

CLIMAPROCESSOR

Our solution for:

Container Cooling



To assist our customers in selecting optional features to install on our machines, we have defined this short list of accessories that we typically recommend for all standard or custom containers refrigeration.

Our specific set-up for containers:

*Do you need to maintain the correct
levels of temperature and humidity
inside your container?*

Clima Processor is renowned for quality and reliability in the Data Center and technical facilities conditioning sector. We have developed a series of compact conditioning units designed specifically for container applications (standard or custom-sized), allowing for quick and easy installation.

Discover our tailor-made solutions for your needs!



Our suggested configuration:

STRUCTURE:

- full aluminum body
- rockwool insulating cladding
- freecooling / fresh air intake
- container-specific interfaces with sealing gaskets
- motorized fire damper (x2)
- snow kit for low temperature

ALARM:

- smoke alarm
- fire alarm
- water leakage alarm
- refrigeration leakage alarm
- low pressure alarm*
- clogged filter alarm
- airflow alarm

AIR TREATMENT:

- dehumidification (with heating coil)
- R513a refrigerant*
- F7 filter
- TH probe
- special coils coating for stressful outdoor conditions
- EC High-Pressure fan

ELECTRIC:

- ATS
- remote LCD display*
- RS485 communication
- specific monitoring system

* included in the standard configuration

**GET IN TOUCH FOR
MORE INFORMATIONS!**

Different airflow configuration are possible. It is also possible to create specific ducting or connection for pre-existing air delivery channels for air canalization.

When conditioning a container, the best solution is to use external HVAC systems rather than modifying the already limited internal space of the container. External HVAC units can efficiently control temperature and humidity without encroaching on valuable internal storage capacity. This approach ensures optimal environmental conditions inside the container while maximizing usable space for storage or other purposes.

To achieve this goal, in Clima Processor we have developed two compact outdoor solutions called *CK* and *RT series*. The CK units are designed for wall installation, offering a space-saving solution ideal for containers where floor space is at a premium. On the other hand, the RT series is designed for rooftop installation, maximizing internal container space by utilizing the overhead area efficiently.

These units are specifically engineered to provide effective climate control without compromising the container's internal dimensions, ensuring optimal functionality and usability. These units come in various sizes, offering a wide range of conditioning capabilities going from a few kilowatts up to 25 kW. This flexibility allows for effective climate control across different container sizes and requirements, ensuring that each setup can be tailored to achieve the desired level of temperature and humidity regulation efficiently and effectively, perfect for energy converter shelters.

CK & RT

Our outdoor solutions, for wall and roof.

Control the temperature inside Your container for:

Data Center / Data Processing Center:

A cooled container is perfect to be used to host a mini datacenter, with servers, networking devices, and storage equipment. This is useful for small businesses that need on-site IT infrastructure but lack space to build a dedicated facility.

Technology Laboratory:

You can transform the container into a technology lab for research and development activities, electronic equipment testing, or prototyping new solutions.

Refrigerated Warehouse:

If you need to store food or pharmaceutical products that require controlled temperatures, the cooled container can be used as a mobile refrigerated warehouse.

Server Room or Storage Rack:

If you need a secure and controlled space to store data or IT equipment, the cooled container can be adapted to house servers, storage racks, and networking equipment.

Battery / Energy Storage System:

The cooled container can also house battery banks or energy storage systems, providing backup power or storing renewable energy generated from solar panels or wind turbines.

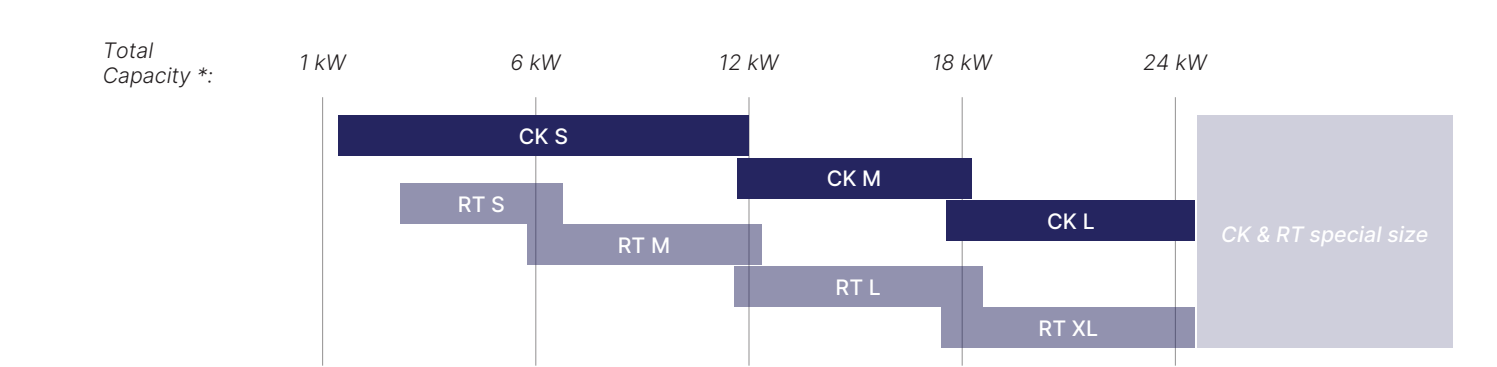
Energy Converter:

The container can be equipped with energy converters or inverters to manage and distribute power efficiently within the system, converting DC (direct current) power to AC (alternating current) or *vice versa* as needed.



Complete Your compact *data center* with Clima Processor !

		Wall-hanged Installation	Rooftop Installation
10 feet container	up to 4 Rack , 42U (5 kW each/20 kW total)	2x CK-S or 1x CK-L (up to 25 kW of cooling capacity)	2x RT-M or 1x RT-XL (up to 25 kW of cooling capacity)
	up to 4 Rack , 42U (10 kW each/40 kW total)	3x CK-M or 2x CK-L (up to 50 kW of cooling capacity)	2x RT-XL (up to 50 kW of cooling capacity)
20 feet container	up to 6 Rack , 42U (5 kW each/30 kW total)	3x CK-S or 2x CK-M (up to 30 kW of cooling capacity)	2x RT-L (up to 50 kW of cooling capacity)
	up to 6 Rack , 42U (10 kW each/60 kW total)	4x CK-M or 3x CK-L (up to 60 kW of cooling capacity)	3x RT-XL (up to 72 kW of cooling capacity)
40 feet container	up to 12 Rack , 42U (5 kW each/60 kW total)	4x CK-M or 3x CK-L (up to 70 kW of cooling capacity)	3x RT-XL (up to 72 kW of cooling capacity)
	up to 12 Rack , 42U (10 kW each/120 kW total)	6x CK-L (up to 145 kW of cooling capacity)	6x RT-XL (up to 144 kW of cooling capacity)
45 feet container	up to 14 Rack , 42U (5 kW each/70 kW total)	4x CK-M or 3x CK-L (up to 70 kW of cooling capacity)	3x RT-XL (up to 72 kW of cooling capacity)
	up to 14 Rack , 42U (10 kW each/140 kW total)	6x CK-L (up to 145 kW of cooling capacity)	6x RT-XL (up to 144 kW of cooling capacity)



	CK-S	RT-S	CK-M	RT-M	CK-L	RT-L	RT-XL
Total Capacity*:	2-12 kW	3-6 kW	12-18 kW	6-13 kW	18-25 kW	13-19 kW	19-25 kW
Treated Airflow:	800-1'200 m³/h	800-1'200 m³/h	1'200-2'800 m³/h	1'200-1'400 m³/h	2'800-3'400 m³/h	2'400-3'200 m³/h	3'200-6'000 m³/h
Dimensions (LxWxH):	970×700x1700 mm **	1825×1430x925 mm	1000×800x1800 mm **	1825×1430x925 mm	1100×920x1900 mm **	1825×1430x925 mm	1825×1430x925 mm
Weight:	180-230 kg	200 kg	200-250 kg	230 kg	210-260 kg	260 kg	290 kg

*The Total Cooling Capacity depends on the external temperature/humidity conditions, as well as the internal conditions. The depicted ranges indicate the minimum and maximum values achievable with the configuration of that specific machine.

** Dimensions specific for units with freecooling technology.