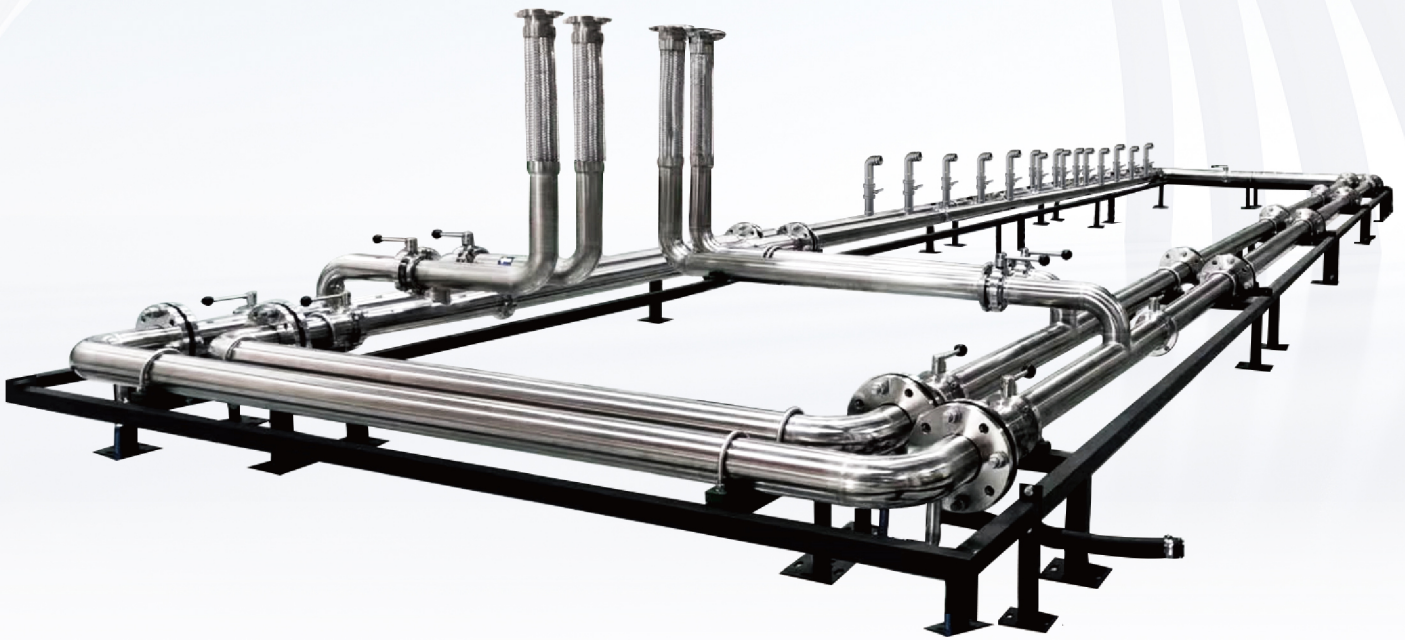


Fluid Network Piping(FNP)

For High Performance and High Density Data Centers

With strong demands of high performance and high density Data centers for artificial intelligence (AI), high-performance computing (HPC), and enterprise computing applications , liquid cooling is widely applied to meet the most demanding direct liquid cooling requirements. ACT's FNP delivers high performance, high reliability and customization for data centers.



- ☑ Build to customization
- ☑ High performance and High reliability
- ☑ Fast Deployment & Installation, User-friendly maintenance
- ☑ Global high-volume FNP manufacturing

► Fluid Network Piping Parameters(304/304L/ 316/316L stainless steel)

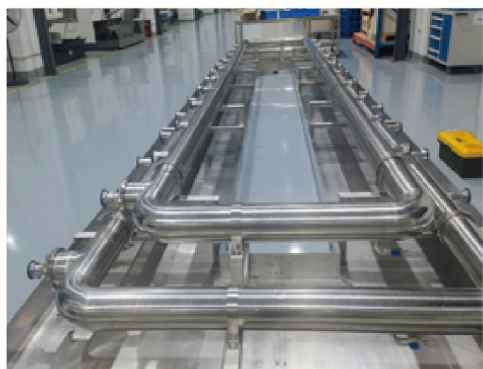
Interface spec	Max. flow rate (LPM)	Clamp size	Clamp Outer Diameter	Pipe Outer Diameter	Pipe Inner Diameter
DN20	35	3/4"	Φ50.5	Φ19.05	Φ16.05
DN25	70	1"	Φ50.5	Φ25.4	Φ22.4
DN32	110	1.25"	Φ50.5	Φ31.8	Φ28.8
DN40	180	1.5"	Φ50.5	Φ38.1	Φ35.1
DN40A	300	2"	Φ64	Φ50.8	Φ47.8
DN50	500	2.5"	Φ77.5	Φ63.5	Φ59.5
DN65	700	3"	Φ91	Φ76.2	Φ72.2
DN80	1000	3.5"	Φ106	Φ88.9	Φ84.9
DN100	1350	4"	Φ119	Φ101.6	Φ97.6
DN100A	1700	4.5"	Φ130	Φ114.3	Φ110.3
DN125	2500	5.5"	Φ155	Φ141.3	Φ137.3

Highlight:

- Pipe sizing design principle:flow velocity< 3m/s
- Series specifications are tightly linked to clamp size
- Multi-directional water supply characteristic of FNP delivers stable water pressure distribution till end of piping
- Gas distribution system delivers the gas according to load demand

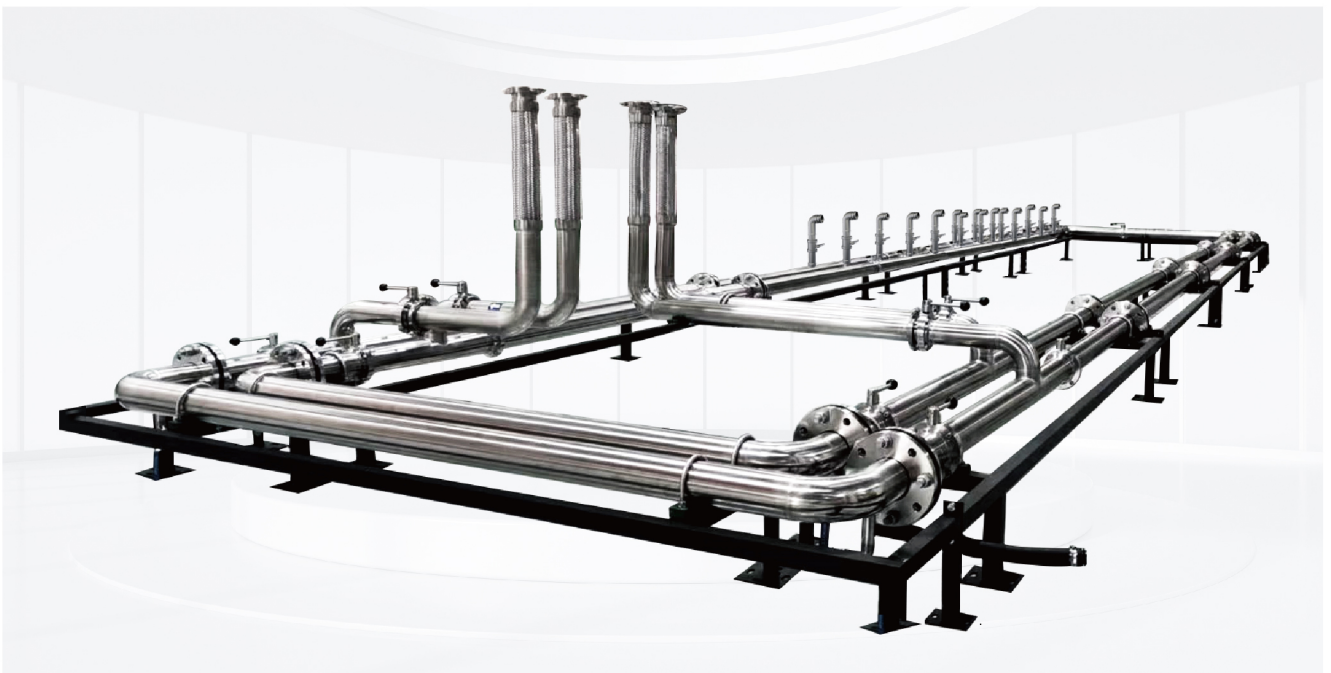
► Case 1: 1MW Data Center

- ◆ 22 AI server racks with 1MW liquid cooling capacity
- ◆ ACT delivery :
 - 4*RC50-350kw CDU, 3+1 configuration
 - 22*Manifolds
 - 1*Fluid network piping(Trunk TBV25+Branch UQD04)



► Case 2: 4MW Data Center

- ◆ 12*POD with 4MW liquid cooling capacity, each POD consists of 20 server racks
- ◆ ACT delivery :
 - 24*RC50-350kw CDU, 1+1 configuration
 - 240*Manifolds
 - 12*Fluid network piping(Trunk TBV25+Branch UQD04)



Welcome to contact us!

- Coolant Distribution Unit(CDU)
- Rear Door Heat Exchanger (RDHx)
- Rack Manifold (MANIFOLD)
- Quick Disconnect (QD)
- Cold Plate
- Thermal Test Vehicle(TTV)
- Immersion Tank
- Coolant
- Leakage Detection Product
- Liquid Cooling Solution

Advanced Cooling Technology SDN.BHD

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