Series
RO

HOT/COLD MIXING COMBINATION

Series
RO

MIXING TECHNOLOGY

"TRM" HEATING MIXER

"TRM" heating mixers have shown themselves to be very effective in the thermoplastic transformation industry. When a high quality of material and a high hourly production rate are required, "TRM" heating mixers are the ideal solution. These machines are mainly used to produce PVC DRY-BLEND, either rigid or plasticized, from polymers in suspension, emulsion or mass. These machines are also used for densification or heat agglomeration of other thermoplastic resins such as ABS, PE and PP and for drying, hot or cold distribution of pigments and moistening.

TYPE	Total capacity l	Capacity utilisable l	Mix(1) weight Kg	Motor power KW(2) Standard
TRM 200	200	170	85	45
TRM 300	300	250	125	65
TRM 400	400	340	170	90
TRM 500	500	420	210	110
TRM 600	600	510	255	132
TRM 700	700	600	300	160
TRM 800	800	680	340	185
TRM 1000	1000	850	425	200
TRM 1200	1200	1000	500	250
TRM 1500	1500	1280	640	315
TRM 2000	2000	1700	850	400
TRR 2500	2500	2150	1050	450

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

1) The mix weights are valid for PVC-suspension formulae with an apparent density of 0,5 kg/l inclusive of additives and for plasticized PVC-suspension with a percentage of plasticizers not greater than 40 p.h.r.

2) Direct current motors, frequency variators, or soft-start can be fitted to all models on request.

"TRM" heating mixer.

Series
RO

MIXING TOOL

VESSEL LID

Can be supplied in different configurations: opens vertically with appropriate lifting system, opens horizontally with lifting system operated by pneumatic cylinder. Safety limit-switch with motor cut-off on opening. Equipped with attachments for product feed in liquid or powder form.

MIXING VESSEL

Internal surfaces in contact with the material are made of stainless steel: the vessel has a double steel jacket. The internal space is designed for circulation of heating or cooling fluid as necessary.

TEMPERATURE CONTROL

By laterally-positioned thermocouple on the side of the mixing vessel to control operating and safety temperatures.

DISCHARGE

Stainless steel closure plug designed to fit the internal form of the vessel.
Operated by pneumatic cylinder.

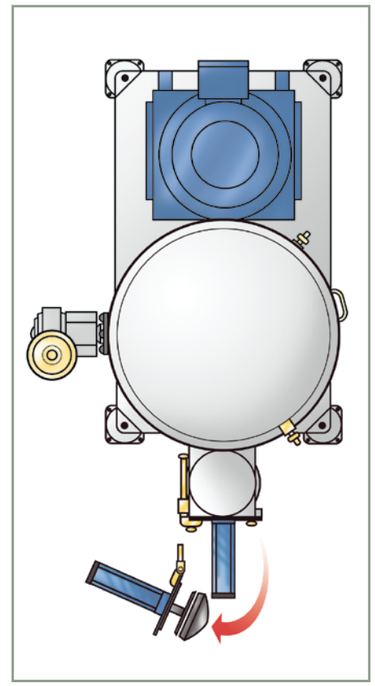
MIXING TOOL

Stainless steel construction with wear-resistant coating on parts affected by greatest friction. Numerous configurations and profiles available for different mixing requirements.

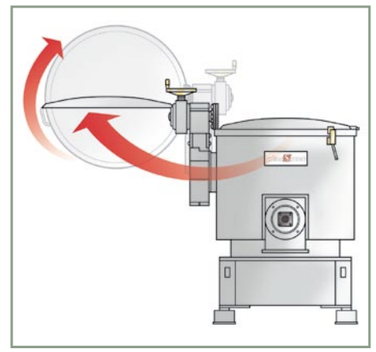
OPTION

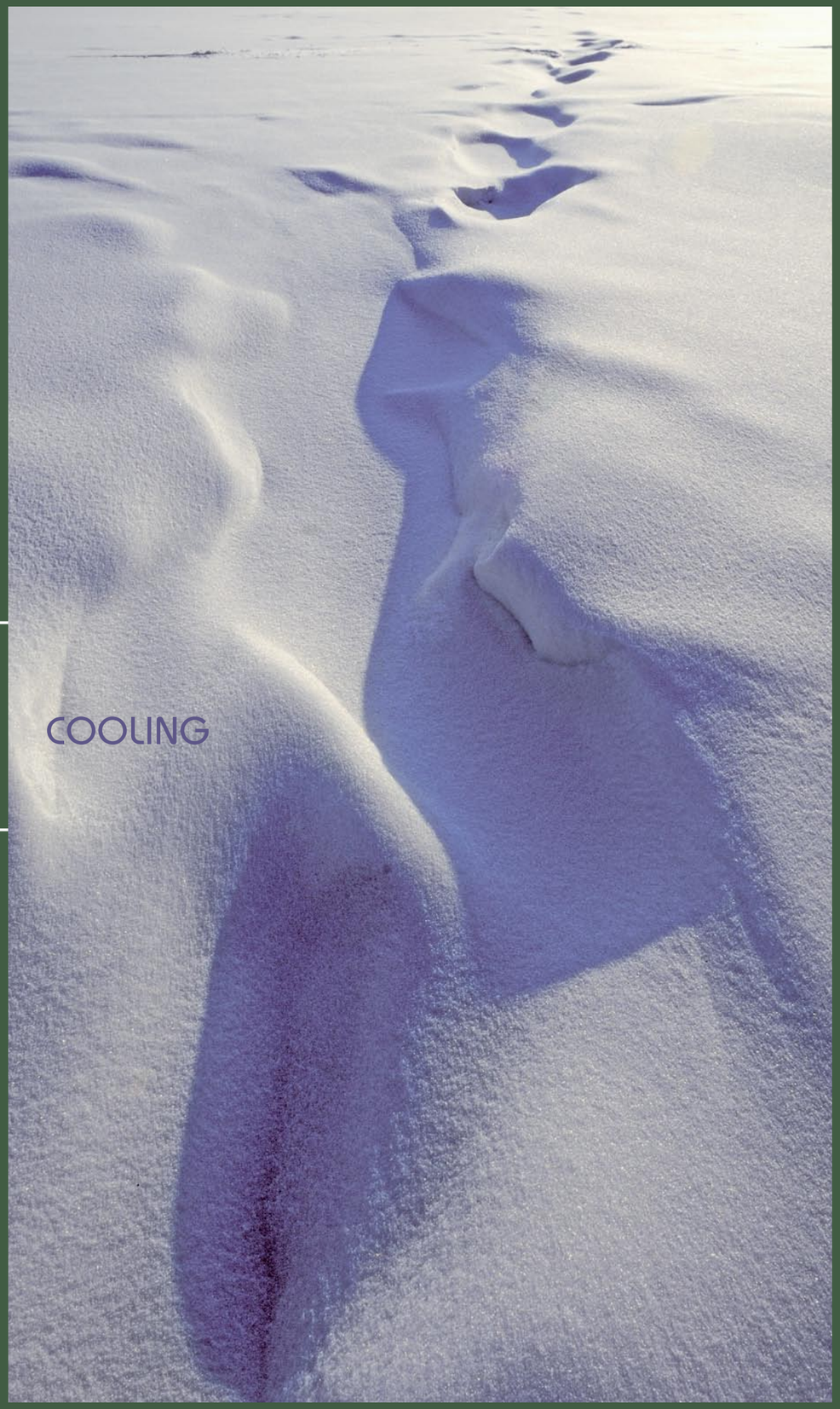
Vertically positioned lid to facilitate cleaning.

Optional: hinged outlet to facilitate cleaning.



Optional: combined horizontal/ vertical lid opening.





Series
RO

COOLING

HORIZONTAL COOLING MIXER TYPE "RFO"

The large capacity of the cooling vessel and its special design shape allow homogenisation and cooling of three or more simultaneous mixer from the turbomixer. Final temperatures of around 50/60°C: lower temperatures are possible through reduction of the turbomixer's hourly production rate. All internal parts in contact with the product are in stainless steel. Production models available up to 5,500 liters capacity. Can be connected to every type of turbomixer and can be constructed in special versions and/or with larger capacities according to the customer's specific requirements.

TYPE	Total capacity L	Motor power KW	
		Standard	Boost
RFO 500	500	4	7,5
RFO 1000	1000	7,5	11
RFO 1200	1200	11	15
RFO 1500	1500	11	15
RFO 2000	2000	15	18
RFO 2500	2500	18	22
RFO 3000	3000	22	30
RFO 4500	4500	37	45
RFO 5500	5500	55	70

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

Horizontal Cooling Mixer Type "RFO".

Series
RO

COOLING SYSTEM

HORIZONTAL COOLING VESSEL

Internal parts in contact with the material are constructed in stainless steel: the vat has a double chember for circulation of cooling water.

LID

Hinged for inspection and polished internally for cleanliness. A gas pressure spring and safety shaft prevent self-closing of the lid. A safety device prevents opening of the lid before the cooler has stopped. Safety limit-switch with motor cut-off on opening.

DISCHARGE

With pneumatically-operated butterfly valve.

MIXING TOOL

Stainless steel construction, distributes material axially and radially.

TEMPERATURE CONTROL

By laterally-positioned thermocouple on the side of cooling vessel.

Internal detail of cooler.

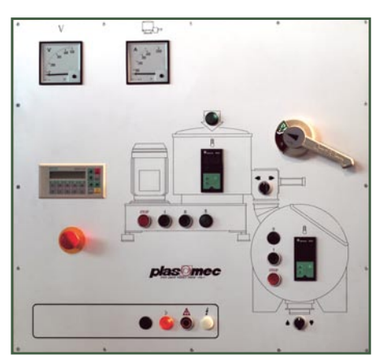
Series
RO

COMBIMIX RO

COMBIMIX TYPE "RO"

ELECTRICAL EQUIPMENT

For manual, automatic and continuous operation of the mixing unit. Different configurations suitable for interfacing with various supply system and power levels are available. The PLAS MEC standard includes supply of a "PLC" programmable logical controller for the command and control of the entire mixing process. The software can be integrated with the necessary maintenance and lubrification data.



Detail of control panel positioned on electric switchboard.

TYPE	Hourly production kg/h rigid PVC min.	rigid PVC max(1)	plasticized PVC min.	plasticized PVC max
RO 200/500	425	595	340	510
RO 300/1000	635	890	500	762
RO 400/1200	850	1200	680	1020
RO 500/1500	1050	1470	840	1260
RO 600/1500	1275	1785	1020	1530
RO 700/2000	1500	2100	1200	1800
RO 800/2500	1700	2380	1360	2040
RO 1000/3000	2125	2975	1700	2550
RO 1200/3000	2500	3500	2000	3000
RO 1500/4500	3200	4480	2560	3840
RO 2000/5500	4250	5950	3400	5100

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

1) Valid for fully-automatic operation with final temperature of 120°C for turbomixer and 50°C for cooler, but only when cooling water flow is sufficient and water temperature is no higher than 15°C.

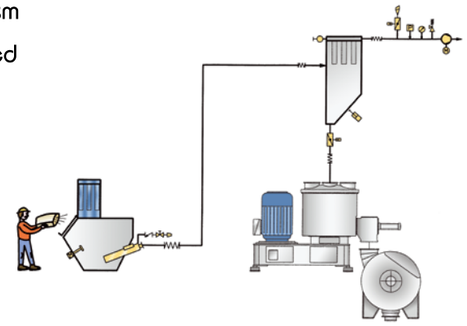
"CRS" BAG EMPTYING UNIT

Semi-automatic unit for feeding powder (PVC/CACO3/stabilisers) from bags into mixer, consisting of:

- a bag-emptying mechanism located on the ground, fitted with powder intake system and self-cleaning filter
- a feeder hopper positioned on the turbomixer.

Standard configuration COMBIMIX "RO" with "CRS".

TYPE	SUITABLE FOR
CRS/1	TRM 200 / TRM 300 TRM 400 / TRM 500
CRS/2	TRM 600 / TRM 700 TRM 800
CRS/3	TRM 1000 / TRM 1200 TRM 1500 / TRM 2000



COMBIMIX "RO" OVERALL DIMENSIONS

TYPE	A	B	C
RO 200/500	3310	2220	2710
RO 300/1000	3730	2740	3000
RO 400/1200	3730	2780	3000
RO 500/1500	4120	3120	3290
RO 600/1500	4220	3120	3390
RO 700/2000	4470	3120	3640
RO 800/2500	4850	3410	3800
RO 1000/3000	5020	3640	3860
RO 1200/3000	4990	3690	3890
RO 1500/4500	5670	4070	4440
RO 2000/5500	5960	4360	4530

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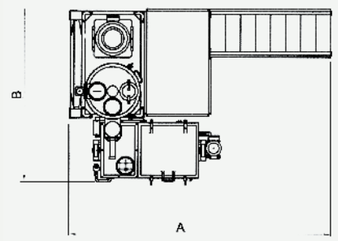
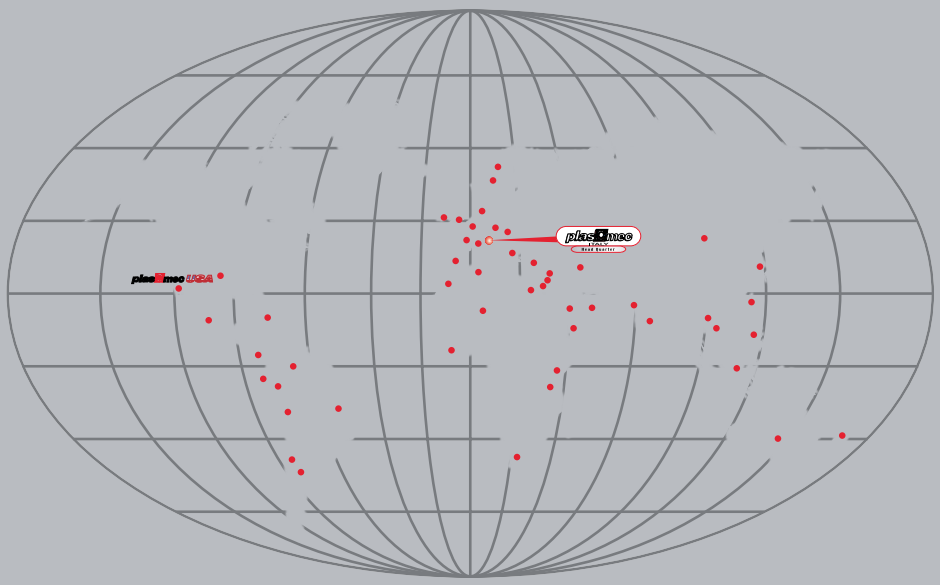


THE MARKET

Through our SALES OFFICE we are present in the following markets:



EUROPE
ALL COUNTRIES OF THE "EUROPEAN UNION"
Norway, Switzerland.

EST EUROPE
Russia, Serbia, Ukraine.

AFRICA
Algeria, Ivory Coast, Kenya, Marocco,
Nigeria, South Africa, Sudan, Tunisia, Zimbabwe.

MIDDLE EAST
Egypt, Iran, Israel, Jordan, Lebanon, Saudi Arabia,
Syria, Turkey, United Arab Emirates, Yemen.

FAR EAST
China, India, Indonesia, Japan, Korea, Malaysia, Pakistan,
Philippines, Singapore, Taiwan, Thailand, Vietnam.

OCEANIA
Australia, New Zealand.

NORTH AMERICA
Canada, United States, Mexico.

CENTRAL AMERICA
Costa Rica, Cuba.

SOUTH AMERICA
Argentina, Brazil, Chile, Colombia,
Ecuador, Peru, Venezuela.

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