

# INCREASE ROOFING PRODUCTION WITH HEATING SOLUTIONS FOR LIMESTONE AND MINERAL RAW MATERIALS

INNOVATIVE TECHNOLOGY FOR ENERGY-EFFICIENT OPERATIONS



## Heating for limestone mineral fillers and granules

The heating of raw materials during the production of bitumen-based products such as shingles and roofing materials can significantly increase production capacity without compromising quality. Heating these various filler materials reduces overall time in the mixing stage.

## The Solex advantage

For the minerals and abrasive materials processes, Solex's moving bed heat exchangers use vertical plate technology to deliver results while providing low energy consumption and near-zero emissions.

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



# PROPRIETARY TECHNOLOGY THAT MAXIMIZES ENERGY EFFICIENCY

## Increased energy efficiency

The energy efficiency of the overall plant is also improved with the use of low-temperature thermal oil.

## Higher product quality

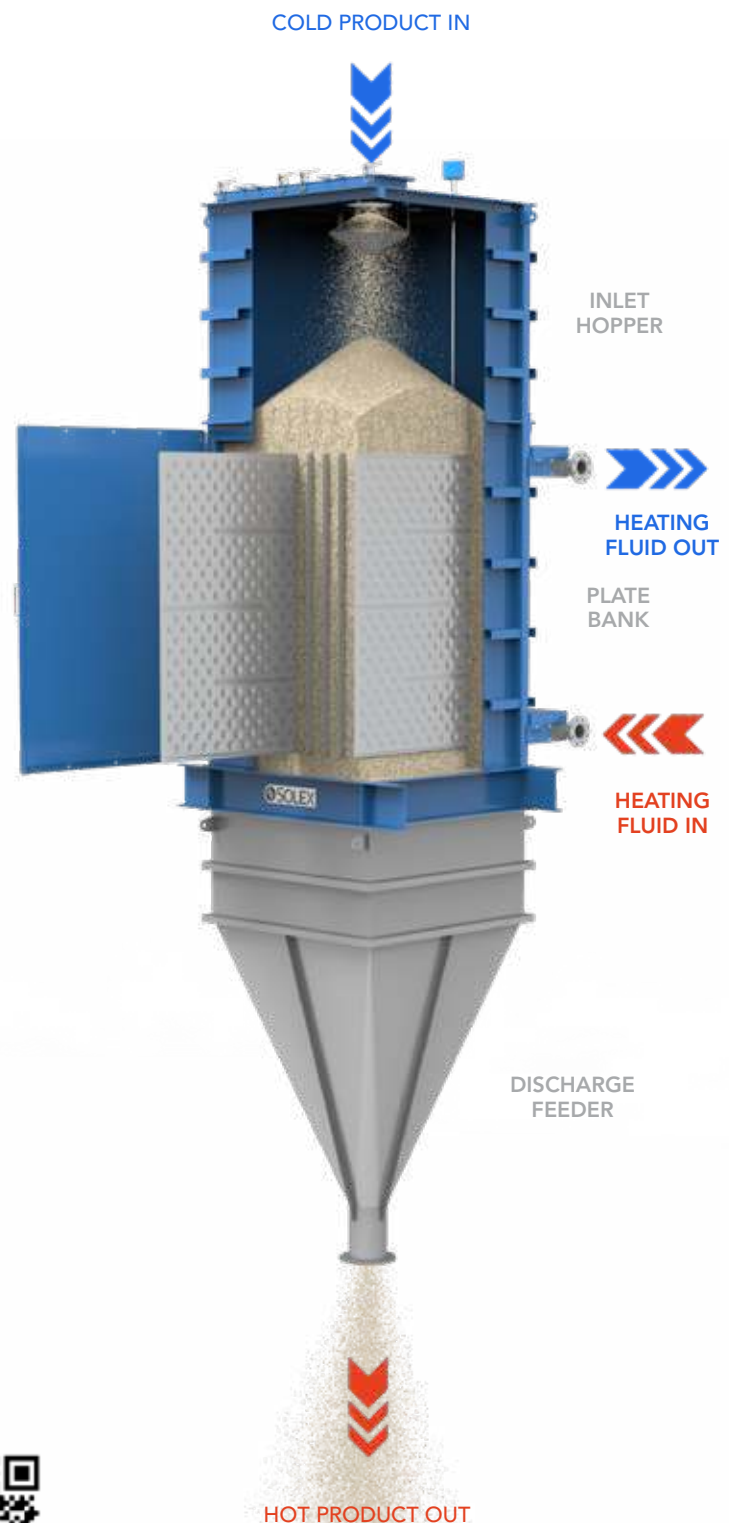
The benefit to pre-heating raw materials is higher quality shingles and roofing production. As an example, the granules achieve better adhesion to the asphalt of the shingle when heated prior to application.

## Low abrasion

Solex's moving bed heat exchangers are capable of effectively heating highly abrasive and dense materials without degradation or wear to the exchanger or heat transfer plates. The mass flow design of the heat exchanger ensures uniform material flow controlled at low velocities.

## Compact and modular design

The vertical configuration of Solex heat exchange technology results in a small installation footprint. The unit can easily be integrated into new plants and retrofitted into existing facilities, making it ideal for debottlenecking and capacity increases. The modular design provides operational flexibility, helping to streamline facility processes.



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