

### ODT Series 4 & 6 Zone Optical Disk TCUs

Colortronic's Optical Disk Units are specifically designed to handle the needs of Optical Disk Injection Molding. They can be configured in either four or six zones. The top two zones are Sprue and Punch zones. The bottom two zones are moving and stationary halves. A second set of sprue and punch zones are added for DVD molding. To meet strict clean room specifications, the optional magnetically coupled pumps require no seal changes. The 1/16th DIN controller comes with separate 24 hour timer, 3 kW heater and 0.25" x 9/32" cooling valve establish and maintain precise, uniform temperatures.

#### Standard Features

- 3 kW Incoloy® heater with brass screw plug in stainless steel tank
- 0.75" Female NPT To and From Process connections terminated in ball valves
- 0.125" Male NPT Common Air Purge connection
- 1.5" Female NPT Common Cooling Water In and Cooling Water Out connections terminated in ball valves
- Omron brand 1/16th DIN Microprocessor based PID controllers
- Disconnect switch
- Automatic vent sequence
- Mitsubishi Alpha 1 micro-PLCs for control of LEDs
- Operating range of 32°F to 250°F (0°C to 120°C)
- 150 PSI (10.2 bar) pressure relief valve
- Manual Bypass
- All non-ferrous piping
- Wired for 3/60/460 VAC Voltage
- 0.25" x 9/32" orifice solenoid valve with 0.88 Cv
- Independent high temperature safety thermostat
- NEMA 12 enclosure
- 1 year warranty on parts and labor at the factory
- 3 year warranty on controller

#### Optional Features

- RS 485 SPI communications protocol
- PLC with color touch-screen (less SPI)
- UL listed sub-panel
- 208/3/60 or 400/3/50 supply voltage



**Specifications**

Model	Moveable and stationary zones		Sprue and punch zones		Number of zones
	Flow, gpm (lpm) Pressure PSI (bar)	Pump, hp (kW)	Flow, gpm (lpm) Pressure PSI (bar)	Pump, hp (kW)	
ODT4-3-0.5-0.75 <sup>①</sup>	11 (42) @ 50 (3.4)	0.75 (0.56)	5 (19) @ 50 (3.4)	0.50 (0.37)	4
ODT4-3-0.5-1.1 <sup>②</sup>	11 (42) @ 50 (3.4)	1.47 (1.10)	5 (19) @ 50 (3.4)	0.67 (0.50)	4
ODT6-3-0.5-0.75 <sup>①</sup>	11 (42) @ 50 (3.4)	0.75 (0.56)	5 (19) @ 50 (3.4)	0.50 (0.37)	6
ODT6-3-0.5-1.1 <sup>②</sup>	11 (42) @ 50 (3.4)	1.47 (1.10)	5 (19) @ 50 (3.4)	0.67 (0.50)	6

- ① MTH brand close coupled turbine pump with graphite impregnated silicon carbide seal
- ② Speck brand magnetically coupled turbine pump

**Dimensions**

Model	Height, in. (cm)	Width, in. (cm)	Length, in. (cm)	Ship. weight, lbs. (kg)
ODT4-3-0.5-0.75	54.25 (138)	18 (46)	42 (107)	475 (215)
ODT4-3-0.5-1.1	54.25 (138)	18 (46)	42 (107)	475 (215)
ODT6-3-0.5-0.75	79.5 (202)	18 (46)	42 (107)	550 (250)
ODT6-3-0.5-1.1	79.5 (202)	18 (46)	42 (107)	550 (250)