

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

Cold Plates

General Purpose VDC Input

40 Watts, 82 Watts, 205 Watts

Liquid Cooled



LHP-800CP



LHP-300CP



LHP-150CP

FEATURES

- No moving parts
- Direct contact cooling as much as 61 °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

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	Heat/Cool *	700-830	24	14	5.2 (2.3)	0.3	0/+70	24 VDC
LHP-800CPHC	3-5095-1-000	Heat/Cool **	700-830	24	14	5.2 (2.3)	0.3	0/+70	24 VDC

* Heating via reverse polarity to thermoelectrics

** Heating via embedded resistive heaters in the cold plate

SPECIFICATIONS LHP-300CP

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	Heat/Cool *	280-335	12/24	12/6	1.8 (.81)	0.2	0/+70	12/24 VDC
LHP-300CPHC	3-7095-1-000	Heat/Cool **	280-335	24	6	1.8 (.81)	0.2	0/+70	24 VDC

* Heating via reverse polarity to thermoelectrics

** Heating via embedded resistive heaters in the cold plate

SPECIFICATIONS LHP-150CP

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	Heat/Cool *	130-160	12	4.5	.75(.34)	0.2	0/+70	12 VDC
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

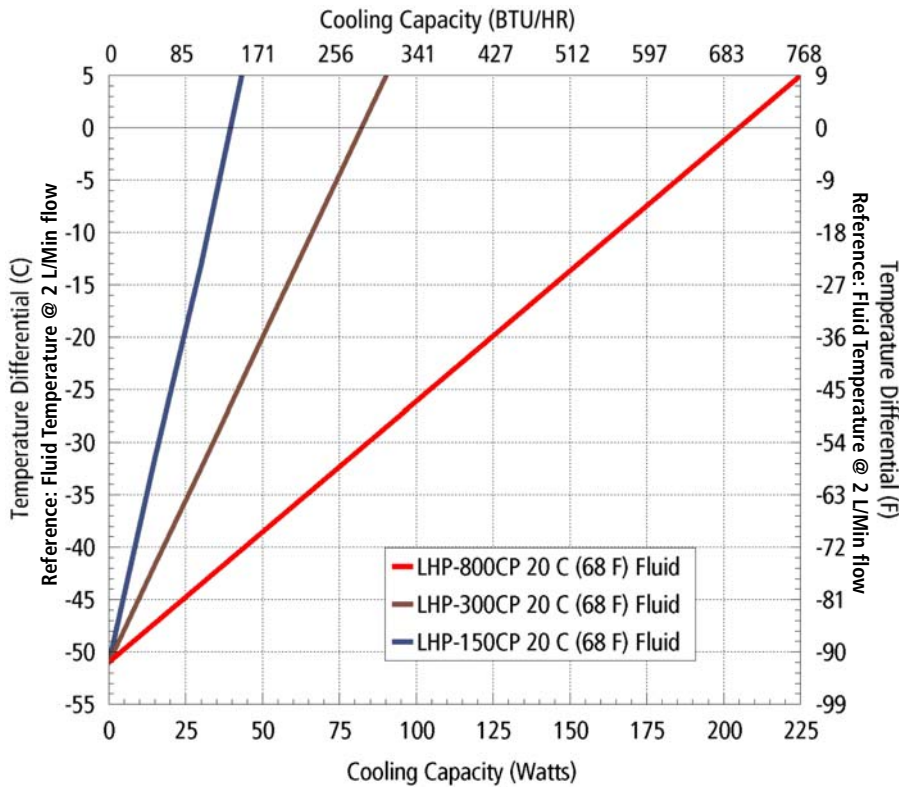
* Heating via reverse polarity to thermoelectrics

** Heating via embedded resistive heaters in the cold plate

Note: Option for temperature control, consult factory.

See also , "Power Supplies"

PERFORMANCE CURVE



LHP-800CP

COOLING CAPACITY
205 Watts @ 0 °C ΔT

LHP-300CP

COOLING CAPACITY
82 Watts @ 0 °C ΔT

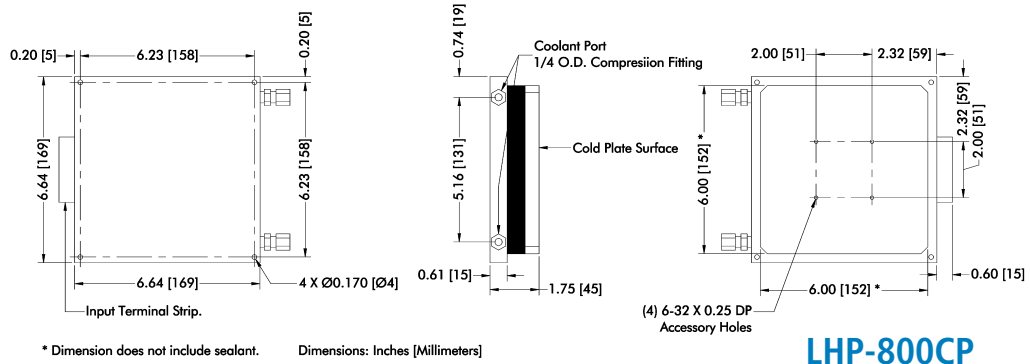
LHP-150CP

COOLING CAPACITY
40 Watts @ 0 °C ΔT

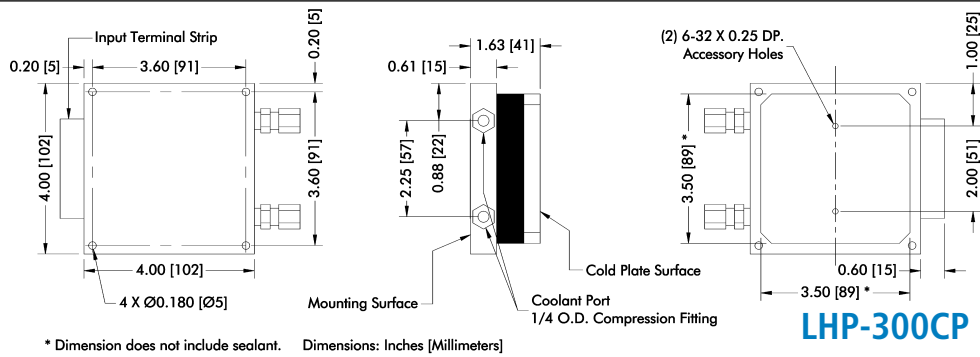
Equation of line: $y = \Delta T(°C)$ $x = \text{Capacity (Watts)}$

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	$y = 1.3x - 51.0$	$y = 1.3x - 56.0$	$y = 1.3x - 61.0$

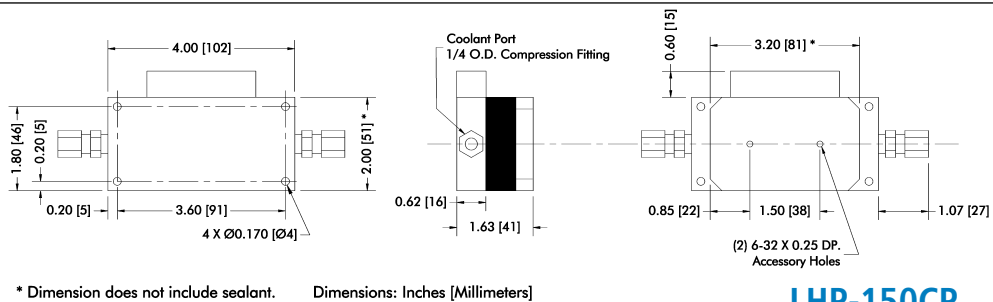
DIMENSIONS



LHP-800CP



LHP-300CP



LHP-150CP