

## PFM-L

### Suppository and Lipstick Moulding Apparatus

The PFM-L Suppository and Lipstick Moulding Apparatus is used for mixing, dosing and molding of semi-solids of high melting points. Practical applications are the molding of lipsticks and suppositories, and the processing/dosing of Pharmaceutical or Cosmetic preparations that require pre-melting of raw materials or successive heating of end products. The PFM-L Suppository and Lipstick Moulding Apparatus consists of a stainless steel vessel with heating double jacket, an agitator, and a dosing mechanism.



PFM-L attached directly to UAM

#### Practical Design

Furthermore, it is provided with a metal stand, which can be fixed and adjusted easily. The heating is performed by means of an electrical heater (1000 W) and a heating fluid that circulates into the double jacket. The practical design of the PFM-L Suppository and Lipstick Moulding Apparatus offers a simultaneous heating and agitation of components even during dosing. The agitation of the molten mass contributes, together with the heating system, to guarantee a uniform heat transfer through the molten mass itself.



### Operating Principle

The sled beneath the filling nozzle can carry any type of molds. It is adjustable for moving in all directions and can be easily controlled by a handwheel. The production rate of the PFM-L Suppository and Lipstick Moulding Apparatus varies depending on many factors such as: viscosity, surface tension, heat transfer coefficient of the material. It may produce up to 4000 standard suppositories per hour. The PFM-L Suppository and Lipstick Moulding Apparatus and its sled can be attached directly to the UAM Universal Motor Drive. All contact parts are made of GMP Compliant materials and can be sterilized in accordance with GMP.

### Advantages

- » Melting, mixing, dosing and molding
- » Good solution for R&D and small batch production
- » Easy to install & maintain
- » Corrosion resistant, medical & food grade contact parts

### Features

- » Versatile and precise
- » Dynamic
- » GMP compliant

### Standard Scope of Supply

The PFM-L (part. no. 40-01186) comes with the following standard scope of supply:

- » Complete mechanism
- » Integrated stirrer
- » Mold support sled
- » One nozzle as required
- » PFM-L glycerin 2l
- » Electrical heating system and thermostat

### Options

- » Molds of different shapes (projectile, torpedo, globule, conical) and different sizes (1-8 ml.)
- » Nozzles of different sizes (1-8 mm)

### Application Specifications

Parameter	Specification
<b>Operation principle</b>	Heating, stirring, dosing and molding
<b>Process range</b>	Dosing and filling of materials which are not flowable at room temperature: high viscous materials and materials with high melting point (e.g. 40°C)
<b>Feed characteristics</b>	<ul style="list-style-type: none"> <li>» Highly viscous substances and blends, that are flowable at 40°C</li> <li>» Melts of suppositories, lipstick etc.</li> </ul>
<b>Range of applications</b>	Pharmaceutical, herbal & alternative medicine, chemicals & fine chemicals, food, agriculture, cosmetics and detergents

## Technical Specifications

Parameter	Specification
<b>Dosing</b>	Free flowing/ gravity dosing
<b>Total volume of vessel</b>	Up to 5 l
<b>Max. operation capacity of vessel</b>	Up to 3.5 l Depends on feed properties, instrument and process parameters
<b>Max. production rate</b>	4000 Standard Suppositories /h Depends on feed properties, instrument and process parameters
<b>Max. rotating speed</b>	200 rpm
<b>Heating system</b>	Double jacket with heating fluid
<b>Temperature range</b>	Up to 40°C
<b>Instrument dimensions</b>	Approx. 790 x 750 x 640 mm (width x depth x height)
<b>Packaging dimensions</b>	Approx. : 480 x 800 x 840 mm (width x depth x height)
<b>Net / Gross Weight</b>	Approx. 27 / 30 kg

We reserve the right to make technical changes without any prior notice.