



MIXING UNIT

QualiTRMU-Series

Mixing Unit

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QualiTRMU-Series Mixing Units are engineered to integrate seamlessly with the QualiTR-300 Torque Rheometer Main Drive, forming a complete system for advanced mixing and rheological analysis of polymers, elastomers, and other composite materials.

Available Models:

QualiTRMU-30

QualiTRMU-60

QualiTRMU-200

QualiTRMU-300



FEATURES/ADVANTAGES

Advanced Rheological Analysis

Enables precise measurement of viscosity, shear stress, shear rate, and flow behavior under controlled conditions for accurate material characterization and evaluation.

Versatile Volume Options

Offers a selection of chamber sizes—30ml, 60ml, 200ml, and 300ml—making the system suitable for both small-scale laboratory tests and pilot-scale production simulations.

High Torque Capability

Provides torque up to 300 Nm, delivering powerful mixing performance for highly viscous materials and ensuring consistent, reproducible results in demanding applications.

Multiple Rotor Configurations

Supports various rotor types including Roller, Banbury, Delta, Cam, and Sigma, allowing flexible adaptation to different material types and mixing requirements.

Precise Thermal Management

Features a three-zone electric heating system and RKC temperature controller compatibility to ensure accurate and uniform temperature control across the mixing chamber.

Efficient Cooling System

Utilizes compressed air cooling for fast temperature stabilization, enabling quicker transitions between tests and enhancing operational safety and reliability.

Safety-First Design

Built with dual safety mechanisms—mechanical and software-based—offering dependable protection for operators and minimizing the risk of equipment failure during operation.

Ideal for R&D and Scale-Up

Combines lab-grade precision with industrial robustness, making it an excellent solution for formulation development, R&D studies, and production process optimization.

TECHNICAL SPECIFICATIONS

SPECIFICATION	QUALITRMU-30	QUALITRMU-60	QUALITRMU-200	QUALITRMU-300
Volume	30 ml	60 ml	200 ml	300 ml
Rotor Types	Roller, Banbury, Delta, Cam, Sigma (shared across all models)			
Rotor Ratio	3 : 2			
Maximum Torque	300 Nm			
Max Temperature	350°C (customizable up to 500°C)			
Heating Method	Three-zone electric heating			
Temperature Control	RKC temperature control system			
Maximum Speed	100 rpm	200 rpm	200 rpm	200 rpm
Cooling Method	Compressed air cooling			
Safety Features	Mechanical + software double protection			



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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