

# COONEY THERMO-PACK

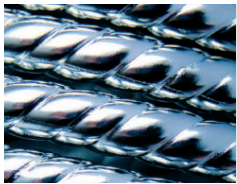
Efficient and reliable water **STEAM TO WATER PACKAGED HEAT EXCHANGER**

## EFFICIENT | RELIABLE | COMPACT

Using the latest in shell & coil heat exchanger technology, the Cooney Thermo-Pack provides efficient reliable water heating to the market for both domestic, heating hot water, and process applications.

Engineered to sub-cool steam condensate by utilizing the maximum amount of energy from every pound of steam, the Thermo-Pack can help increase efficiency and eliminates flash steam.

The compact vertical design can easily fit into tight mechanical rooms. While the ability to further customize dimensions and connection orientations helps to reduce installation time and costs.



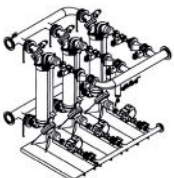
### Shell & Coil Technology

Compact with high heat transfer area and corrosion resistant.



### Condensate Sub-Cooling

Cross counterflow design sub-cools condensate for maximum efficiency.



### Completely Customizable

Customize components, outlet orientation, elevations and more!



**10-15%**  
AVERAGE COST SAVINGS  
COMPARED TO SHELL & TUBE HX

## System Benefits

- Condensate sub-cooling to temperatures of 95-130°F
- Corrosion resistant heat exchanger with complete welded structure
- Eliminates dangerous and wasteful flash steam
- Reduces maintenance costs due to lower condensate temperatures
- V-Ball control valve standard with 300:1 turn down for precise control and energy savings
- Compact footprint and vertical design fits into small mechanical rooms

## Standard Components

- 316L Stainless Steel Shell & Coil Heat Exchanger
- Control Panel included for ease of operation and system feedback
- V-Ball Control Valve with 300:1 turn down
- Pressure / Temperature Relief Valve
- Inlet Y-Strainer
- Recirculating Pump
- Painted Carbon Steel Base Plates and Supports
- Available in: 15, 30, 60 GPM
- Additional sizes available for custom units

# COONEY THERMO-PACK

REDUCE YOUR THERMAL FOOTPRINT

## Save Energy

Shell & Coil technology is the most efficient way to generate hot water from steam due to its ability to utilize cross-counterflow subcooling, capturing the latent heat of the steam as well as sensible heat from the steam condensate.



**CONTACT US TO CALCULATE HOW MUCH ENERGY YOU CAN SAVE**

The Cooney Thermo-Pack can save facilities 10-15% on energy compared to a traditional shell & tube while eliminating flash steam losses.

**10-15%**  
AVERAGE COST SAVINGS  
COMPARED TO SHELL & TUBE HX



**\$7,661**

4-Week Savings of a Cooney Thermo-Pack Compared to a Shell & Tube Heat Exchanger\*

### Cooney Thermo-Pack

### Shell & Tube Heat Exchanger

Average Condensate Discharge Temperature

170° F

280.58° F

Steam Consumption

3,769.53 lb/hr

4,225.57 lb/hr

Sensible Heat Transfer from Condensate Sub-Cooling

420,903 BTU/hr

0 BTU/hr

Increase in Energy Recovery Efficiency

**12%**

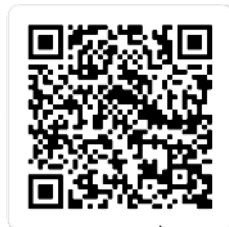
**0%**

\*Based on steam pressure of 35 PSIG, 1,000 lbs/hour at a cost of \$25 per therm\*

## Testimonials

Learn how Cornell University utilizes Cooney Thermo-Pack's to provide reliable, efficient hot water to residents in their North Campus.

Read the full case study on our website by scanning the QR code.



*Scan Me*



Cornell University

Cooney Engineered Solutions worked with us and created what we wanted. And that is a big deal for us."

**FRANK PERRY, CORNELL UNIVERSITY**



(610) 783-1136 | [www.cooneyengineeredolutions.com](http://www.cooneyengineeredolutions.com) | [info@cooneycoil.com](mailto:info@cooneycoil.com)