

LC-SSX1 Heat Exchanger



- One piece tube construction eliminates epoxy joints and dissimilar metals in the liquid loop.
- Tubing is made of 316L stainless steel tubing which permits use with a wide variety of liquids.
- Aluminum base plate provides high heat conduction.
- 3/8 inch (9.65 mm) OD tubing accepts a wide variety of compression fittings.
- Can be used with a standard cold plate cooler. Through-holes are located for mounting directly to the CP-061, CP-065, the CP-110, or the CP-121 cold plate cooler, or for mounting one or two directly to the CP-200 cold plate cooler.
- RoHS compliant.

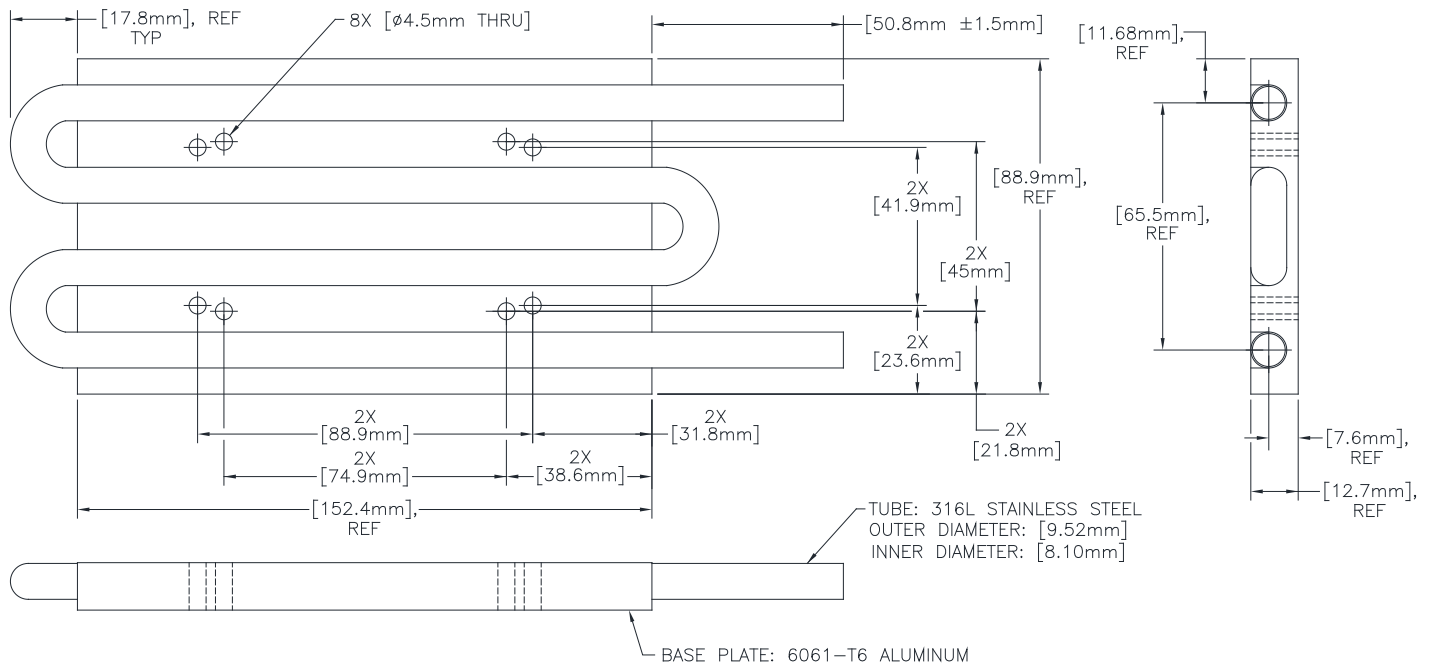
TE TECHNOLOGY, INC.®

1590 Keane Drive
Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
FAX: 231-929-4163
email: cool@tetech.com

Expert Engineering, Precision Manufacturing: *Quality Thermal Solutions Delivered*

A 3D PDF, .igs, and .sldprt solid models are also available from the website. Contact TE Technology for 3D solid models in STEP or SAT format.



NOTE: ALL DIMENSIONS IN MILLIMETERS

Maximum fluid pressure: 861 kPa

Weight: 0.39 kg

If you intend to mount the LC-SSX1 to a TE Technology, Inc. standard cold plate cooler, an M4 x 0.7 20 mm long screw with an M4 washer is recommended. Use 4 screws and torque each screw to 1.3 N-m. Use thermal grease or other suitable thermal interface material between the cold plate and LC-SSX1.

Please review all product and technical information, FAQ's and ordering information posted on our web site before purchasing or using this product.

If you intend to use a fluid other than water with the LC-SSX1, consult with TE Technology, Inc. for further design assistance. You should also verify fluid compatibility with 316L stainless steel and with any associated fittings.

The LC-SSX1 should be oriented so that if a leak were to occur, fluid would spray/drain away from electrical contact points.

Water expands when freezing! Do not allow water or other similarly behaving fluids to freeze in the LC-SSX1; otherwise, damage could result.

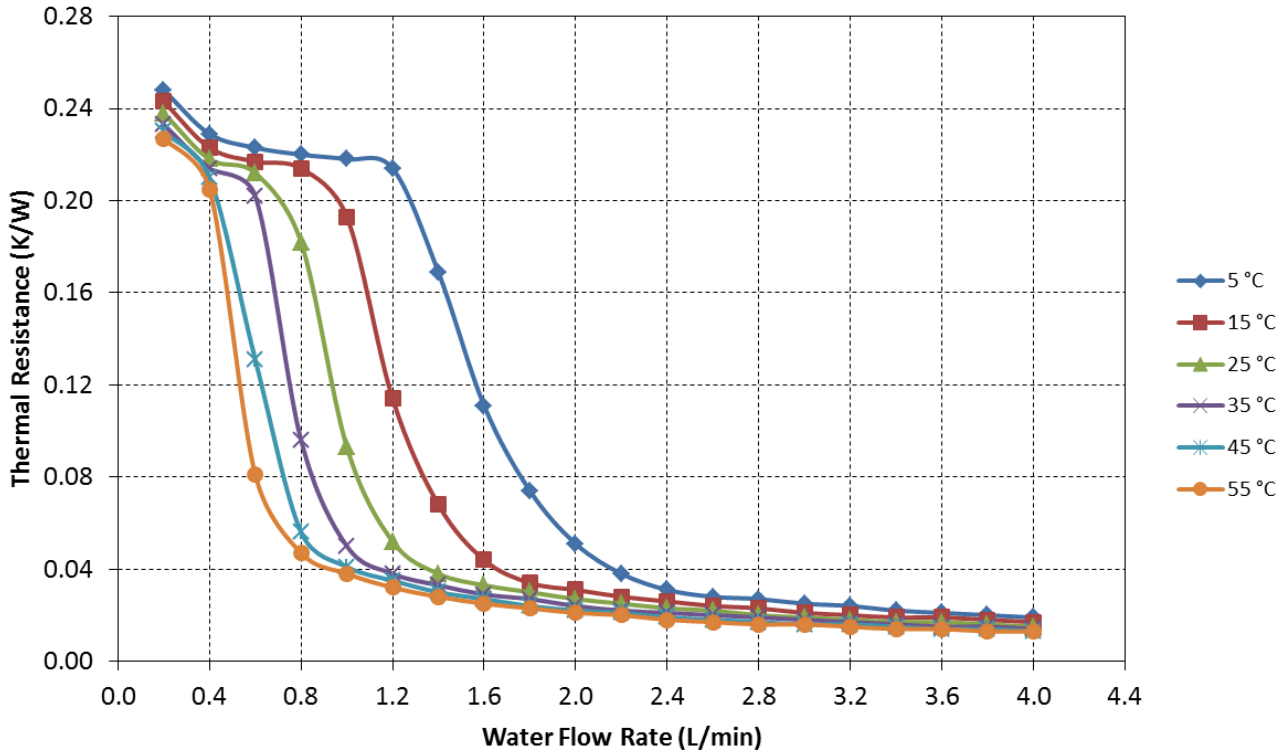
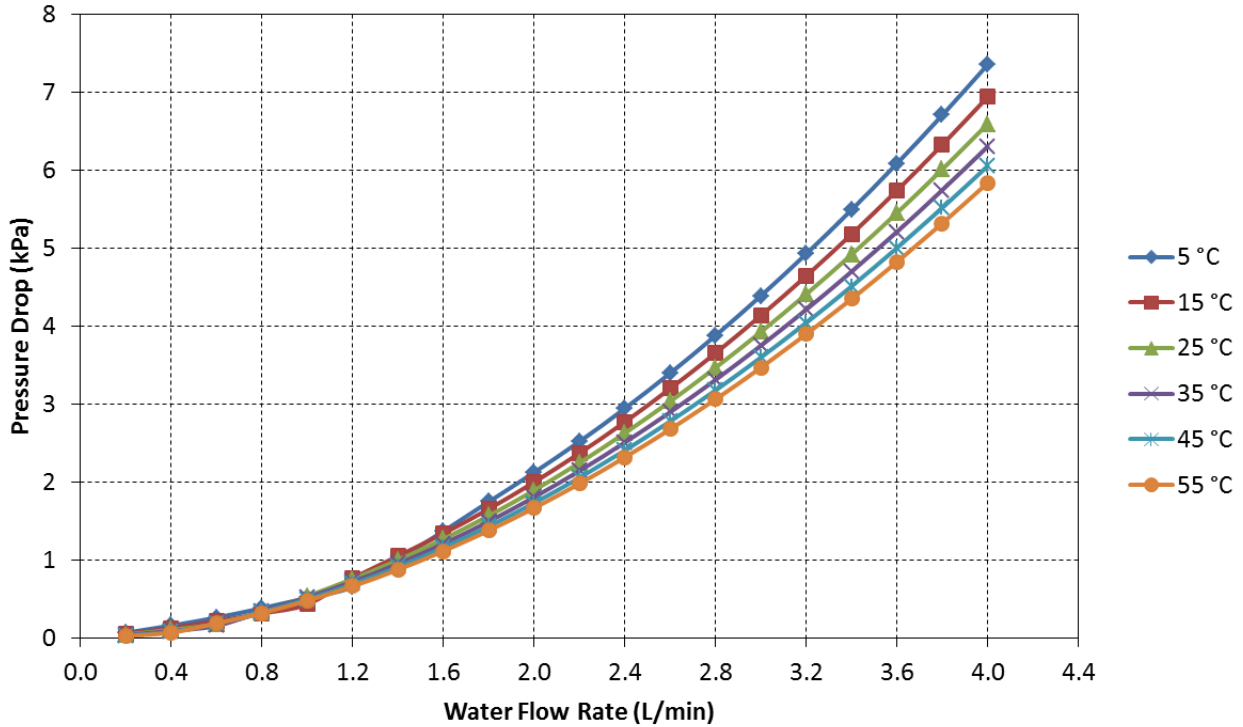


1590 Keane Drive
 Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
 FAX: 231-929-4163
 email: cool@tetech.com

Expert Engineering, Precision Manufacturing: Quality Thermal Solutions Delivered

LC-SSX1 Performance using Water at various inlet temperatures



NOTE: The calculated thermal resistance curve is based on the assumption that the heat load is evenly spread across the plate surface.



1590 Keane Drive
Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
FAX: 231-929-4163
email: cool@tetech.com

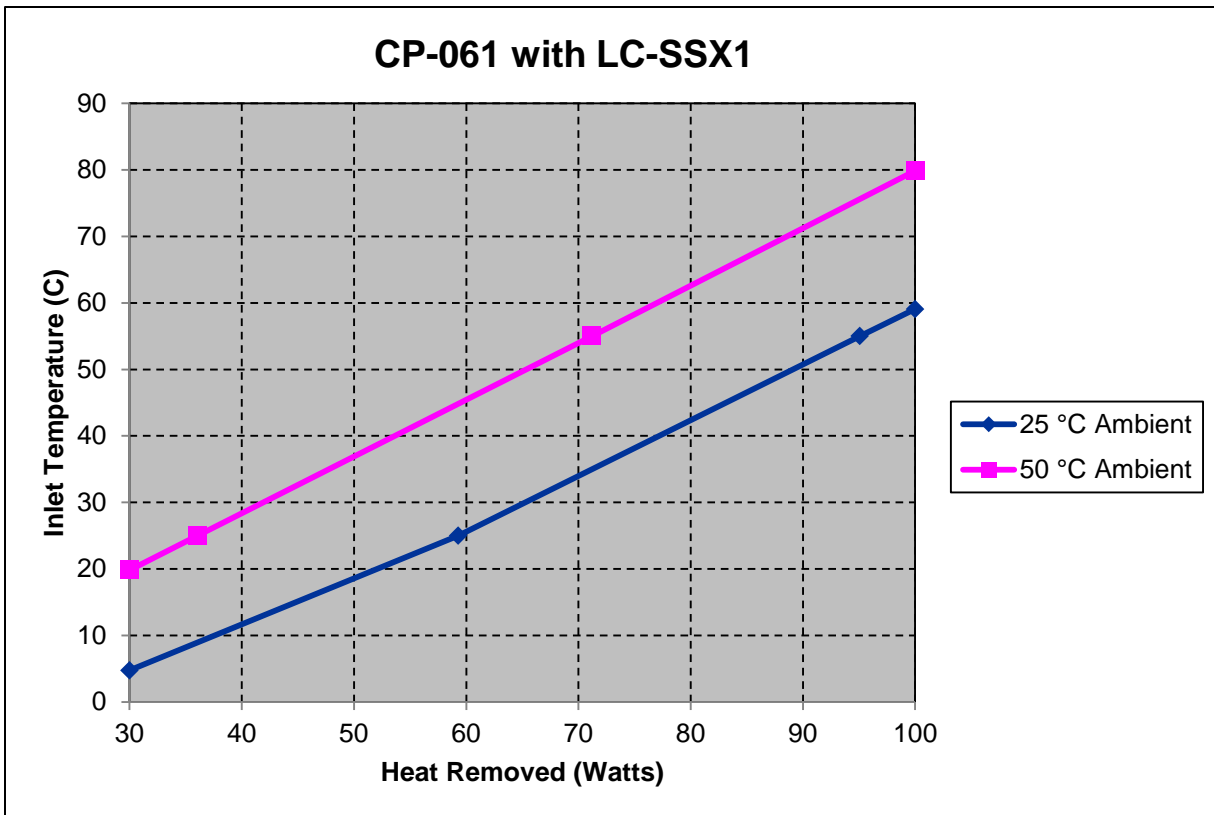
Expert Engineering, Precision Manufacturing: Quality Thermal Solutions Delivered

Thermal Performance when used with Standard Cold Plate Coolers

The calculated performance curves below are based on the LC-SSX1 being mounted to a TE Technology standard cold plate cooler. The following assumptions apply:

1. thermal grease, TP-1, (see accessories at www.tetech.com) is used between the cold plate and the LC-SSX1 (0.04 mm thick layer)
2. water is flowing at 1.6 L/min through the LC-SSX1

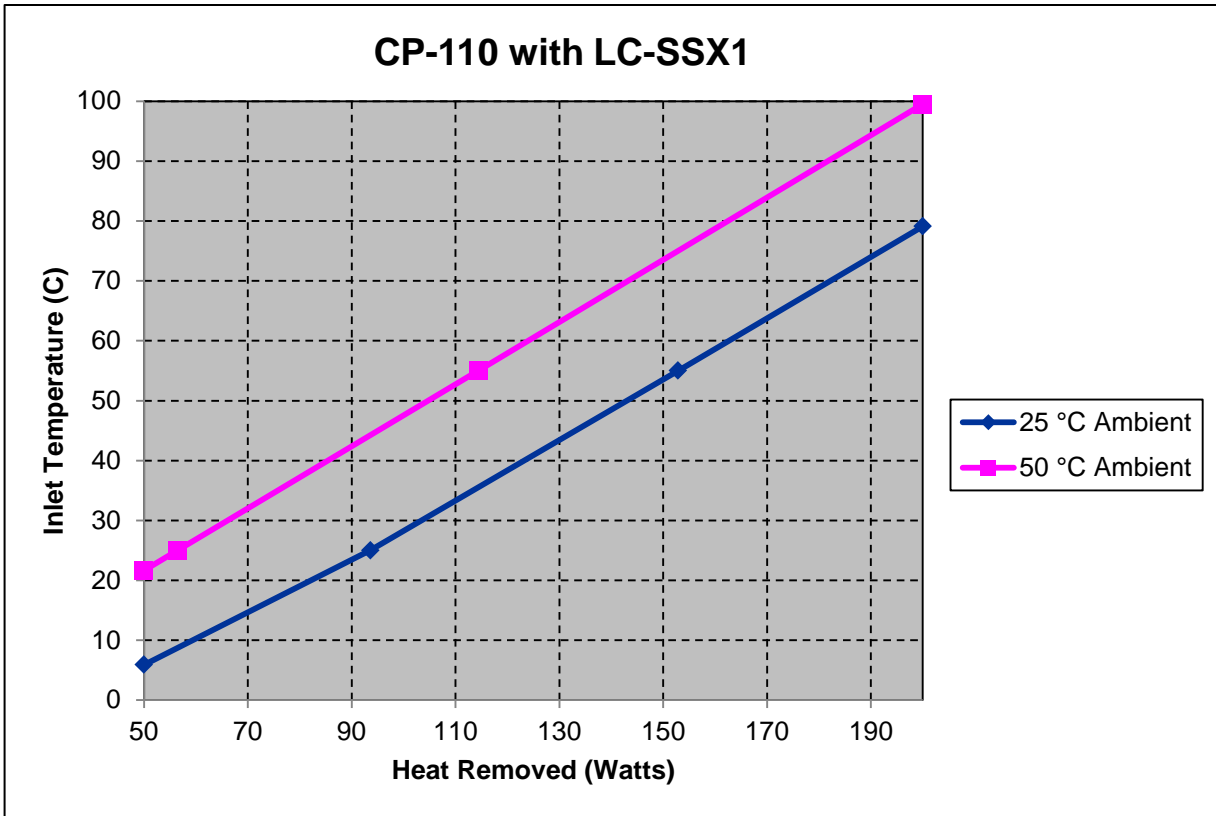
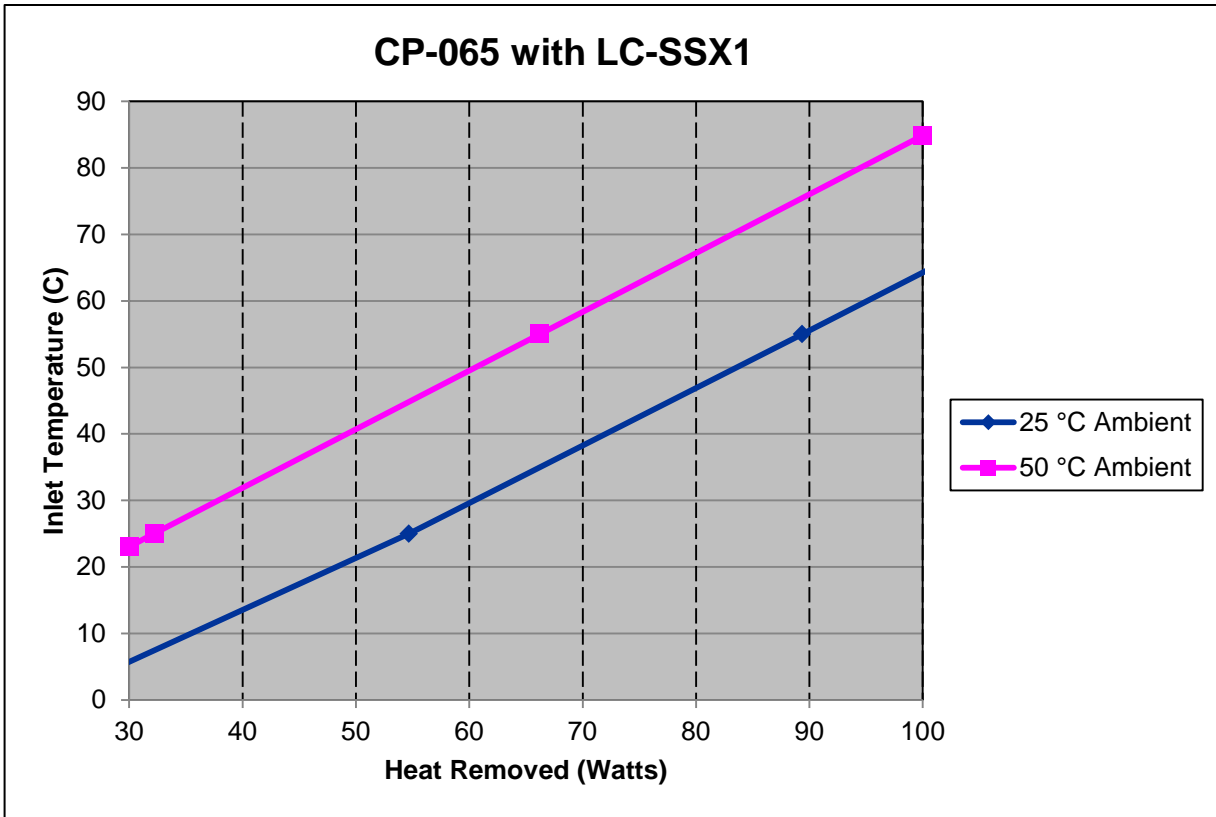
Please also note that the dashed lines on certain portions of the graph represent points where the cooler should not be operated. Otherwise, damage to the cooler could result.



1590 Keane Drive
Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
FAX: 231-929-4163
email: cool@tetech.com

Expert Engineering, Precision Manufacturing: Quality Thermal Solutions Delivered

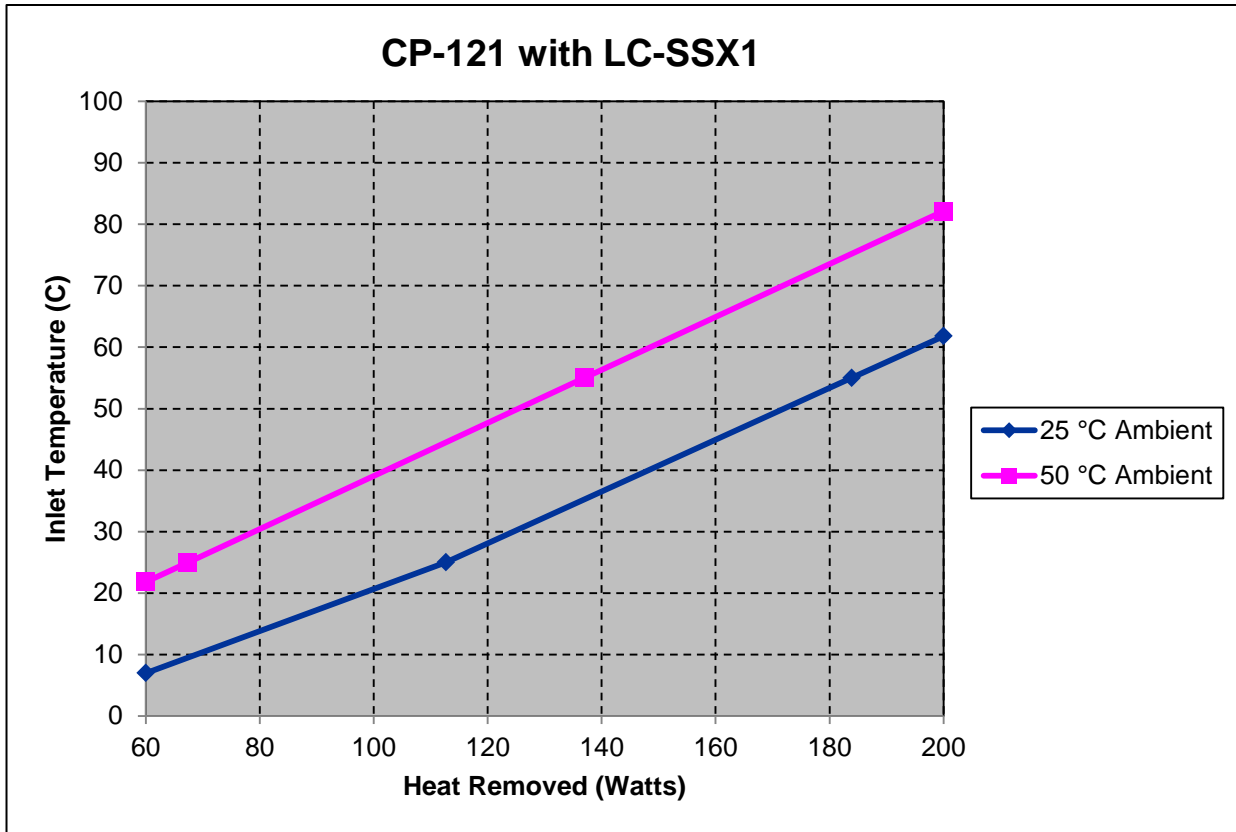


1590 Keane Drive
 Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
 FAX: 231-929-4163
 email: cool@tetech.com

Expert Engineering, Precision Manufacturing: Quality Thermal Solutions Delivered

CP-121 with LC-SSX1

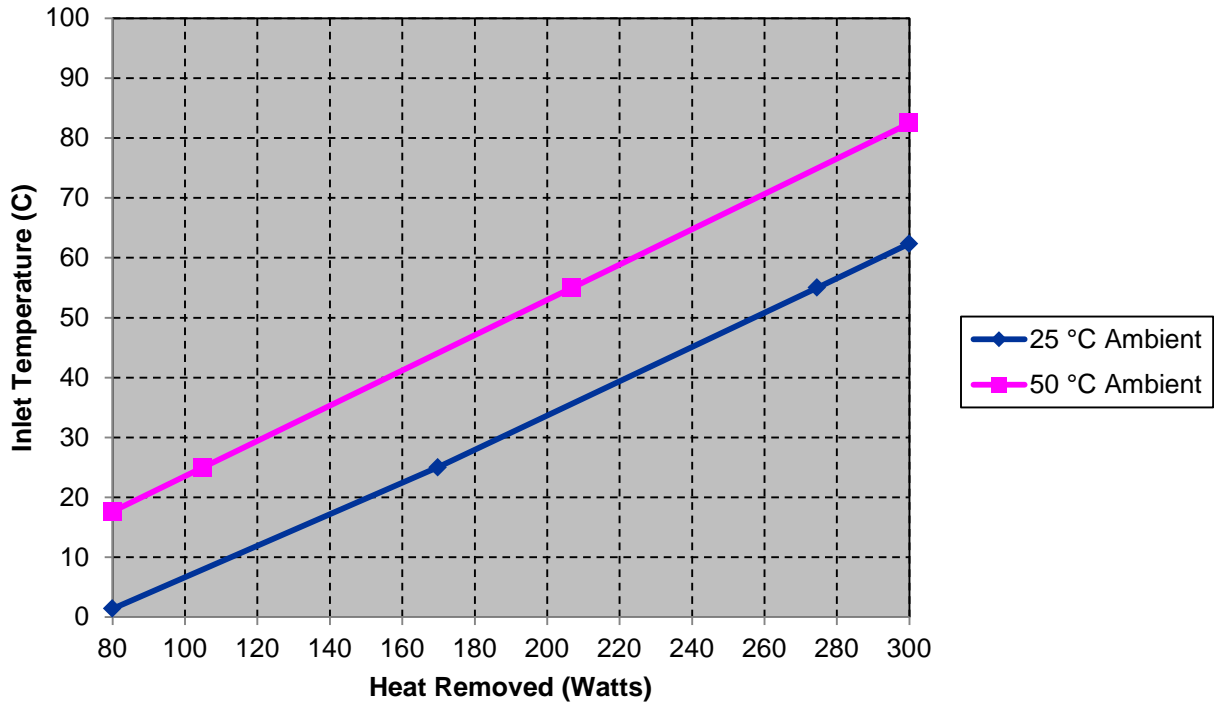


1590 Keane Drive
Traverse City, MI 49696-8257
www.tetech.com

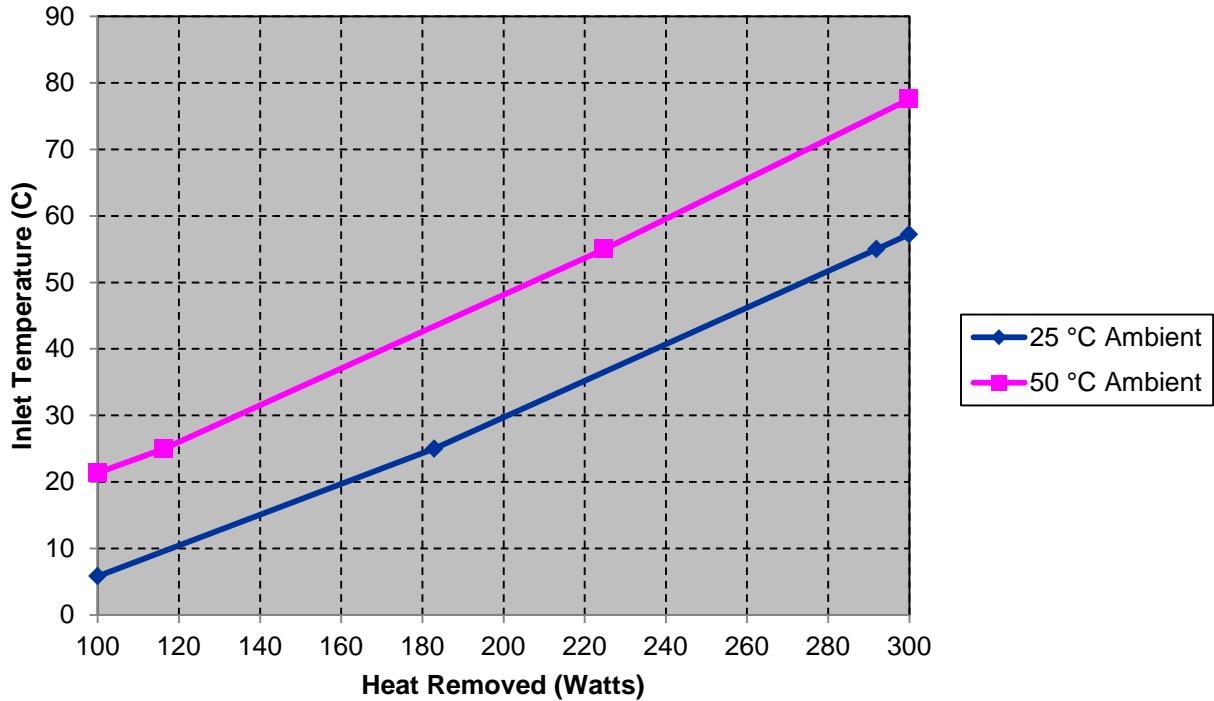
TEL: 231-929-3966
FAX: 231-929-4163
email: cool@tetech.com

Expert Engineering, Precision Manufacturing: *Quality Thermal Solutions Delivered*

CP-200 with One LC-SSX1



CP-200 with Two LC-SSX1



1590 Keane Drive
Traverse City, MI 49696-8257
www.tetech.com

TEL: 231-929-3966
FAX: 231-929-4163
email: cool@tetech.com

Expert Engineering, Precision Manufacturing: Quality Thermal Solutions Delivered