

## Gerstenberg Schröder Consistator<sup>®</sup> MD

SCRAPED SURFACE HEAT EXCHANGER

### GS Consistator<sup>®</sup> MD Benefits:

#### EXCELLENT DURABILITY

Completely sealed, fully insulated, corrosion-free stainless steel casing and a special environmentally acceptable material for insulation guarantee years of trouble-free operation.

#### IMPROVED HEAT TRANSMISSION

The tubes can be selected in different materials of enhanced stainless steel or with an inner surface plated with multiple layers of chrome. Each tube diameter and length relate to different products and capacities. An increase of the outside surface and thin tube walls enable an excellent heat transfer (high K-values).

#### HIGHER FLEXIBILITY

The GS Consistator<sup>®</sup> MD is equipped with automatic regulation of the cooling and heating temperature in each individual tube. To ensure maximum energy utilization, the cooling system has a quick start phase and a short reaction time when the evaporation temperature is changed. GS Consistator<sup>®</sup> MD can also be supplied without the automatic temperature regulation and in this way the scraped surface heat exchanger can be incorporated in existing systems. The GS Consistator<sup>®</sup> MD is also suitable for UHT treatment.

#### EASY CLEANING AND MAINTENANCE

All GS Consistator<sup>®</sup> units are designed so that maintenance is fast and simple and CIP cycles can be carried out quickly.

#### SCRAPER ROTOR SYSTEMS

Optimum scraping of the product and mechanical treatment are achieved by a selection of rotor shafts with different diameter



and scraper systems. Standard scrapers are floating scrapers in linear or staggered configuration. Depending on the application it is optional to use the patented scrapers, Turbo scrapers, which are with swivel edges and are made in stainless abrasion-proof material and have an ideal angle of the scrapers to the inner surface of the tube.

#### MATERIALS

Product contacting metal parts are made in stainless steel AISI 316. Chilling tubes are in carbon steel and plated with hard chromium or duplex stainless steel.

#### CERTIFICATIONS

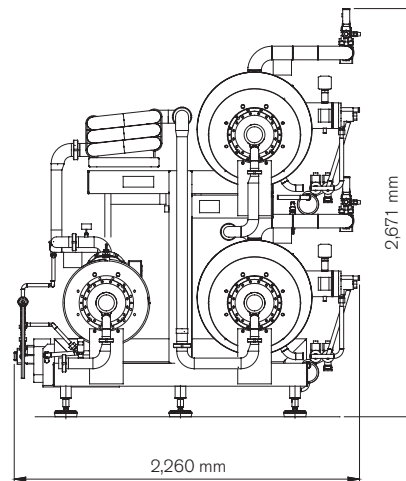
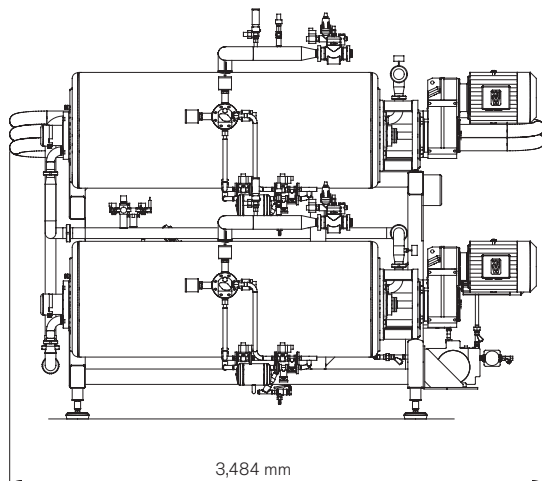
Made in conformity with European Machinery Directive 2006/42/EC. The construction is in accordance with European Pressure Equipment Directive (PED) 2014/68/EU and an ASME certificate can be delivered on request.

#### COOLING/HEATING MEDIA

NH<sub>3</sub>, Freon, cooling water, chilled water, brine, glycol, steam, hot water.

GS CONSISTATOR® MD	MD 180	MD 250
MOTOR MAX. [kW]	18.5	22
HEAT TRANSMISSION SURFACE [M <sup>2</sup> ]	1.1	1.5
TUBE DIAMETER/LENGTH [MM]	180/2,000	250/2,000
SHAFT DIAMETER [MM]	158	228
	150	220
	130	200
PRODUCT VOLUME [L]	13	20
	17	25.5
	26	38.5
SCRAPER ROTOR SPEED [RPM]	150-350	150-350
MAX. WORKING PRESSURE - PRODUCT SIDE [BAR]	35	35
MAX. WORKING PRESSURE FOR NH <sub>3</sub> OR FREON - MEDIA SIDE [BAR]	17 OR 22	17 OR 22
MAX. WORKING PRESSURE FOR WATER OR GLYCOL - MEDIA SIDE [BAR]	10	10
MAX. WORKING PRESSURE FOR STEAM - MEDIA SIDE [BAR]	13	13
MAX. WORKING TEMPERATURE - PRODUCT SIDE [°C]	150	150
MAX. WORKING TEMPERATURE FOR NH <sub>3</sub> OR FREON - MEDIA SIDE [°C]	-30 TO 45	-30 TO 45
MAX. WORKING TEMPERATURE FOR WATER OR GLYCOL - MEDIA SIDE [°C]	-20 TO 150	-20 TO 150
MAX. WORKING TEMPERATURE FOR STEAM - MEDIA SIDE [°C]	0 TO 190	0 TO 190
PRODUCT PIPE IN/OUT [MM]	DN40	DN50
ANNULAR SPACE [MM]	11/15/25	11/15/25
ROWS OF SCRAPERS	3	3 OR 4

\* Approximately.



GS Consistator® MD 250 - SH2A

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GS-211-GB VERSION 03/2016 ISSUED 01/2017

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