



## 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 serial connected and horizontally mounted process tubes, resulting in a compact and economic machine. Each process tube has its own rotor which is equipped with scrapers providing 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, maximising heat transfer and ensuring 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, babbitted bearing, eliminating the need for a second shaft seal.

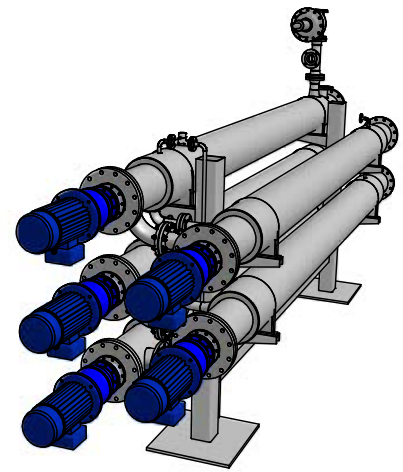
### Operation

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 series 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:

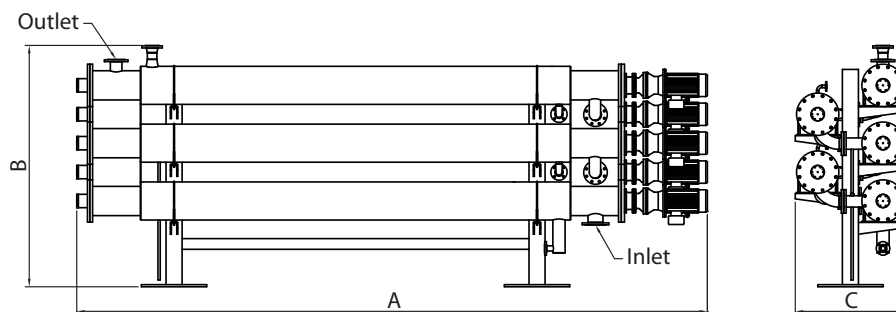
- Options of one, three, five, or seven product tubes.
- Rotor with scrapers for each product tube.
- Individually driven rotors each with direct coupled gear motors.
- Flanged product tube endplates (both ends) for easy rotor inspection and maintenance.



## 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 utilise process vapour as heat source (final product tube may require steam heating).



## Technical Specifications

Type	Nominal capacity t/h	Number of pipes	Motor power kW	Weight mt	Dimensions mm		
					A	B	C
CC-1	3	1	5.5	1	5900	1180	820
CC-3	9	3	11.5	2.4	5900	1720	1030
CC-5	15	5	20	4.7	5900	2260	1030
CC-7	21	7	26	5.4	5900	2800	1030

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



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