



GD Continuous Remelt Unit



Description

The Continuous Remelt Unit is delivered with either a Plate Heat Exchanger or a Shell & Tube Heat Exchanger.

The unit is complete with hot water makeup and circulation pump. All motors and electrical devices are wash-down enclosure.

Transmitters and valves are pre-piped and pre-wired to a local mounted junction box. All units are delivered as a Plug-&-Play concept.

Application

The CR-Unit is designed for continuous remelting of crystallized margarine. It is comprised of one section in the Plate Heat Exchanger (PHE) where the crystallized product is melted in a concurrent flow with hot water.

The CR-Unit is designed for cleaning in place (CIP) and consists of a PHE with one section for product, a water and steam regulating system with a soldered PHE for water tempering, water pump, valves and necessary piping.

Materials

Product contacting parts, including the plates in the PHE for product, are made of stainless steel AISI 316.

Options

For products containing salt, less than 1% in the emulsion, SMO is recommended as PHE plate material. For products containing more than 1% salt in the emulsion, titanium is recommended as PHE plate material. For improved steam return we can, on customer request, include a condensate pump on the unit.

Integration

The free place at one side allows for fast and simple maintenance at the PHE.

The CR-Unit is designed for shortening, table, puff pastry and low fat margarine. Its nominal capacity depends on the product application.

GD Continuous Remelt Unit

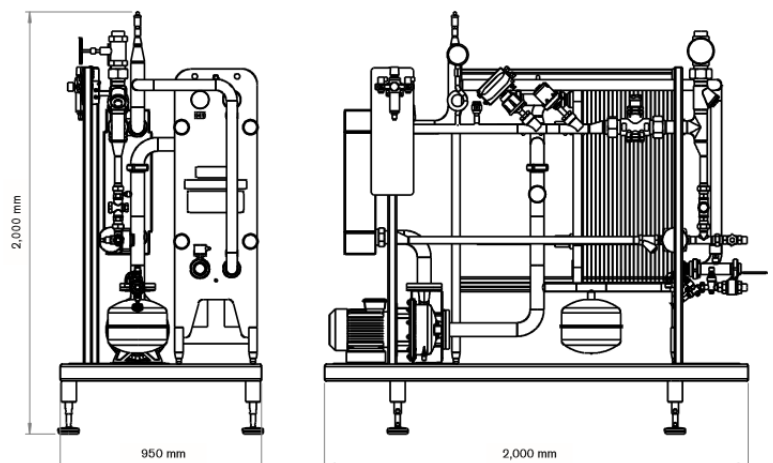
Technical specifications

GD UNIT	GDCR-1000	GDCR-2000	GDCR-3000	GDCR-5000	GDCR-10000	GDCR-15000	GDCR-20000
NOMINAL CAPACITY - PUFF PASTRY MARGARINE [LBS/H]	700	1,400	2,100	3,500	7,000	10,500	14,000
NOMINAL CAPACITY - TABLE MARGARINE [LBS/H]	1,000	880	3,000	4,500	6,500	10,800	11,800
NOMINAL CAPACITY SHORTENING [LBS/H]	1,500	3,000	4,500	7,500	15,000	22,500	30,000
MAX. WORKING PRESSURE [PSI]	150	150	150	150	150	150	150
STEAM FLOW AT 50 PSI [LBS/H]	90	360	540	900	1,800	2,700	3,600
HOT WATER CIRCULATION PUMP [HP]	1	1.5	1.5	2.0	2.5	3.0	3.0
PRODUCT PIPE IN-/ OUTLET [INCH]	1	1.5	1.5	1.5	2.0	2.0	2.5
FLOW RATE CIP [GPM]	2	5	11	15	21	33	46
PRESSURE DROP CIP [PSI]	8	8	8	10	10	12	12
DIMENSION WxLxH [INCH]*	35x65x65	35x65x65	40x70x70	40x70x70	40x70x70	40x80x80	40x80x80
MACHINE WEIGHT [LBS] *	800	900	1,000	1,200	1,400	1,600	2,500

* APPROXIMATELY

Technical Specifications

- Temperature profile of the product: 30-120°F
- Heating medium: 50-80 PSI saturated steam for the hot water loop
- Air of 80 bar for instruments.



CONTACTS

GD Process Design, LLC

N76 W30500 County Road V v
Hartland, WI 53029



Ph: 262-361-4080
Fax: 262-966-0312

sales@gdprocessdesign.com
www.gdprocessdesign.com