

Phoenix

NuWave's Patented Rapid Vacuum Assisted Processing (RVAP)



SPECIFICATIONS

Processing Rate Capacity varies depending on the specific reaction factors for each synthesis application

Cycle Time 70 seconds

Number of Chambers 1

Process Type Continuous Process

Maximum Output (RF) Nominally rated at 12kW (4 magnetrons @ 3kW each)

Power Requirements 480V 3ph+N 50A per phase



PROCESSING QUALITY

Clients have seen NuWave's MAOS systems speed up processing 240X while increasing yield up to 25%. While other systems are restricted to gram-scale batches, NuWave's system brings MAOS to an industrial scale, capable of processing tons of product per day.

Focused applicators accelerate organic synthesis reactions to completion

Dark conditions eliminate degradation from light

Synthesis in vacuum conditions virtually eliminates oxidation

MICROWAVE ASSISTED ORGANIC SYNTHESIS

Organic synthesis processes usually involve using high pressure and temperature to reach the conditions necessary for the chemical reactions to occur. These reactions often require large amounts of energy and time maintaining these conditions to achieve the required high bonding ratios.

NuWave's Microwave Assisted Organic Synthesis process uses patented precision microwave applicators and controlled vacuum chambers to rapidly catalyze reactions to completion. This process expedites reaction times and significantly lowers overall production costs through labour, and energy savings.

- Remote troubleshooting available
- Modular components for easy maintenance
- Data logins for compliance and diagnostics
- Intuitive computer control systems

CONTACT US

CONTACT US TO GET STARTED

nuwaveresearch.com

info@nuwaveresearch.com | 604-566-8338

FOLLOW US FOR OUR LATEST UPDATES



@NUWAVERESEARCH

SYSTEM REQUIREMENTS

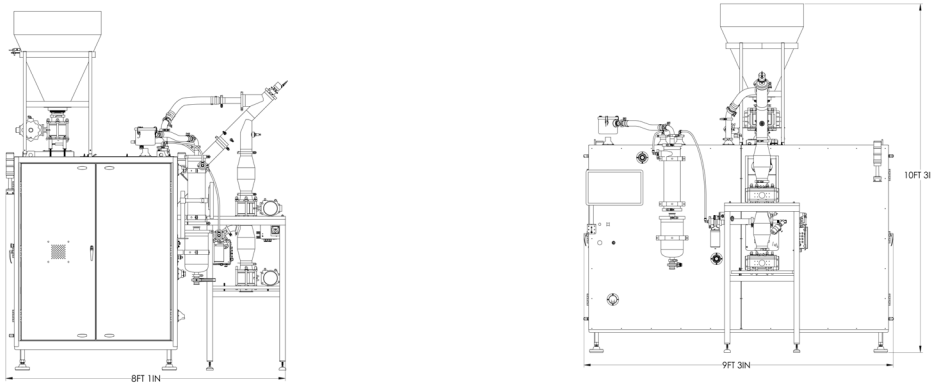
- Drainage: floor drain
- Relative humidity (environment): dry conditions required in the packaging room; users determine humidity level
- Heat exchange system (chiller): available from NuWave or can be customer supplied
- Internet connection: requires at least 1MBps
- Continuous monitoring by customer on-site via HMI

CERTIFICATIONS & APPROVALS

- Health Canada approved chemicals for CIP
- Electrical safety approved by LabTest Certification Inc. to CSA standards
- EU-GMP compliant RLTD System (in progress)
- ISO 9001 certified quality management system (in progress)
- Sanitation SOP
- Pass/Fail swab test

DIMENSIONS

Full system weight 910kg 2,006lb



ROOM LAYOUT

