

Perfector Pilot Plant

General specifications

Nominal capacity
30 kg/h per Perfector tube

Max. product pressure
80 bar

Cooling surface per tube
0.056 m²

Chilling tube diameter/length
Ø57 mm/Ø430 mm

Product volume per tube
0.42 ltr.

Annular space
6.5 mm

Knife rotor rpm
190 - 1,000

Motors
Up to 4 of 4.0 kW incl. of separate fan and thermo sensor

Cooling requirements
NH₃ capacity at -20°C
3.5 kW per tube

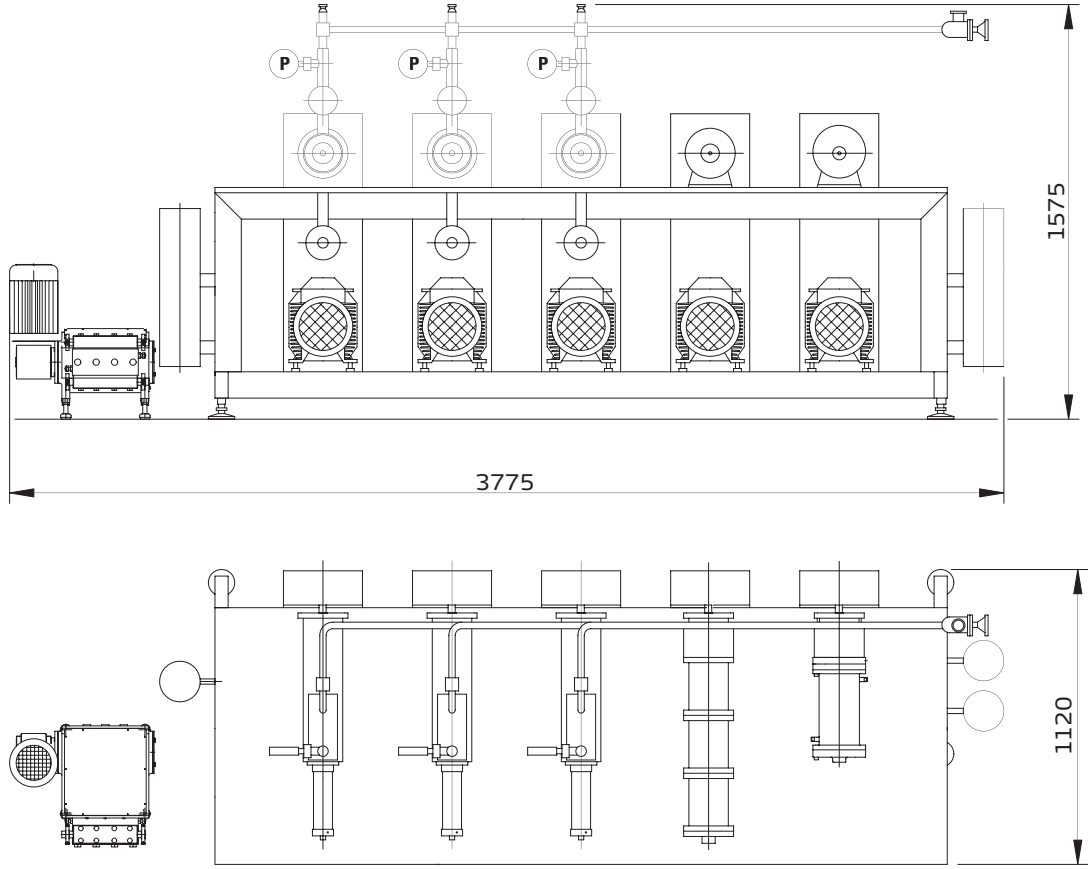
The GS Perfector pilot plant is ideal for crystallisation of all kinds of fat products. This highly flexible unit makes product development activities efficient and cost effective.

Flexibility. The Perfector pilot plant provides everything you need for optimal, small-scale production. This modular unit features a high-pressure pump, Perfector chilling tubes, various kneading units and resting tubes.

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 Perfector chilling tubes offer a wide capacity due to individual cooling systems, as they can be used either separately or in a combination.

Easy Scale-Up. The Perfector pilot plant gives you the opportunity to process small-scale samples under exactly the same conditions as those generated in large-scale production facilities.

Significant Cost Savings. Since pilot plant trials demand much smaller batch sizes than large-scale production units, the costs are correspondingly lower. Furthermore, no halts are required in your normal production schedule.



High pressure pump P-3-15/35

Motor kW	1.1 - 1.5*
Max. capacity ltr/h	350**
Max. pressure bar	120

*depending on product type. **depending on motor.

Perfector type	Units on skid	Motor (kW)	I/C (ltr)	Resting tube (ltr)
1 x 57	2	1 x 4	1 x 0.7	(1 x 0.7), (1 x 2.5)
(1+1) x 57	3	2 x 4	2 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)
(1+1) x 57	4	2 x 4	2 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)
(1+1+1) x 57	4	3 x 4	3 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)
(1+1+1) x 57	5	3 x 4	3 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)
(1+1+1) x 57	6	3 x 4	3 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)
(1+1+1+1) x 57	6	4 x 4	4 x 0.7	(1 x 0.7), (1 x 2.5), (1 x 8.5)

Frequency inverter(s) and a water heater are included. Typically, the pin rotor machine is mounted on the Perfector skid, thus the extra unit.

Pin rotor machine type	Motor (kW)
2 x 1 ltr.	1 x 1.5
3 x 1 ltr.	1 x 2.2

A frequency inverter and a water heater are included. For mounting on a Perfector skid. Also available as an individual unit.

Inverter type P2	Motor (kW)
	1 x 4.0

A frequency inverter is included. For mounting on a Perfector skid. Also available as an individual unit.

BGS	Motor (kW)
	1 x 2.2

A frequency inverter is included. For mounting on a Perfector skid. Also available as an individual unit.