

## Gerstenberg Schröder Kombinator 250S

SCRAPED SURFACE HEAT EXCHANGER

### GS Kombinator 250S 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.

#### MODULAR DESIGN

The GS Kombinator 250S gives you the flexibility to expand your production capacity with up to six chilling tubes without occupying additional floor space as they can be mounted either three by three or as individual tubes on top of each other.

#### OUTSTANDING HEAT TRANSMISSION

The tubes are designed with an inner surface plated with multiple layers of chrome and each tube is corrugated on the outside, thus increasing the surface to improve the heat transmission value.

#### HIGHER EFFICIENCY

GS Kombinator 250S is equipped with automatic regulation of the cooling or heating temperature in each individual tube. Different rotor shaft speeds are possible as each shaft is driven by a separate gear motor. In order to minimize floor space a pin rotor can be mounted on top of the GS Kombinator.

#### EASY CLEANING AND MAINTENANCE

All GS Kombinator 250S units are designed so that maintenance is fast and simple and CIP cycles can be carried out quickly.

#### SCRAPER ROTOR SYSTEMS

The standard scraper system consists of floating scrapers in Turbo design which ensures an intensive turbulence and mechanical



treatment as well as a continuously clean scraping of the inner surface of the tube. Other scraper types are optional.

#### MATERIALS

Product contacting parts are made of stainless steel AISI 304/316. The chilling tubes are made of steel and plated with either chromium or Stellite.

#### CERTIFICATIONS

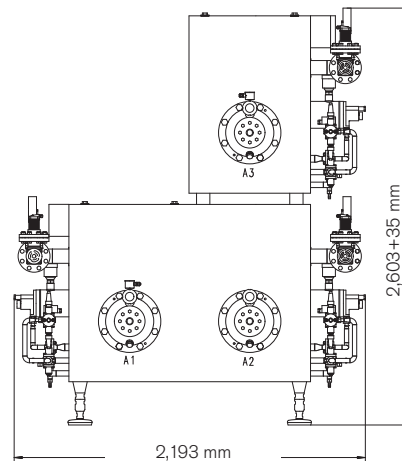
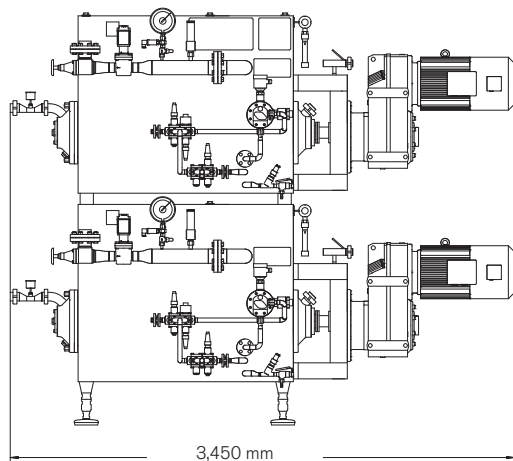
Made in conformity with European Machinery Directive 2006/42/EC. The construction is in accordance with European Pressure Equipment Directive (PED) 2014/68/EU and an ASME sec. VIII div. 1 certificate can be delivered on request.

#### HEATING/COOLING MEDIA

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

GS KOMBINATOR 250S	250S-A	250S-2A	250S-3A	250S-4A
NOMINAL CAPACITY - PUFF PASTRY MARGARINE [KG/H]	NA	2,000	3,000	4,000
NOMINAL CAPACITY - TABLE MARGARINE [KG/H]	1,900	3,800	5,700	7,600
NOMINAL CAPACITY - SHORTENING [KG/H]	2,800	5,600	8,400	11,200
NUMBER OF REFRIGERANT CIRCUITS	1	2	3	4
NUMBER OF TUBES PER REFRIGERANT CIRCUIT	1	1	1	1
MOTORS FOR PUFF PASTRY MARGARINE [kW]	NA	30+55	30+37+55	22+30+45+55
MOTORS FOR TABLE MARGARINE [kW]	20	22+22	15+22+22	15+22+22+22
MOTORS FOR SHORTENING [kW]	20	22+22	15+22+22	15+22+22+22
NUMBER OF GEAR BOXES	1	2	3	4
COOLING SURFACE PER TUBE [M <sup>2</sup> ]	1.05	1.05	1.05	1.05
ANNULAR SPACE [MM]	11	11	11	11
NH <sub>3</sub> CAPACITY AT -20°C [kW]	80/85	120/160/170	180/240/255	240/320/340
MAX. WORKING PRESSURE AT 40°C - MEDIA SIDE [BAR]	17	17	17	17
MAX. WORKING PRESSURE - PRODUCT SIDE [BAR]	120	120	120	120
MIN. WORKING TEMPERATURE [C°]	-30	-30	-30	-30
CHILLING TUBE DIAMETER/LENGTH [MM]	250/1,400	250/1,400	250/1,400	250/1,400
PRODUCT VOLUME PER TUBE [L]	15	15	15	15
PRODUCT PIPE IN/OUT [MM]	DN50	DN50	DN50	DN50
ROWS OF SCRAPERS	4	4	4	4
NOMINAL SCRAPER ROTOR SPEED [RPM]*	250	250	250	250
WATER ATTEMPERATION CAPACITY [kW]	9	2x9	3x9	4x9
WATER ATTEMPERATION VOLUME [L]	60	60	60	90
WATER CIRCULATION PUMP [kW]	0.55	0.55	0.55	0.55
MACHINE WEIGHT [KG]*	1,600	3,300	5,000	6,600

\* Approximately.



GS Kombinator 250S-3A

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