

Brazed Plate Heat Exchanger 582400 (46905-00)

FESTO

LabVolt Series

Datasheet



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Table of Contents

General Description _____ 3

General Description

The Brazed Plate Heat Exchanger is designed to transfer heat from a warm fluid to a cold one. It is the default heat exchanger in the Pressure, Flow, Level, and Temperature Process Training Systems, but other optional models are available to introduce students to the different characteristics of each one.

The Brazed Plate Heat Exchanger is a compact type of exchanger made of a series of thin, usually corrugated plates which, once joined, are designed to create cavities in which the process fluids flow. Each plate has four corner ports (one inlet, and one outlet for each of the two fluids). When the plates are assembled, the ports line up to give access to the cavities. For each cavity, a pair of gaskets or restrictions alternately blocks the access to one of the two fluids and lets the other one flow from the inlet to the outlet. The alternating layers of cold and warm fluids separated by a thin and thermally conductive wall allow for a very good heat transfer between the fluids.

Available optional heat exchangers:

- 46905-A Gasketed Plate Heat Exchanger
- 46905-B Shell and Tube Heat Exchanger (1 pass)
- 46905-C Shell and Tube Heat Exchanger (4 pass)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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