

NON-REFRIGERATED RE-CIRCULATING HEAT EXCHANGERS / ISOLATORS

OTI Series – Portable Fluid to Fluid

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

Models OTI-1W to 100W



Model OTI-1W to 15W shown

Features:

- 1 to 100 KW of cooling capacity
- 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
- Swivel casters standard
- Removable cover and side access panels
- NEMA 1 electrical enclosure standard
- S.S. brazed plate evaporator
- Power cord provided
- One year limited warranty

Contact Information:

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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

- NEMA 4 (outdoor) controls
- 24V control systems
- Phase monitor
- Power cord extension
- 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.

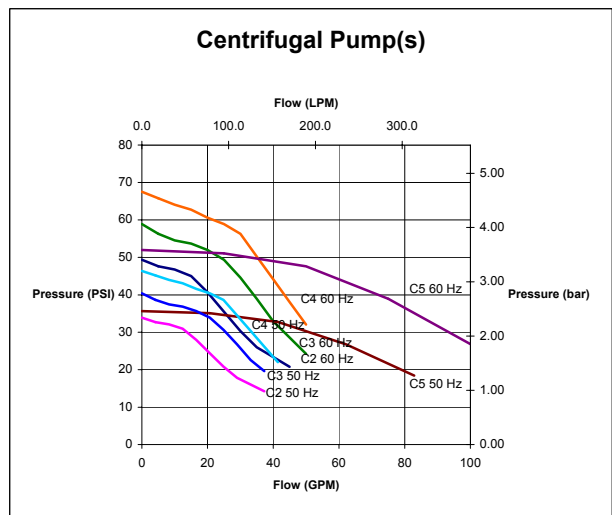
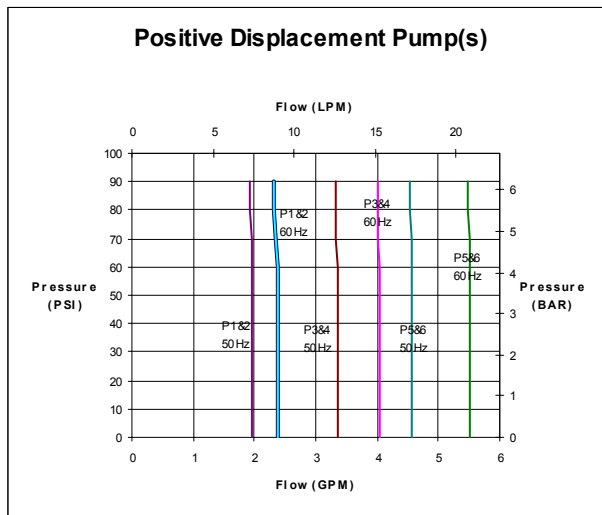
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Specifications⁽¹⁾:

Description	OTI	1W	5W	10W	15W	20W	30W	40W	60W	100W
Standard Flow Rating ⁽²⁾	GPM at	4	4	4	5.5	10	12	15	25	40
	PSI	65	65	65	65	45	45	54	59	49
Max Available Flow Range	GPM	5.5	5.5	5.5	5.5	26	26	38	48	96
Pump (Standard) ⁽²⁾	HP	0.33	0.33	0.33	0.5	1	1	1.5	2	3
	Code	P3	P3	P3	P5	C2	C2	C3	C4	C5
Connection	MPT	0.5	0.5	0.5	0.5	1	1	1.25	1.25	1.5
Capacity ⁽³⁾	KW	1	5	10	15	20	30	40	60	100
	BTU/hr	3412	17060	34120	51180	68240	102360	136480	204720	341200
	tons	0.28	1.42	2.84	4.27	5.69	8.53	11.37	17.06	28.43
Immersion Heater	KW	1	1	1	1	1	1	1	1	1
Full Load Amps ⁽⁴⁾	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	12.3	12.3	14.3	16.3	21.3
	200/1/50	6.0	6.0	6.0	7.6	8.3	8.3	9.5	10.7	13.7
	230/3/60	5.5	5.5	5.5	4.5	6.1	6.1	7.7	9.3	12.1
Dimensions ⁽⁵⁾	Height	22.5	22.5	22.5	22.5	27.5	27.5	45	45	45
	Width	10	10	10	10	28	28	34.5	34.5	34.5
Weight	lbs.	90	90	105	120	145	165	265	315	415
	Internal Reservoir	Gallon	2.5	2.5	2.5	2.5	2.5	2.5	9	9
Temp Stability	°F	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2	± 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 differential temperature. (4) Full load amps for models with standard pumps. Consult applications engineering for models with optional pumps. (4) 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. 2.5" height casters are used on models OTI-1W to 30W. 5" height casters used on models OTI-40W to 100W.

Pump Curves:



Standard pumps shown, other optional pumps available