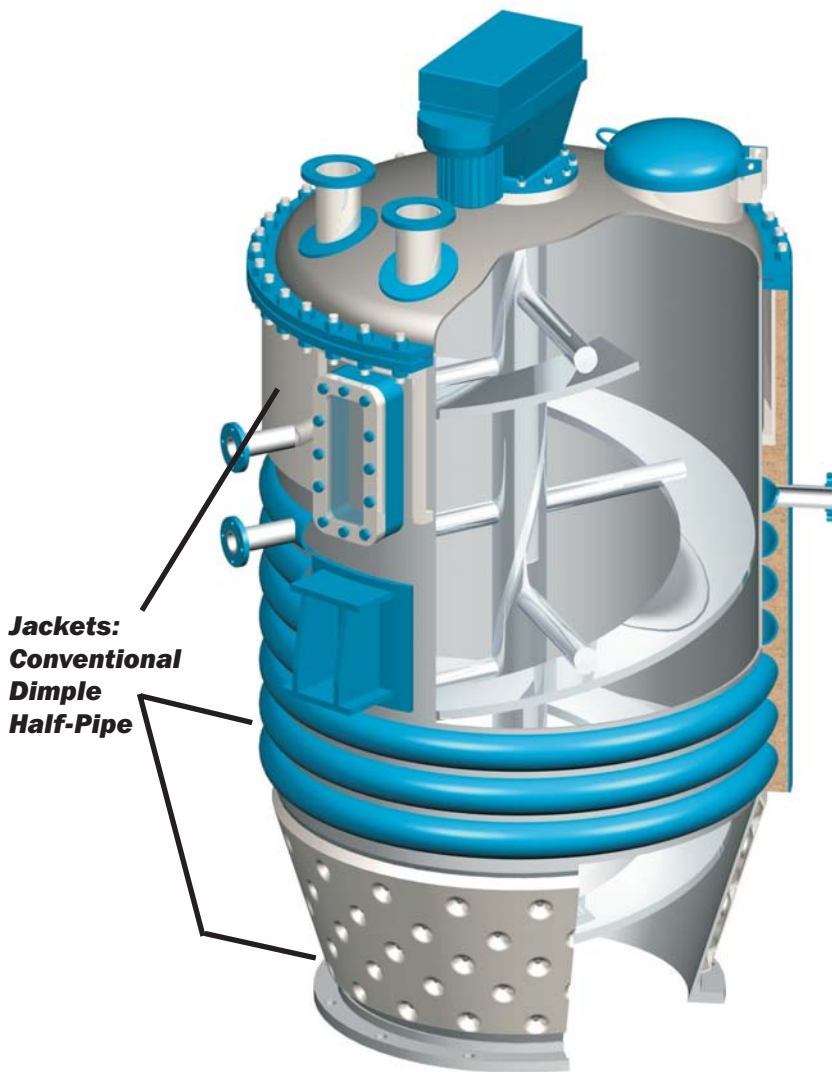


# Process Jackets

Choosing What's Right for You

R-V Industries' ASME Code pressure vessel jackets are designed, fabricated and tested to Section VIII standards. Choose from conventional, dimple or half-pipe jackets to best suit your heat transfer needs.



## **Select a jacket by the intended process operating criteria, including:**

- ✓ Size and operating capacity of the vessel.
- ✓ Material type selected for the product wetted surfaces of the vessel.
- ✓ Product Side design pressure and temperature.
- ✓ Product processing requirements (heat input, heat removal or both).
- ✓ Heat transfer media (steam, water, glycol, oil or Dowtherm Vapor).
- ✓ Jacket Side design pressure and temperature of the heat transfer media(s).
- ✓ Quality of the heat transfer media.

**Contact our experienced sales team  
for assistance with your selection.**

# Jacket Types



## **Conventional**

- ❑ Use of plate material, carbon steel is standard
- ❑ Capable of large volumes of heat transfer media and increased flows
- ❑ Low media pressure drop
- ❑ Steam, water and most heat transfer medias
- ❑ Best suited for small vessels
- ❑ Separate jacket sections

## **Dimple**

- ❑ Use of gauge stock for jacket
- ❑ Stainless and high alloys commonly used
- ❑ High jacket pressures permitted without significant increase of process side thickness
- ❑ Steam, water and most heat transfer medias
- ❑ Efficient heat transfer at low media flow
- ❑ Process side nozzles easily penetrated
- ❑ Less total weight permits efficient heat transfer
- ❑ Less weight reduces sizing of structural supports



## **Half-Pipe**

- ❑ Use of gauge stock or plate for jacket
- ❑ Stainless and high alloys commonly used
- ❑ High jacket pressures permitted without significant increase of process side thickness
- ❑ Steam, water and most heat transfer medias
- ❑ High media flow with low-pressure drop
- ❑ High heat transfer film coefficient
- ❑ Ease of multiple zones without weight gain
- ❑ Less total weight permits efficient heat transfer
- ❑ Less weight reduces sizing of structural supports