Application: COOLING BROTH SLUDGE

The customer requires a heat exchanger for cooling down broth sludge from 25°C to <10°C 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 30°C and is needed to cool down to 5-10°C 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 ft²
• Shell Diameter: 4”
• Tube Length: 31”

How to contact Exergy
Please call 1-516-832-9300
or visit www.exergyllc.com
to locate your local rep.