



Intelligent drying solutions. Only from MATSUI.

USE UP TO 75% LESS ENERGY

IT THINKS & ADJUSTS TO HELP YOU SAVE

FASTER, MORE EFFICIENT DRYING

MJ5-i SERIES



Introducing the **MJ5-i**

Dehumidifying Dryer and Loader.

Intelligent, Next Generation

Technology that reduces energy

consumption up to **75%**.

Only from Matsui.

MJ5-i SERIES

Take a look at what the new MJ5-i offers:

For years, dryers have used more electricity – and wasted more energy dollars – than many other systems in the molding cell.

Not any more, thanks to the new MJ5-i from Matsui. It's the first series of dehumidifying dryers with **iplas** – intelligent, self-control technology that autonomously determines and maintains optimal drying conditions with no operator involvement. The MJ5-i with iplas can sense even the slightest changes in load, temperature and other variables, automatically shifting the system into another mode or shutting it down entirely. As a result, it uses up to 75% less energy than conventional systems, while saving you time, money and effort.

Take a look at what the new MJ5-i offers:

Up to 75% less energy use – Unlike conventional dryers that run continuously no matter how large or small their load, only the MJ5-i with iplas intuitively senses size variations, automatically adjusting, reducing energy use up to 75%.

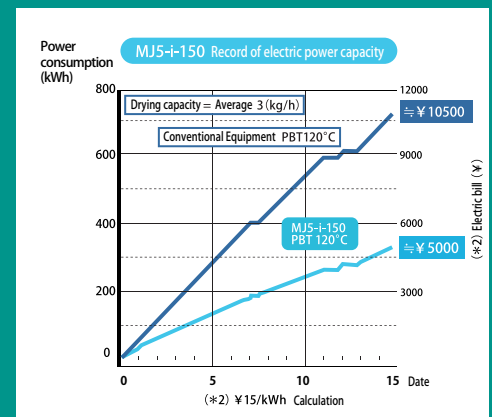
Resin savings – Once material in the hopper is warm and dry, the MJ5-i powers down, preventing potential degradation or loss of properties.

Cyclonic filtering – Combining centrifugal force with gravity, the system's cyclonic filter pushes resin powder into a dust box at the system's base. Just lift out the box to empty any residue.

No Owner's Manual Required – Everything from presetting operations to troubleshooting can be programmed and managed effortlessly from an easy-to-use touchpad on the system's built-in controller.

Faster resin drying – Compared to the competition, the MJ5-i dries resin in half the time, saving hours of energy with every material change. Plus its insulated, stainless steel construction prevents heat loss, saving you even more.

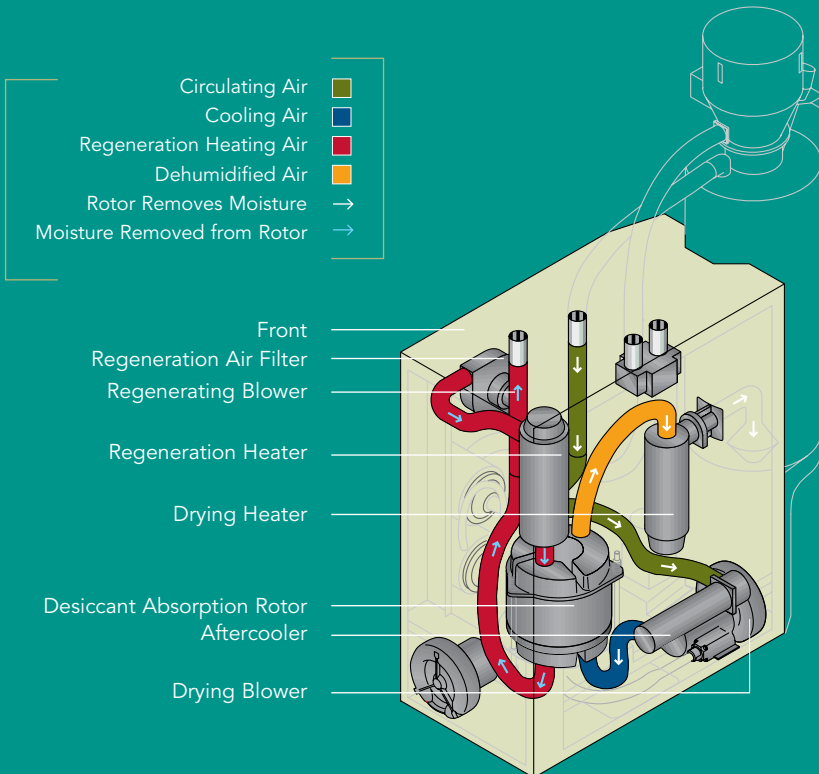
Maximum performance in minimal space – The MJ5-i combines a dehumidifying dryer and vacuum loader into one compact, space-saving solution, for maximum performance in minimal floor space.



Use up to 75% less energy..the dryer that thinks.

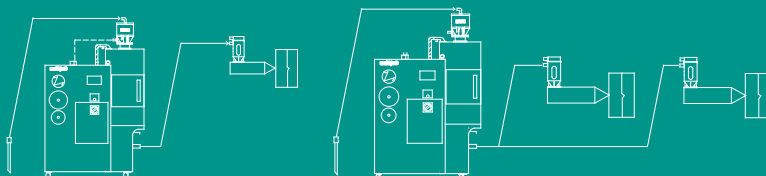
THE NEW MJ5 THINKS OF WAYS TO SAVE YOU MONEY.

Desiccant rotor technology cuts drying time

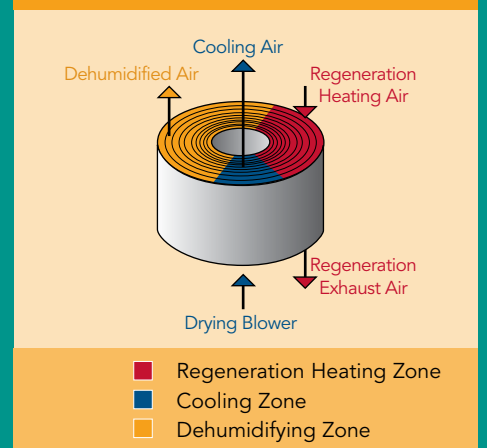


Matsui's desiccant rotor technology has become the industry standard in dehumidifying hot air drying equipment. Its unique, honeycomb design—molecular sieve desiccant, bonded and then baked onto ceramic paper—eliminates powder that can contaminate the system. Its large contact area effectively absorbs at high temperatures, drying resin in half the time while stabilizing dew points at a constant -40°F .

Dryer & Press loading included with all receivers



THE STREAM OF AIR INSIDE THE ROTOR

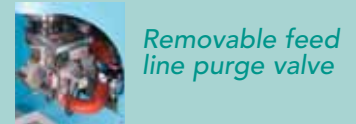
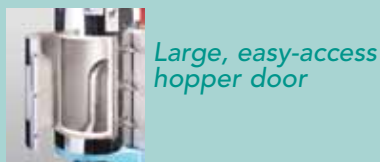
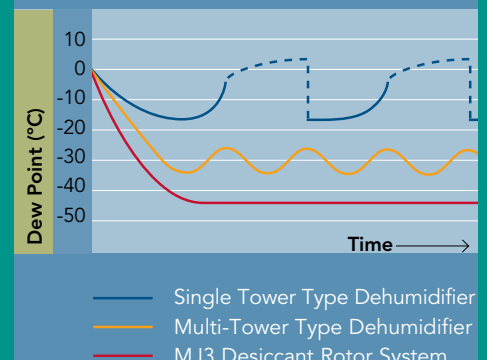


Compare Matsui to the competition:

THE MJ5 DRIES RESIN FASTER.

Resin	Other Dryers	MJ5-i Desiccant Dryers
Polycarbonate	3-4 hours	1.5 hours
Nylon	4-6 hours	2.5 hours
PET	6-8 hours	3.0 hours

AND IT STABILIZES DEW POINTS.



MJ5-i SERIES SPECIFICATIONS

MJ5-i MODEL	150	350	650
HOPPER VOLUME (FT ³)	1.7	3.5	7
DRYING TEMPERATURE RANGE (°F)	140-320		
DEW POINT (°F)	-40		
DRYER BLOWER (KW)	0.28	0.42	1.15
DRYER HEATER (KW)	2.1	2.4	5.4
REGENERATION BLOWER (KW)	0.28	0.42	
REGENERATION HEATER (KW)	1	2.1	3.1
ABSORPTION TOWER MOTOR (W)	25	25	25
CONVEYING BLOWER (HP)	2.0		
CONVEYING BLOWER - PRIMARY SIDE (FT)	30		
CONVEYING BLOWER - SECONDARY SIDE (FT)	15		
POWER SUPPLY (V)	230V or 460V, 3 phase 60Hz		
OPERATION CIRCUIT VOLTAGE	AC100V		
SUPERFICIAL ELECTRICITY (KVA)	6.8	8.5	13.9
BREAKER (A)	30/15	30/15	50/30
AIR PRESSURE (PSI)	72		
COMPRESSOR AIR FLOW RATE (CFM)	0.17		
APPROXIMATE DIMENSIONS (INCHES)	44x24x83	47x24x87	59x25x99
WEIGHT	595 lbs.	640 lbs.	882 lbs.
DRYING TEMP CONTROL	PID Control Heater, Non-contact relay		
REGENERATION TEMP CONTROL	PID Control Heater, Non-contact relay		
SYSTEM PROTECTION	Overheat protection (drying and regeneration temperature), Blower overload, Blower reversion		
EXTERNAL CONTROL	External non-voltage contact (incoming current: 4.1 mA (DC 24V)		

SYSTEM FEATURES

Energy Saving Insulated Hopper, Solid State Relays, Dryer & Machine Conveying Systems, Line Purge, 15-Year Desiccant, Auto-Start Timer

AVAILABLE OPTIONS

Dew-point indicator, Second Machine Conveyance, Alarm Output, Alarm Light, Jet Selector Re grind Valve, Honeycomb Rotor Indicator



MVH Receiver

Ideal for low volume conveying, the MVH keeps small batches dry and simplifies material changes.



APH Receiver

Aero-Power Hopper removes dust during resin transfer, dramatically improving quality and reducing defects.



JC Jet Clone Receiver

With built in flapper seal.



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