



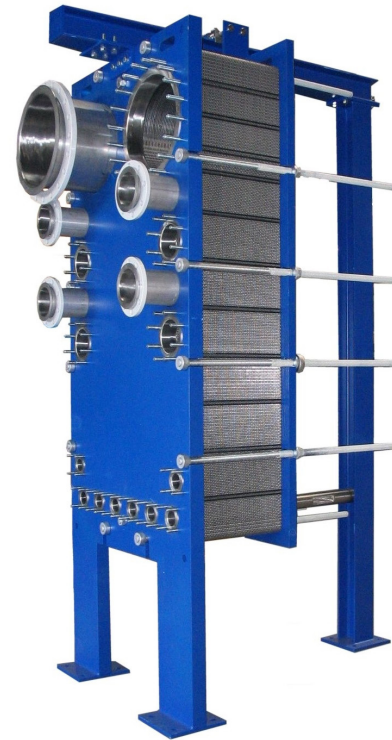
AN API HEAT TRANSFER COMPANY

# Schmidt SIGMASTAR® Plate Evaporators

Evaporator design with a compact footprint that processes highly viscous products and provides the lowest total ownership cost solution.

## Superior Benefits

- COST OF OWNERSHIP**  
Low upfront cost compared to tubular evaporators. Low pressure losses and additional effects minimize utility costs while design is robust and easy to maintain.
- PRODUCT CONSISTENCY**  
Even product distribution throughout design with no overconcentration, no dead or hot flow areas, minimal fouling, and no product waste.
- DUAL PURPOSE**  
Flexibility in design can accommodate simultaneous product processing or use single evaporation as a 2 effect evaporator reducing utility consumption and upfront cost.
- DEMANDING APPLICATIONS**  
High vapor velocity allows processing extremely viscous products. SIGMASTAR® can process in excess of 80 °Brix and evaporate up to 99% in a compact design.
- PRODUCT QUALITY**  
Short residence time via high velocities and short distance equates to product times less than 1 second ensuring gentle treatment and less CIP chemicals.



## Technical Information

<b>Feed Capacity</b>	0.5 t/h to 120 t/h
<b>Evaporating Capacity</b>	500 kg/h to 75,000 kg/h
<b>Evaporating</b>	Up to 99%
<b>Specific Steam Consumption</b>	1.0 to 0.15 kg steam per kg evaporation
<b>Viscosity</b>	Up to 2,500 mPas
<b>Pressure</b>	-1 to 16 barg
<b>Range</b>	45V, 90V, 150V
<b>Materials</b>	Plates: 316SS, Titanium, Hastelloy Gaskets: EPDM, NBR, FPM

## Applications of SIGMASTAR®

- BEVERAGES**  
Juices, Coffee, Tea, Plant Drinks
- FOODS**  
Purees, Dairy, Meat Broth, Candy
- PROTEINS**  
Collagen Peptide, Gelatin, Pectin, Meats, Fertilizer
- SUGARS & STARCHES**  
Corn Mash, Potatoes, Sweeteners, Syrups
- EXTRACTS**  
Cannabis, Nutraceuticals, Herbal, Plant



### GLOBAL HEADQUARTERS

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