Multi-Port Plate Exchanger Model - Acrylic



Model: 115-MPPE

A common characteristic of most mechanical and chemical systems is the need to transfer heat from one fluid (liquid or gas) to another, and most systems use heat exchangers to accomplish this task. In a heat exchanger, the

two fluids do not make direct contact. Instead, heat passes from the hotter fluid to the metal isolating the fluids

and then to the cooler fluid.

Common applications of heat exchangers include heating, ventilation, and air conditioning (HVAC) systems; preheaters or coolers in fluid systems; radiators on internal combustion engines; and boilers, evaporators, and

condensers used with fluids like oils, wastewater, hydrocarbons, biogases, etc. in industries such as oil and gas

refining and power generation.

Although heat exchangers come in a wide variety of shapes, sizes, and designs, there are two basic types of heat

exchangers: shell and tube heat exchangers and plate-type heat exchangers. Rather than tubes, plate-type heat

exchangers use plates to separate hot and cold fluids. Baffles direct the alternating flow of fluids between each of

the plates.

Compared to shell and tube heat exchangers, plate-type heat exchangers can transfer much more heat, because

each of their plates has a large surface area that provides a larger heat transfer area. As a result, plate-type heat

exchangers tend to be smaller than shell and tube heat exchangers with a similar heat transfer capacity.

However, plate-type heat exchangers aren't as widely used because it's difficult to effectively seal the large

gaskets between the plates. That's why they tend to be used in low-pressure applications like oil coolers on

engines.

Bayport Technical's Multi-Port Plate Exchanger Model - Acrylic (115-MPPE) showcases the operational features of a

multi-port plate-type heat exchanger. This sturdy, transparent acrylic training model allows learner to dismantle the training aid, examine the component parts, and understand how the unit is assembled, including gasket

positioning. Instructors can then let learners reassemble the unit for training purposes.

SPECIFICATIONS

Allows for dismantling and reassembling

PRODUCT DIMENSIONS

• For overall dimensions, please contact Bayport Technical.

Address

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