



FRIGOR  TEC
Cooling to the point

FrigorTec LP • USA



**CRANEFRIGOR™ – Cooling for containers,
crane cabins, and control cabinets**

frigortecamericas.com





CRANEFRIGOR™ Container cooling units / control cabinet cooling units		CC02	CC05 / CC08		TY
Dimensions [in]	Length	16.3	24.0	39.3	26.5
	Width	22.0	39.3	30.1	20.9
	Height	44.4	64.6	86.6	63.0
Weight approx. [lb]		198	617	992	397
Nominal cooling capacity [btu/h]^{1) 2)} with R134a / R513A		12,000	20,000	40,000	22,000
Heating capacity [btu/h]²⁾		–	7,850	17,060	13,650
CO₂-equivalent [lb]	R134a	4,414	6,936	12,610	7,251
	R513A	1,947	3,060	5,565	3,199
	R450A	–	2,934	5,335	3,067
Air flow rate, free blowing [cfm]		882	706	1,177	589



CRANEFRIGOR™ Crane cabin cooling units		OC02	TW	OC07	TX
Dimensions [in]	Length	23.6	41.4	34.7	26.5
	Width	23.6	28.7	18.1	20.9
	Height	23.6	24.8	84.3	63.0
Weight approx. [lb]		198	309	507	397
Nominal cooling capacity [btu/h]^{1) 2)} with R134a / R513A		12,000	16,000	22,500	22,000
Heating capacity [btu/h]²⁾		7,950	11,950	23,550	13,650
CO₂-equivalent [lb]	R134a	4,414	6,621	6,305	7,251
	R513A	1,947	3,477	2,782	3,199
	R450A	–	3,333	2,668	3,067
Air flow rate, free blowing [cfm]		500 ³⁾	471 ³⁾	589 ³⁾	589 ³⁾

¹⁾ With 80 °F (27 °C) indoor temperature, 52 % relative indoor air humidity and 35 °C ambient temperature

²⁾ 460 V / 60 Hz (additional operating voltages available)

³⁾ controllable

Refrigerant Type:	GWP value:	Area of application:
R134a	1,430	Up to 160 °F
R513A	631	Up to 160 °F
R450A	605	Up to 185 °F
Other refrigerants on request		



CK12 / 18 / 24			CK10 / 16 / 22 / 30				CVD Split	DV Split
41.3	45.2	45.2	83.9				33.6	36.0 - 88.3
25.1	33.0	33.0	47.2				47.2	35.8
72.6	76.6	76.6	35.9				35.9	10.6
904	1,058	1,124	1,300	1,345	1,367	1,367	639	77 - 201
42,000	66,000	83,000	61,000	90,000	108,000	115,000	34,000 - 68,000	34,000 - 105,000
23,550			21,160 / 42,000				-	10,240 - 20,480
25,221	29,950	40,984	28,374	44,137	53,594	56,747	-	-
11,129	13,215	18,085	12,520	19,476	23,649	25,040		
10,670	12,670	17,339	12,004	18,673	22,675	24,008		
1,471	2,060	2,354	2,060	2,530	4,002	4,120	-	1,089 - 3,779



Filter device	Condensate evaporator	Condensate evaporator
FT15	KVV wall mounting	KV floor and wall mounting
14.6	23.8	41.8
14.6	6.0	7.7
18.9 - 46.1	8.5	13.7
Voltages: 24 V DC, 115 V, 230 V	44	65
-	-	-
-	7,850 - 11,950	7,850 - 11,950
-	-	-
Volume flow [m ³ / h] ³⁾ : 60 - 235	-	-



The FrigorTec GmbH is certified with DIN EN ISO 9001 : 2015.

TÜV acceptance testing in our plant.

An additional check at the installation site is not usually necessary for the compact device CRANEFRIGOR™.



CRANEFRIGOR™ – Air conditioning units, custom-made and in serial production

For over 60 years, FrigorTec has produced crane air conditioning units for container terminals and harbours, as well as for hot areas, such as foundries, steel works, and mills. On the one hand, the devices create optimal working conditions in the cabin for crane drivers; on the other hand, they ensure reliable room temperatures for sensitive performance and control electronics. The devices, which have been put to the test worldwide, are available in many installation variations and with various output stages.

CRANEFRIGOR™ air conditioning units for cooling containers, crane cabins, and control cabinets, have been specially developed for use in harbours and container terminals. The compact and robust design, and the materials used, make them perfectly suited for small installation spaces, salty air, and constant vibrations. Compact or split devices are also used depending on the profile of requirements.

In the case of a split device (Fig. 1), the condenser unit is installed outside the space to be cooled, with the air conditioning unit inside. The two devices are connected by refrigerant lines. The air conditioning unit is positioned directly above the heat source, making it especially effective. A wide range of individual component combinations allow for an exact output adjustment.

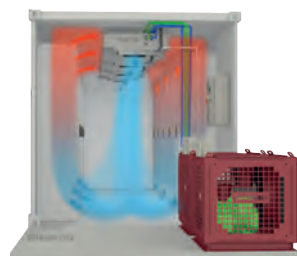


Fig. 1 Procedural principle for container cooling

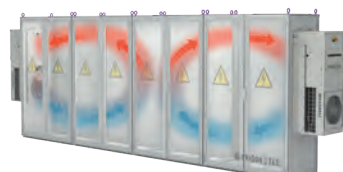


Fig. 2 Procedural principle for control cabinet cooling

Container/control cabinet cooling

The air conditioning unit is mounted externally on the container wall (Fig. 2). The spatial conditions determine whether a vertical or horizontal design is chosen. In both cases, the device blows cool air from below into the space. At the top, the heated air is sucked in through a fan and extracted. The air conditioning unit for the control cabinet cooling is mounted directly on the control cabinet. A simple air distribution is also supplied in the case of large or long control cabinets.

Crane cabin cooling

The air conditioning unit for crane cabin cooling is mounted directly on the cabin wall (Fig. 3). It operates very quietly and is easy to operate. In the case of cooling, cold supply air flows underneath the ceiling into the crane cabin. In the case of heating, warm supply air flows above the floor. This provides optimal comfort for the crane driver.



Fig. 3 Procedural principle for crane cabin cooling

Advantages with FrigorTec air-conditioning units:

- Comfort and safety thanks to air conditioning in the cabin, control cabinet and electronics compartment
- Safe operation under extreme dust and heat loads
- Adapted air flow and optimum temperature distribution
- Effective corrosion protection thanks to the sturdy industrial design and protective coating
- Industrial components with a long service life for continuous 24/7 operation

CRANEFRIGOR™ - Air conditioning units for container/control cabinet and crane cabin cooling

In harbours and container terminals work is often done under extreme conditions:

- High ambient temperatures
- Very high air humidities
- A high level of direct sunlight
- Salty air
- High level of exhaust pollution
- High noise levels
- Vibrations

Air conditioning units from FrigorTec achieve a good working environment for your employees even under these extreme conditions. In this way, normal operations and all logistics processes can be carried out safely and efficiently.

Cooled air for man and machine

The guidelines for workplace conditions are met by air conditioning the crane cabin. Your employees work under comfortable, performance-enhancing conditions.

Likewise, the sensitive crane control units have to be reliably cooled – operation reliability depends on this during normal operations and logistic processes.

High performance and variable installation - individually designed for your application profile

Air conditioning units from FrigorTec come in a wide product range, with a concise differentiation of specific performance features. We choose the exact device to fulfil your individual needs on location.

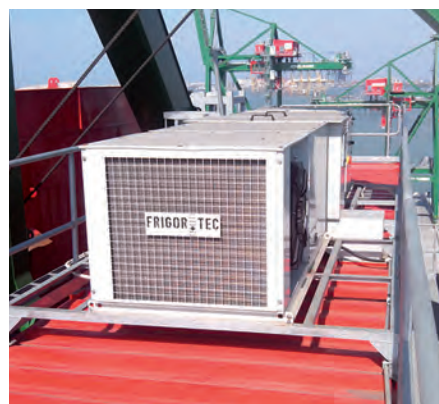
Your benefits:

- Reliable cooling at ambient temperatures of up to +195 °F
- Robust construction
- Split designs allow for a variety of installation options
- Versatile electrical arrangements regarding voltage, frequency, and current type

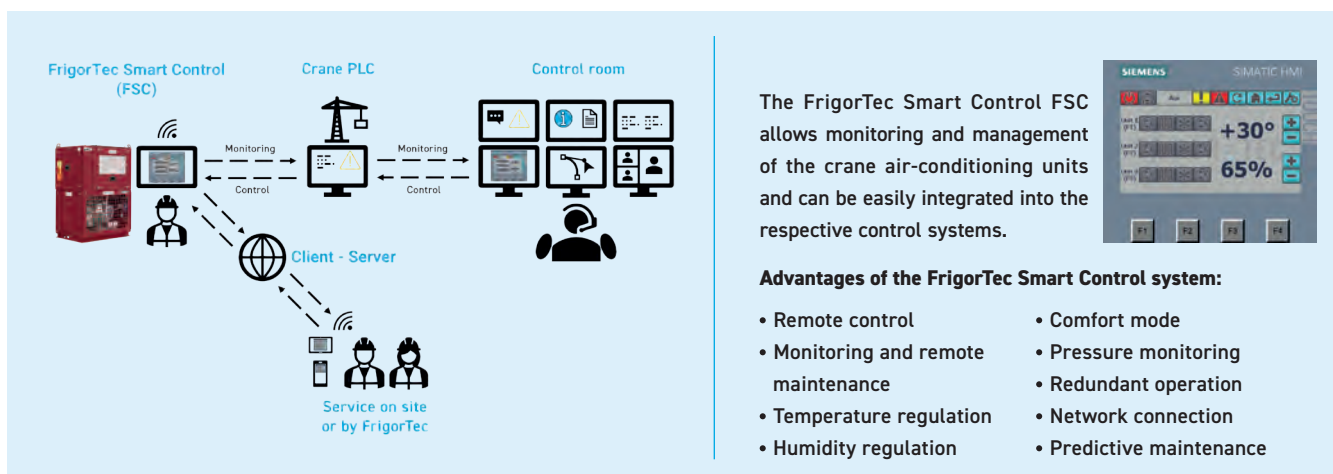
Tried and tested

The calculated performance data for the devices is tested in our technology department.

In this way, FrigorTec has produced air conditioning units for container/control cabinet and crane cabin cooling for over 60 years. Our units are used successfully in more than 100 countries.



Our air conditioning units for container, control cabinet, and crane cabin cooling are used for the most diverse and challenging requirements in harbours and container terminals all across the world.



We pass on only what we have produced by our own hands.



All products are developed, constructed and made by FrigorTec. Every device passes a quality inspection with test runs before delivery. FrigorTec solutions are sold in over 100 countries through the worldwide distribution network.

SERVICE (24 / 7)



Our service keeps the units maintained and ensures the spare parts supply - worldwide.
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Grain cooling
GRANIFRIGOR™

Crane air conditioning
CRANEFRIGOR™

Standard cooling
STANDARDFRIGOR

FrigorTec
SERVICES

Insect heat treatment
DEBUGGER

Hay dryer
AGRIFRIGOR™

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Cooling to the point



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