

CONDENSER | RF-PB203T3H-091N12S

Caution, the selected fan is no longer available! This selection is only valid for recalculation purposes of existing units in the field. Please select different fan or cooler type.

BASIC DATA

Capacity [kW]	184,35	Condensing pressure [bar]	20,4	Passes (per coil)	4
Ambient [°C]	32,0	Hot gas tsup [°C]	70,0	Operation mode	AC
Rel. humidity [%]	41,2	Refrigerant	R404A		
Condensing temp. [°C] (Dew point)	45,0	Coils x Sections x Circuits			

AIR DATA

Air volume flow	44.496 m³/h
Fans in stand-by	-
Ext. static pressure	0 Pa
Altitude	0 m
Air outlet temp.	45,1 °C
Coil direction	Horizontal
Air direction	Vertical

HEAT EXCHANGER

Surface	676 m²
Pressure drop	12 kPa
Pressure drop equivalent temp. diff.	0,2 K
Fin spacing	2,3 mm (11 FPI)
Internal volume	110 dm³
Max. operating pressure ⁽¹⁾	32 bar

MATERIALS

Tubes	Copper
Fins	Alu
Casing	
Finish	
Corrosion class	-

FAN(S)

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

Fan diameter	910 mm
Range of temp.	-40,0 to 70,0 °C
Sound power LwA ⁽²⁾	66 dB(A)
Sound pressure LpA (10m) ⁽²⁾	34 dB(A)

SOUND POWER SPECTRUM

Sound power spectrum 125 Hz	69 dB
Sound power spectrum 250 Hz	65 dB
Sound power spectrum 500 Hz	63 dB
Sound power spectrum 1 kHz	60 dB
Sound power spectrum 2 kHz	55 dB
Sound power spectrum 4 kHz	49 dB
Sound power spectrum 8 kHz	36 dB

FAN SET SERIAL PLATE DATA (PER FAN) ⁽³⁾

Speed	340 rpm
Power nominal	190 W
Starting current	2,0 A
Full load current	0,9 A

SELECTED SPEED DATA (PER FAN) ⁽³⁾

Speed	340 rpm
Power input	192 W
Operating current	0,4 A

CONNECTIONS

Condenser inlet	
Condenser outlet	
Condenser ends	

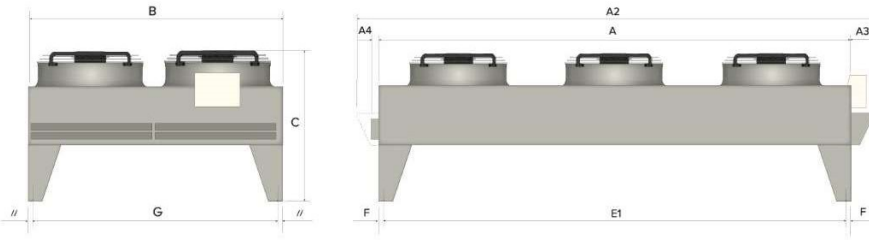
WEIGHT

Dry weight	1.019 kg
Refr. charge	30 kg

REGULATION(S)

ErP	2015
Energy efficiency class (2015)	B
PED Category	1 (Piping)

DIMENSIONS (4)



A 4.503 mm
A3 195 mm
F 40 mm

B 2.260 mm
A4 70 mm

C 1.333 mm
G 2.174 mm

A2 4.893 mm
E₁ 4.423 mm

OPTIONS AND ACCESSORIES

CATEGORY		OPTIONS AND ACCESSORIES	ITEM	ITEM NO.
Fan(s)	371.3	Wiring	Fans wired on one central junction box	
Packing	500.9	Packing material	Unpacked	

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 EU Pressure Equipment Directive: Category "1" when fluid group "2" at max. allowable pressure of PS = 32 bar.
- (2) Figures derived according to EN 13487. Sound pressure level given is mean value free field over reflective plain. Tolerances: ± 2 dB (global) / ± 5 dB (octave band). These values can be affected by the site environment.
- (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 take into account the guidelines of the fan-set manufacturer.
- (6) The use of low speed fans in combination with phase control can cause humming noise.
- (7) Kelvion will define the production site depending e.g. on type series, execution and location.

Version: 23.0313.0932

Creation date: Mar 14, 2023