

דרך קצרה

Brief summaries of cRc Kashrus Policies

PLATE HEAT EXCHANGER

A heat exchanger is a machine which allows liquids to be heated or cooled via indirect contact with the heating or cooling media. A plate heat exchanger is made of dozens of identical, thin, ruttled, stainless steel plates (shown in the pictures) with dozens of these plates sandwiched together to create the complete heat exchanger. The product and heating media flow in the thin space between one plate and the next, as follows:

- Product flows between plates 1 and 2, 3 and 4, 5 and 6 etc.
- Media flows between plates 2 and 3, 4 and 5, 6 and 7 etc.

Accordingly, each plate has product on one side and media on the other. As the product and media flow through their respective areas, the heating media transfers its heat through the plate into the product. To see a visualization of how this

works, see the video at <https://bit.ly/3rAgGR2>, starting at about 5 minutes in.

Heat exchangers can be *kashered* relatively easily by draining all heating/cooling media, cleaning the heat exchanger thoroughly, waiting 24 hours, and then heating fresh water to *hag'alah* levels in the heat exchanger.

CRC POLICIES

22. How should a simple heat exchanger be *kashered*?

Clean it thoroughly, drain all heating media, wait 24 hours, heat fresh water to *hag'alah* levels in the heat exchanger, and allow it to circulate for 5-10 minutes.

מראה מקומות

שולחן ערוך סימן תנ"א סעיף ב'

