Product Information Packet

Model LHP-800CP

Solid State Liquid Cooled Cold Plate

without Temperature Control

Part #3-5095-0-000

Thank you for your purchase. Information has been enclosed regarding the installation, specifications, and wiring of your solid-state assembly. Please read and follow all instructions carefully before installation. Only qualified technicians should install this equipment.

If you have any questions regarding your equipment, please do not hesitate to call us at 773-342-4900, and we will be happy to assist you. We are open from 8:30 am-5:00 pm Central Time.

Included in this packet you will find:

Product Literature and Specifications

Assembly Drawing #LHP800-B-A17

Wiring Drawing #SK060905

Installation Drawing #LHP800-B-F8

Warranty Information



LHP-800CP LHP-300CP LHP-150CP

Liquid Cooled

FEATURES

- No moving parts
- Direct contact cooling as much as 51 °C below liquid temperature
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Mounts in any orientation

INCLUDES

- Compression fittings
- Auxiliary mounting holes
- Machined cold plate surfaces

Thermoelectric Cold Plates



LHP-800CP



LHP-300CP



LHP-150CP

SPECIFICATIONS LHP-800CP													
MODEL	PART NUMBER	NOTES	PERFORMANCE RATING BTU/HR	VOLTAGE VDC	CURRENT AMPS.	WEIGHT LBS. (KG)	MIN FLOW GPM	OPERATING AMBIENT °C	HEAT VOLTAGE				
LHP-800CP	3-5095-0-000	Cool only	700-830	24	14	5.2 (2.3)	0.3	0/+70	N/A				
LHP-800CPHC	3-5095-1-000	Heat/Cool	700-830	24	14	5.2 (2.3)	0.3	0/+70	120 VAC				

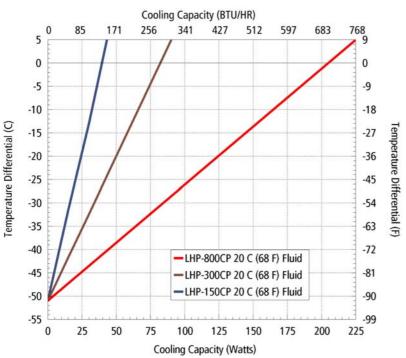
SPECIFICA	TIONS LHP-300	СР							
MODEL	PART NUMBER	NOTES	PERFORMANCE RATING BTU/HR	VOLTAGE VDC *	CURRENT AMPS.	WEIGHT LBS. (KG)	MIN FLOW GPM	OPERATING AMBIENT °C	HEAT VOLTAGE
LHP-300CP	3-7098-0-000	Cool only	280-335	12/24	12/6	1.8 (.81)	0.2	0/+70	N/A
LHP-300CPHC	3-7095-1-000	Heat/Cool	280-335	24	6	1.8 (.81)	0.2	0/+70	24 VDC

SPECIFICA	TIONS LHP-15	OCP COMPANY							
MODEL	PART NUMBER	NOTES	PERFORMANCE RATING BTU/HR	VOLTAGE VDC *	CURRENT AMPS.	WEIGHT LBS. (KG)	MIN FLOW GPM	OPERATING AMBIENT °C	HEAT VOLTAGE
LHP-150CP	3-8094-0-000	Cool only	130-160	12	4.5	.75(.34)	0.2	0/+70	N/A
LHP-150CPHC	3-8094-1-000	Heat/Cool	130-160	12	4.5	.75(.34)	0.2	0/+70	12 VDC
LHP-150CPHC	3-8099-1-000	Heat/Cool	130-160	12	4.5	.75(.34)	0.2	0/+70	120 VAC

Note: Option for temperature control, consult factory.

^{*}See also, "Power Supplies", P. 67

PERFORMANCE CURVE



LHP-800CP

USEFUL COOLING CAPACITY

205 Watts @ 0 °C Δ T

LHP-300CP

USEFUL COOLING CAPACITY

82 Watts @ 0 °C Δ T

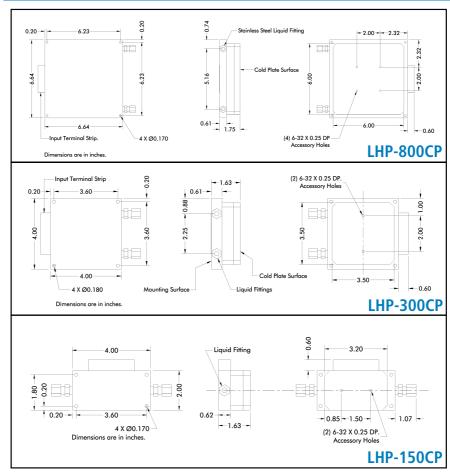
LHP-150CP

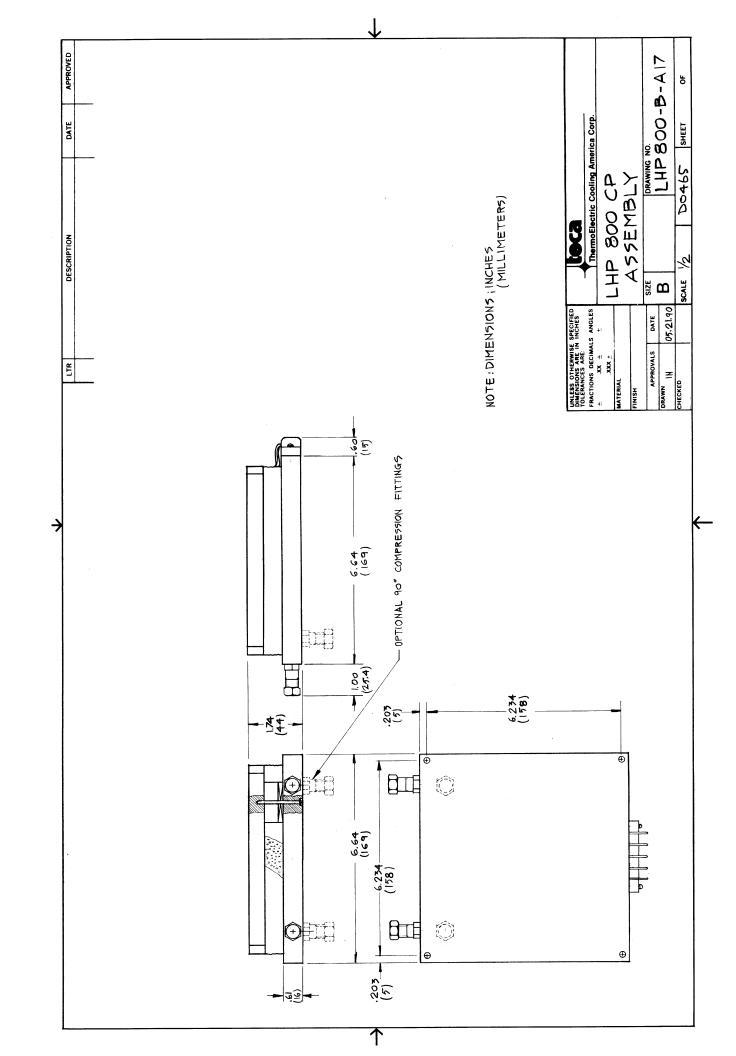
USEFUL COOLING CAPACITY

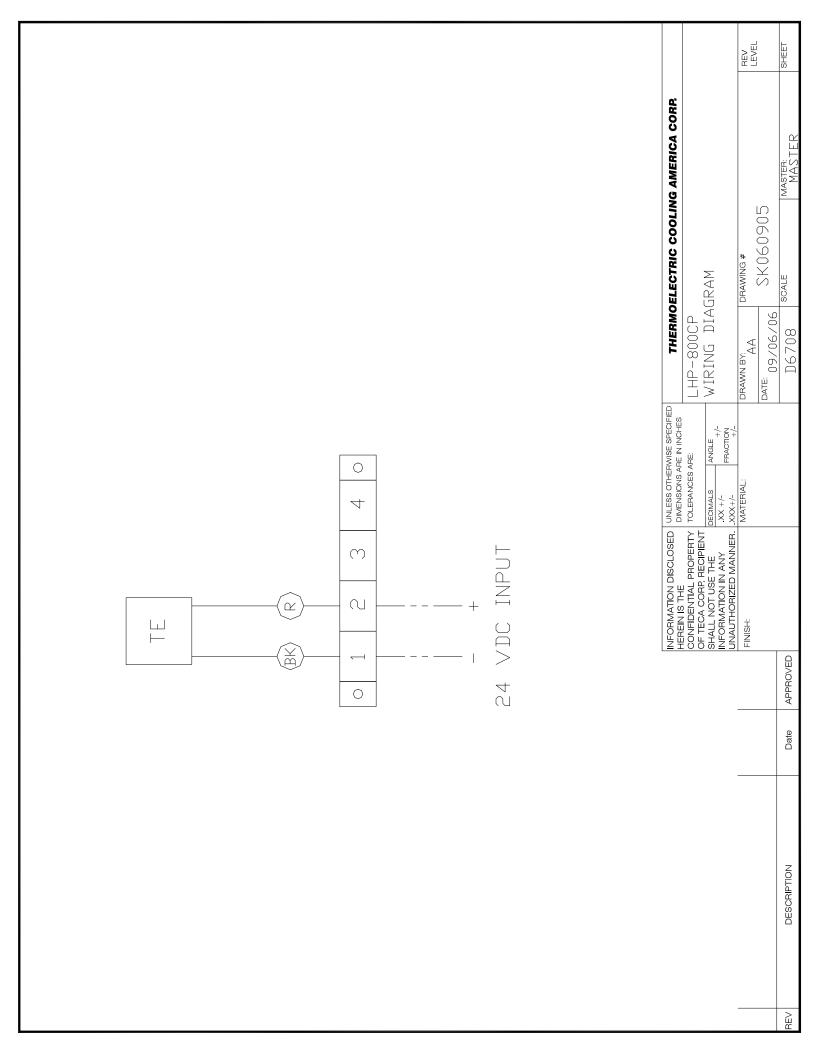
40 Watts @ 0 °C Δ T

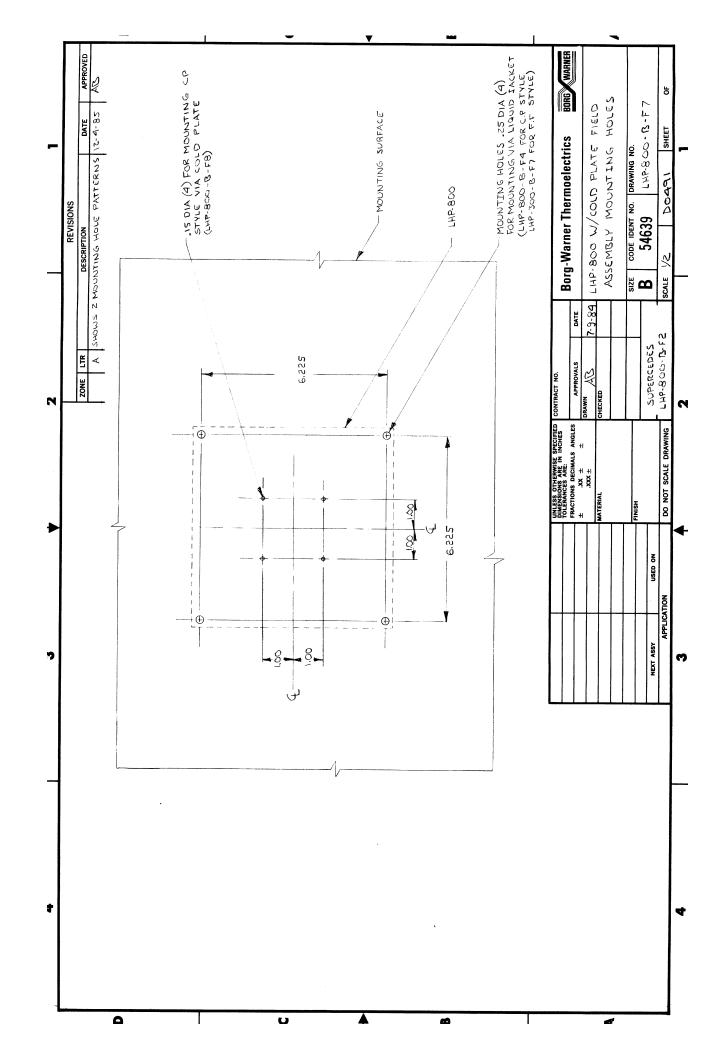
Equation	on of line: y=2	T(°C) x=Capa	city (Watts)
Fluid Temp	20°	40°C	60°C
LHP-800CP	y=.25x-51.0	y=.25x-56.0	y=.25-61.0
LHP-300CP	y=.62x-51.0	y=.62x-56.0	y=.62x-61.0
LHP-150CP	y=1.3x-51.0	y=1.3x-56.0	y=1.3x-61.0

DIMENSIONS









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-	DATE APPROVED				340 or 11	rque			of							ThermoElectrics	WA COLD PLATE)	DRAWING NO. LHP-800-B-F8	100
REVISION	DESCRIPTION	8]	ippropriate field		Spread evenly 10 mil coating of thermal grease (Dow type 340 or equivalent) on \underline{both} thermal contact surfaces with speedball rubber roller.	Install unit without sliding against mating surface using Stainless Steel screws if available and lock washers. Torque screws until snug. Do not over tighten.			Fit 1" insulation around margin of frame and exposed area of cooled surface.	insulation.		I.E. E. HP-800HC only) (LHP-800HC only)	: water flow.			BORG WARNER Th	PASSALL FOOD TAGTORISTIONS EMP-8 CCP (WA GOLD PLATE)	۵	
4	× 5	INSTALLATION INSTRUCTIONS	mounting holes as per appropriate field ing drawing.	Insure clean, flat mounting surface.	mil coating of thern th thermal contact s	out sliding against crews if available a Do not over tight	r lines.	leaks.	around margin of fr	Caulk insulation to seal and secure insulation.	and alignment.	(1) Black is -DC for T.E. (2) Red is +DC for T.E. (3) Blue is 110 VAC (LHP-800HC only) (4) White is 110 VAC (LHP-800HC only)	Do not operate unit without water flow.			D		SZE SZE	1 200
2 -	200	INST	Cut and drill assembly mount					. Inspect for water leaks.			. Inspect for leaks and alignment.	Connect power.	Caution:				TXX T T DRAWN XXX T T CHECKED		
TA NOTE	C		1.	2.	3.	4.	5.	•9	7.	8	•6	10.	11.			UNLESS OTHER DIMENSIONS A TOLERANCES A FRACTIONS DE	# XXX AXX MATERIAL	HSINIS	
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LIMITED WARRANTY

In the event a defect in material or workmanship is discovered in any of TECA's products within one year after the date they are delivered to Buyer, and if: (a) TECA is notified of the defect in writing by certified mail within 14 days of the date of discovery; (b) TECA may then either, at its sole discretion, inspect the product at Buyer's location, or require that the product be made available at Buyer's expense at TECA's premises for TECA's inspection within 14 days of the date of notification; and (c) the products are defective and the defects result from faulty materials and/or workmanship and not in any way from accident, misuse, misapplication, mishandling, modification, or alteration by the Buyer or the shipper, then TECA shall, at its sole option, repair or exchange defective products free of charge to Buyer, or credit to buyer the price of the defective products. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE EXCLUDED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL TECA BE LIABLE FOR ANY CLAIM BASED UPON BREACH OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER DAMAGES WHETHER SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOST PROFITS, BUSINESS INTERRUPTION, OR LOSS OF BUSINESS OR CUSTOMER RELATIONSHIPS.

RETURNED GOODS, RESTOCKING CHARGES

In order to return merchandise for any reason (repair, replacement, or credit) a return authorization number must be issued by TECA. New merchandise may not be returned for credit beyond 60 days from shipment. Charges for incidental or other damages may also be made. All returned goods must be sent freight prepaid. A restocking charge of 15% will apply. On special equipment and custom modified equipment orders, additional incremental cancellation charges may be made.