

MS - 3030

Microwave Synthesizer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Specification

Capacity –	27 liter
Power –	850 W
Stages –	170 watt to 850 watt
Power Level –	Adjustable power levels during operation
Frequency –	2450 MHz
Panel –	Set all operational parameters through one panel.
Stirrer –	Single magnetic stirrer
Magnetron–	Magnetron protected from reflected microwave energy.
Temperature –	Probe from R. T. to 400°C
Exhaust –	Powerful Exhaust System
Timer –	60 minutes
Top –	M S powder coating
Internals –	Polycarbonate shield
Choke –	Microwave leakage proof inlet at the top
Lock –	Triple safety interlocks
Door –	Heat resistant door with steel mesh
Indicator –	Close indication for additional safety
Tray –	Silicon Rubber
Distillation –	Vertical distillation assembly
Condenser –	Double surface Reflux Condenser
Reaction –	05 ml to 80ml
Flask –	25, 50,100 ,250 & 500 ml flask

Allows addition of reagents while microwaves are being delivered Following reactions which can be performed Refluxing & Stirring, Normal Distillation, Extraction & Partial Dehydration

►► Advantages

Speed : Reaction rate increases 10-1000 times

Yields : Increases 10-30% on an average

Selectivity : Cleaner chemistry simplifies post reaction work up

Green chemistry : Reduced solvent usage creates less waste

Reaction Quenching : Minimises side reactions

Microwave heating is specific and instantaneous, useful for the solvent-free reaction

A wide range of selective functional group transformations can be accomplished.

It is environmentally friendly and serves the purpose of protecting human health and environment, Without compromising viability and speed.

One of the thrust areas is to explore alternative reaction conditions and media to accomplish the desired transformations with minimum by products or waste as well as eliminating use of conventional organic solvents if possible.

Thus, microwave induced organic reaction enhancement (MORE) has emerged as a simple, clean, fast, economic, environmental and non- traditional method for the synthesis of drugs, intermediates & chemicals.

►► Application

For Any application CATA, can be configured accordingly.

It can safely and conveniently be used for the following applications :

- Kjeldahl Nitrogen
- Distillation (Vacuum & Normal)
- Evaporation
- Extraction
- Drying
- Synthesis
- Sterilization
- Digestion

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



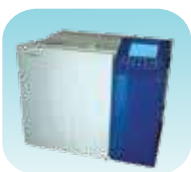
UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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