Monitor free-air cooling solutions

Significantly reduce your CO_2 emissions and energy bills
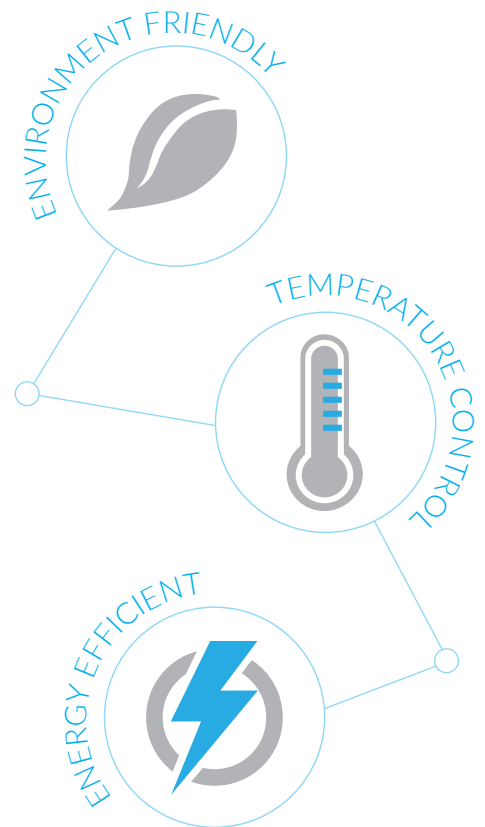
Designed for both new builds and retrofit

Monitor can track and maintain the ambient air temperature within equipment cabins or rooms, dramatically cutting your CO_2 emissions and energy costs.

The system can accommodate door- or wall-mounted installations and includes a comprehensive alarm capability that provides integrated monitoring and management of the system and cabin environment.

Monitor is available in three sizes, making it perfect for cooling cabins that contain an excess amount of equipment.

Monitor is easily installed and provides other benefits such as:

- Hydrophobic filtering to MERV11

- Long life filtering 5+ years

- High quality fan units and overall construction

Monitor Power Specifications			
Monitor 4	Monitor 9	Monitor 12	Monitor 16
4kW of cooling with a Δt of 10˚C with two fans	9kW* of cooling with two fans	12kW** of cooling with two fans	16kW of cooling with a Δt of 10˚C with three fans

*System will be capable of delivering up to 10kW with a Δt of 10˚C
**System will be capable of delivering up to 15kW with a Δt of 10˚C

ENVIRONMENT FRIENDLY

TEMPERATURE CONTROL

ENERGY EFFICIENT

How it works

Cleaner air, lower energy costs

1. Filters remove dust from the air as it enters through the filter.

2. Air movement through the cabin is created by high-performance backward curved radial fans.

3. The air is drawn through the filters and directed to the floor of the cabin for smooth air blending.

4. Cooled air is forced through the lower region of the cabin and the warmer air is exhausted, at high level, through the damper.

5. The fan speed/temperature profile and heater are controlled by the microprocessor based management systems. The GUI allows for easy programming with a PC connected to the fantray via a standard serial port.

6. The systems provide a strong enough airflow to extract up to 4kW, 10kW, 15kW or 16kW with a Δt of 10˚C between the temperature of the air entering the cabin and the temperature of the air leaving the cabin.

Alarms

A standard package of alarms and sensors is available which allows you to set your desired warning levels using the GUI. Optional alarms are available for additional monitoring.

Fans

Fans are of the very latest design and are ErP compliant.

Security

Burglar resistant cowls come as standard. Additional optional exhaust security bars can be fitted over the louver opening on the outside of cabin walls. We can also fit optional security bars on the outside of the door.

Specifications	Monitor 4	Monitor 9	Monitor 12
Physical Properties			
Width/Height/Depth (mm)	520 x 610 x 195	450 x 960 x 150	450 x 1360 x 150
Operating Parameters of System			
External Ambient Operating Temperature Range -30°C to +40°C	Yes	Yes	Yes
Noise Level dB(A) at 5 metres, average fan speed	43.8	49	50.5
Noise Level dB(A) at 3 metres, average fan speed	49.8	50.5	52
Flow Rate and Power Consumption DC Versions			
Number of Fans	2 x 225mm fans	2 x 285mm fans	3 x 285mm fans
Flow Rate at 100% Fan Speed m3/hr	1200	3000	4500
Cooling capacity at Δt=10°C (Inlet to exhaust)	4	10	15
Cooling capacity at Δt=7°C (Inlet to exhaust)	2.8	7	10.5
System nominal voltage -52V DC	-38 to -58V DC	-38 to -58V DC	-38 to -58V DC
System max. current (Amps) @ -52V DC	3.4	13.5	20.2
System max. power consumption at nominal voltage (Watts)	165	720	990
System power consumption at 50% speed (Watts)	43	90	124
Filter			
Filters manufactured from 100% recycled polypropylene. Available in G4 as standard or can be upgraded to Merv 11 hydrophobic filters.	1	2	3
Technical Features			
Material:	Fantray, Support Frame, Filter Cover and body of Exhaust Hood manufacturedv from pre-galvanised mild steel BS EN 10 147 1992 (Z450)		
Finishes:	Polyester powder coated in any standard RAL color		
Installation:	Two-man team 4 hr installation	Two-man team Can be installed in 5 hours	

Towards a sustainable future

We're so passionate about our green principles that Delta Electronics, a global leader in renewable energy and other technologies, has recognised us with an award for our high-efficiency products.

To learn more about reducing your carbon footprint with Monitor free-air cooling solutions—and cutting your energy bills up to 90% – visit us at www.commscope.com.

Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.

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Visit our website or contact your local CommScope representative for more information.