

# EV-HPC-PCU-01 - Cooling unit



1237881

<https://www.phoenixcontact.com/us/products/1237881>

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CHARX connect, CCS type 1, CCS type 2, Cooling unit, Accessories, length: 1.5 m, with variable-speed fan, with variable-speed pump, for cooling the cooling liquid of a Phoenix Contact HPC DC charging cable

## Commercial data

Item number	1237881
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBLNY
GTIN	4063151344757
Weight per piece (including packing)	17,440 g
Weight per piece (excluding packing)	16,299 g
Customs tariff number	84195080
Country of origin	DE

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## Technical data

### Product properties

Product type	Cooling unit
Product family	CHARX connect
Type	Accessories
Design	with variable-speed fan with variable-speed pump
Charging standard	CCS type 1 CCS type 2
Charging mode	Mode 4

### Electrical properties

#### Cooling system

Cooling	Liquid-air cooling system (passive) semi-closed cooling circuit
Coolant	50% water, 50% glycol (Glysofor N)
Volume range	≤ 60 db(A) (with free-standing system and 1 m distance)
Supply voltage	24 V DC (Fan) 24 V DC (Pump)
Control voltage range	0.00 V DC ... 10.00 V DC (Fan) 0.00 V DC ... 10.00 V DC (Pump)
Current consumption	max. 1.97 A (Fan) max. 1.8 A (Pump)

### Interfaces

#### Function interface: Cooling system

Interface description	Quick release couplings, inflow and return flow, for hoses with an outer diameter of 12 mm
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#### Function interface: Fan

Cable structure	4 x 0.5 mm <sup>2</sup>
Single-core wire	Power supply RD Reference ground BU Speed output WH Control input YE

#### Function interface: Pump

Cable structure	2 x 0.34 mm <sup>2</sup> + 5 x 0.14 mm <sup>2</sup>
Single-core wire	Power supply RD Reference ground BK Motor shutoff signal GN Speed output BN Control input YE

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	RS-485 Modbus WH can only be used by the manufacturer
	RS-485 Modbus BU can only be used by the manufacturer

Function interface: Level sensor

connection	Plug straight M12 A
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## Material specifications

Material (Housing)	Aluminum
	Stainless steel

## Cable/line

Cable length	1.5 m (Fan)
	1.5 m (Pump)
Cable length	1.5 m (Fan)
Cable length	1.5 m (Pump)

## Mechanical properties

Cooling capacity	approx. 0.06 kW/K (at 2 l/min)
Volumetric flow	approx. 2 l/min (at 1 bar)
Coolant	50% water, 50% glycol (Glysofor N)

## Environmental and real-life conditions

Ambient conditions

Degree of protection (Fans)	IP55 (Fan)
Degree of protection (Pump)	IP65 (Pump)
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-25 °C ... 50 °C
Altitude	max. 1000 m (above sea level)
Volume range	≤ 60 db(A) (with free-standing system and 1 m distance)

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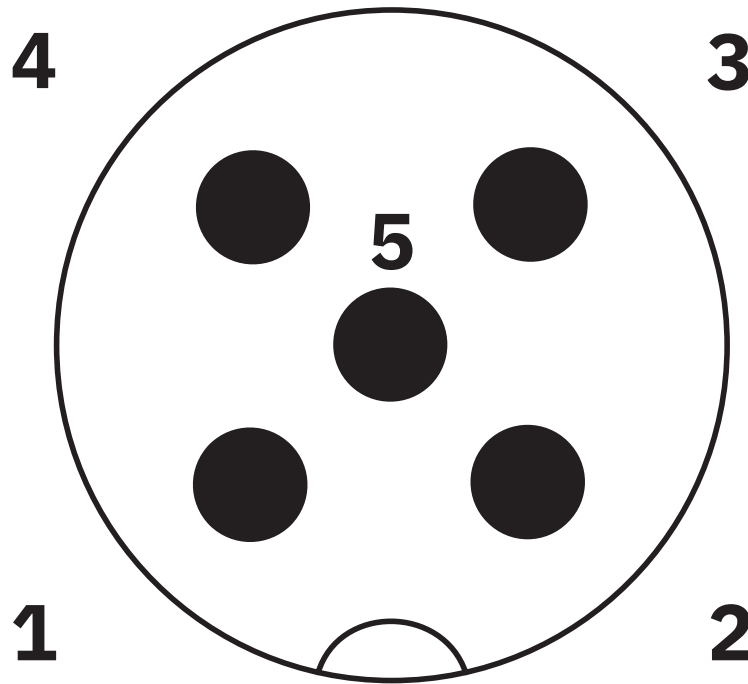
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## Drawings

Schematic diagram



Coolant tank fill-level sensor connected via M12 male with A-coding

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## Classifications

### ECLASS

ECLASS-13.0	27144792
ECLASS-15.0	27144792

### ETIM

ETIM 10.0	EC002884
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead(CAS: 7439-92-1)
SCIP	052e4ff5-7318-4019-8f73-22974279b3e6

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)