

Varistar CP LHX+ Cabinet with 5 and 10 kW Air/Water Heat Exchanger

FOR HIGH-PRECISION TESTING AND MEASUREMENT

NVENT SCHROFF VARISTAR CP LHX+ WITH 5 OR 10 KW AIR/WATER HEAT EXCHANGER

The Varistar CP LHX+ electronic cabinet including air/water heat exchanger with 5 kW or 10 kW cooling capacity is well-suited for applications where a fully sealed cabinet is required.



Cooling capacity from 5 kW up to 10 kW



Remote monitoring and control



Temperature regulation of +/- 0.1 K



Static load of 1,000 kg



EMC protection



Protection class IP 55

ADVANTAGES AND FEATURES

- Scalable:**
 By exchanging the 5 kW heat exchanger for a 10 kW heat exchanger, the cooling capacity can be adapted. The infrastructure in the cabinet remains unchanged.
- Future-oriented:**
 When the number of complex electronics in the cabinet increases and the power density along with it, only the heat exchanger must be replaced to achieve higher cooling performance.
- Hot-swap applicable:**
 The fan cassettes can be replaced without tools during operation.
- Space-saving:**
 Available starting at 600 mm x 800 mm (W x D) base area per cabinet.
- Precision control:**
 Controller with precise temperature regulation accuracy of +/- 0.1 K.
- Greater productivity, higher safety:**
 Configuration and monitoring of the cooling unit via display on the front door. Remote control via Ethernet interface also possible.



ORDER INFORMATION

Heat Exchangers

	DESCRIPTION	ITEM NUMBER		
		230 V VARIABLE SPEED FANS	115 V VARIABLE SPEED FANS	115 V FIXED SPEED FANS
5 kW/10 kW Heat Exchangers	10 kW heat exchanger with two fans	29714-016	29714-022	29714-033
	5 kW heat exchanger with one fan	29714-017	29714-027	29714-036

Spare Parts

	DESCRIPTION	ITEM NUMBER
Measurement – Control components	Controller	23130-668
	Display and accessories for LHX+	23130-666
	Door contact switch kit	26630-162

Accessories

	DESCRIPTION	ITEM NUMBER
Flow Rate and Water Accessories	Flow rate and water T° sensor kit	23130-663
	LHX+ water hoses connection kit 1.5 m	23130-660
	LHX+ water hoses connection kit 4 m	23130-661
	Water hoses duct for rear panel	23130-662
	Venting kit for heat exchanger if a heat exchanger was ordered as a spare part	26630-178

	DESCRIPTION	ITEM NUMBER
Parts to be ordered to retrofit solution in any non nVent SCHROFF 19" enclosure.	Heat exchanger (based on project requirement)	29714-016 29714-022 29714-033 29714-017 29714-027 29714-036
	Controller	23130-664
	Flow rate and water T° sensor kit	23130-663
	Hose and fittings for water	23130-665
	LHX+ water hoses connection kit 1.5 m / 4m	23130-660 or 23130-661

PS: Separating panels to separate hot zone (from door to 19" slide mount) and cold zone (from 19" slide mount rear panel) need to be created by the customer. Not delivered by nVent SCHROFF

	DESCRIPTION	ITEM NUMBER
Additional replacement parts available for purchase	Actuator and Ball Valve	23130-669
	Fan Tray LHX+ 5 kW	29714-026
	Fan Tray LHX+ 10 kW	29714-025

NVENT SCHROFF VARISTAR CP LHX+ CABINET WITH 5 AND 10 KW AIR/WATER HEAT EXCHANGER

MONITORING

Controller:

- Separate compact 19" control unit (2 U, with 1 U space usage) in the upper cabinet area
- Clearly marked plug & play sensor connections

Sensors:

- Temperature regulation accuracy of +/- 0.1 K
- Differential pressure sensor for fan speed control as standard
- Optional coolant flow and temperature monitoring

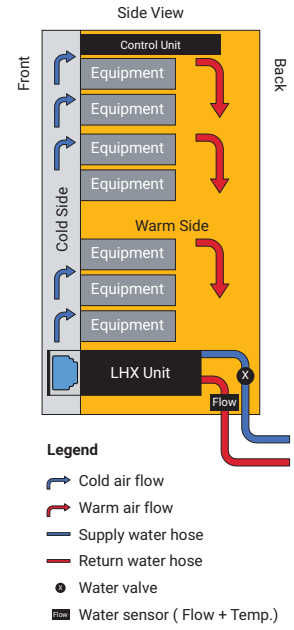
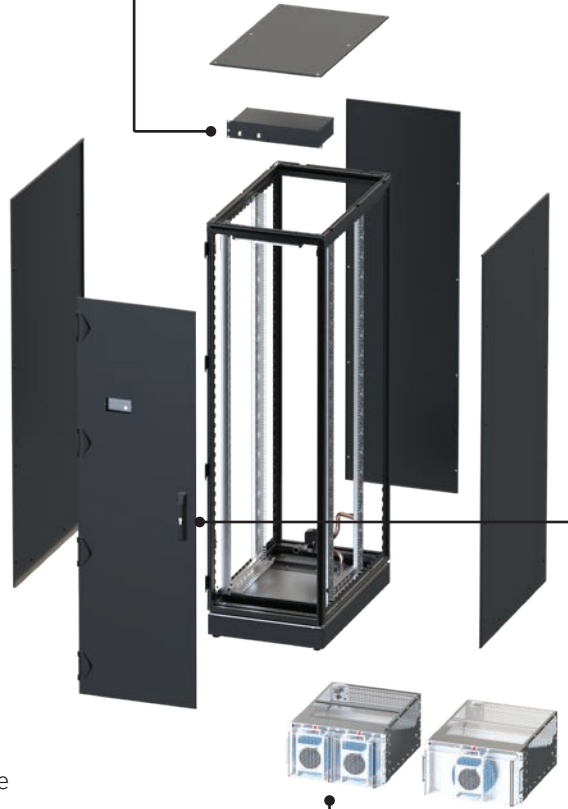
Access:

- Terminal with display and keyboard on front door for control without opening the door
- Ethernet interface for access to the cooling unit via web interface, SNMP, Modbus TCP
- Serial interface (RS485) for Modbus RTU
- Communication with guardian gateway management solution possible

CABINET SPECIFICATION

- Cabinet dimensions 600 W x 800 D or 1000 D
- Lever handle, locks with 333 profile half-cylinder
- Effective cable ducting without negative effect on high IP or EMC functions

Extensive range of components



COOLING

Concept:

- 19-inch heat exchanger (6 U) installed in lower cabinet section
- Scalable cooling performance
 - Double fan unit for 10 kW cooling performance
 - Single fan unit for 5 kW cooling performance
- The fan units can be exchanged without having to replace the heat exchanger
- Air flow volume of ~ 100/1800 m³/h
- Water flow temperature from 6°C to 25°C
- Ambient temperature from 5°C to 50°C

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