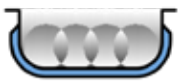


Holo-Scru™ Ash Coolers

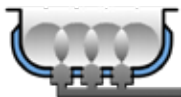


Ash Coolers

Screw Set Configurations



Jacketed Quadrotor



Fluidized Bed Quadrotor



Subscrew Rotor



Omega Housing



Jacketed Birotor



Double Omega Housing



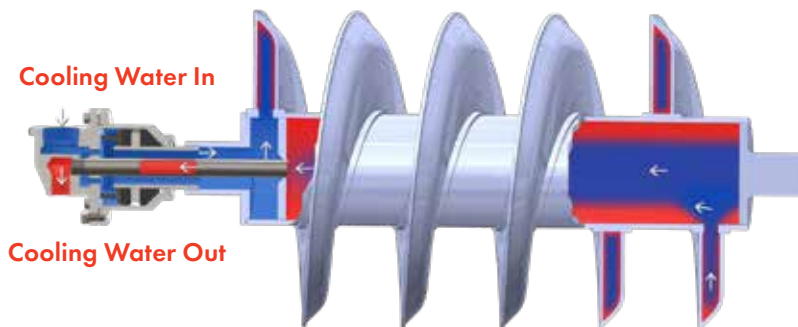
Circular Unirotor



Jacketed Unirotor

Why Choose Holo-Scru™ Ash Coolers

- Environmentally friendly and economical solution to ash cooling
- Discharged ash is delivered as a useful product
- Heat energy can be recovered from the ash
- Highly dependable and safe to operate
- Low operational and maintenance costs
- Does not require ash hydration



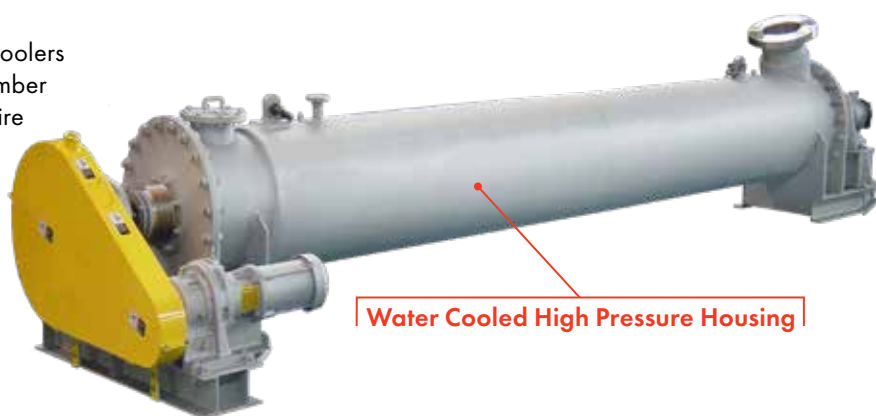
How the Holo-Scru™ Cooler Works: In a Holo-Scru™ Cooler, hot ash and some inert material such as sand, discharge from the boiler to the screw cooler through the flooded inlet. The ash begins to cool immediately upon contact with the water-cooled surfaces of the screw and the housing. The cooling is indirect and the water does not come into contact with the ash. Ash cooling screws are designed to handle boiler ash with a screw entry temperature of up to 2000° F. Ash is cooled down to 400° F but can be cooled even lower if required.



Replaceable Inlet Section: The inlet section of the Holo-Scru™ ash cooler is subjected to the bulk of the pressure and abrasion. In most instances, it is the first part of the ash cooler to erode and will need to be replaced before significant wear is visible elsewhere on the rotor. The BCR Holo-Scru™ ash cooler optionally includes a removable and replaceable section of solid flight, which can be quickly removed and replaced, reducing repair time and maintenance cost.



High Pressure Product Chamber: Typical ash coolers operate at ambient pressure inside the product chamber but recent developments in boiler design often require product chamber pressures of 300 psig or higher. BCR Holo-Scru™ ash coolers can be manufactured with jacketed tubular housings, and equipped with patented Shaft Rider Seals to maintain product chamber pressures of 300 psig or higher. This design can also incorporate a clam shell housing for ease of inspection and maintenance.

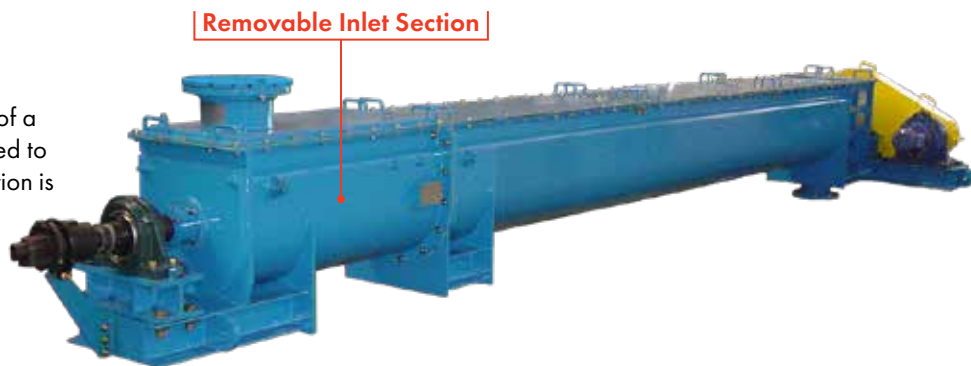


Water Cooled High Pressure Housing



Large Diameter Multi Screw Ash Coolers: Larger boiler designs require larger ash handling capacities. Often single screw designs can't handle the required capacity. BCR Holo-Scru™ ash coolers can be manufactured in single, twin, and quad screw configurations with rotor sizes from 8 to 48 inches in diameter.

Replaceable Inlet Troughs: The trough of a BCR Holo-Scru™ ash cooler is water jacketed to increase the cooling capacity. The inlet section is manufactured as a removable section that is designed to be quickly be removed and replaced, reducing repair time and cost.



Removable Inlet Section

PROCESS TECHNOLOGY:

Calcining
Cooking
Cooling
Crystallizing
Drying
Desolventizing
Heating
Pyrolyzing
Thermal Desorption
Torrefaction

INDUSTRIES SERVED:

Chemical
Food Processing
Mining
Petrochemical
Power Generation
Environmental
MSW & HAZ Waste Treatment
Sludge and Wastewater
Waste Water Treatment
Paper & Pulp

SERVICES OFFERED:

Engineering
Design
Manufacture of Process Equipment
Equipment Repair
Fabrication / Welding
Field Service
Machine Work
Technical Support



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