

## NON-REFRIGERATED RE-CIRCULATING HEAT EXCHANGERS / ISOLATORS

### OTI Series – Rack Mount Fluid to Fluid

For Laser, Semiconductor, Medical, X-Ray  
& Laboratory Applications

### Models OTI-R1W to R15W



Model OTI-R1W to R15W shown

#### Features:

- 1 to 15 KW of cooling capacity
- 1 kW immersion heater
- OPTI TEMP modulated temperature control
- Micro-processor based PID auto tuning controller with digital display
- Programmable high temp or high/low temp alarm
- Temp output in °C or °F
- Dual frequency compatible
- Operating temperature ranges up to 90°C
- Non-ferrous wetted construction standard
- Rugged powder coated steel cabinetry
- Stainless steel MNPT process connections
- Reservoir level indicator
- NEMA 1 electrical enclosure standard
- S.S. brazed plate heat exchanger
- Power cord provided
- One year limited warranty

#### Contact Information:

**OPTI TEMP** Inc.  
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Traverse City, MI 49686  
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#### Options:

##### Controls / Interlocks

- PLC controller
- RS232 and RS485 communication
- Ethernet ready controller
- Remote start/stop
- Audible alarm with silence
- Visual alarm beacon
- Remote control
- Fluid monitoring and control devices

##### Electrical

- 24V control systems
- CE compliance
- NRTL certifications

##### Mechanical

- Specialty wetted construction materials
- Multiple pump upgrades
- Anti-drain back prevention
- Particle filters
- UV filters
- Immersion heaters
- Remote temp sensing
- Fluid circuit insulation
- Manifolds
- Drain kits
- Extended warranty

##### Other

- Fluid conductivity control systems
- Automatic fluid pH control systems
- OPTISHIELD® corrosion inhibitors

Please contact our sales & applications  
department for a more complete list of available  
options.

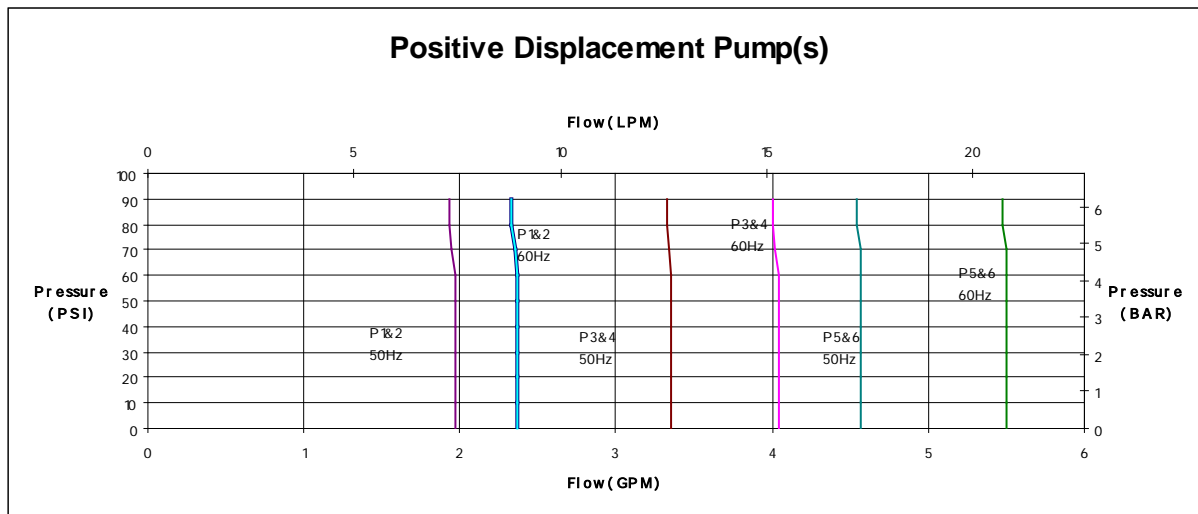
## NON-REFRIGERATED RE-CIRCULATING HEAT EXCHANGERS / ISOLATORS

### Specifications<sup>(1)</sup>:

Description	OTI	R1W	R5W	R10W	R15W
Standard Flow Rating <sup>(2)</sup>	GPM at	4	4	4	5.5
	PSI	65	65	65	65
Max Available Flow Range	GPM	5.5	5.5	5.5	5.5
Pump (Standard) <sup>(2)</sup>	HP	0.33	0.33	0.33	0.5
	Code	P3	P3	P3	P5
Connection	MPT	0.5	0.5	0.5	0.5
Capacity <sup>(3)</sup>	KW	1	5	10	15
	BTU/hr	3412	17060	34120	51180
	tons	0.28	1.42	2.84	4.27
Immersion Heater	KW	1	1	1	1
Full Load Amps <sup>(4)</sup>	115/1/60	14.7	14.7	14.7	18.5
	100/1/50	11.9	11.9	11.9	15.1
	230/1/60	7.3	7.3	7.3	9.2
	200/1/50	6.0	6.0	6.0	7.6
	230/3/60	5.5	5.5	5.5	4.5
	460/3/60				
Dimensions <sup>(5)</sup>	Height	15.75"(9U)	15.75"(9U)	15.75"(9U)	15.75"(9U)
	Width	19"	19"	19"	19"
	Depth	25"	25"	25"	25"
Weight	lbs.	70	70	85	100
Internal Reservoir	Gallon	0.8	0.8	0.8	0.8
Temp Stability <sup>(6)</sup>	°F	± 0.2	± 0.2	± 0.2	± 0.2

(1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Pump pressures at pump discharge. (3) Capacity based on 10°C approach temperature. (4) Full load amps for models with standard pumps. Consult applications engineering for models with optional pumps. Full load amps must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz applications engineering. (5) Dimensions are approximate and do not include filters. (6) Cooling stability only. Optional heating stability ± 2.0°F.

### Pump Curves:



Standard pumps shown, other optional pumps available