

HPC Direct Liquid Cooling Products

Take the heat off your operating system



Customer Value Proposition:

With the constant improvement of high-performance computers, temperature control is necessary to keep from reaching critical levels that cause unsalvageable damage to sensitive parts. Parker offers a wide variety of high-quality liquid cooling products in various colors, sizes, and working pressures for serving the HPC (High Performance Computing) market. When quality, system integration, and innovation are needed for the most critical applications, Parker is a name you can trust.



Contact Information:

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Hose Products Division
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Product Features:

- Ease to assemble
- Reliable, leak-free connection
- Extreme flexibility
- User friendly
- Time and cost savings
- Coolant compatible
- Multi-colored offering
- Size range from 3/16" up thru 2"
- UL flame resistance



ENGINEERING YOUR SUCCESS.

Why Liquid Cooling?

Liquid cooling has emerged as a valuable solution for thermal management of High Performance Computing (HPC) equipment. Fluids have an advantage over traditional air-cooled methods because liquids absorb heat up to 3500 times faster than air. This superior heat transfer is employed by routing fluid through heat sinks called "cold plate heat exchangers" which are placed in direct contact with electronic components. Direct liquid cooling outperforms noisy fans and computer room air conditioning (CRAC) units with quiet, efficient cooling.

With the potential for damage to electronic components from a coolant or water leak, it is imperative that you have a trusted product source. Parker's Hose Products Division is your reliable supplier for maintaining these systems and assisting in extending the life of their critical components.

Applications

The products in this brochure are designed for use with HPC cooling fluids composed of deionized water with biocides and rust inhibitors, water/propylene glycol mixtures (PG25), and utilized for transferring this media between the fluid reservoir and computer server blades in the liquid cooling system. Cooling lines inside the server blades are specific to manufacturer's requirements. For additional information please contact the Parker Hose Product Division.



801 | Push-Lok Plus®

Inner Tube	Synthetic rubber
Reinforcement	One fiber braid
Cover	Synthetic rubber, MSHA accepted, UL 94 HB Flame Rating
Temperature	Air: +158°F (+70°C) Water: +158°F (+70°C) Oil: -40°F to +257°F (-40°C+125°C)
Fittings	82 Series, HY Series

Available color covers:



Part Number	Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	in	mm	in	mm	psi	MPa	in	mm	lbs/ft	kg/m	in of Hg	kPa	HY Series	82 Series
801-4	1/4	6,3	0.50	12,7	350	2,4	2-1/2	65	0.09	0,13	28	95	•	•
801-6	3/8	10	0.63	15,9	350	2,4	3	75	0.11	0,16	28	95	•	•
801-8	1/2	12,5	0.78	19,8	300	2,1	5	125	0.18	0,27	28	95	•	•
801-10	5/8	16	0.91	23,0	300	2,1	6	150	0.19	0,28	15	51	•	•
801-12	3/4	19	1.03	26,2	300	2,1	7	180	0.24	0,36	15	51	•	•
801-16	1	25	1.28	32,6	200	1,4	10	250	0.37	0,55	15	51	•	•



804 | Dry Air / Hot Water

Inner Tube	EPDM rubber
Reinforcement	One fiber braid
Cover	EPDM rubber
Temperature	Air: +158°F (+70°C) Phosphate ester: -40°F to +176°F (-40°C+80°C) Water: +200°F (+93°C)
Fittings	82 Series

Part Number	Hose ID		Hose O.D.		Working Pressure		Min. Bend Radius		Weight		Vacuum Rating		Field Attachable
	in	mm	in	mm	psi	MPa	in	mm	lbs/ft	kg/m	in of Hg	kPa	82 Series
804-4	1/4	6,3	0.50	12,7	150	1,0	2-1/2	65	0.09	0,13	15	51	•
804-6	3/8	10	0.63	15,9	150	1,0	3	75	0.11	0,16	15	51	•
804-8	1/2	12,5	0.78	19,8	150	1,0	5	130	0.18	0,27	15	51	•
804-10	5/8	16	0.91	23,0	150	1,0	6	150	0.19	0,28	15	51	•

WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.



Series 627

Inner Tube	Peroxide cured EPDM tube
Temperature	-40°F to +212°F (-40°C to +100°C)
Reinforcement	Multiple textile plies
Cover	EPDM; smooth finish

Part Number	Nom ID		Reinf Layers	Hose O.D.		Approx Weight		Min. Bend Radius		Max Working Pressure		Perm Cplg Rec	Package Type
	in	mm		in	mm	lbs/ft	kg/m	in	mm	psi	bar		
627-6-RL	3/8	9.5	2	0.7	16.7	0.13	0.19	1.3	33	150	10	•	Reel
627-8-RL	1/2	12.7	4	0.9	22.7	0.24	0.36	2.0	51	150	10	•	Reel
627-12-RL	3/4	19.1	4	1.2	29.4	0.34	0.51	3.0	76	150	10	•	Reel
627-16-RL	1	25.4	4	1.4	36.3	0.46	0.68	4.5	114	150	10	•	Reel
627-20-RL	1 1/4	31.8	4	1.8	45.7	0.67	1.01	6.5	165	150	10	•	Reel
627-24-RL	1 1/2	38.1	4	2	50	0.84	1.24	9	228	150	10	•	Reel



Series 7395 | E-Z Form™ GS

Inner Tube	Black EPDM
Temperature	-50°F to +257°F (-45°C to +125°C)
Reinforcement	Multiple textile braids or plies with wire helix
Cover	Black EPDM; Greek corrugated finish
Vacuum	29" Hg (737 mm Hg)

Part Number	Nom ID		Reinf Layers	Hose O.D.		Approx Weight		Min. Bend Radius		Max Working Pressure		Perm Cplg Rec	Nom Std Pack Qty	Package Type
	in	mm		in	mm	lbs/ft	kg/m	in	mm	psi	bar			
7395-0375300	3/8	9.5	2	0.8	20.8	0.24	0.36	0.9	24.1	150	11	HY	300	Reel
7395-0500300	1/2	12.7	2	0.9	23.8	0.27	0.40	0.9	24.1	75	5	HY	300	Reel
7395-0750300	3/4	19.1	2	1.2	30.0	0.35	0.52	1.4	36.3	75	5	HY	300	Reel
7395-1000300	1	25.4	2	1.4	36.0	0.41	0.61	1.4	36.3	75	5	HY	300	Reel
7395-1250130	1-1/4	31.8	2	1.7	43.0	0.50	0.75	2.2	56.7	75	5	HY	130	Coil
7395-1500130	1-1/2	38.1	2	1.9	49.0	0.58	0.86	2.9	74.1	75	5	43	130	Coil
7395-2000130	2	50.8	2	2.5	63.0	0.96	1.43	4.6	117.4	75	5	43	130	Coil

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Note: for additional sizing and packaging please visit Parker.com/safehose



WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves, and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS, and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon, and thermoplastic.

Hose, Tubing, and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe, and Asia-Pacific.

For information, call toll-free:

**1-800-C-PARKER
(1-800-272-7537)**

North American Divisions

Fluid System Connectors Division

Otsego, MI
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Parflex Division

Ravenna, OH
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fax 330 296 8433

Quick Coupling Division

Minneapolis, MN
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fax 763 544 3418

Tube Fittings Division

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fax 614 279 7685

Distribution Service Centers

Buena Park, CA

phone 714 522 8840
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Portland, OR

phone 503 283 1020
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