

*Your plus in performance and environmental protection*

# EVO LINE PLUS

eBoxX 541 plus to eBoxX 971 plus



Food and packaging

Plastics industry

Data centers

Filtration

Surface technology

Printing industry



R454B



**The eBoxX plus was developed to meet the new, increasingly strict requirements with regard to the greenhouse gas limits. By using the high efficiency refrigerant R454B in category A2L, which has low levels of combustibility and toxicity, we have opted for a future-proof refrigerant. With a GWP value of just 466, we achieve a reduction of 78 % compared to the previously used safety refrigerant R410A.**

For you, this means:

**Reduced refrigerant quantities** due to the use of a micro-channel heat exchanger, which reduces the refrigerant charge by up to 50% compared to conventional technology.

**Efficient and quiet, even in partial load range.** Thanks to the technology used, up to six compressors can be operated in tandem or as a trio in two cooling circuits.

**Reduced operating costs:** Performance-regulated EC fans also play their part in reducing costs by enabling an energy saving of 20% thanks to the special EC motor technology.

## Technical data

KKT chiller type	eBoxX 541 plus	eBoxX 591 plus	eBoxX 651 plus	eBoxX 721 plus	eBoxX 751 plus	eBoxX 811 plus	eBoxX 881 plus	eBoxX 911 plus	eBoxX 971 plus
Cooling capacity <sup>1)</sup>	542.2 kW	587.4 kW	645.8 kW	715.7 kW	746.6 kW	805.4 kW	876.5 kW	911.3 kW	969.9 kW
Compressor quantity	4	4	4	5	5	5	6	6	6
Refrigerant circuits	2	2	2	2	2	2	2	2	2
Refrigerant	R454B								
Coolant	Water / Water - Glycol								
Charge of refrigerant	41 kg	42 kg	43 kg	54 kg	55 kg	55 kg	65 kg	68 kg	68 kg
Refrigerant GWP	466								
CO <sub>2</sub> equivalent	19.147 t / kg	19.614 t / kg	20.081 t / kg	25.218 t / kg	25.685 t / kg	25.685 t / kg	30.355 t / kg	31.756 t / kg	31.756 t / kg
Total oil quantity	23.9 kg	23.9 kg	23.9 kg	29.9 kg	29.9 kg	29.9 kg	35.9 kg	35.9 kg	35.9v
Flow temperature	-5°C to +25°C								
Setpoint constancy	+/- 2 K								
Water flow rate <sup>1)</sup>	93.6 m³/h	101.4 m³/h	111.5 m³/h	123.5 m³/h	128.9 m³/h	139 m³/h	151.3 m³/h	157.3 m³/h	167.4 m³/h
Internal pressure loss, approx.	0.55 bar	0.49 bar	0.5 bar	0.71 bar	0.73 bar	0.71 bar	0.64 bar	0.56 bar	0.57 bar
Fan	8x 1.2 kW			10x 1.2 kW			12x 1.2 kW		
Air flow rate	152,000 m³/h			190,000 m³/h			228,000 m³/h		
Sound pressure level <sup>2)</sup>	62 dB(A)	62.5 dB(A)		63.5 dB(A)			64 dB(A)		65 dB(A)
Ambient temperature min.	-20 °C								
Ambient temperature max.	+48 °C								
Nominal water width	DN80			DN100					
Operating voltage	400 V / 3 Ph / 50 Hz								
Power consumption, approx. <sup>3)</sup>	109.8 kW	125.2 kW	142.6 kW	152.4 kW	160.6 kW	178.4 kW	187.6 kW	196.2 kW	213.8 kW
Operating current, approx. <sup>3)</sup>	180.4 A	205.8 A	234.4 A	250.6 A	264.0 A	293.2 A	307.4 A	322.5 A	351.5 A
Pre-fuse	315 A		400 A			630 A			
Protection class control cabinet	IP 54								
Height	2,490 mm								
Width	2,260 mm								
Length	4,840 mm			5,940 mm			7,100 mm		
Weight (net)	3,220 kg	3,310 kg	3,350 kg	3,975 kg	4,015 kg	4,045 kg	4,810 kg	4,850 kg	4,880 kg

1) Cooling capacity at water supply temperature tw2 = 20°C; ambient temperature tu = 32°C; 400V/3~/50Hz, deviations in performance possible according to DIN14511

2) Sound pressure level in dB(A) measured at a distance of 10 metres from the unit in free field with directional factor Q=2, in compliance with the UNI EN-ISO 3744 standard

3) At operating point see 1)

Predefined options make this series extremely flexible.



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