

Gerstenberg Schröder Nexus BGS Pilot Plant

FOR PASTEURISATION, HEATING & COOLING

GS Nexus BGS Pilot Plants Benefits:

FLEXIBILITY

The GS Nexus BGS pilot plant is a scraped surface heat exchanger (SSHE) for pasteurisation of emulsions for small-scale production of crystallised edible oils and fats. It can furthermore be used for heating and cooling of various kinds of high viscous food products. The GS Nexus BGS pilot plant is equipped with a multi-purpose jacket which enables it to be used with steam, hot/cold water, brine, and glycol without changes.

The basic model is a highly flexible modular unit based on a table design with 1 position for the heating/chilling tube. It can easily be connected to other GS Nexus pilot plant units such as the SSHE unit for crystallisation, the ERS unit for emulsification and pin rotor machines.

The plant can optionally be supplied with a holding cell for keeping the temperature high at a specified time before cooling it down again, to make a complete pasteurisation process. The flexible connection pipes which combine the various units are easy to mount and dismount. It facilitates fast set-up alterations according to processing or application changes. The GS Nexus pilot plant is operated by the GS Logic Professional system which includes a SCADA system with a built-in touch screen interface.

EASY SCALE-UP

The GS Nexus BGS pilot plant gives you the opportunity to process small-scale samples under exactly the same conditions as those generated in large-scale production facilities.

EASY MAINTENANCE AND CLEANING

The optimised and streamlined design allows easy cleaning and service of all parts which decreases downtime.



SPEED CONTROL

Each motor is supplied with a built-in frequency converter.

SCRAPER ROTOR SYSTEM

The GS Nexus BGS pilot plant can be supplied with Bulldog or floating scraper systems. A selection of different materials for the floating scrapers is available to suit the particular product application.

CAPACITY

Approx 160 kg/h per SSHE for steam and 40 to 160 kg/h for water or glycol.

PRODUCT PRESSURE

Maximum 120 bar.

HEATING/COOLING REQUIREMENTS

Steam capacity at 125°C: 6.3 kW = 10.3 kg/h per tube.

Cooling capacity at 2°C: 6.7 kW~5.9 m³/h water flow per tube.

CERTIFICATION

Made in conformity with the European Machinery Directive 2006/42/EC and the Pressure Equipment Directive (PED) 2014/68/EU.

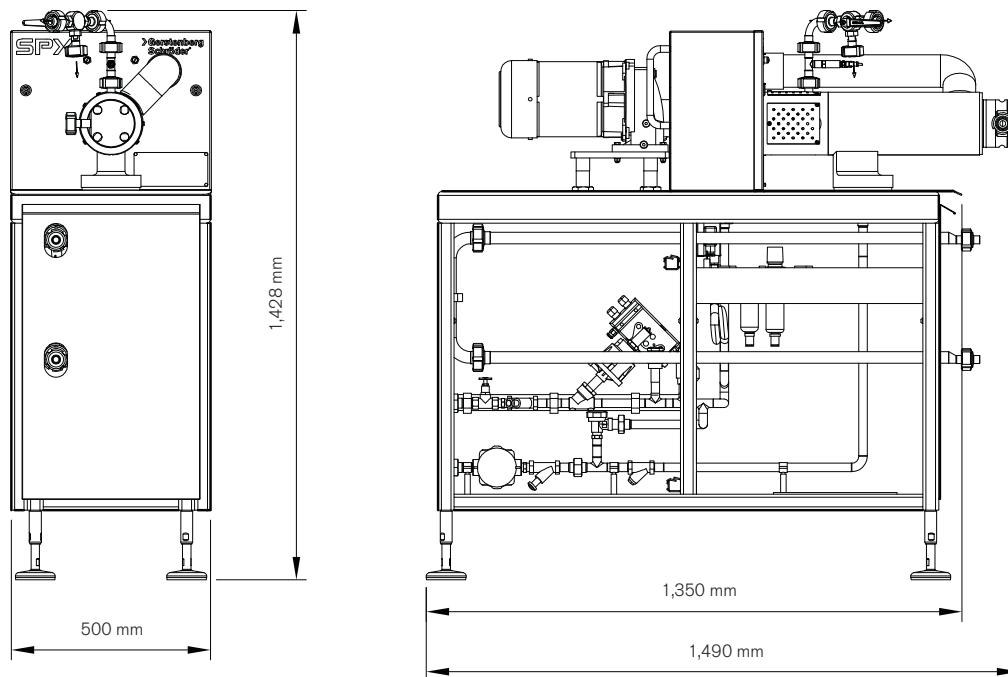
GS NEXUS PILOT BGS	ROTOR SPEED [RPM]	MOTOR [kW]	COOLING AREA PER TUBE [M ²]	PRODUCT VOLUME [L]
SSHE STEAM/HEAT	190-1,000	3.0	0.07	0.7
HOLDING CELL*	-	-	-	0.3, - 0.6 - 0.9
SSHE COOLING	190-1,000	3.0	0.07	0.7
GS RESTING TUBE**	-	-	-	0.7 - 2.5 - 5.0 - 8.5 OR 11

* Optional unit available on request. ** Only available as an individual stand-alone unit.

STANDARD CONFIGURATIONS

GS NEXUS MODEL	SSHE (BRINE, GLYCOL)	SSHE (STEAM)	DIMENSIONS (LxW) (MM)
NEXUS 621 BGS	2	1	1,600x1,350
NEXUS 620 BGS	2	0	1,100x1,350
NEXUS 611 BGS	1	1	1,100x1,350
NEXUS 610 BGS STAND ALONE	1	0	500x1,350
NEXUS 601 BGS STAND ALONE	0	1	500x1,350

* Other configurations available on request.



GS Nexus 610 BGS pilot plant

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GS_Nexus-BGS-Pilot-Plant_405_DST_GB Version 04/2021

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