

### Developed for more performance

## COMPACT LINE

With its Compact Line, KKT chillers provides maximum performance at minimum space requirements. The modern industrial design immediately gives away the variety of innovations included in this powerful device.

Innovation is our standard – this means for you:

**User-friendly surface** with plain-text display of temperature, pressure, tank level and all status notifications – thanks to a controller board developed in-house specifically for this application. Including a variety of data links for all important Fieldbus- and Industrial-Ethernet- Networks for example CANopen, DeviceNet, Modbus or Profibus. The new line also allows for remote maintenance and updates via web and app or USB.

**Reduction in operating costs** due to 20% less electrical power consumption. This improvement is achieved thanks to the efficient scroll compressor technology and enhanced by the perfect combination with the R410A refrigerant as well as frequency controlled EC fans.

**Efficiency benefits** optimization of partial-load response thanks to the application of an infinitely variable electronic expansion valve with selfclosing characteristics.

**Logistics and maintenance benefits:** Up to 75% less refrigerant filling thanks to the use of innovative heat exchanger technologies like microchannel and asymmetric plate heat exchangers, arranged at the smallest footprint.

### Setting new benchmarks

## 100% ECODESIGN

The Compact Line is up to 21% more efficient than required by the Ecodesign Regulation. See for yourself and discover the benefits of the innovative Compact-Line by KKT chillers!



TECHNICAL DATA

Compact Line	cBoxX 30	cBoxX 40	cBoxX 50	cBoxX 60	cBoxX 70	cBoxX 80
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 32 °C	34 kW	41 kW	53 kW	67 kW	76 kW	83 kW
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 40 °C	30,3 kW	36,7 kW	47,0 kW	59,0 kW	67,8 kW	74,7 kW
Refrigerant	R410A					
GWP	2088					
Charge of refrigerant	6 kg		7 kg		8 kg	
CO <sub>2</sub> equivalent	12,5 t CO <sub>2</sub>		14,6 t CO <sub>2</sub>		16,7 t CO <sub>2</sub>	
Ambient temperature range	- 25 °C - 50 °C					
Max. air flow rate	9.350 m <sup>3</sup> /h		12.600 m <sup>3</sup> /h		20.000 m <sup>3</sup> /h	
Coolant	Water or Water/Glycol					
Tank volume	300 l			500 l		
Coolant outlet temperature	- 10 °C - 30 °C					
Temperature constancy	± 1 K					
Coolant flow	5,5 m <sup>3</sup> /h	7,2 m <sup>3</sup> /h	9,2 m <sup>3</sup> /h	11,1 m <sup>3</sup> /h	12,4 m <sup>3</sup> /h	14,3 m <sup>3</sup> /h
Pumping pressure	3 bar					
Sound pressure level <sup>2)</sup>	62 dB(A)		55 dB(A)		69 dB(A)	
Operating voltage	400 V / 3 Ph / 50 Hz or 460 V / 3 Ph / 60 Hz or 400 V / 3 Ph / 60 Hz					
Operating current max <sup>4)</sup>	21,1 A	27,4 A	34,0 A	44,3 A	46,6 A	54,9 A
Power consumption max <sup>4)</sup>	12,4 kW	15,4 kW	19,7 kW	26,5 kW	27,4 kW	30,9 kW
Protection class	IP 54					
Weight <sup>3)</sup>	540 kg		550 kg		620 kg	
Water connection	IG 1 1/2"				IG 2"	
Length	1.240 mm				1.840 mm	
Width	830 mm					
Height	2.030 mm					

<sup>1)</sup> 50Hz, without pump | <sup>2)</sup> in 5m distance without reflection at full speed, without airfilter | <sup>3)</sup> net, without charge of coolant | <sup>4)</sup> 50 Hz, without Pump

Compact Line	cBoxX 90	cBoxX 100	cBoxX 120	cBoxX 160	cBoxX 180	cBoxX 200
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 32 °C	92 kW	100 kW	131 kW	159 kW	187 kW	204 kW
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 40 °C	82,3 kW	89,2 kW	116,6 kW	141,0 kW	166,3 kW	180,4 kW
Refrigerant	R410A					
GWP	2088					
Charge of refrigerant	8 kg		17 kg		23,5 kg	
CO <sub>2</sub> equivalent	16,7 t CO <sub>2</sub>		35,5 t CO <sub>2</sub>		49,1 t CO <sub>2</sub>	
Ambient temperature range	- 25 °C - 50 °C					
Max. air flow rate	23.270 m <sup>3</sup> /h		45.550 m <sup>3</sup> /h		49.100 m <sup>3</sup> /h	
Coolant	Water or Water/Glycol					
Tank volume	500 l		700 l		900 l	
Coolant outlet temperature	- 10 °C - 30 °C					
Temperature constancy	± 1 K					
Coolant flow	16,1 m <sup>3</sup> /h	18,2 m <sup>3</sup> /h	21,5 m <sup>3</sup> /h	27,2 m <sup>3</sup> /h	32,2 m <sup>3</sup> /h	35,4 m <sup>3</sup> /h
Pumping pressure	3 bar					
Sound pressure level <sup>2)</sup>	59 dB(A)			67 dB(A)		
Operating voltage	400 V / 3 Ph / 50 Hz or 460 V / 3 Ph / 60 Hz or 400 V / 3 Ph / 60 Hz					
Operating current max <sup>4)</sup>	59,2 A	67,2 A	84,8 A	103,2 A	118,4 A	134,4 A
Power consumption max <sup>4)</sup>	35,0 kW	39,2 kW	48,8 kW	61,4 kW	71,4 kW	80,0 kW
Protection class	IP 54					
Weight <sup>3)</sup>	700 kg	720 kg	1.100 kg	1.200 kg	1.300 kg	1.400 kg
Water connection	IG 2"		DN 65			
Length	1.840 mm		2.660 mm		3.960 mm	
Width	830 mm				1.200 mm	
Height	2.030 mm					

<sup>1)</sup> 50Hz, without pump | <sup>2)</sup> in 5m distance without reflection at full speed, without airfilter | <sup>3)</sup> net, without charge of coolant | <sup>4)</sup> 50 Hz, without Pump

THE FOUR SIZES AT A GLANCE

- Laser
- Healthcare
- Food & Packaging
- Plastics Industry
- Filtration
- Surface Technology
- Printing Industry

