

# AIR COOLER DIRECT EXPANSION | CSK-631-6BN-CX40

Air temperature around freezing point, use of defrost heating is recommended.

## BASIC DATA

<b>Capacity</b>	24,43 kW	<b>Sensible heat ratio (SHR)</b>	0,72 [-]	<b>Refrigerant</b>	R744 (CO <sub>2</sub> )
<b>Air inlet temp.</b>	0,0 °C	<b>Air outlet temp.</b>	-3,5 °C	<b>Evaporation temp.</b>	-8,0 °C
<b>Rel. humidity</b>	85,0 %	<b>Air outlet rel. humidity</b>	95,0 %	<b>Liquid temp.</b>	5 °C

## AIR DATA

<b>Air volume flow</b>	13.730 m <sup>3</sup> /h
<b>Ext. static pressure</b>	0 Pa
<b>Air throw</b>	33 m
<b>Altitude</b>	0 m

## HEAT EXCHANGER

<b>Surface</b>	108,7 m <sup>2</sup>
<b>Fin spacing</b>	7 mm
<b>Internal volume</b>	26,8 dm <sup>3</sup>
<b>Superheating temp.</b>	-2,8 °C
<b>Design pressure</b>	38 bar

## MATERIALS

<b>Tubes</b>	Copper
<b>Fins</b>	Alu
<b>End plates</b>	Alu
<b>Casing</b>	Galvanised steel
<b>Finish</b>	white

## FAN(S)

### 1 PIECE(S): 400V/3PH/50HZ; IP54

<b>Fan diameter</b>	630 mm
<b>Range of temp.</b>	-40,0 to 70,0 °C
<b>Sound power LwA</b>	88 dB(A)
<b>Sound pressure LpA (3m) <sup>(2)</sup></b>	66 dB(A)
<b>Optional controller, on site <sup>(5)</sup></b>	Delta/Star-wiring, Phase control, Frequency converter
<b>ErP</b>	2015

### SELECTED SPEED DATA (PER FAN) <sup>(3)</sup>

<b>Operation mode <sup>(8)</sup></b>	AC - 4p(D)
<b>Speed</b>	1360 rpm
<b>Power input</b>	1.265 W
<b>Operating current</b>	2,7 A
<b>Energy efficiency class</b>	D

### FAN SET SERIAL PLATE DATA (PER FAN)

<b>Operation mode</b>	AC
<b>Speed</b>	1360 rpm
<b>Power nominal</b>	1.500 W
<b>Current draw</b>	2,7 A
<b>Protector</b>	Built in protector, connected on site

## CONNECTIONS <sup>(7)</sup>

<b>Inlet</b>	Cu 15 mm
<b>Outlet</b>	Cu 18 mm
<b>Refrigerant distribution</b>	Venturi

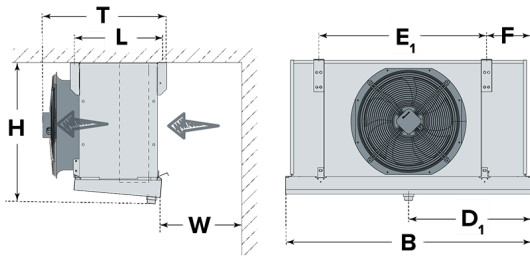
## WEIGHT <sup>(4)</sup>

<b>Dry weight</b>	206 kg
<b>Weight incl. packing</b>	kg

## DEFROST

No defrost

## DIMENSIONS (4)



B 1.656 mm

H 1.120 mm

W 600 mm

T 990 mm

L 800 mm

D<sub>1</sub> 828 mm

E<sub>1</sub> 1.256 mm

F 230 mm

Drain G 1¼"

## OPTIONS AND ACCESSORIES (EXCL. VAT)

CATEGORY		OPTION GROUP	ITEM	ITEM NO.
Coil	010.13	Tube type	Tubes copper, max. operating pressure 40 bar	
Coil	011.1	Fin type	Fins alu	
Fan(s)	071.21	AC fans	AC, Delta/Star, 400 V - 3 Ph - 50 Hz	100305106
Fan(s)	371.8	Wiring	No wiring	
Defrost	030.1	Air defrost	Air defrost for air inlet $\geq +2^{\circ}\text{C}$	
Casing	059.2	Drip tray fixing	Drip tray hinged	
Casing	060.1	Position of connections	Connection side left (in air flow direction)	

Subject to modifications.

Any data or other information in this selection software shall be deemed to be a general description of product properties and shall not be binding upon Kelvion. Binding product specifications may be agreed by Kelvion in bids, proposals, tenders or other offers issued in response to inquiries or calls for tenders or other invitations to bid.

### Notes

- (1) Classification acc. to Pressure Equipment Directive (PED): Category "0" for fluid group "2" at max. allowable pressure of PS = 40 bar.
- (2) Sound pressure LpA is based on the complete unit according to EN13487  $\pm 2$  dB(A).
- (3) The current consumption can vary depending on air density and mains voltage.
- (4) Weights and dimensions do not apply to all possible variants.
- (5) If frequency converters are used for speed control, please follow the guidelines of the fan-set manufacturers.
- (6) Kelvion will define the production site depending e.g. on type series, execution and location.
- (7) The connection sizes are subject to potential change due to production requirements.
- (8) S1 max. fan speed. S2 to S4 reduced fan speed (AC, EC fixed speed wiring option / EC adjustable with potentiometer or controller, available as option).

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**KELVION CODE: CSK-631-6BN-CX40-CCC8BD17-D019**

You can return to your current configuration with the following link. Differences can occur due to ongoing development. Please check the final configuration and selected options. <https://selectrt.kelvion.com/code/cksk-631-6bn-cx40-ccc8bd17-d019>

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