

iCDM

INDUSTRIAL COOLING DISTRIBUTION MODULE

The KPS iCDM, is a liquid loop in a single stand alone system. The system is a single, ventilated box, containing a pump, heat exchanger, reservoir and controls. Simply attach the cold plate or other heat removal mechanism and your liquid loop is ready for deployment.

iCDM is available in AC & DC systems



Features & Benefits

- Temperature control by adjusting the flow manually using system plc control
- Environmentally friendly
- Localized cooling once attached to a cold plate
- Fast temperature response for cooling

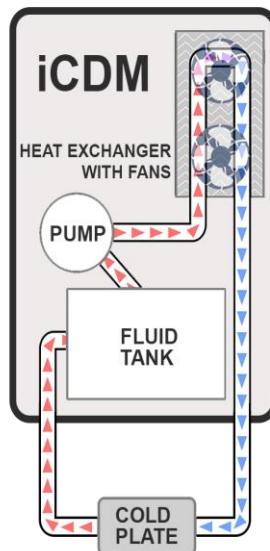
Applications

- Laser cooling
- Laboratory test equipment
- Medical diagnostic equipment
- Analytical equipment
- Defense & aerospace
- Semiconductor equipment
- Computer server liquid cooling

Connect your liquid loop with iCDM

Wetted Materials

- Aluminum
- EPDM
- Stainless Steel
- Polycarbonate
- Polypropylene
- Polyurethane
- Nylon 11



Tubed, Finned & Custom Cold Plates

» COOLING CAPACITY

iCDM-10 10kW

iCDM-20 20kW

» PUMP PRESSURE HEAD MAX

70 m (100 psi / 230 ft)

» PUMP FLOW RATE

22 l/min (5.8 GPM)

» WATER TANK CAPACITY

2 L (1/2 gallon)

» FLUID LOOP ATTACH

1/2 inch NPT, stainless Steel

» INPUT POWER

115V AC

» POWER INPUT CURRENT

20 A

» FREQUENCY RANGE

60 Hz

» OPERATING TEMPERATURE RANGE

20 TO 65° C (65 TO 149° F)

» OPERATING HUMIDITY RANGE

20 to 90% RH

» TEMPERATURE STABILITY

+ / - 1° C

» STORAGE TEMPERATURE

-40 to +85° C (-40 to 185° F)

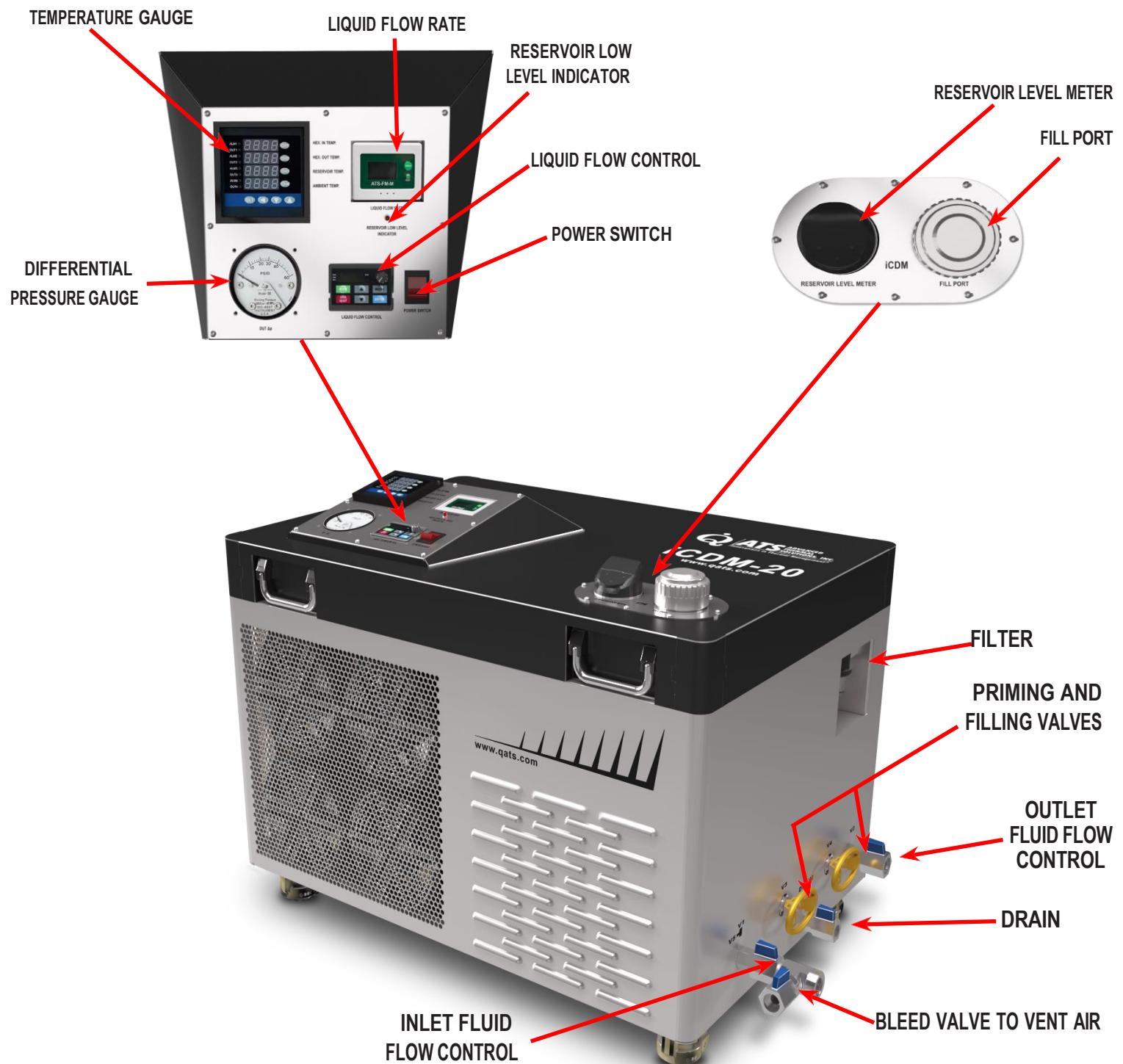
» STORAGE HUMIDITY

10 to 95%

» DIMENSIONS iCDM-10 & iCDM-20 (LxWxH)

550x800x574.5 mm (21.6x31.5x22.6 in)

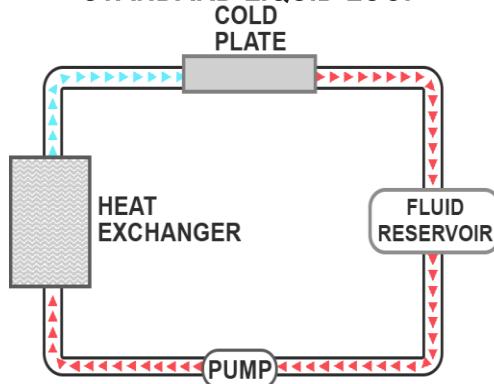
Main Features of the iCDM details below applies to AC & DC systems



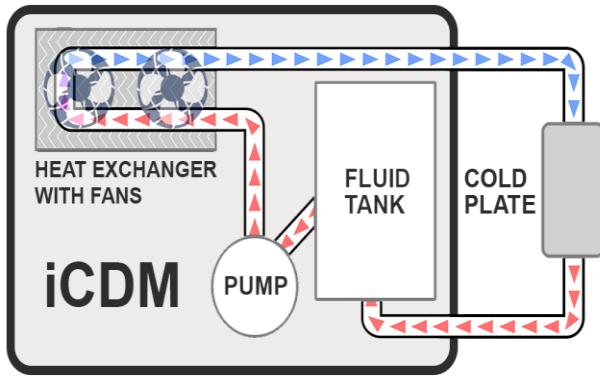
Contact us for your custom design requirements

iCDM Application Examples

STANDARD LIQUID LOOP



LIQUID LOOP WITH ICDM



MEDICAL



BIOTECH



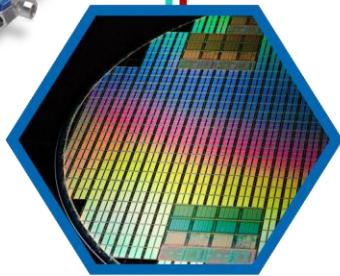
FOOD & BEVERAGE PRODUCTION



INDUSTRIAL LASER



SEMICONDUCTOR MANUFACTURING



Contact us with your custom design requirements