



MJ5-i Series

FASTER, MORE EFFICIENT DRYING.
USES UP TO 75% LESS ENERGY.
IT THINKS TO HELP YOU SAVE.



INTELLIGENT DRYING SOLUTIONS. ONLY FROM MATSUI.

MJ5-i Series

Intelligent, next generation technology that reduces energy consumption up to 75%.

FASTER, MORE EFFICIENT DRYING

For years, dryers have used more electricity - and wasted more energy - than any other system connected to an injection molding machine.

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 or moisture levels, 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 reaches optimal temperature and moisture level, MJ5-i automatically reduces power, preventing overheating and unnecessary resin spoilage.

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.

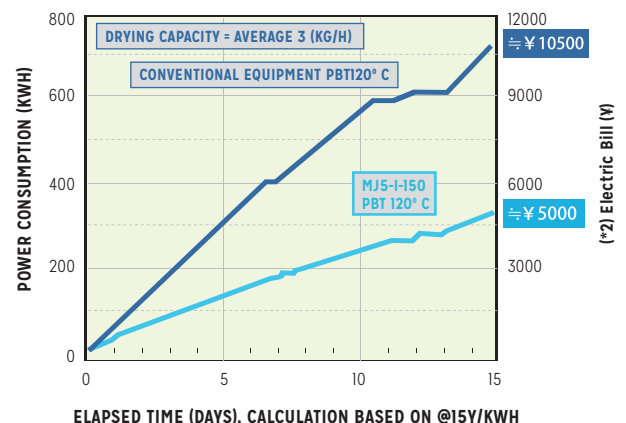
No owner's manual required - Everything from presetting operations to troubleshooting can be programmed and managed effortlessly from an easy-to-use touchpad on the system's built-in controller.

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.



MJ5-i-150 Recorded Power Comparison



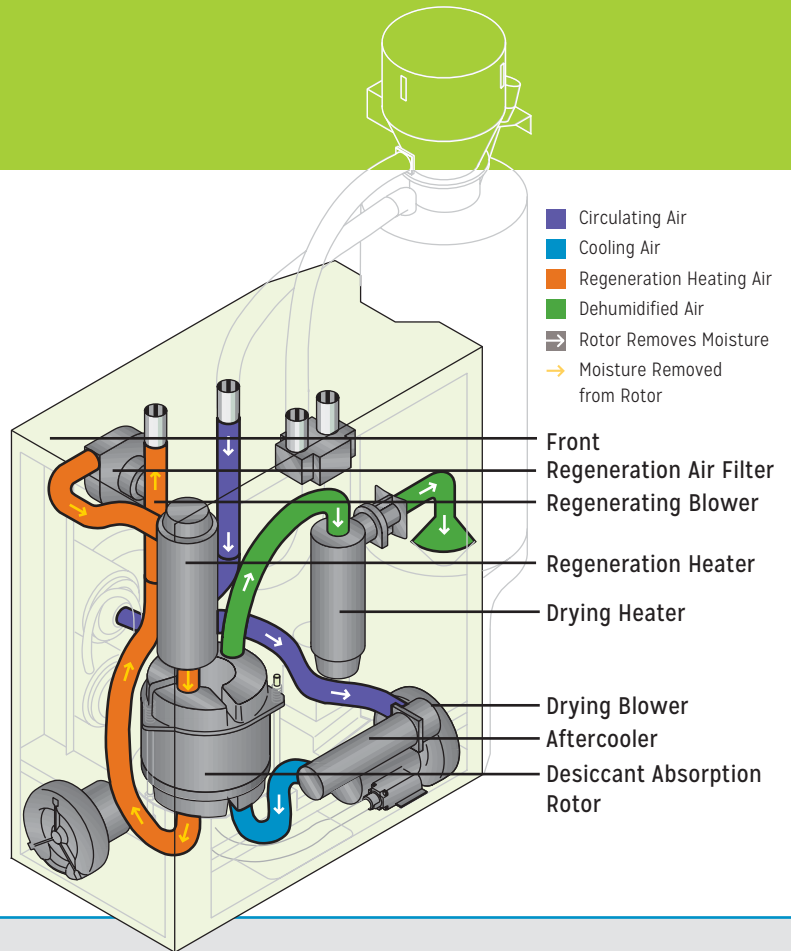
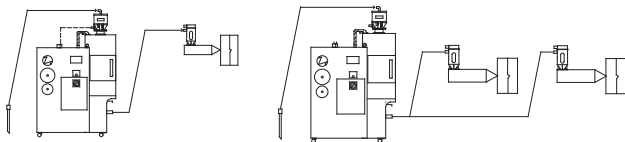
INTELLIGENT DRYING SOLUTIONS. ONLY FROM MATSUI.

THE MJ5-i SERIES. THE DRYER THAT THINKS TO HELP YOU SAVE.

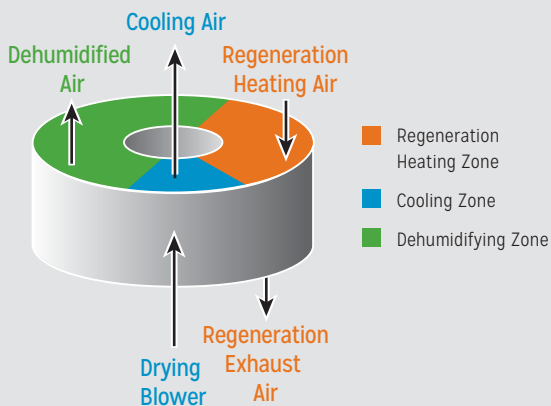
DESICCANT ROTOR TECHNOLOGY CUTS DRYING TIME

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 and Press loading included



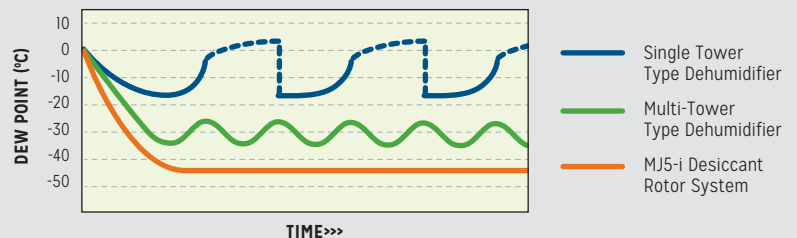
THE STREAM OF AIR INSIDE THE ROTOR



COMPARE MATSUI TO THE COMPETITION

The MJ5-i dries resin faster and stabilizes dew points.

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



Large, easy-access hopper door



Cyclonic filter requires minimal maintenance



Front-of-system access for easy routine maintenance



Removable feed valve

MJ5-i SERIES SPECIFICATIONS

MODEL MJ5-i	150	350	650	1500
HOPPER CAPACITY (FT ³)	1.76 FT ³ / 30KG	3.53 FT ³ / 60 KG	7.06 FT ³ / 120 KG	17.6 FT ³ / 300 KG
DRYING TEMPERATURE (°F)	140 - 320			158 - 320
DEW POINT	-40 (86°F, 75%RH)			
DRYER BLOWER (KW)	0.28	0.42	1.15	2.55
DRYER HEATER (KW)	2.1	2.4	5.4	10.8
REGENERATION BLOWER (KW)	0.28	0.42	0.42	1.15
REGENERATION HEATER (KW)	1	2.1	3.1	5.8
ABSORPTION TOWER MOTOR (W)	25	25	25	25
CONVEYING BLOWER (KW)	1.5			2.55
CONVEYING BLOWER - PRIMARY SIDE (F)	30			
CONVEYING BLOWER - SECONDARY SIDE (F)	15			30
POWER SUPPLY (V)	230V OR 460V, 3P 60 HZ			
OPERATION CIRCUIT VOLTAGE	AC100V, DC24V			
SUPERFICIAL ELECTRICITY (KVA, 230V/460V)	7.6 / 7.6	9.6 / 9.5	15.8 / 15.0	31.0 / 29.8
BREAKER (A)	30	30	50	100A / 50A
AIR SUPPLY PRESSURE (PSI)	72			
AIR CONSUMPTION (CFM)	.005			.010
APPROXIMATE DIMENSIONS (INCHES)	44 x 24 x 53	47 x 24 x 87	59 x 25 x 99	75 x 36 x 106
WEIGHT	595 LBS.	640 LBS.	882 LBS.	1518 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 HOPPER, SOLID STATE RELAYS, PRIMARY & SECONDARY CONVEYING, LINE PURGE, 15-YEAR DESICCANT, WEEKLY TIMER.			
AVAILABLE OPTIONS	DEW-POINT INDICATOR, SECOND MACHINE CONVEYANCE, DIFFERENT SUPPLY VOLTAGE (EXCLUDING UL/CE) CUSTOM COLOR (EXTERIOR BOARD ONLY), ALARM OUTPUT, ALARM INDICATOR, SIGNAL WIRE EXTENSION, POWER SUPPLY WIRE EXTENSION, EJECT SELECTOR (JSV-38, TRANSPORT HOSE LENGTH).			

MVH HOPPER - STANDARD

Unit is ideal for low volume conveying to press. Minimizes resin exposure to ambient air and moisture. Available in 3, 6, 9 and 18 liter units.



AERO POWER HOPPER

Matsui's most effective hopper constantly mixes the resin and removes dust so you can create perfect parts. Available in 1, 3, 6, 9 and 18 liter units.



JET CLONE HOPPER

Economical, efficient unit with flapper door ensuring a good seal. Minimizes resins exposure to ambient air and moisture. Available in 3, 6, 9 and 18 liter units.

