KRYTEM Cryogenic Systems

COREX

Coaxial Tube Heat Exchanger for Systems with Pressurised Heat Carrier

Application

- Delivery of large volumes of industrial gas
- Integration into process cooling loops or refrigerant loops to conserve energy in cooling processes

Design Features

- compact design that does not require much space
- available in various sizes, for throughput capacities of up to 600 kg/h
- made from stainless steel (copper registers available on request)
- optional: process instrumentation, process control

Technical Data

media	N_2, O_2, Ar, CO_2
heat-transfer media	process water or cooling loop water
inlet temperature	heat carrier: min. 10°C above solidification temperature medium: -196°C to 0°C
outlet temperature	heat-carrier: 2°C to 10°C below inlet temperature medium: 10°C to 3°C below heat carrier temperature
max. operating pressure	heat carrier: 4 bar, higher operating pressures are possible (please inquire) medium: 25 bar or 40 bar (or higher, if required)
head loss	heat carrier: approx. 0.2 to 1 bar medium: approx. 0.5 bar

throughput	heat carrier: 3 to 15 m^3/h medium: up to 600 kg/h
connections	flange EN 1092-1
materials	1.4541, 1.4571, SF-Cu
