	√ 5	D		/		8
	×	Description	Code:	Specificat	tion: (Ta=35°C, dT=0°(0
		Heat transfer, cold side:	L	Liquid		
		Heat transfer, warm side:	A	Air		
		Cascade:	-			
~			10.0			
and the second		Cooling power: [W]	100	202 W @ 3 lpm (liters per minute)). (Tolerance: ±10%)	
		TEA Voltage, nominal: [VDC]	24	24 VDC		
		TEM Voltage: [VDC]	24	Nominal: 24 VDC (Max: 30 VDC)		
		TEM Current: [A]		Nominal: 6.9 A, Initial: 8.1 A (Calculat	ted. Tolerance: ±10%)	
		Fanls), cold side:	0	None		
		Fanls), warm side:	2	Nominal current: 0.5 A. Voltage rar	nge: 18 –26.4 VDC. L10: 60,0	000 hrs. at 40°E.
		Temperature controller, sensor:	0	None		
		Temperature control settings, trim options:	0	None		
		remperature controt servings, it in oprions.	Ū	-		
		Temperature control position:	0	-		
		Additional controller information:	0	-		
		Overheating thermos		None		
		Operating temperat		-20°C to +70°C at nominal voltage	2.	
		TE-Module(s) temperature specificat		Max. surface temperature: 80°C.		
		Enclos	ed:	Turbulators mounted in heat sink I	liquid channels (2x). L–PNIF	PP-6-1/8 (2x)
Note: Ecoled liquid block needs to be isolated from air humidity	Comment/Tre Hi-Pot te Designed by: A. Kim	Checked by: Approved by: M. Karlstedt A. Kim	Release d 2018–0 Title	ate: Project: 4–09 BOOSTE	s First angle A 1 V projection:	Dimension uni ► Metric: [π
	Hi-Pot te Designed by: A. Kim	Checked by: Approved by:	2018-0 Title: Part	ate: Project: 14-09 BOOSTE LA,100,24, LIQI	UID - AIR Rev. 02	Dimension un ► Metric: [π Scale: Size, - A3, 8



Installation and Service manual

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Installation:

M/

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1. The TE assembly must be protected from external force or violence.

2. The power line to the assembly needs to be protected by a fuse. The fuse rating should be of at least the nominal current of the assembly. It must withstand 150% of rated current for at least 60 seconds. This is valid at Ta=35 °C. Fuse ratings for other ambient temperatures (x°C) can be calculated with the formula $[[x^{\circ}C]]=[[35^{\circ}C]]/(1+0.005^{\circ}(x-35))$. This is valid when regulating with an ON/OFF regulation. At rapid temperature cycling where this is applicable, there can be need for even higher fuse ratings.

- 3. Cooled parts needs to be isolated from air humidity to minimize risk for condensation and thermally insulated for best performance.
- 4. Max ripple on supplied power =5%.
- 5. Switching power to TEM:s at frequencies between 0.01 Hz to 5 kHz will render premature failure of modules and must be avoided.

Service:

Fan impellers and heat sinks must be cleaned on regular intervals to reduce risk for overheating and reduction of cooling function. The interval may vary depending on environment.

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					General tolerances:	First angle /	Dimensi	on units:	Le l
					SS-ISO 2768-1	y projection: 🕣	Metri	c: [mm]	2
	Comment/Treating	1:							- <u>-</u>
	Hi–Pot teste								rty of
	Designed by:		Approved by:	Release date:	Project:				Lope
	A. Kim	M. Karlstedt	A. Kim	2018-04-09	BOOSTED				he pi
		airc	ты	Title:	la,100,24, liqui				i di ist
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