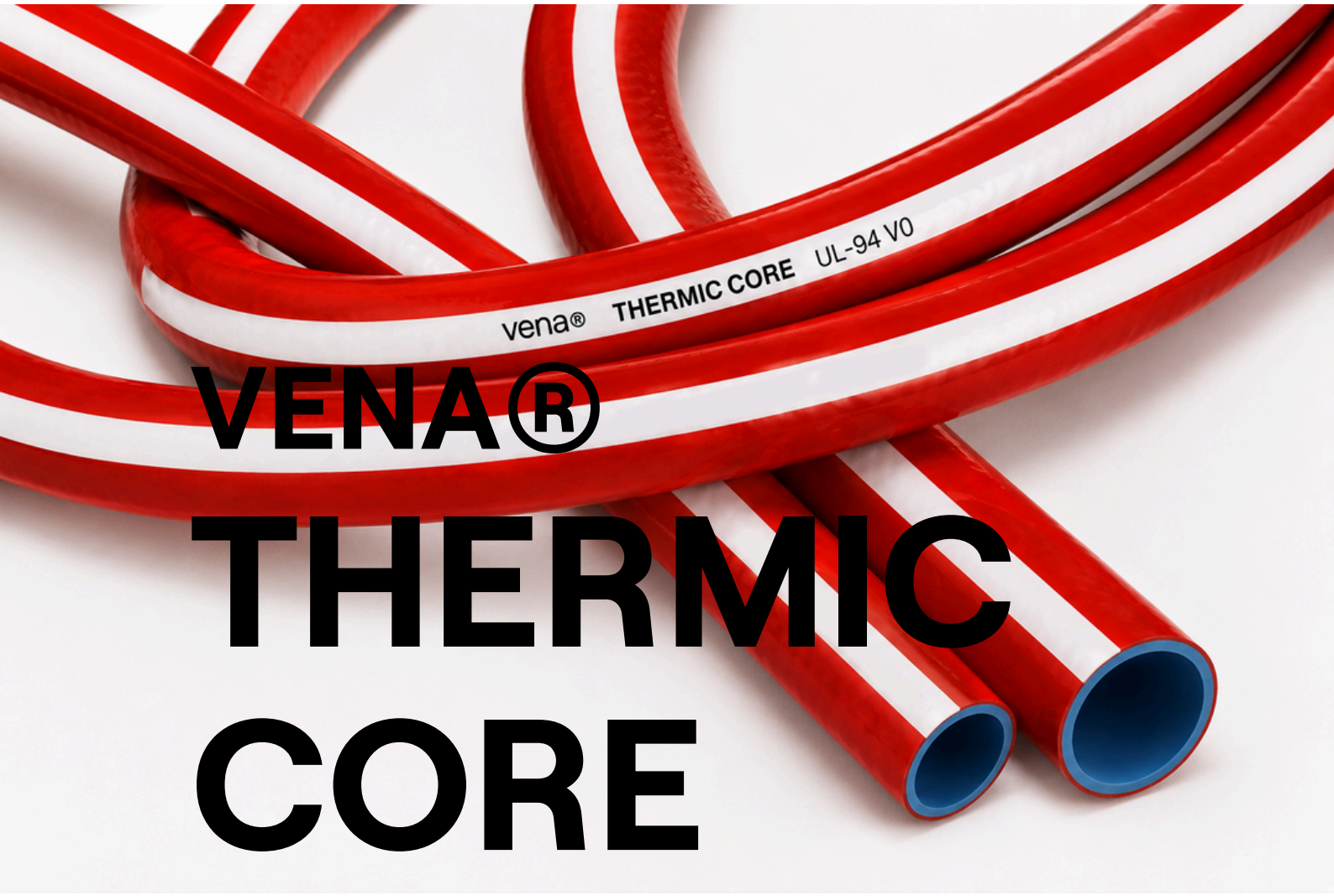


VENA® THERMIC CORE

Vena® Thermic Core is engineered for secondary cooling loops, providing a reliable connection between Coolant Distribution Units (CDUs) and server racks in high-density IT environments. It is designed to support efficient coolant distribution where precise thermal management and system reliability are essential.

The hose features a robust construction that ensures stable performance under continuous operation, maintaining flow consistency across critical cooling components. Its design supports efficient routing while preserving mechanical integrity in demanding installations.

Vena® Thermic Core is built to endure constant thermal cycling, ensuring long-term durability and uptime for high-performance computing (HPC) applications. It also delivers excellent chemical compatibility with dielectric fluids and inhibited glycols, preventing polymer degradation and protecting sensitive hardware from contamination.

PROPERTIES

- Red color hose with smooth inner and outer surface.
- Not affected by anti-freeze or antirust liquids.
- Excellent flexibility to absorb high vibrations, compensate any level difference and improve the assembly process.
- Highly resistant to hardening with very good compression characteristics.
- Excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Operational temperature ranges from -50°C (-58 F) to +130°C (266F), it may reach up to 150°C (302 F) during short periods of time.
- The vacuum resistance for this hose is 0.80 bar (11.60 psi).
- Manufactured with standard inner diameters ranging between 6mm and 51mm[JS1] , in straight lengths from 1 to 4 m (13.12 ft).
- It can be customized to other ID's, consult with a Venair representative.

CONSTRUCTION MATERIALS

It is manufactured with a special flame retardant hybrid elastomer based on an EPDM composite compound with 3 temperature resistant textile reinforcements and encapsulated PPS spring wire.

REGULATIONS

Safety is a non-negotiable requirement for in-rack components. Vena® Thermic Core is UL-94 V0 certified, ensuring the hose meets strict flame-retardant standards. This certification aligns with international fire safety regulations for electronics and data processing equipment.

TECHNICAL SPECIFICATIONS

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE ISO 1402		BENDING RADIUS	
mm	inch	+1,5/-0, 8 mm	+0,06/-0 ,03 inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
6	¼	6.0	0.24	23.53	341.27	70.59	1023.80	41.3	1.62
10	⅜	5.5	0.24	20.50	297.39	61.51	892.16	57.0	2.24
13	½	5.5	0.24	18.23	264.48	54.70	793.44	68.8	2.71
19	¾	5.5	0.24	15.05	218.23	45.14	654.69	90.8	3.57
25	1	5.5	0.24	11.86	171.98	35.57	515.95	112.8	4.44
32	1 1/4	5.5	0.24	10.68	154.86	32.03	464.59	179.4	7.06
38	1 1/2	5.5	0.24	9.67	140.19	29.00	420.58	236.5	9.31
51	2	5.5	0.24	7.47	108.40	22.42	325.20	360.3	14.18

CONTACT

IMPORTANT: The Company reserves the right to change, amend, modify, suspend, continue or terminate all or any part of this Document at any time without notice. It is the user's responsibility to ensure the suitability and safety of the VENAIR products for all intended uses. All the tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of the hoses in any particular application.

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venair
Fluid solutions. Solid performance.