

Gerstenberg Schröder Kombinator 250L

SCRAPED SURFACE HEAT EXCHANGER

GS Kombinator 250L 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 250L 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 250L 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 250L 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 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

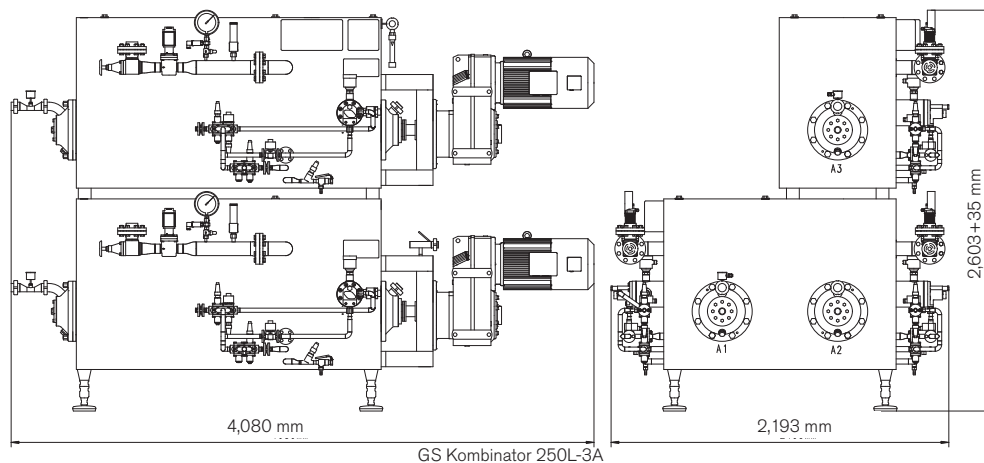
Made in conformity with European Machinery Directive 2006/42/EC. The construction is in accordance with European Pressure Equipment Directive (PED) 2014/68/EU and an ASME sec. VIII div. 1 certificate can be delivered on request.

HEATING/COOLING MEDIA

NH₃, Freon, cooling water, chilled water, brine, glycol, steam, hot water.

| GS KOMBINATOR 250L | 250L-A | 250L-2A | 250L-3A | 250L-4A | 250L-5A | 250L-6A |
|--|-----------|-------------|-------------|-------------|----------------|-------------------|
| NOMINAL CAPACITY - PUFF PASTRY MARGARINE [KG/H] | NA | 2,800 | 4,200 | 5,600 | 7,000 | 8,400 |
| NOMINAL CAPACITY - TABLE MARGARINE [KG/H] | 2,700 | 5,400 | 8,100 | 10,800 | 13,500 | 16,200 |
| NOMINAL CAPACITY - SHORTENING [KG/H] | 4,000 | 8,000 | 12,000 | 16,000 | 20,000 | 24,000 |
| NUMBER OF REFRIGERANT CIRCUITS | 1 | 2 | 3 | 4 | 5 | 6 |
| NUMBER OF TUBES PER REFRIGERANT CIRCUIT | 1 | 1 | 1 | 1 | 1 | 1 |
| MOTORS FOR PUFF PASTRY MARGARINE [kW] | NA | 45+75 | 37+45+75 | 30+37+55+75 | 30+37+55+55+75 | 30+37+45+55+75+75 |
| MOTORS FOR TABLE MARGARINE [kW] | 30 | 22+30 | 22+30+30 | 22+22+30+30 | 22+22+22+30+30 | 22+22+22+22+30+30 |
| MOTORS FOR SHORTENING [kW] | 30 | 22+30 | 22+30+30 | 22+22+30+30 | 22+22+22+30+30 | 22+22+22+22+30+30 |
| NUMBER OF GEAR BOXES | 1 | 2 | 3 | 4 | 5 | 6 |
| COOLING SURFACE PER TUBE [M ²] | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| ANNULAR SPACE [MM] | 11 | 11 | 11 | 11 | 11 | 11 |
| NH ₃ CAPACITY AT -20°C [kW] | 110/115 | 170/220/230 | 255/330/345 | 340/440/460 | 425/550/575 | 510/660/690 |
| MAX. WORKING PRESSURE AT 40°C - MEDIA SIDE [BAR] | 17 | 17 | 17 | 17 | 17 | 17 |
| MAX. WORKING PRESSURE - PRODUCT SIDE [BAR] | 120 | 120 | 120 | 120 | 120 | 120 |
| MIN. WORKING TEMPERATURE [C°] | -30 | -30 | -30 | -30 | -30 | -30 |
| CHILLING TUBE DIAMETER/LENGTH [MM] | 250/2,000 | 250/2,000 | 250/2,000 | 250/2,000 | 250/2,000 | 250/2,000 |
| PRODUCT VOLUME PER TUBE [L] | 19 | 19 | 19 | 19 | 19 | 19 |
| PRODUCT PIPE IN/OUT [MM] | DN50 | DN50 | DN50 | DN50 | DN50 | DN50 |
| ROWS OF SCRAPERS | 4 | 4 | 4 | 4 | 4 | 4 |
| NOMINAL SCRAPER ROTOR SPEED [RPM]* | 250 | 250 | 250 | 250 | 250 | 250 |
| WATER ATTEMPERATION CAPACITY [kW] | 9 | 2x9 | 3x9 | 4x9 | 5x9 | 6x9 |
| WATER ATTEMPERATION VOLUME [L] | 60 | 60 | 60 | 90 | 90 | 60+90 |
| WATER CIRCULATION PUMP [kW] | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55+0.55 |
| MACHINE WEIGHT [KG]* | 2,100 | 4,300 | 6,400 | 8,500 | 10,600 | 12,800 |

* Approximately.



GS Kombinator 250L-3A

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GS-206-GB VERSION 03/2016 ISSUED 01/2017

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