



جامعة السلطان قابوس
Sultan Qaboos University

Requisition Form

Requisition Number: 7038/26/0074

Last Date for Submission: 10/08/2026

S.N.	SQU Product Code	Description	Qty	UOM	Remarks																												
1	EQUINSRS00002	CRYOGENIC PLANTARY BALL MILL	1	Nos	Cryogenic Ball Mill / Cryomill / Freezer Mill General Description The Cryogenic Ball Mill is a high-performance laboratory grinding system designed for cryogenic pulverization of temperature-sensitive materials under extremely low temperatures using liquid nitrogen cooling. It is suitable for grinding polymers, elastomers, composites, biomass, fibers, biological samples, pharmaceuticals, and soft or heat-sensitive materials into fine powders while preventing thermal degradation. It provides reproducible grinding performance, controlled cryogenic cooling, and efficient particle size reduction for research and advanced material characterization applications. More details are in this link: https://docs.google.com/document/d/1o5Yzo3bdcTtiOmCW2AbB88hJcbA_c9s/edit?usp=sharing&oid=110302868485855904870&rtpof=true&sd=true <table><tr><th colspan="2">Technical Specifications</th></tr><tr><th>Parameter</th><th>Specification</th></tr><tr><td>Grinding Jar Size</td><td>500-2000 ml</td></tr><tr><td>Vacuum Jar Size</td><td>500-2000 ml</td></tr><tr><td>Sun Wheel Speed</td><td>5-320 rpm</td></tr><tr><td>Ball Mill Jar Speed</td><td>10-640 rpm</td></tr><tr><td>Control Temperature</td><td>-60°C to -1°C</td></tr><tr><td>Nitrogen Canister pressurization</td><td>50L Auto</td></tr><tr><td>Power Consumption</td><td>1.5 kW</td></tr><tr><td>Power Supply</td><td>220V/380V/50Hz</td></tr><tr><td>Product Dimension</td><td>83×57×72 cm</td></tr><tr><td>Net Weight</td><td>128 kg</td></tr><tr><td>Grinding Jar Size</td><td>500-2000 ml</td></tr><tr><td>Vacuum Jar Size</td><td>500-2000 ml</td></tr></table>	Technical Specifications		Parameter	Specification	Grinding Jar Size	500-2000 ml	Vacuum Jar Size	500-2000 ml	Sun Wheel Speed	5-320 rpm	Ball Mill Jar Speed	10-640 rpm	Control Temperature	-60°C to -1°C	Nitrogen Canister pressurization	50L Auto	Power Consumption	1.5 kW	Power Supply	220V/380V/50Hz	Product Dimension	83×57×72 cm	Net Weight	128 kg	Grinding Jar Size	500-2000 ml	Vacuum Jar Size	500-2000 ml
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