

	VME-	400
Vessel with lid tiltable interchangeable (*also mobile)		■ ■ □*
useful volume		400
useful volume for strongly foaming products		300
minimum useful volume		105
total volume (when the vessel is closed)		480
jacket illuminated sight glass with wiper inlet pipe with hopper and valve outlet valve		■ ■ ■ ■
Scraper-stirrer		■
	kW	1,5
	r.p.m.	20
Dissolver		■
	kW	5,5
	r.p.m.	1500
Colloid mill adjustable grinding gap		■
	kW	5,5
	r.p.m.	3000
Deaeration system vacuum pump including electrical control vacuum regulation valve automatic aeration of the vessel (when the lid is opened) vacuum gauge		■ ■ ■ ■ ■
Hydraulic system for lifting and lowering the lid for tilting the vessel (*hand-operated)		■ ■
Electrical switching plant control desk with control buttons, signal lamps, ammeters, switch box with contactors, fuses, relays etc. (each motor controlled separately)		■
Miscellaneous Quality of the material: stainless steel AISI 304 (1.4301) automatic temperature control		■ ■
length	cm	274
width	cm	139
height	cm	198
height with lid open	cm	309
net weight	kg	2200
floor load	kg/m ²	500

Technical Data

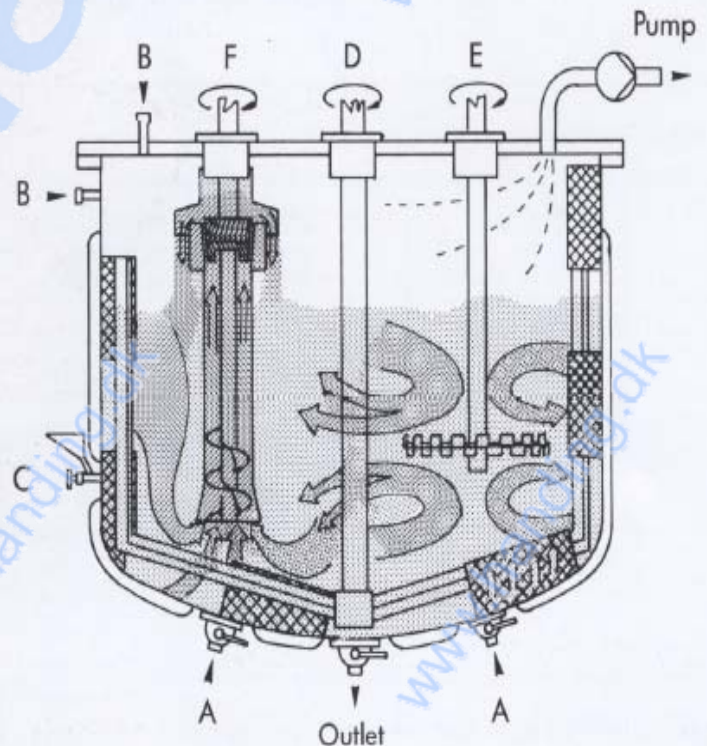
This table lists the most important technical data. All the elements marked with ■ are included in the standard machine, without extra charge.

□ means optional (normally supplied at extra charge), - means not available.

Technical modifications reserved.

When scraper-stirrer, dissolver and toothed colloid mill are in operation, there is a rapid and intensive circulation of the product inside the vessel. The product is continually forced through the toothed colloid mill where it is ground and dispersed and conveyed to the deaeration system where the entrapped air is removed. After passing through the deaerator the product drops back into the vessel, thus creating an intensive circulation of the whole contents of the vessel. The positioning of the mixing implements within the vessel leaves no blind corners. The advantages of this method of internal recycling are:

- absolutely homogeneous end-products
- short production times
- perfect deaeration



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FRYMA type VME-400

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Alle mål i mm.
All measures in mm.

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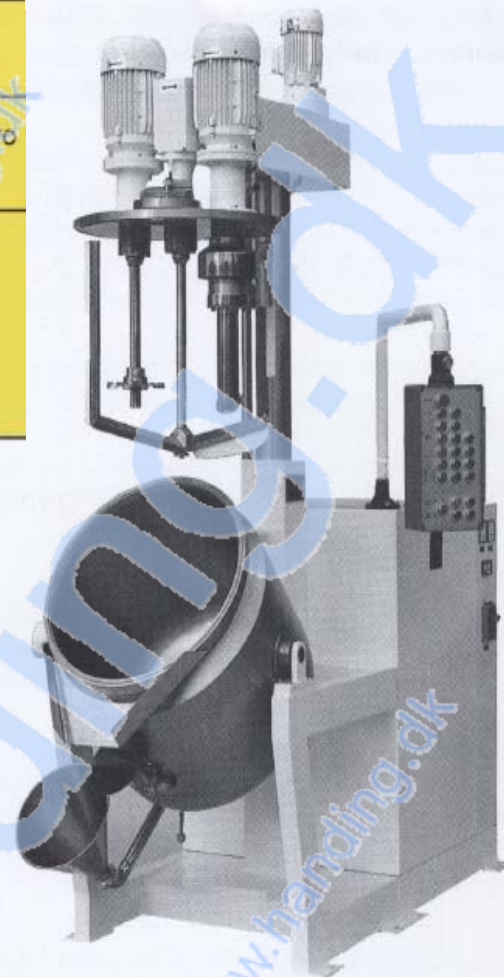
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Standard processing times

(in minutes; incl. feeding, heating, cooling, discharging)	VME-120 to VME-700
toothpaste	60-90
make-up (heated to 70°C with steam)	30-50
hair shampoo	10-30
salad and spiced sauces (heated to 83°C with steam)	30-80
silicone rubber sealing compounds	50-70



process technology



A rough guide to the selection of suitable grinding sets and the best grinding gap openings

Product	grinding set	grinding gap setting
Products with high to medium solid content (i.e. toothpaste), creams and ointments with danger of crystallizing during cooling (i.e. stearate creams), synthetic dispersions	normal toothed	narrow
Creams and ointments, ketchup, salad sauces, sealing compounds	normal toothed	medium
for fine to very fine grinding results (i.e. pigment suspensions for spun fiber compounds)	crosswise toothed	narrow
hair shampoo	coarse toothed	medium
sensitive emulsions, mayonnaise	mayonnaise grinding set	medium to wide

The throughput of the built-in colloid mill (examples) (approx. figures in litres per minute)

	liquid up to approx. 1000 cP	semi-liquid to viscous 1000-30 000 cP	pasty, highly viscous > 30 000 cP
VME-400	120	45	25



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