



Tetra Alfast[®] S2

Direct In-line standardisation



Tetra Alfast S2 is designed for automatic in-line standardisation of the fat content in milk and cream direct after milk separation, for standardised consumption milk.

Working principle

By continuously controlling the back pressure of the separator cream outlet in a Cascade Control System, an accurate fat content is achieved, regardless of variations in the raw milk fat content. The raw milk is separated in the separator where the skim milk pressure is kept constant by a constant pressure-modulating valve. A mass flow transmitter measures the cream flow from the

separator and calculates the fat content. Another flow transmitter measures the flow of standardised milk.

On receiving signals from the transmitters, the computer in the control panel calculates the fat content, in relation to set points and flow rates, and then transmits control signals to the cream flow modulating valve, thereby controlling the fat content, whenever required.

A surplus cream line is used for regulating the flow rate of remix cream into the skim milk line, thereby standardising the milk

Base unit

Product model

- Mass flow and flow transmitters
- Control-, change-over-, non-return- and sampling valves
- Pressure gauge
- Control panel in stainless steel with ABB SattLine control system
- Human Machine Interface, touch screen mounted in control panel
- The unit is prepared for remote operation
- Technical documentation
- All internal wiring and piping
- All components pre-assembled on a stainless steel frame

Selection of options

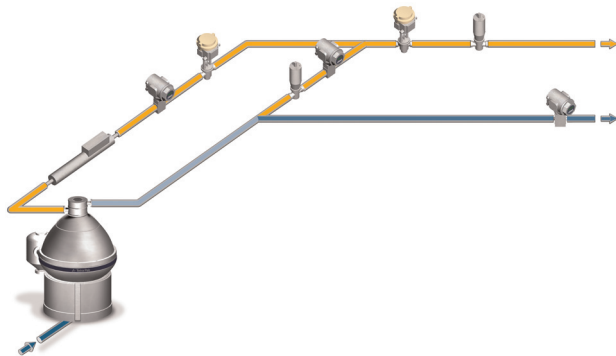
- 3A version
- Mix-proof valve
- Communication with supervisory system
- UPS, uninterrupted power supply
- Air cooler with compressor for control panel
- Digital paperless recorder

Processing parameters

Raw milk flow rate, (l/h), 5 000 - 25 000

Hot milk standardisation temperature, (°C): 45-65

Basic Flowchart for Tetra Alfast S2 - base unit



Note: Separator not included in Tetra Alfast delivery

Consumption data

Power consumption*, (kW)	0,5
Instrumental air, 600 kPa, (NI/min)	200
* Voltage 200-400 V A C, 1-phase (max variation ±5%), frequency 50/60 Hz	

Dimensions*

Height, (mm)	2 000
Width, (mm)	800
Length, (mm)	830
*Options not included	

Shipping data*

Net weight, (kg)	280
Gross weight, (kg)	620
Volume, (m ³)	8,7
*Options not included	

Environment

- Tetra Alfast is build in a modular design, which makes them easy to rebuild and adopt to new duties
- Tetra Alfast consists of parts that can be separated for recycling purposes