

## Small chiller – big effect

# NANO LINE

With the small but robust stand-alone chillers from the Nano-Line, KKT chillers takes the heat off your industrial cooling needs. The easy-to-read level indicator reliably indicates the min. and max. levels of the coolant. Preassembled lifting lugs ensure easy transport. Equipped with a programmable control module, every nBoxX enables high temperature stability of the cooling medium. Therefore, the chillers of the Nano-Line represent the all-round solution for a large variety of applications in the 1.9 - 7.0 kW power range.

### BASIC CONFIGURATION

- + **Overflow valve** for free adjustment of the pressure in the water circuit
- + **Tank level switch** for monitoring the water level in the tank and dry running protection of the pump.
- + **Flow switch** – adjustable flow monitoring (minimum permissible flow)
- + **Error indication** on the display
- + **Temperature difference control** – freely adjustable flow temperature via display
- + **Wire labeling**
- + **Potential-free contact** for collective fault message

### OPTIONS

- + **Hot gas bypass** to improve the temperature accuracy to  $\pm 1\text{K}$
- + **Aluminium air filter kit**
- + **Castors**
- + **Contact for remote control**

## TECHNICAL DATA

Nano Line	nBoxX 1.7	nBoxX 3.5	nBoxX 5.0	nBoxX 6.5
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 18 °C, t <sub>amb</sub> = 32 °C, 50 Hz	1.7 kW	3.4 kW	5.0 kW	6.5 kW
Net cooling capacity <sup>1)</sup> t <sub>w2</sub> = 20 °C, t <sub>amb</sub> = 32 °C, 50 Hz	1.9 kW	3.4 kW	5.3 kW	7.0 kW
Refrigerant	R134a			
GWP	1430			
Refrigerant filling	0.8 kg		1.5 kg	
CO <sub>2</sub> equivalent	1.14 t CO <sub>2</sub>		2.15 t CO <sub>2</sub>	
Ambient temperature range	15 °C – 45 °C			
Max air flow rate	1,300 m <sup>3</sup> /h		2,300 m <sup>3</sup> /h	
Coolant	Water or Water/Glycol			
Tank volume	10 l		26 l	
Coolant outlet temperature	13 °C - 35 °C			
Temperature constancy	± 2 K			
Coolant flow	0.5 m <sup>3</sup> /h	2.0 m <sup>3</sup> /h	0.8 m <sup>3</sup> /h	0.8 m <sup>3</sup> /h
Coolant flow dt 5K	0.33 m <sup>3</sup> /h	0.63 m <sup>3</sup> /h	0.91 m <sup>3</sup> /h	1.2 m <sup>3</sup> /h
Pump pressure	3 bar			
Free pump pressure 50 / 60 Hz	4.6 / 6.5 bar	6.5 / 9 bar	2.6 / 3.8 bar	1.7 / 3 bar
Sound pressure level <sup>2)</sup>	<62 dB(A)			
Operating voltage (± 10%)	230 V / 1Ph / 50 / 60 Hz	400 V / 3 Ph / 50 Hz or 460 V / 3 Ph / 60 Hz		
Operating current	6.5 A / 7.5 A	6.5 A / 7.0 A	8.0 A / 8.5 A	9.5 A / 10.0 A
Power consumption (Pump)	1.3 kW / 1.5 kW	2.5 kW / 3.1 kW	3.4 kW / 4.2 kW	4.1 kW / 5.0 kW
Protection class	IP 54			
Water connection	IG 1/2"		IG 3/4"	
Dimension (LxBxH)	600 x 546 x 634 mm	600 x 727 x 983 mm		
Weight <sup>3)</sup>	67 kg	109 kg	111 kg	114 kg
Color	RAL 7035			

<sup>1)</sup> with pump | <sup>2)</sup> at 50 Hz, according to EN ISO 3741 | <sup>3)</sup> without packaging and charge of coolant

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nBoxX 1.7

nBoxX 3.5 - 6.5