

UNLOCKING THE POWER IN EVERY COMPUTER

5U 50kW mCDU [up to 20GPM]

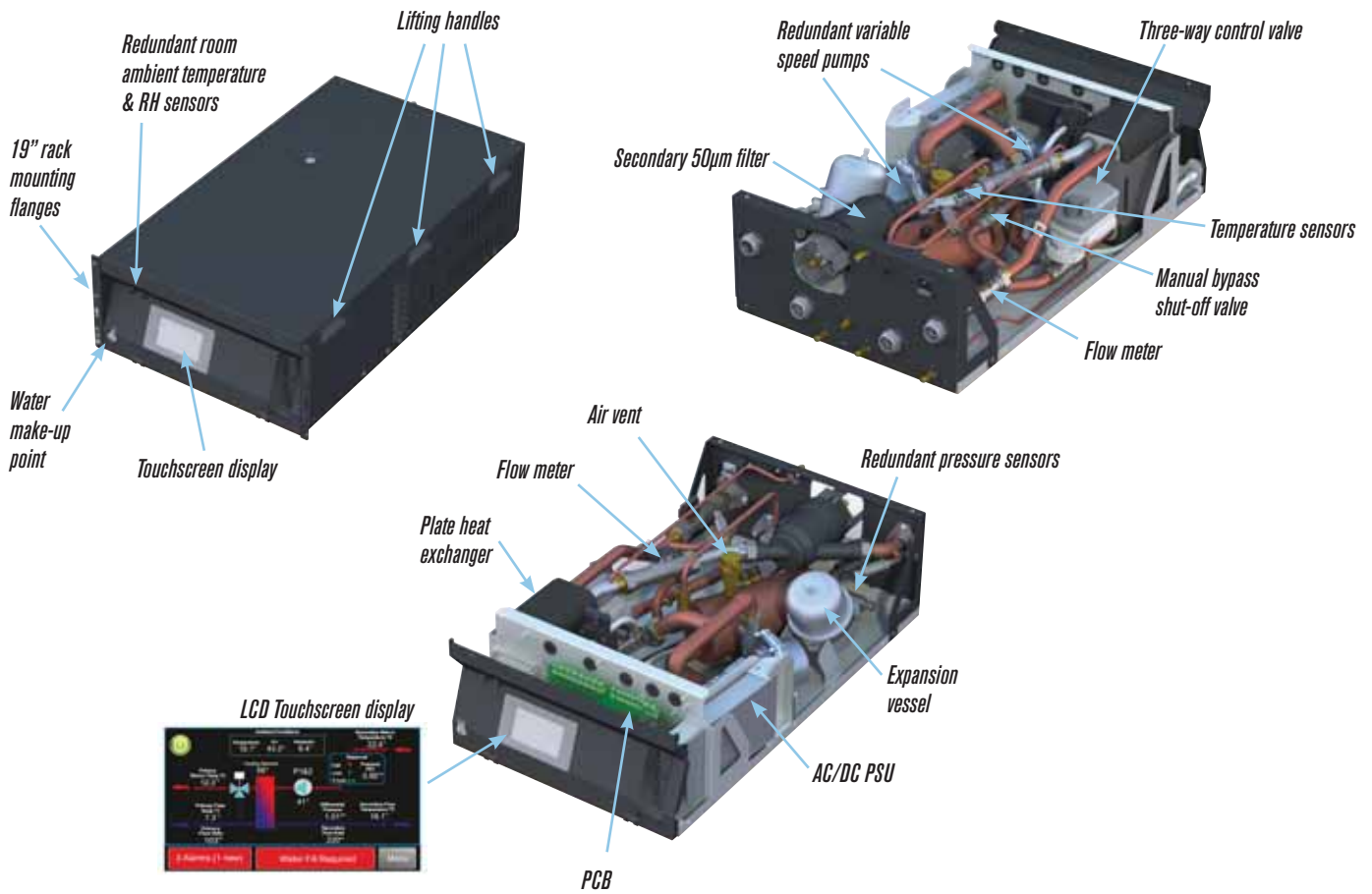
19-inch 50 kW rack-mounted coolant distribution unit for supercomputers

- Simple to Deploy and Operate
- Full Scalability
- Built-In Redundancy

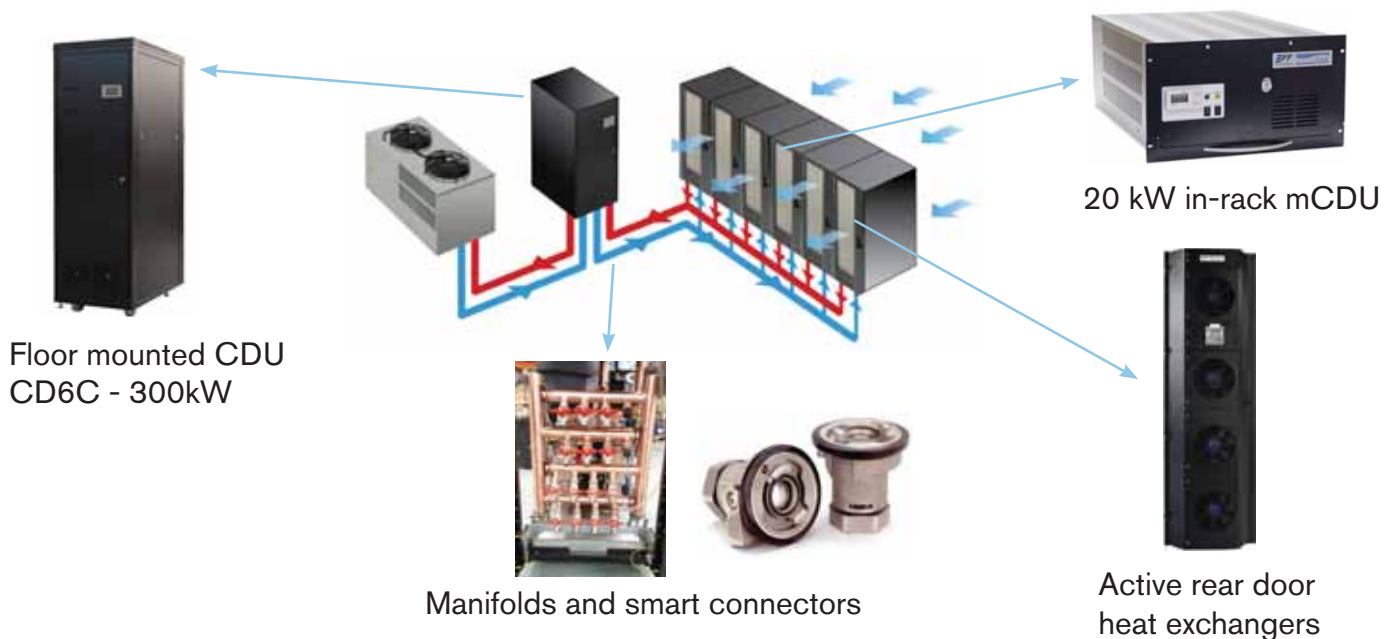


KEY SYSTEM FEATURES

Top performance and reliability at your fingertips.



COMPLEMENTARY PRODUCTS AND ACCESSORIES



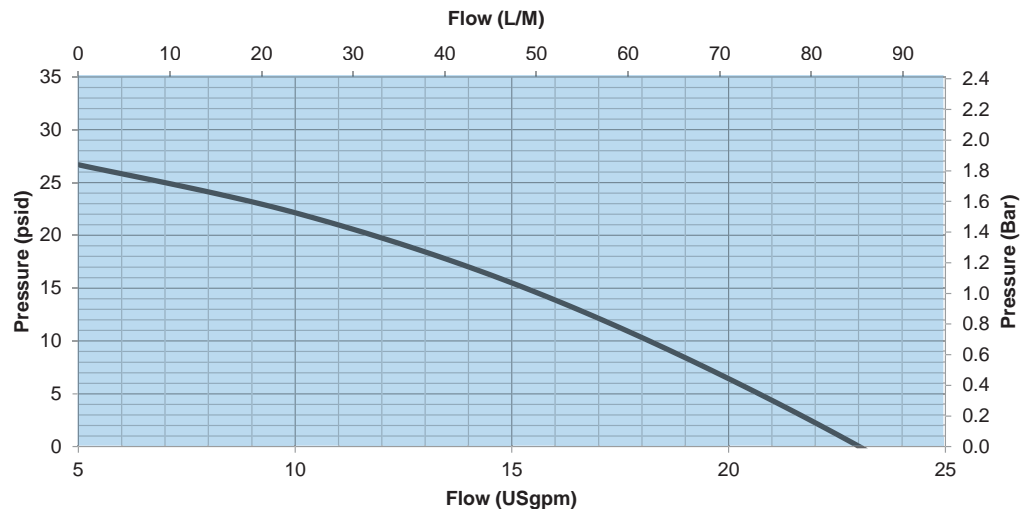
TECHNICAL DATA

	PHYSICAL DATA	
	Shipping data	Installed on 19" rack
Unit dimensions (width x height x depth)	600mm x 435mm x 960mm 23.6" x 17.1" x 37.8"	23.6" x 17.1" x 37.8" 17.5" x 8.6" x 31.0"
Weight	62 kg (136.7 lb)	Dry 36.7 kg (80.7 lb); Wet 41.5 kg (91.3 lb)
Pipe connections	Secondary circuit: 1" BSP male thread connectors Primary circuit: 1" BSP male thread connectors	

ELECTRICAL DATA	
Power Supply	110 V – 240 V 50 Hz / 60 Hz; single phase + ground (earth)
Full load current	5.2A on 110V ; 2.4A on 240V
Typical nominal power and installed load	600 W (maximum) 1.45kVA (maximum)
Electrical connection	IEC connector C13 or C14 ; 10A MCB or fuse must be provided on site
Communication	Ethernet RJ45 for RS485 communication (BMS); TCP/IP communication for SNMP, FTP, Telnet, Modbus

PERFORMANCE	
Pumps setup	Dual 48VDC pumps; tandem or standby operation
Nominal Flow rate	54L/M (14.3 USgpm)
Cooling capacity	50kW with 10°C primary ; 45°C secondary
Minimum approach temperature (primary flow of 30L/M)	5°C at 20% full load 25°C at 100% full load
Primary temperature	ASHRAE W1 to ASHRAE W4
Secondary temperature	Up to 55°C

PRESSURE AVAILABLE FROM CDU UNIT





WHY LIQUID COOLING?

- ◆ Delivers high performance and resilience
- ◆ Power usage effectiveness as low as 1.033
- ◆ Efficiency as high as 14.11 GFlops/watt
- ◆ The cooling solution of choice for most IT manufacturers

WHY SERVERCOOL?

Since the 1990s, ServerCool has worked with some of the most prestigious and demanding organizations to provide innovative cooling solutions. Our products are proven and our coolant distribution unit has an impeccable pedigree. Our United States and European manufacturing facilities are at the pinnacle of operational excellence. Lean, agile techniques ensure short lead times, high quality and sustainable performance.

Our ability to deliver is unequalled. We have a multicultural, global engineering team that operates in research and development facilities in the United States, China and Europe. Plus, we feature the widest global service and partners network.

ServerCool products are found on the Tsubame 3.0 supercomputer – named the greenest supercomputer on June 2017's Green 500 list.

For more information, visit our website www.servercool.com.

Contributors to

