



Compact Coagulator, type CC

The Atlas-Stord Compact Coagulator, type CC is a horizontal, self-cleaning, heat exchanger designed to coagulate (cook) proteins found in fish and animal based raw materials.

Design

The CC is a continuous feed, indirect steam heated coagulator, designed with a number of serially connected and horizontally mounted process tubes, resulting in a very compact and economic machine. Each process tube has its own rotor which is equipped with scrapers that provide the self-cleaning features. As the compact coagulator operates, the rotating scrapers remove protein buildup from the internal surfaces of the process tubes, maintaining

full capacity at all times without having to shut down operations for cleaning. The rotating scrapers are designed to gently agitate the product, maximizing heat transfer and assuring a homogeneous end product.

Each rotor is driven with an independent gear motor directly coupled to the rotor shaft and flange mounted to the product tube end flange. At the drive end, the compact coagulator is provided with a mechanical seal and the rotor shaft is directly supported by the gear motor output shaft. The tail shaft of the rotor is supported with an internal, babbetted bearing, eliminating the need for a second shaft seal.

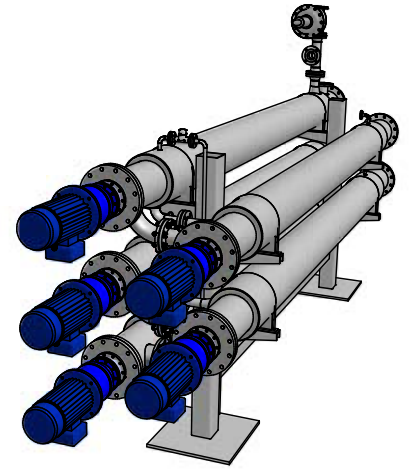
Operation

The product being processed, whether viscous, sticky, or slurry, should be of a consistency enabling it to be pumped into the coagulator. The mass travels continuously through the serially connected cooking tubes where it is agitated by the rotating scrapers and heated to the required temperature. Due to the relatively small product volume of the product tubes, product retention time in the cooker is short compared to traditional screw type coagulators (cookers). The result is a homogeneously coagulated (cooked) product with very short exposure to high cooking temperatures.

Features

The standard CC Compact Coagulator is supplied with the following features and components:

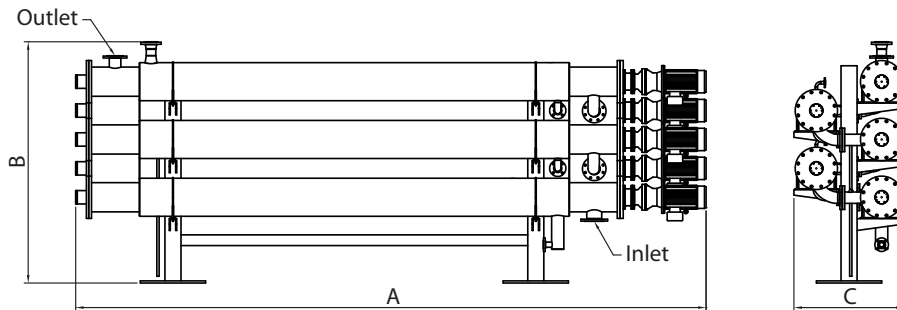
- Options of one, three, five, or seven product tubes.
- Rotor with scrapers for each product tube.
- Individually driven rotors each with direct coupled gear motors.
- Flanged product tube end plates (both ends) for easy rotor inspection and maintenance.



Advantages

Compared with traditional screw type coagulators (cookers), the Atlas-Stord Compact Coagulator, type CC provides several unique advantages:

- Optimal thermal efficiency.
- Short retention time due to rapid product heating.
- Self cleaning scrapers remove protein scaling on the heating surface.
- Compact design, saving floor space.
- Easily disassembled for inspection and maintenance.
- Low power consumption.
- Can utilize process vapor as heat source (final product tube may require steam heating).



Type	Nominal capacity 1000 lbs	Number of pipes	Motor power HP	Weight lbs	Dimensions "		
					A	B	C
CC-1	6.6	1	7	2,205	232	46	32
CC-3	19.8	3	15	5,291	232	68	41
CC-5	33.0	5	27	10,362	232	89	41
CC-7	46.3	7	35	11,905	232	110	41

We reserve the right to alter the specifications at any time without prior notice.



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