# Microclimate Thermal System

# COBHAM

MTS

## The most important thing we build is trust



Cobham's new Microclimate Thermal System (MTS), based on the highly successful mass fielded microclimate cooling system (MCS) breaks new ground by offering heating as well as cooling at the flip of a switch.

This new heating feature can be retrofitted into an existing microclimate cooling unit. The Microclimate Thermal Unit uses the same mounting tray, umbilical, vest, control by-pass assembly and power cable as the MCS.



Microclimate Thermal System

#### **Key Features**

- Heating and Cooling modes
- Rugged, reliable, easy to operate
- User-adjustable heating and cooling
- Can be used with existing vests, mounting trays, umbilicals, CBAs and power cables

### Nominal Specifications

Cooling Mode Characte	ristics
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0		
Cooling Power	350 Watts at	
	125 deg F (cooling)	(52 deg C)
Thermal Fluid		
Temperature	55 to 75 deg F	(13 to 24 deg C)
	(depending on user adjustment)	
Operational		
Temperature Range	55 to 150 deg F	(13 to 66 deg C)
Heating Mode Character	ristics	
Heating Power	250 Watts at 0 deg F (heating)	
Thermal Fluid		
Temperature	90 to 110 deg F	(32 to 43 deg C)
	(depending on user adjustment)	
Operational		
Temperature Range	0 to 90 deg F	(-18 to 32 deg C)
Electrical Characteristics	5	
Voltage	28 VDC	
Current	12 Amps (max) at 28 VDC	
Electrical		
Specifications	MIL-STD-461, MIL-STD-7	704, MIL-STD-1275
Mechanical Characterist	ics	
Thermal Fluid	50-50 Water-Propylene Glycol Mix	
Thermal Fluid Flow Rate	8-14 GPH	
MTU Weight	13 lbs	(5.9 kg)

Mechanical Characteristics continued

ge)	
-65 to 160 deg F	(-54 to 71 deg C)
MIL-STD-810 (cons	ult factory)
MIL-STD-810	
MIL-STD-810	
MIL-DTL-D38999/2	4WD5PN
MIL-DTL-D38999/2	6WA98PN
	ge) -65 to 160 deg F MIL-STD-810 (cons MIL-STD-810 MIL-STD-810 MIL-STD-810 MIL-STD-810 MIL-STD-810 MIL-STD-810 MIL-DTL-D38999/2 MIL-DTL-D38999/2



Cobham Microclimate Thermal Unit

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