

Gerstenberg Schröder Nexus SSHE Pilot Plant

CRYSTALLISATION

GS Nexus SSHE Pilot Plant Benefits:

FLEXIBILITY

The GS Nexus SSHE pilot plant is a crystallisation system that provides everything you need for optimal small-scale production of crystallised edible oils and fats and cooling of various kinds of food products. The GS Nexus SSHE pilot plant is utilising the efficient and environmentally friendly CO₂ as cooling medium which offers a higher capacity and a low-energy consumption compared to NH₃ and Freon.

The basic standard models are based on highly flexible modular units based on a table design with up to 4 positions for chilling tubes, extruders and pin rotor machines. Add-on tables for separate pin rotor machines, inverters and resting tubes are available.

Furthermore, the plant also features a pilot high pressure pump, which is available as a separate unit. 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 SSHE pilot plant is provided with a built-in CO₂ compressor unit including a heat recovery system for heating of the SSHE rotor and the pin rotor machine and 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 SSHE 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.

SCRAPER ROTOR SYSTEM

The GS Nexus SSHE pilot plant can be supplied with Bulldog or



floating scraper systems as well as extruder rotors. A selection of different materials for the floating scrapers is available to suit the particular product application.

SPEED CONTROL

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

MCC

The GS Nexus SSHE pilot plant comes with all components pre-wired to the built-in MCC, all functions and components are fully tested at our factory.

CAPACITY

40-160 kg/h per SSHE.

PRODUCT PRESSURE

Maximum 120 bar.

COOLING REQUIREMENTS

Capacity at -20°C: 5.5 kW per tube.

CERTIFICATION

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

GS HIGH PRESSURE PUMP P-3-10/35	MOTOR [kW]*	MAX. CAPACITY [L/H]**	MAX. PRESSURE [BAR]
P-3-10/35	1.5	350	120

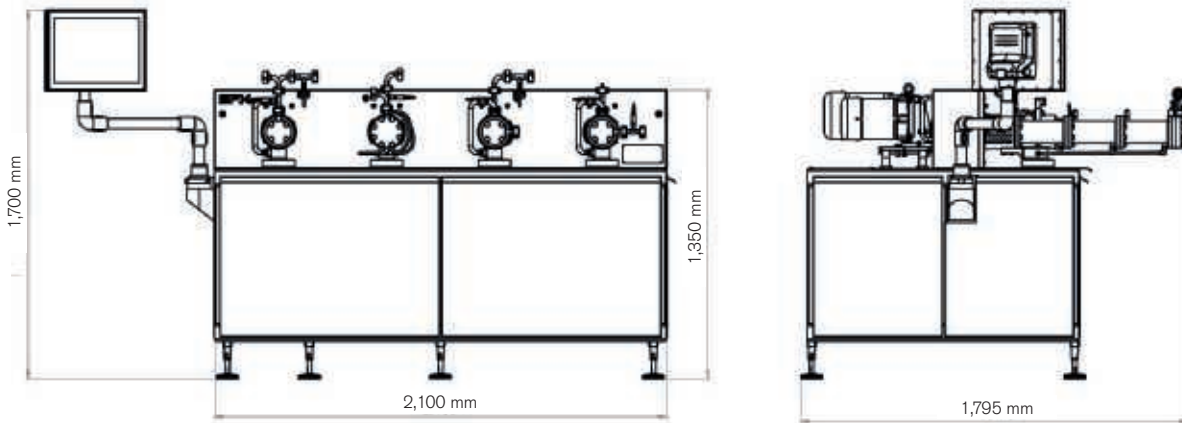
Only available as an individual stand-alone unit. * Depending on product type. ** Depending on motor.

GS NEXUS PILOT EQUIPMENT	ROTOR SPEED [RPM]	MOTOR [kW]	COOLING AREA PER TUBE [M ²]	PRODUCT VOLUME [L]
SSHE	100-1,000	3.0	0.034	0.4
EXTRUDER*	95-300	3.0	0.034	0.4
PIN ROTOR MACHINE	50-1,000	2.2	-	1, 2 OR 3
INVERTOR TYPE 2*	150-1,500	3.0	-	1
RESTING TUBE**	-	-	-	1.5 - 3.0 - 8.5 OR 11

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

STANDARD CONFIGURATIONS				
GS NEXUS MODEL	SSHE	COOLING LOAD (KW)	PRM	DIMENSIONS (LxW) (MM)
NEXUS 620	2	11	0	2,100x1,350
NEXUS 621	2	11	1	2,100x1,350
NEXUS 622	2	11	2	2,100x1,350
NEXUS 631	3	16	1	2,100x1,350
NEXUS 632 (631+601)	3	16	2	2,600x1,350
NEXUS 601	0	NA	1	500x1,350
NEXUS 602	0	NA	2	1,100x1,350

* Other configurations available on request.



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