

## FB #1056 Cooling Broth

### Application: COOLING BROTH SLUDGE

The customer requires a heat exchanger for cooling down broth sludge from 25C to <10C at 30-50 lpm. The viscosity of sludge is non-newtonian (100cp) and the insoluble solid is around 70-80%.

The broth sludge is concentrated fermentation broth that will shoot out from the centrifuge sludge space. A pump is used to discharge the sludge to a storage tank. A heat exchanger is needed in between the pump and the storage tank. The temperature of the sludge is about 30C and is needed to cool down to 5-10C before hitting the storage tank.

### Solution

- Sanitary Shell & Tube Heat Exchanger
- Double Tubesheet
- Model #02125, 95 Series
- All components 316L Stainless Steel



### Features & Benefits

- Heat Transfer Area: 33.79 ft<sup>2</sup>
- Shell Diameter: 4"
- Tube Length: 31"

#### How to contact Exergy

Please call 1-516-832-9300  
or visit [www.exergyllc.com](http://www.exergyllc.com)  
to locate your local rep.