Specification for Quark Separator Modified NA 7-06-076 Quark Separator

The machine was an NA-7 which was modified to KNA-3 Specification by GEA Westfalia in 2014 for the manufacturing of strained yogurt.

The specified machine is designed for the production of 17% DM quark at a throughput of maximum 1000 lhr-1 coagulum. Output is 250-280 Kg Quark per hour.

The coagulated skim milk enters the bowl through inlet, flows into the distributor space then through holes in the distributor base into the rising channels of disc stack where it is equally distributed in the spaces between the discs. In the disc spaces the coagulated skim milk is separated into whey and quark due to centrifugal force.

The whey flows towards the center of the bowl from where it is discharged through outlet, foam and pressure, by means of centripetal pump.

- Single centripetal pump of 1.4404 stainless steel
- Lower centripetal pump: D = Ø 80 mm
- Channel height: 1,5 mm
- Channel: 1

The quark accumulates in the sediment holding space from where it is continuously discharged through nozzles into the concentrate from which it slides over a discharge chute into the quark catcher.

In addition to nozzle discharge , self- cleaning bowl discharges are initiated by hand by means of timing unit. Ejection of solids by way of emptying through ejection gap are accomplished with the aid of a sliding piston which is lowered and raised hydraulically the bowl.

- Drive by A. C. three phase motor 4 kW, 400 V, 50 Hz via fluid clutch
- Frame and motor varnished in RAL 9010 with
- set of special tools
- foundation frame with accessories
- 1 x set of documentation in English language, consisting of:
- 1 x instruction manual, 1 x spare part list, 1 x arrangement drawing,
- 1 x standard P & ID of the machine

Control panel with starter.