

Heat exchanger

The esPRO® Heat exchanger provides precise and reliable temperature control of chemical solutions. It ensures that chemical baths, such as etching or cleaning solutions, remain at a constant temperature essential for maintaining uniformity and quality of the wafers.

Its multitube design increases thermal efficiency, enabling fast heat exchange between the process fluids and cooling/heating mediums. Its compact design saves space and integrates seamlessly with existing wet process equipment.

RESISTANT TO MOST LIQUID CHEMICALS

HIGH CLEANLINESS

HIGH THERMAL EFFICIENCY

COMPACT DESIGN

HIGH-PURITY PFA TUBING WITH NPP HOUSING



The esPRO® Heat exchanger consists of high-purity fluorocarbon polymers making it long-lasting and resistant to most liquid chemicals. It also features superior non-adhesiveness, ensuring that almost no staining or scaling occurs on this product and high thermal efficiency can be maintained. The connector is all made of fluorocarbon polymers by means of fusion bonding.

Configuration

ITEM	SPECIFICATIONS
Tubing Material	PFA
Housing material	NPP
Number of tubes	109
Tube size	Ø 3.3 mm x Ø 2.5 mm
Heat exchange surface	0,26 m ²
Thermal coefficient	80 - 180 Kcal/m ² .hr. °C
Max. pressure	0.4 MPa
Operation temperature	5 - 40°C
Connection IN/OUT	¾" S 300 type P-Series Fitting
Dimensions	Ø 110 mm x 402 mm

