

R&D Project

R&D Division



MINI DAIRY LABORATORY - MD100

POLYTECH SA is pleased to announce the implementation / completion of its new product **MINI DAIRY MD100**. A laboratory based on mini scaled producing dairy process equipment which is a perfect and friendly solution for the smaller-scale farmer or an Educational Training lab and which is part of LHP 102 Engineering and Vocational Laboratory.



FEATURES

Production Rate	200 Liters/Shift (or as per client request)
Raw Materials	Raw Whole Milk: Cow, Goat, Sheep, Buffalo
Final product	Pasteurized milk (full fat), Yogurt (full fat), Cheese (hard & soft)
Production area and storage (estimated)	>150 m ²
Electricity	380V 50Hz
Cooling	Running water (Ice water chilling System is Optional)

INTRODUCTION

MD 100 is a **mini production dairy line** for **Yogurt** and **Cheese** after the milk is pasteurized in the same vat earlier. Butter is a byproduct. The Mini Dairy is a flexible small line of dairy production and contains all typical components used in modern milk, yogurt, cream and cheese production processes and tailored according to the overall required production rate.

The multi-functional Mini Dairy is suitable for the production rate of 200Lt per shift, 2 batch process per 8 hours of work shift.

The customer is offered a complete full-scale, turn-key line of equipment that includes everything he needs for his dairy production. POLYTECH offers all the planning and instructions regarding the Facilities of Drainage, Water, Electricity and Air.

POLYTECH provides a Start-Up as well as training for the local team in producing the product and utilizing the equipment in the most efficient way.

This is a perfect solution for being an **Educational Pilot dairy production platform** where students can have hands-on training on real life equipment that covers the range of dairy production techniques for milk process dairy producers.



CONFIGURATION

The Mini Dairy can be optionally combined with **homogenizer** and **automatic packaging** machines. The milk Dairy is capable of producing the classic dairy products as: pasteurized milk, yogurt and soft and salted white cheese and hard yellow chesses as well as Butter Cream. Mini Dairy 100 is very easy to clean and operate, a user friendly unit, a perfect solution for small and medium range cow, goat and sheep milk farms and Agro colleges with quantities of up to 300 liters of milk per day. All basic process components and parts are made of stainless steel.