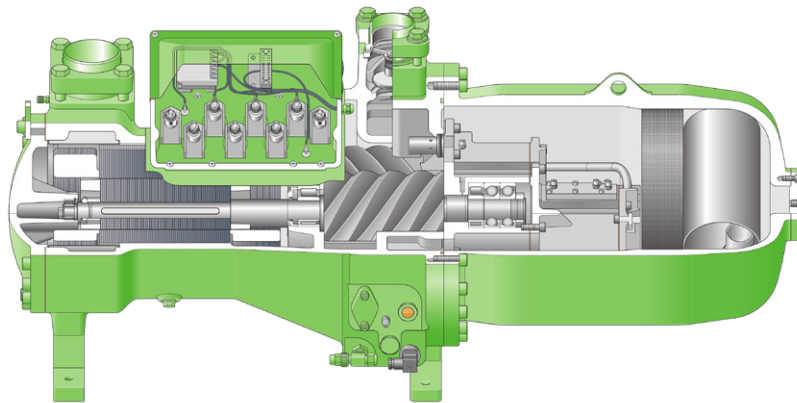
+ Key features:

- **Basic structure made from metal**
- **Epoxy paint** on the entire metal structure
- **Corrosion resistance** of all components
- **Suitable for outdoor installation**
- **Predefined bores for anti-vibration mounts**



Semi-hermetic screw compressors

The WSA chillers are based on semi-hermetic screw compressors. The refrigerant is continuously compressed by the compressor design with double screws. In turn, this causes a reduction in the mechanical load on the components, which increases the product's service life.



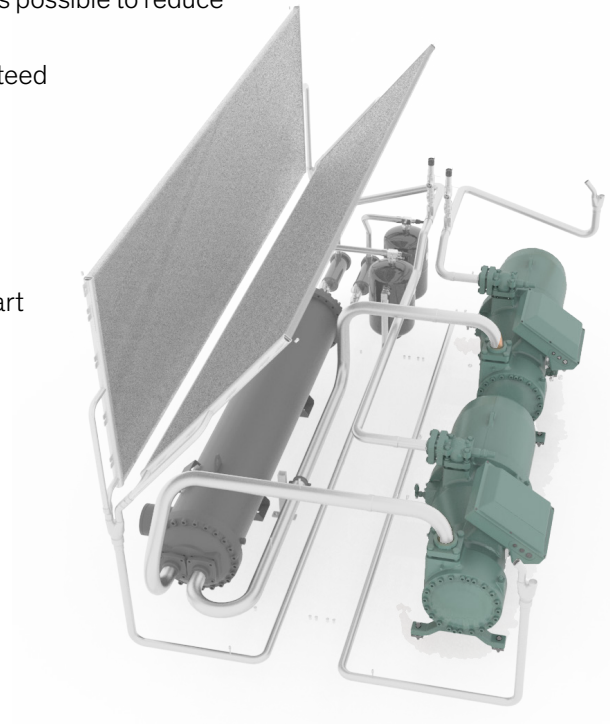
Butterfly valves

The degree of compression of the refrigerant is continuously adapted by means of butterfly valves. In this way, it is possible to reduce the cooling capacity of the chiller.

Sufficient cooling of the compressor is guaranteed by the refrigerant that is drawn in.

Compressor start

The compressors can be supplied with part-winding start (WSA160 – 320) or star-delta start circuits (WSA 360 – 640).

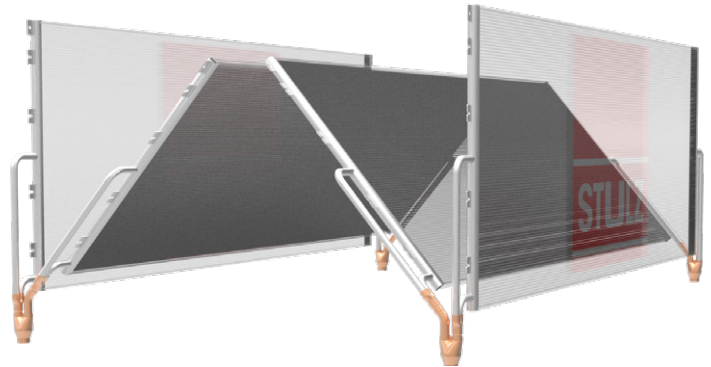


Condensers

- Microchannel
- Aluminum
- W geometry
- 2 independent refrigerant circuits

W geometry

The **microchannel condensers** are made entirely from aluminum and allow the chiller to have high energy efficiency while retaining small dimensions. The Free Cooling and DX surfaces can be maximized by means of the W geometry. They thus provide early switching points in Mix and Free Cooling operation.

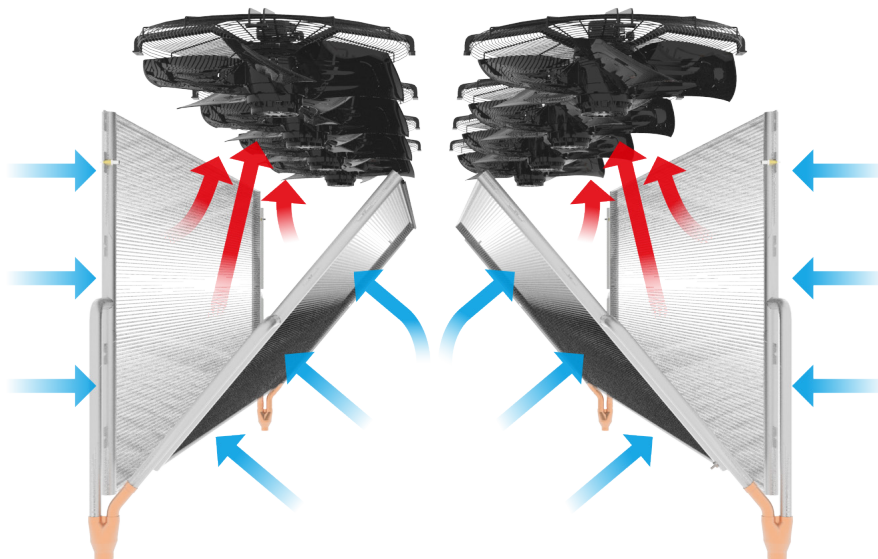


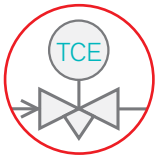
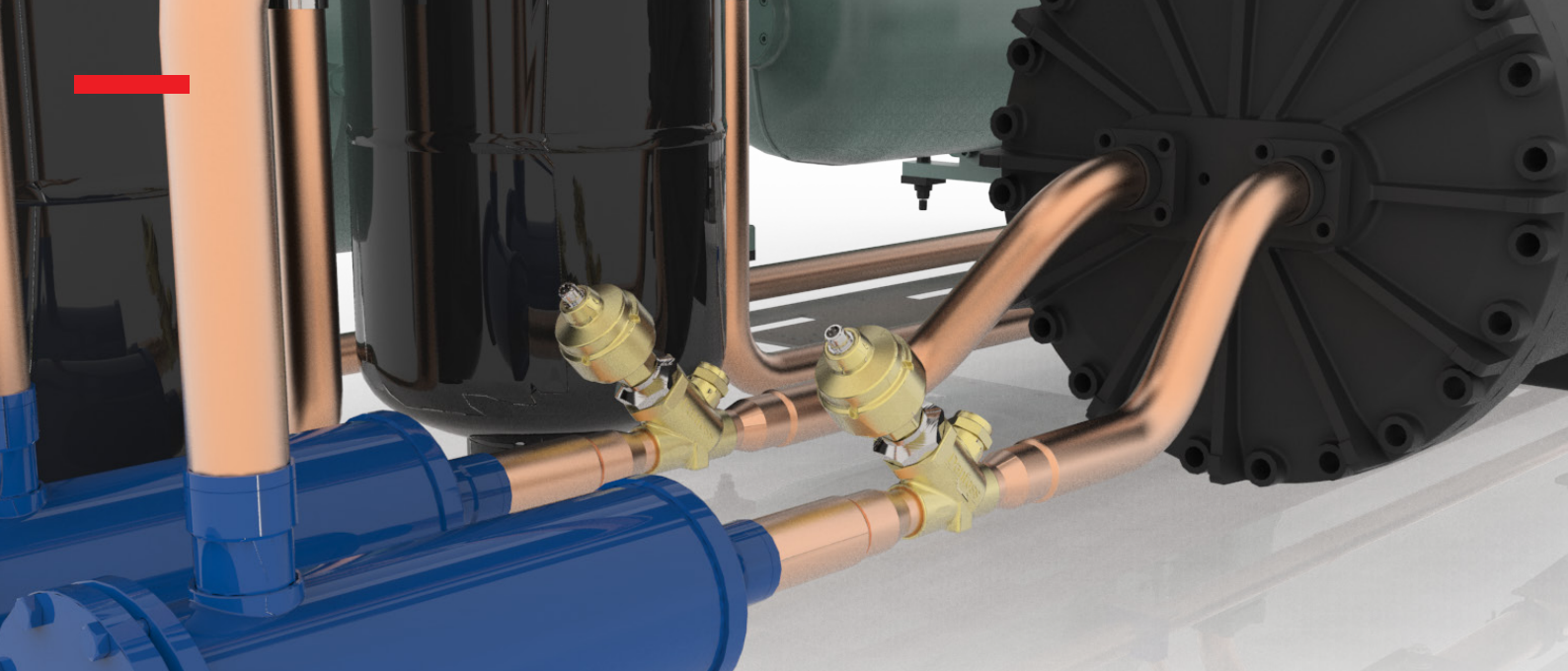
Axial fans

Axial fans from ebm-papst with phase angle control are fitted to the WSA Explorer as standard.

The fans are controlled by the STULZ C2020 controller, wherein the respective best degree of condensation can be guaranteed in each refrigerant circuit. The fans cannot be connected to a ventilation duct.

Air flow



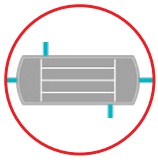


Electronic expansion valve

Evaporation of the refrigerant is precisely controlled by the most modern expansion valves. Evaporation of the refrigerant via the expansion valve and hence heat exchange between the refrigerant and the chilled water in the evaporator is optimized with the help of pressure sensors, temperature sensors and the STULZ C2020 controller. This ensures that the upstream and downstream components do not overheat or freeze.

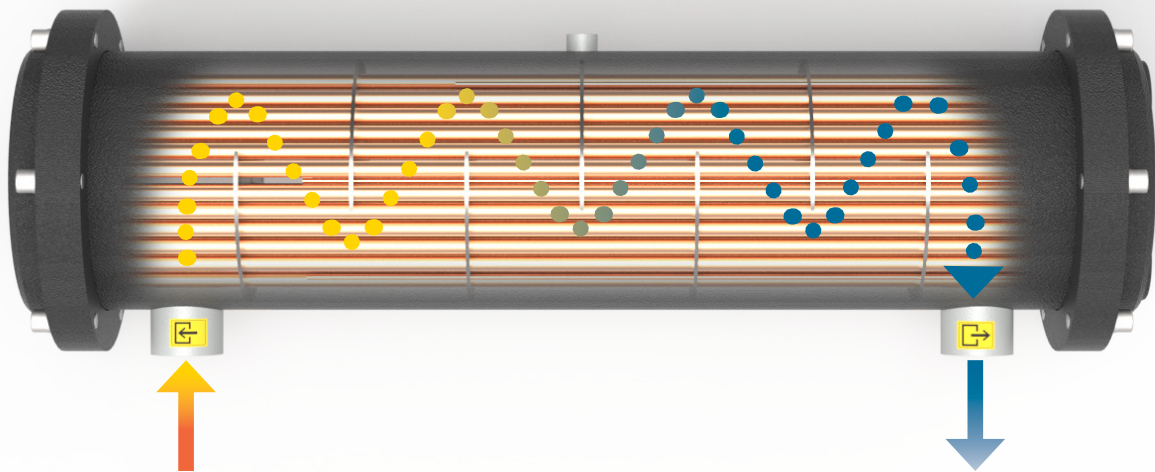
+ Key features:

- **Extended working range** in comparison with conventional expansion valves
- **Protection against fluid return**
Pressure sensors and temperature sensors are used to regulate the evaporation temperature and overheating in an energetically-optimized manner.
- **Internal UPS for the expansion valve**
In the event of a power supply failure, the valve is closed completely to avoid fluid refrigerant reaching the evaporator.



Shell and tube evaporator

The shell and tube evaporator comprises copper pipes and a steel outer jacket. Here, the evaporator comprises two completely separate refrigerant circuits and a chilled water circuit that are arranged in accordance with the counterflow principle. All heat exchangers have been chosen with regard to low pressure drops.



+ Key features:

- **Two refrigerant circuits**
- **One chilled water circuit**
- **Steel jacket and copper pipes**
- **Completely insulated**
The insulation material is resistant to the influences of weathering and UV radiation.
- **Differential pressure monitor (standard)**, to continuously monitor the throughflow of the chilled water and to protect the evaporator from damage by freezing.
- **Victaulic® connections** or flange connections (optional) for rapid installation
- **Low pressure drops**

Controller STULZ C2020



The WSA chillers are controlled by the STULZ C2020 controller, which was specially developed to exploit the full performance of each individual component and to control this in an optimum manner due to the high computing power and storage capacity.

The numerous adjustable parameters and available functions are combined onto a few concise screens, via which the user can control the entire chiller.

Touch display

The STULZ C2020 has a 7-inch LCD touch display and can be operated intuitively via a clear menu structure. It is possible to check the functional status, operating hours, alarm progression and alarm signals of the chiller via the controller. In addition, the controller serves for switching on and off, and to adjust the operating parameters of the chiller.

The menus are available in different languages: Italian, English, German, French, Russian and Spanish.

- Protection type on the front side **IP66** for outdoor use
- Operating thresholds from **- 20 to + 60 °C**
- **Acoustic signal**
- **4 display LEDs**

The C2020 is equipped with the following pre-installed functions:

- **Series circuit** to connect several chillers and to manage the components as with one single chiller
- **Redundancy** to switch to another chiller if one chiller fails, to ensure uninterrupted operation
- **Emergency cooling** to switch redundant chillers in the same line in the event that the active chiller is not in a position to provide the necessary cooling capacity
- **ModBus RTU** to control and read out the chiller data
- **STULZ protocol** to connect the chiller with monitoring systems from STULZ
- **Anti-frost protection**

The C2020 manages:

- **Compressors**
Starting, switching off and controlling the output within prescribed thresholds
- **Electronic expansion valves**
Control of the evaporation of refrigerant to guarantee the required cooling capacity with minimal electrical power consumption of the components
- **Pumps (option)**
The controller manages redundant operation when using two pumps to guarantee uniform distribution of the operating hours between the pumps

Electrical cabinet



The electrical cabinet is on the front side of the chiller and was generously dimensioned so that all deliverable options as well as customer-specific adaptations can be installed in it. The components therein control the entire functional range of the chiller. The electrical cabinet has two or three doors, is ventilated and equipped with a load-break switch including door blocking and a display for the controller.

The chiller is supplied with power via a three-phase terminal (400 V / 50 Hz or 460 V / 60 Hz). Secondary units are additionally supplied via an internal 230 V transformer.

Components and design fulfill the requirements of CEI EN 60335-2-40, CEI EN 61000-6-1/2/3/4 and EMC Directive (2014/30/EU).



Key features

- Protection type **IP54**
- **Generous dimensions**, so that all available options as well as customer adaptations can be integrated
- **Touch display** with transparent protective cover
- **Load-break switch including door blocking** to guarantee the safety of the user
- **Visual separation of the load and control circuit**

Hydraulics

The following hydraulic options are available for the WSA chiller:

- 1 pump with upstream and downstream shut-off valves for easy maintenance
- 2 pumps with upstream and downstream shut-off valves
- 1 pump with inverter control and upstream and downstream shut-off valves
- 2 redundant pumps, each with independent inverter and upstream and downstream shut-off valves

The inverter controller is supplied as standard with balanced pressure control.

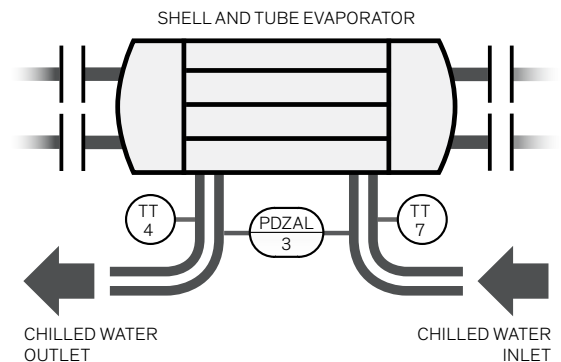
A variant with constant output is available on request.

Victaulic® connections

All hydraulic connections are Victaulic® connections for easy installation and maintenance.

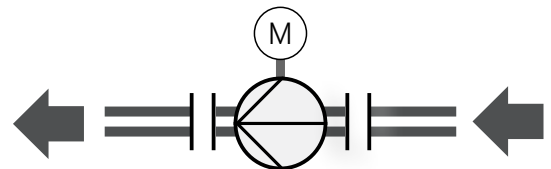
Optionally also available as flange connection.

Without pump (standard)



With 1 pump

The pump is available with **inverter control**.

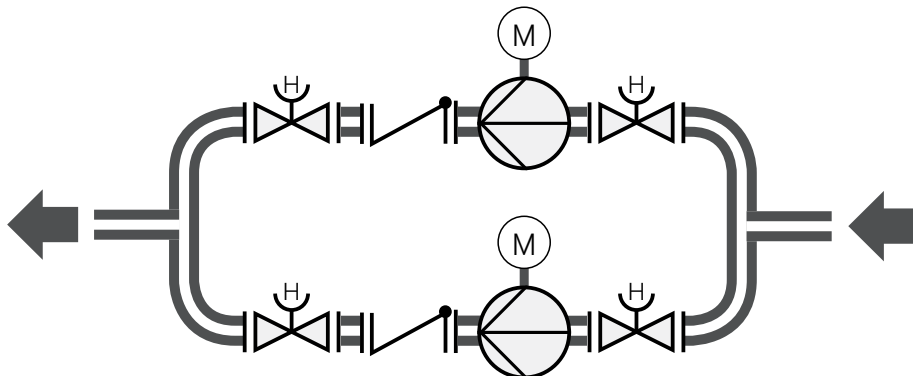


With 2 pumps

Redundant pumps: One pump is in operation while the second is in standby mode.

In the event of a malfunction of the first pump, the second is activated by the C2020.

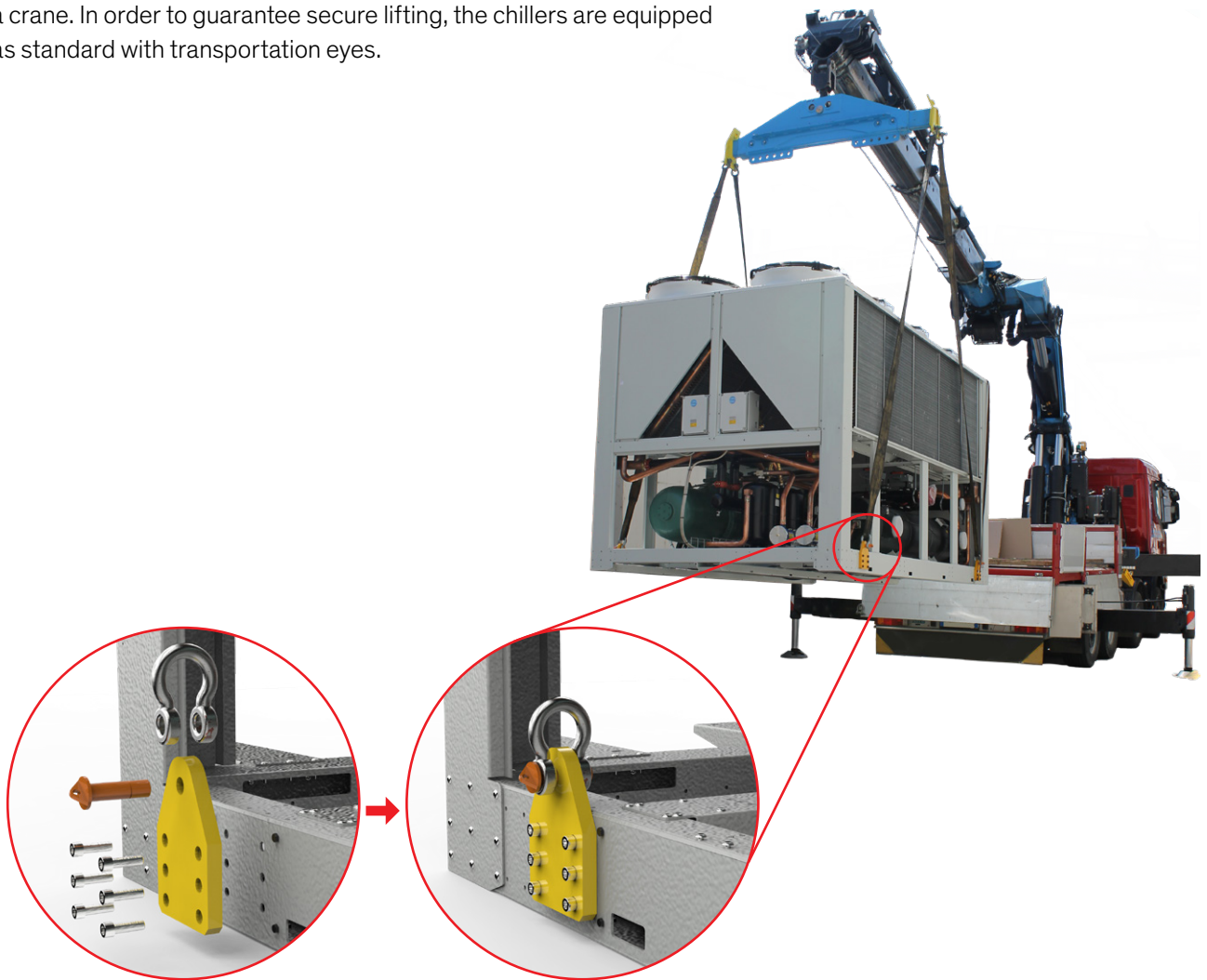
Each pump is equipped with upstream and downstream shut-off valves for easy maintenance.



Transport

Lifting

The WSA Explorer units can be lifted via a load lifting beam by using a crane. In order to guarantee secure lifting, the chillers are equipped as standard with transportation eyes.



Shipping in containers

The WSA Explorers can be transported in containers with a length of 40 feet. To do this, two metal carriers must be installed under the chiller and the transport eyes removed.



Highest level of operational reliability

The focus was on maximum reliability during development and construction. This not only guarantees the problem-free condition of the chiller during transportation on the road or in a container, it also ensures reliable operation over many years.

The arrangement of the components allows easy maintenance.

The chiller can be adapted to different thermal loads via the refrigerant circuit with screw compressors including output slider.

The quality of STULZ

All chillers have been developed and produced in accordance with the following directives and standards:

- UNI EN ISO 9001: Quality management system
- UNI EN ISO 14001: Environmental management
- 2006/42/EC: Machinery directive
- 2014/35/EU: Low-voltage directive
- 2014/30/EU: EMC directive
- 2014/68/EU: Pressure equipment directive
- EN 378-1, 2, 3, 4: Chilling systems and heat pumps
- DIN EN ISO 12100: Safety of machines
- EN ISO 13857: Safety of machines – safety clearances
- EN 60204-1: Safety of machines – electrical equipment
- EN 61000-6-2: Immunity for industrial areas
- EN 61000-6-4: Generic standards – emitted interference for industrial areas

In all phases of project planning and production, maintenance of these directives and laws was checked by an independent quality system.





All components that are installed in STULZ Explorer chillers are subjected to quality control.

The finished chillers are subjected to functional testing and leakage tests as standard.

These include:

- Leakage test of the refrigerant and hydraulic circuit
- Checking of control parameters of the STULZ C2020
- Check of the calibration of sensors and gages
- Test of functions and alarms

The inspection certificate is contained in the documentation package.

Technical data

Standard

WSA-XXX		160	220	250	280	300	320	360	380	440	480	640
Cooling capacity	kW	376	482	568	631	673	739	845	912	1032	1122	1260
Power consumption	kW	121	164	178	203	226	237	271	294	354	351	431
EER		3.1	2.94	3.18	3.11	2.97	3.12	3.12	3.1	2.91	3.19	2.92
ESEER (ISO14511)		4.43	4.65	4.52	4.58	4.45	4.53	4.76	4.65	4.66	4.64	4.53
Filling quantity of refrigerant	kg	67+67	86+86	101+101	112+112	119+119	131+131	149+149	161+161	183+183	198+198	223+223
Sound power ¹	dB(A)	97	98.5	97.3	97.7	97.7	94.2	98.9	98.9	99.8	100.7	102

Low noise

WSA-XXX		160	220	250	280	300	320	360	380	440	480	640
Cooling capacity	kW	360	442	534	589	627	689	780	851	958	1053	1167
Power consumption	kW	122	175	183	212	239	245	283	307	379	363	453
EER		2.94	2.52	2.91	2.77	2.61	2.81	2.75	2.77	2.52	2.9	2.57
ESEER (ISO14511)		4.59	4.64	4.65	4.66	4.49	4.64	4.78	4.67	4.59	4.72	4.53
Filling quantity of refrigerant	kg	67+67	86+86	101+101	112+112	119+119	131+131	149+149	161+161	183+183	198+198	223+223
Sound power ¹	dB(A)	89	90.6	92	89.8	89.8	93.9	91	91	91.8	92.8	94.1

Free Cooling

WSA-XXX		160	220	250	280	300	320	360	380	440	480	640
Cooling capacity	kW	366	469	552	594	652	721	822	888	1004	1088	1225
Power consumption	kW	126	172	185	212	237	247	283	306	370	366	451
EER		2.91	2.72	2.99	2.81	2.76	2.92	2.91	2.91	2.72	2.97	2.72
ESEER (ISO14511)		4.33	4.39	4.5	4.39	4.34	4.44	4.55	4.41	4.3	4.49	4.4
Filling quantity of refrigerant	kg	67+67	86+86	101+101	112+112	119+119	131+131	149+149	161+161	183+183	198+198	223+223
Sound power ¹	dB(A)	97	98.5	97.4	108.2	97.7	93.5	98.9	98.9	99.7	100.7	102

Comment

All data apply with full loading of the unit (pump was not taken into consideration).

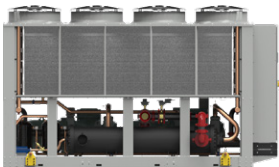
Outside air: +35 °C; chilled water inlet: +12 °C, chilled water outlet: +7 °C

¹ In accordance with DIN EN ISO 3744

Dimensions

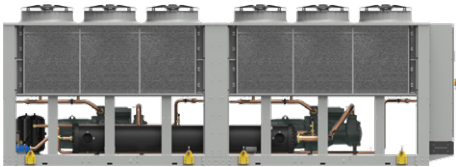


8 fans
370 – 480 kW



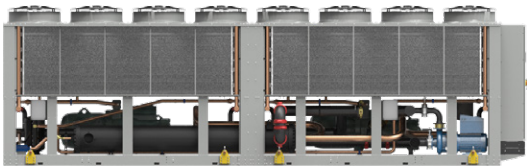
Height (mm)	2 473
Width (mm)	2 278
Depth (mm)	4 255 – 4 635
Weight (kg)	4 900 – 5 800

12 fans
630 – 670 – 740 kW



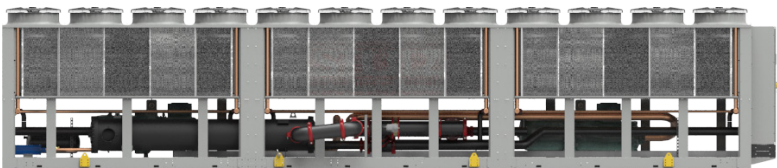
Height (mm)	2 473
Width (mm)	2 278
Depth (mm)	6 960
Weight (kg)	5 000 – 6 400

16 fans
845 – 910 – 1030 kW



Height (mm)	2 473
Width (mm)	2 278
Depth (mm)	8 120 – 8 880
Weight (kg)	6 250 – 8 900

24 fans
1125 – 1260 kW



Height (mm)	2 473
Width (mm)	2 278
Depth (mm)	11 980
Weight (kg)	7 640 – 11 900

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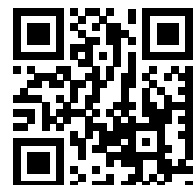
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With specialist, competent partners in ten German branches and in subsidiaries and exclusive sales and service agents around the world.
Our ten production sites are situated in Europe, North America and Asia.

For further information, please visit our website at www.stulz.com



You can find out more
on our product page.