



# iCDM

## INDUSTRIAL COOLING DISTRIBUTION MODULE

The ATS iCDM is a fully integrated, standalone liquid cooling system designed for seamless deployment. Housed in a single, ventilated enclosure, it features a built-in pump, heat exchanger, reservoir, and control system, providing a complete liquid loop solution. Simply connect your cold plate or preferred heat removal mechanism, and the system is ready to deliver efficient, high-performance thermal management with minimal setup.

Available with cooling capacities of 10kW (iCDM-10) or 20kW (iCDM-20).

### Features & Benefits

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

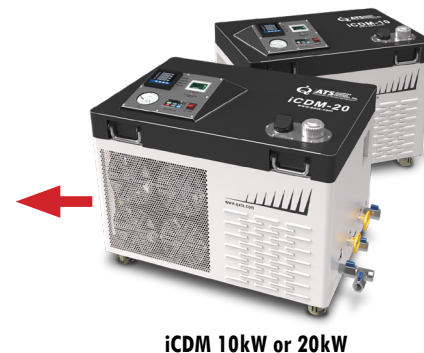
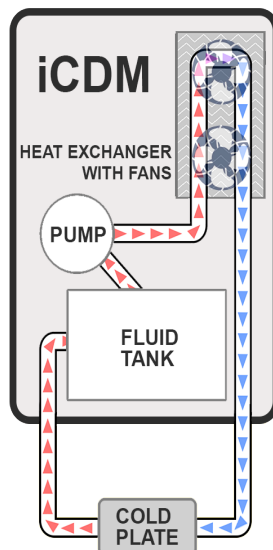
### Applications

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

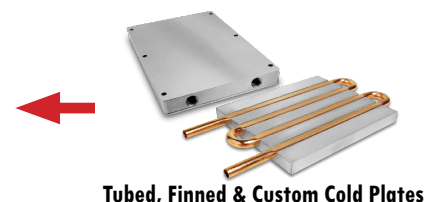
### Connect your liquid loop with iCDM

#### Wetted Materials

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



iCDM 10kW or 20kW



Tubed, Finned & Custom Cold Plates

#### » COOLING CAPACITY

iCDM-10: 10kW

iCDM-20: 20kW

#### » PUMP PRESSURE HEAD MAX

70 m (100 psi)

#### » PUMP FLOW RATE

21 LPM (5.5 GPM)

#### » WATER TANK CAPACITY

7.5 L (1.98 gallons)

#### » INLET & OUTLET PORTS

1/2 inch NPT, stainless steel

#### » INPUT POWER

115 VAC

#### » POWER INPUT CURRENT

20 A

#### » FREQUENCY RANGE

60 Hz

#### » OPERATING TEMPERATURE RANGE

25 to 75° C (77 to 167° F)

#### » OPERATING HUMIDITY RANGE

20 to 90% RH

#### » STORAGE TEMPERATURE

-40 to 85° C (-40 to 185° F)

#### » STORAGE HUMIDITY

10 to 95%

#### » DIMENSIONS (LxWxH)

800 x 550 x 574.5 mm  
(31.5 x 21.7 x 22.6 in)

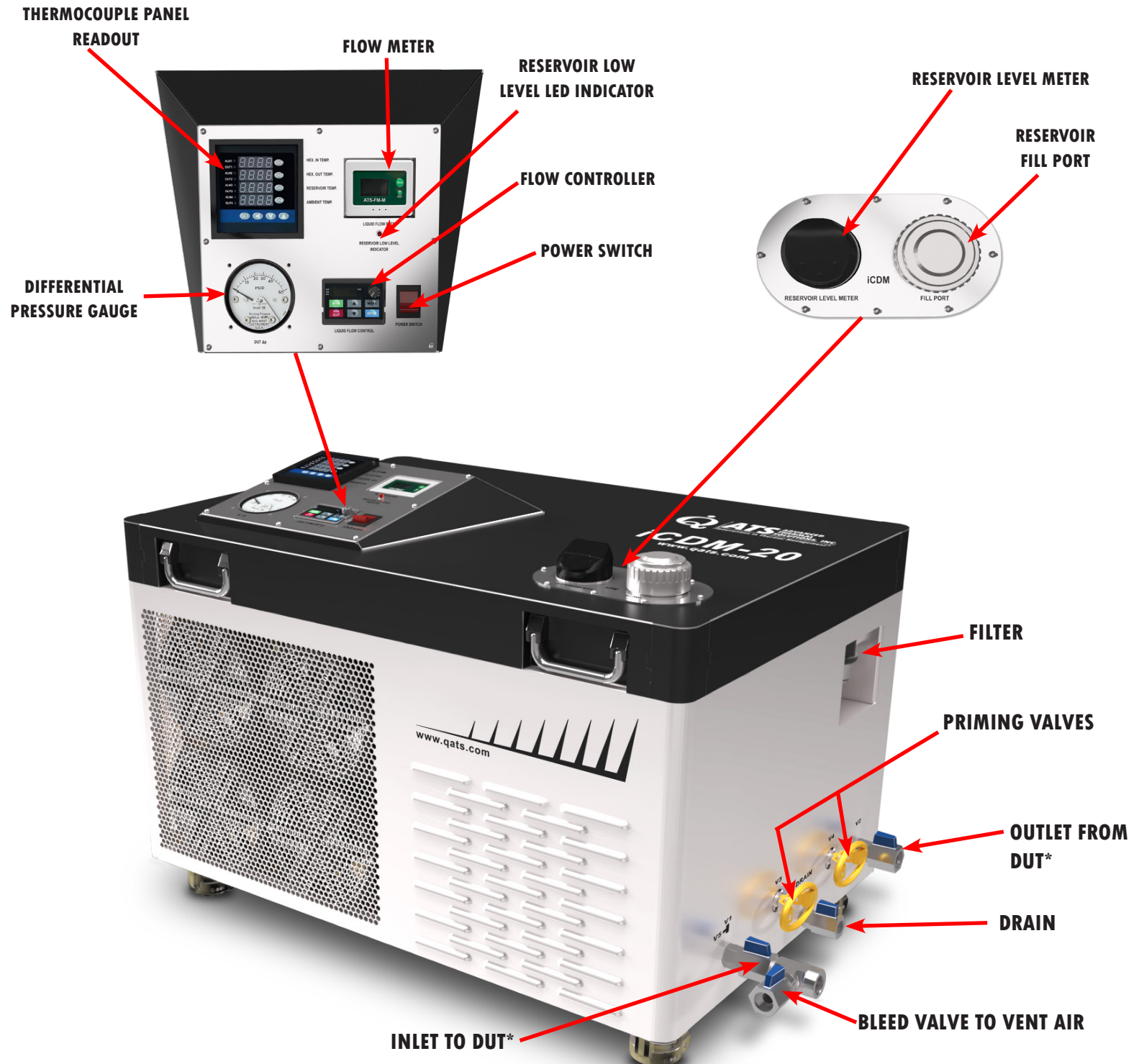
#### » WEIGHT

iCDM-10: 54.2 kg (119.5 lbs)

iCDM-20: 68.1 kg (150.1 lbs)



## Main Features of the iCDM-10kW and iCDM-20kW (details below apply to both systems)

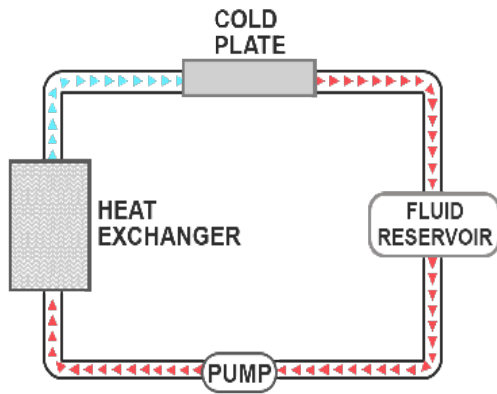


(\*DUT = DEVICE UNDER TEST)

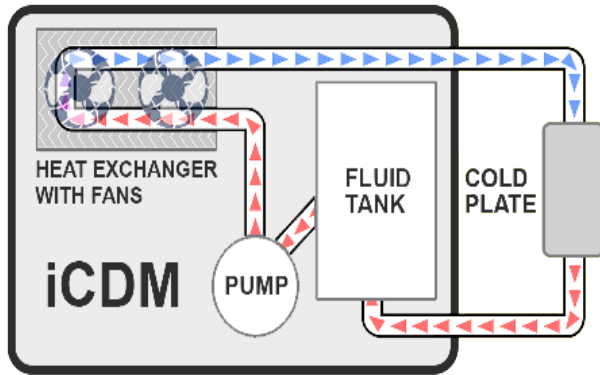


## iCDM Application Examples

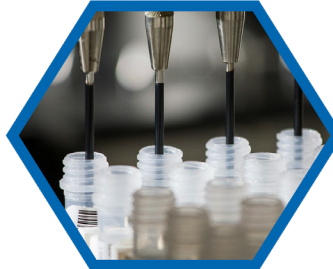
**STANDARD LIQUID LOOP**



**LIQUID LOOP WITH ICDM**



**BIOTECH**



**FOOD & BEVERAGE  
PRODUCTION**



**MEDICAL**



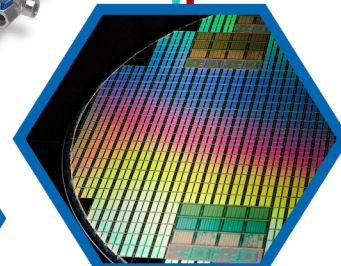
**INDUSTRIAL  
LASER**



**MIL/AERO**



**SEMICONDUCTOR  
MANUFACTURING**



Contact us with your custom design requirements: [ats-hq@qats.com](mailto:ats-hq@qats.com)