

Perfect Balance

# HIGH PERFORMANCE & LOW OPERATING COSTS



Cooling capacity 260-528 kW  
The new  
**EVO LINE**

## A performance masterpiece for tight spaces

### EVO LINE

With the EVO LINE's optimized air-cooled chillers, every single eBoxX offers up to 528 kW cooling capacity. Plus, they require little energy and help protect the environment. Fitted in a compact and corrosion-resistant housing, this high-performance system is the answer to the latest requirements in process cooling and offers users a great number of benefits:

#### Digital data management.

The chillers' display is easy to use thanks to the simple and user-friendly menu guidance. Sensors automatically record all relevant manipulated and controlled variables, such as temperature or pressure, ready for the customer to process all data further. The built-in alarm notification with an associated error code additionally ensures the highest possible safety level.

#### Greater efficiency - lower operating costs.

The technology used accommodates the simultaneous operation of up to four scroll compressors with two cooling circuits - efficiently and quietly, even at partial load. These compressors are designed and engineered to provide greater control flexibility and energy efficiency. Consequently, only the amount of power actually needed is generated. The output-controlled EC fans also reduce operating costs, lowering the electricity demand by 20% thanks to special EC motor technology. On top of that, a precisely aligned coolant flow through innovative distributor pipes ensures minimum pressure loss.

#### Environmentally friendly and ecological.

The EVO LINE has been developed to meet the new and increasingly strict regulations limiting greenhouse gas emissions. To this end, a microchannel is used as a heat exchanger. Compared to conventional technology, it reduces the coolant filling level by up to 30%. The use of R410A, a non-flammable and non-toxic highly efficient refrigerant, makes the units perfectly suitable for applications in the food and packaging industries or in surface engineering. This means that additional operator obligations, as those for A2L coolants (flammable/toxic), do not apply.

#### Highly flexible - suitable for many uses.

The EVO LINE's numerous combination options and accessories include an innovative hydraulic module that can further reduce energy costs. With its modern industrial design, the EVO LINE can be installed in small spaces and offers an output of up to 70 kW/m<sup>2</sup>. Further benefits include low maintenance costs due to straightforward maintenance and easy cleaning.

**Experience the perfect balance of high performance and low operating costs with our EVO LINE.**

TECHNICAL DATA

Evo Line	eBoxX 260	eBoxX 300	eBoxX 350	eBoxX 400	eBoxX 490	eBoxX 530
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 32 °C	260 kW	292 kW	348 kW	395 kW	489 kW	528 kW
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 40 °C	232 kW	264 kW	313 kW	354 kW	436 kW	476 kW
Refrigerant	R410A					
GWP	2088					
Charge of refrigerant	20,5 kg	22,5 kg	19 kg	23 kg	32 kg	
CO <sub>2</sub> equivalent	42,9 t CO <sub>2</sub>	47 t CO <sub>2</sub>	39,7 t CO <sub>2</sub>	48,1 t CO <sub>2</sub>	66,9 t CO <sub>2</sub>	
Water outlet temperature	5 - 25 °C					
Temperature constancy	± 2,5 K					
Coolant	Water or Water/Glycol					
Coolant flow	44 m <sup>3</sup> /h	50 m <sup>3</sup> /h	60 m <sup>3</sup> /h	68 m <sup>3</sup> /h	84,5 m <sup>3</sup> /h	91 m <sup>3</sup> /h
Air flow rate	46.500 m <sup>3</sup> /h	62.000 m <sup>3</sup> /h	79.500 m <sup>3</sup> /h			
Sound pressure level <sup>2)</sup>	58 dB(A)			60 dB(A)	61 dB(A)	62 dB(A)
Ambient temperature range	- 15 - 45 °C					
Water connection	DN 80			DN 100		
Operating voltage	400 V / 3 Ph / 50 Hz					
Power consumption, ca. <sup>3)</sup>	65,7 kW	73,1 kW	79,7 kW	102,1 kW	108,2 kW	125,1 kW
Operating current, ca. <sup>3)</sup>	152 A	166 A	198 A	239 A	250 A	280 A
Protection class electrical cabinet	IP 54					
Length	3.594 mm	4.544 mm	2.526 mm		3.626 mm	
Width	1.350 mm			2.260 mm		
Height	2.440 mm			2.453 mm		
Weight (net)	1.510 kg	1.670 kg	1.700 kg	2.050 kg	2.550 kg	2.565 kg

<sup>1)</sup> without consideration of pump performance losses; 400V / 3 Ph / 50 Hz | <sup>2)</sup> in 10 m distance without reflection, without pump | <sup>3)</sup> at operating point see <sup>1)</sup>

HYDRAULIC

Evo Line	eBoxX 260	eBoxX 300	eBoxX 350	eBoxX 400	eBoxX 490	eBoxX 530
Pump type	Grundfos NB 97839225 NB 40 - 250 / 245, AF2ABAE 50 Hz		Grundfos NB 96125030 NB 50 - 250 / 254, AF2ABAE 50 Hz			
Free pump pressure max.	6 bar					
Pump power input	18,5 kW		30,0 kW			
Tank water content	450 l		500 l		700 l	
Weight in addition (netto)	520 kg		680 kg		810 kg	
Weight in sum (netto)	2.030 kg	2.190 kg	2.380 kg	2.730 kg	3.360 kg	3.375 kg

DEVICE INCLUDING HYDRAULICS

Power consumption, approx. <sup>3)</sup>	84,2 kW	91,6 kW	109,7 kW	132,1 kW	138,2 kW	155,1 kW
Operating current, approx. <sup>3)</sup>	152 A	166 A	198 A	239 A	250 A	280 A
Weight (netto) incl. hydraulic module	2.030 kg	2.190 kg	2.380 kg	2.730 kg	3.360 kg	3.375 kg

THE FOUR SIZES AT A GLANCE

- Food & Packaging
- Plastics Industry
- Filtration
- Surface Technology



eBoxX 260



eBoxX 300



eBoxX 350 - 400



eBoxX 490 - 530