

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.



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

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