

MOLD TEMPERATURE CONTROLLER

MTO
HOT OIL SERIES

- Automatic Oil Pre-heat to 100°F
- High Temperature Safety
- Leak Proof Centrifugal Pump
- Stainless Steel Reservoirs

The MTO series is designed to work with a wide range of high temperature applications, from 125°F to 575°F. Microprocessor control allows customized settings for daily start/stop, temperature deviation alarm, and password lockout to prevent temperature set point changes.

TEMPERATURE RANGE

- 125°F to 575°F

MECHANICAL FEATURES

- Leak proof centrifugal pump without rotating seals
- Automatic oil preheat to 100°F
- Low watt density stainless steel heater elements
- Insulated hot oil lines and circuitry for energy efficiency and safety
- Control cabinet cooling fan to protect control systems and pump
- Convenient oil fill location allows oil to be added without removing cabinet
- Stainless steel reservoirs
- Stainless steel heat exchanger connections
- Air cooled pump
- Premium quality solenoid valve for accurate temperatures
- Easy access cabinet with removable top/side panel
- Dual reservoir system includes operating and expansion reservoirs

SAFETY FEATURES

- Low oil level safety switch prevents operation under low oil conditions
- High temperature safety set at 660°F



MTO12 shown

ELECTRICAL FEATURES

- Dual LED digital display of “To Process” and “Set Point” temperatures
- 24 hour/7 day programmable preheat timer
- PID control algorithm

AVAILABLE OPTIONS

- Vacuum operation to provide operation of a leaky mold and/or for safety in case of mold leak
- Special paint
- SPI communications

MODEL		MTO6	MTO6-V	MTO12	MTO12-V	MTO18	MTO18-V	MTO24	MTO24-V
HEATER	kW	6	6	12	12	18	18	24	24
	HP	1.5	1.5	2	2	2	2	2	2
PROCESS PUMP	GPM	14	12	14	14	14	14	14	14
	PSI	32	34	44	38	44	38	44	38
	Vacuum PSI	n/a	-13	n/a	-13	n/a	-13	n/a	-13
	Process Oil	1	1	1	1	1	1	1	1
CONNECTION SIZE (in)	Cooling Water	1/2	1/2	1/2	1/2	1/2	1/2	1/2	½
	Expansion	4	4	4	4	6	6	6	6
OIL RESERVOIR (Gal)	Holding	3.5	3.5	7	7	13	13	13	13
	Expansion	4	4	4	4	6	6	6	6
FULL LOAD AMPERAGE	230/3/60	20	20	38	38	52	52	68	68
	460/3/60	10	10	19	19	26	26	34	34
DIMENSIONS (in)	Height	31	31	34	34	34	34	34	34
	Width	13	13	13	13	20	20	20	20
	Depth	34	34	34	34	34	34	34	34
WEIGHT (Lbs)	Shipping	275	275	290	290	300	300	305	305



Engineered Water Systems