

ADVANCED HEAT TRANSFER SOLUTIONS FOR POLYMERS

INNOVATIVE TECHNOLOGY FOR ENERGY-EFFICIENT OPERATIONS

Polymers heating and cooling

In many polymer processes, controlling the temperature of the polymer is an important step in maintaining product quality and ensuring a consistent capacity.

Solex Thermal Science is a global provider of moving bed heat exchangers that leverage proprietary vertical plate technology to heat or cool polymer materials.

The Solex Advantage

Solex heat exchange technology delivers high heat transfer efficiency, with low energy loss and a small footprint. The technology can be used for a variety of polymer applications, including cooling pellets, maintaining ideal temperature of product to the extruder and de-volatilizing pellets.

Solex's advanced thermal modeling, rich reference list and years of experience in this field makes Solex the ideal partner for your next polymer heating or cooling application.



Accurate and efficient heat transfer

Solex's vertical plate technology allows for accurate control of the temperature of polymers regardless of variable input temperature conditions. This level of control ensures product quality is maintained and the capacity of the overall system is not compromised.

Small footprint & modular design

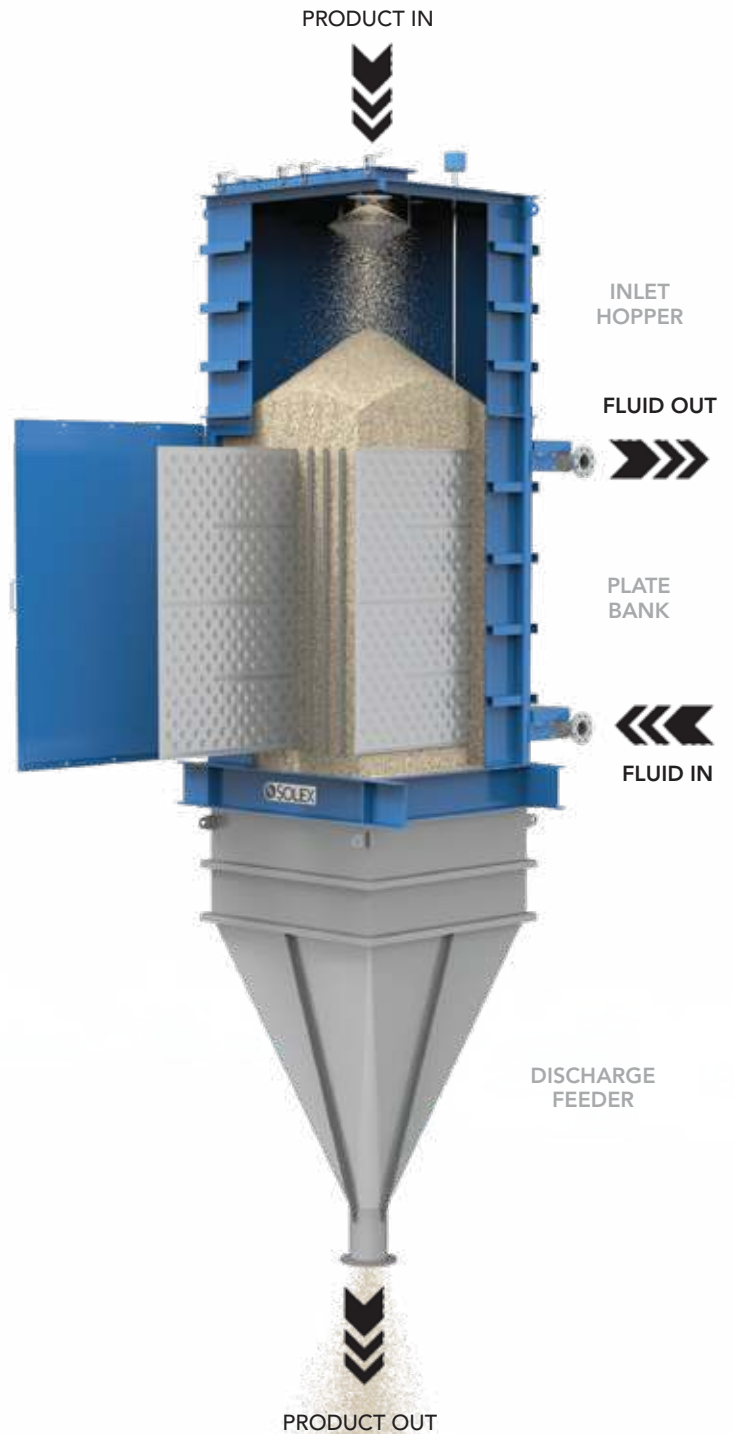
The vertical orientation of Solex's moving bed heat exchanger achieves a small installation footprint, allowing for it to be easily retrofitted into existing plants or use less space within new plants. The unit can be configured with modular banks, allowing for easy upgrades, making it ideal for capacity increases within existing operations by adding modules to increase the throughput of the heat exchanger. Closely spaced heat exchanger plates maximize efficiency while minimizing space.

Reduced installation & operating costs

Solex technology is designed to operate without moving parts, offering simple installation, low maintenance and years of reliable operation. The custom design reduces downtime and lowers maintenance expenses by incorporating easy access to the heat transfer areas for cleaning, removal and isolation of individual plates, if required.

Solex indirect cooling and heating technology offers substantial benefits over competing technologies for polymer applications, including:

- Zero product degradation & contamination
- Stable final product temperatures
- Customized, compact & modular design
- Reduced installation & operating costs
- Highly energy efficient
- Near zero emissions
- Inert gas blanketing available



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