

plas-aid

The reliable choice in portable hot-air dryers.

PERFORMANCE

PORTABILITY

ECONOMY

MGD SERIES



Introducing the **Matsui Global Dryer**

Hot Air Dryer and Loader.

Versatile, high performance

in a compact, **portable** design.

Only from Matsui.

MGD SERIES

Take a look at what the new MGD offers:

ECONOMY AND PERFORMANCE

An economical alternative to our MJ3 desiccant dryer, the power-sipping, portable MGD hot-air dryer/vacuum loader uses significantly less energy and slightly longer drying times to efficiently dry resin to optimum moisture levels.

VIRTUALLY MAINTENANCE FREE

The MGD is so simple in design it's a snap to set up, and runs virtually maintenance free. Heater circuits with solid state relays provide 10 years of maintenance-free operation. Its efficient, streamlined design uses just a single blower and heater, reducing energy consumption. Routine maintenance can be performed from the front of the system, quickly and easily.

POINT-TO-POINT JUST-IN-TIME CONVEYING

The MGD's drying hopper is designed to create mass flow with no short pass. It is equipped with a programmable loader, which releases measured amounts of resin at specific intervals. Pellets are conveyed and delivered for the next loading cycle on a just-in-time schedule. This helps keep pellets at the optimum moisture level from the dryer to molding machine, maximizing performance and minimizing part defects.

TOUCHPAD PROGRAMMING

An easy-to-use touchpad simplifies programming, enabling you to preset operations, monitor settings, view progress and make changes effortlessly.

ENERGY-SAVING CONSTRUCTION

Insulated stainless steel "dual-hopper" design prevents heat loss and saves energy.



MGD or MJ3...which drying technology is best for you

COMPACT PORTABLES FOR EVERY NEED.

MGD hot-air technology

- Extremely low initial investment
- Extremely low operating costs
- Engineered for years of maintenance-free operation
- Longer drying times compared to MJ3
- Simple design is easy to maintain
- Compact, portable both dries and conveys
- All components easily accessed from one side of machine
- Reliable solid state circuitry

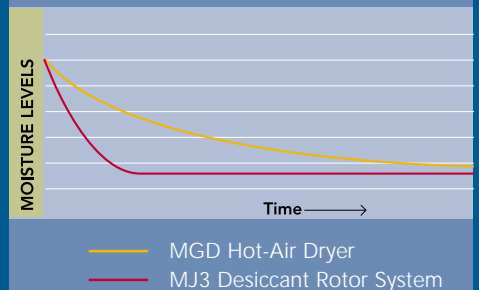
MJ3 with desiccant rotor technology

- Cuts drying times in half
- Low operating costs
- Unique, desiccant rotor drying technology lasts 15 years
- Reaches -40 dew point in a fraction of the time
- Stainless steel components are easy to maintain
- Compact, portable both dries and conveys
- Easy access to components from one side of machine
- Reliable solid state circuitry

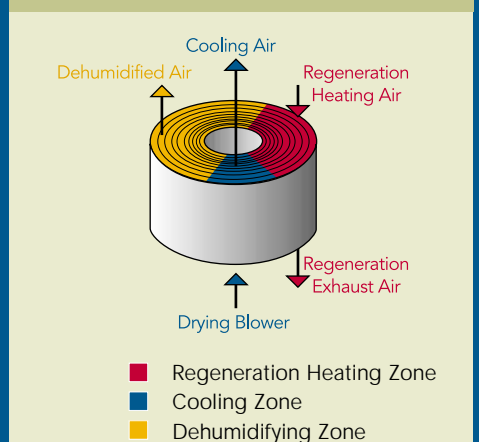
COMPARE MATSUI DRYERS ON TIME

| Resin | MGD Dryers | MJ3 Desiccant Dryers |
|---------------|------------|----------------------|
| Polycarbonate | 3-4 hours | 1.5 hours |
| Nylon | 4-6 hours | 2.5 hours |
| ABS | 3-4 hours | 2.0 hours |

COMPARE DRYING PERFORMANCE



DESICCANT ROTOR TECHNOLOGY



MGD SERIES SPECIFICATIONS

| MGD MODEL | 15J | 25J | 50J | 75J | 100J | 150J | 200U | 250U | 300U |
|-----------------------------------|---|---------------------|---------------------|---------------------|---------------------|----------------------|-------------------------------|---------------------|---------------------|
| HOPPER CAPACITY CU. FT. (L) | 0.99(28) | 1.55(44) | 3.18(90) | 4.41(125) | 6.00(170) | 8.83(250) | 12.36(350) | 15.01(425) | 17.66(500) |
| STOCK CAPACITY *1 LBS (KG) | 33(15) | 55(25) | 110(50) | 165(75) | 220(100) | 330(150) | 440(200) | 550(250) | 660(300) |
| HOPPER INSULATION | Glass Wool Insulation and Outer Panel | | | | | | | | |
| DRYING TEMPERATURE (°F) | 320°F (180°C)Max. | | | | | | | | |
| DRYING BLOWER (w) | 34 | 200 | 200 | 195 | 195 | 300 | 300 | 400 | 400 |
| DRYING HEATER HEATER (kW) | 2.1 | 4.0 | 5.4 | 6.3 | 7.5 | 12.4 | 17.1 | 19.8 | 19.8 |
| HEATER CONTROL | PID Control with SSR Contactor | | | | | | | | |
| POWER SUPPLY VOLTAGE | 230V/460V 3Phase 60Hz | | | | | | | | |
| BREAKER CAPACITY (230/460v) | 30A/15A | 30A/15A | 30A/15A | 30A/15A | 40A/20A | 50A/30A | 60A/30A | 100A/50A | 100A/50A |
| COMPRESSED AIR REQUIREMENT | 60 ~ 110 PSI (0.4 ~ 0.6MPa) 2.6GPM (10L/min) | | | | | | | | |
| CONVEYING BLOWER | 1.1kW | | | | | | 2.5kW | | |
| PRIMARY CONVEYING HOSE | 1.5"-15ft. (Option 1.5"-30ft.) | | | | | | 2" - 15ft. (Option 2" -30ft.) | | |
| #1 SECONDARY CONVEYING HOSE | 1.5"-15ft. | | | | | | 2" - 15ft. (Option 2" -30ft.) | | |
| OPTION #2 SECONDARY CONVEYING | 1.5"-15ft. | | | | | | 2" - 15ft. (Option 2" -30ft.) | | |
| SYSTEM PROTECTION | Soft and Mechanical Over Heat, Reverse Phase Alarm, Automatic Cool Down Mode, Alarm Buzzer | | | | | | | | |
| APPROX. SHIPPING WEIGHT LBS. (KG) | 330(150) | 375(170) | 460(210) | 500(230) | 530(240) | 600(270) | 880(400) | 1,280(580) | 1,350(600) |
| APPROXIMATE DIMENSIONS (INCHES) | 34.6x23.8x 66.8H | 34.6x23.8x 76.6H | 39.4x28.5x 84.9H | 39.4x28.5x 96.7H | 43.2x30.7x 90.0H | 43.2x30.7x 105.4H | 57.1x27.8x 99.9H | 65.3x34.0x 94.0H | 65.3x34.0x 99.9H |
| SYSTEM FEATURES | Energy Saving Hopper, Solid State Relays, Primary Conveying, Secondary Conveying w/Line Purge Valve | | | | | | | | |
| AVAILABLE OPTIONS | Weekly Timer, #2 Secondary Conveyance, APH Receiving Hopper for Secondary Convey | | | | | | | | |

*1 Conversion Rate Bulk Density = 37.5 Lbs./cft (0.6kg/L)



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