

EnviroCube®

Cooling Management Appliance

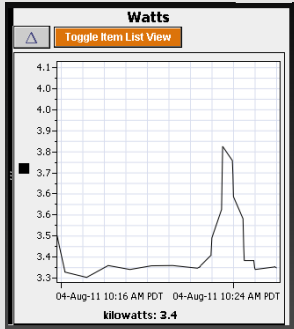
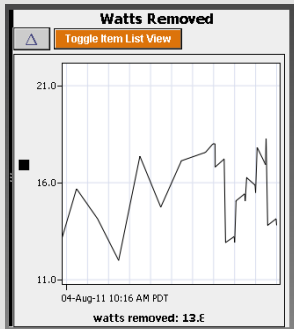
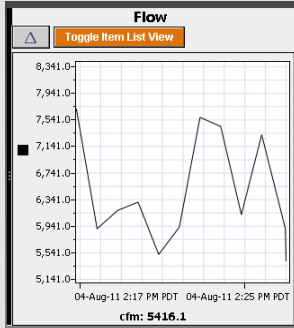
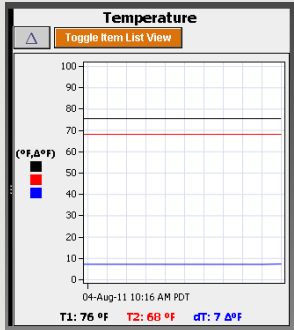


WHAT YOUR AIR UNITS DON'T KNOW CAN HURT YOU

	EnviroCube®	Your CRAC/CRAH
DELTA T	✓ CLASS 1	+/- Optional
WATTS REMOVED	✓ CLASS 1	✗ Not Available
POWER USED	✓ CLASS 1	✗ Not Available
ENERGY CONSUMED	✓ CLASS 1	✗ Not Available
HEALTH INDEX	✓ CLASS 1	✗ Not Available
PRODUCTIVITY INDEX	✓ CLASS 1	✗ Not Available

Cooling systems support all of your mission critical IT equipment. Billions of dollars are spent each year to provide detailed analytics on your servers, storage and networking equipment. Until now, detailed information on your cooling systems was virtually non-existent. TrendPoint is changing all of that.

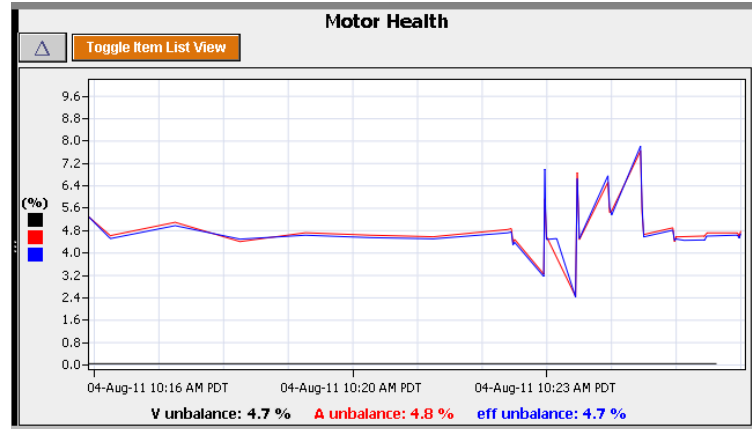
The EnviroCube® easily installs on any CRAC, CRAH, or chiller system. Its plug and play data allows you to view and analyze data from your existing BMS, EMS, and Network Management Systems. You also manage cooling units via TrendPoint's SmartGrid Manager™.



Increased Reliability

Did you know that all electrical and mechanical failures can be discovered before they occur with the use of the proper analytics? The EnviroCube® uses this information to create its exclusive Motor Health Analysis Data, allowing you to prevent the following events:

- Bearing failure
- Shaft misalignment
- Winding fault or error
- Insulation fault
- Ground Fault and much more



Increased Efficiency

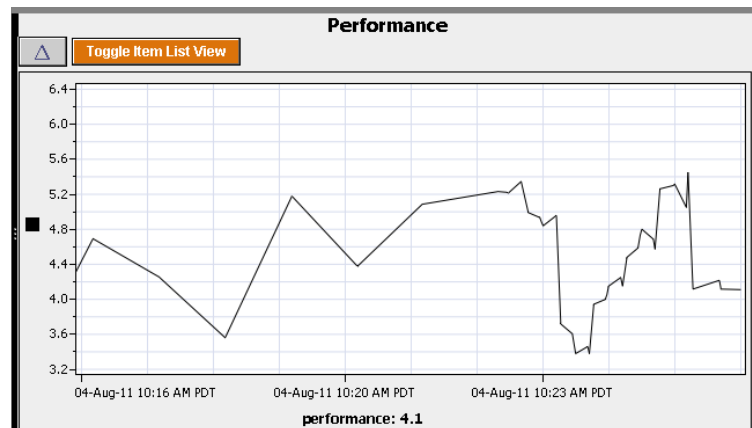
Efficiency is the maximum ability of your cooling unit to remove heat. Most users expect that their cooling equipment is fairly efficient. The fact is, without looking at detailed information about air movement and heat removal capacity vs. energy used, you simply cannot know if your systems are efficient.

By using highly accurate information about airflow, motor balance, power and energy use, the EnviroCube® lets you establish which units are very efficient and which have hidden trouble. In this way, you can manage and maintain each unit to a precise metric, rather than having to hope that your vendors are keeping your units in top condition.

Better Performance

Performance is the actual amount of heat removed by your cooling unit in relation to the energy used in the process. The EnviroCube® measures the Coefficient of Performance (COP), a well-established industry metric. By measuring and comparing the COP of each unit and comparing one unit to another, you can quickly determine the following about each unit:

- Is this unit a candidate to be shut down due to lack of heat being removed?
- Is this unit a candidate for use of a VFD or ECU?
- Could this unit's performance be enhanced with floor fans?



NIST Certification

Accuracy Insured
By EnerSure®



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EnviroCube



DIMENSIONS

Length	Width	Height
4.65 in	4.65 in	4.5 in
118.11 mm	118.11 mm	114.3 mm

ELECTRICAL PROPERTIES

Current	±.5%	Volts In	24VDC
Power	±1%	Amps (Max)	250mA
Temperature	0° - 38° C	Frequency	50-60HZ

CERTIFICATIONS

EN613226, 61000-3-2 & 3-3	CE Marked/Tested
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Potential Transformer



DIMENSIONS

Length	Width	Height
5.90 in	3.125 in	1.95 in
148.86 mm	79.375 mm	49.53 mm

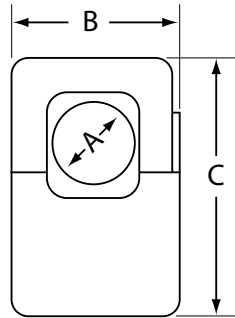
ELECTRICAL PROPERTIES

Accuracy	±1%	Rated Current	N/A
Linearity	0.5%	Voltage Ratio	1200:1
Max Voltage	300V theta-N	Frequency	50-60HZ

CERTIFICATIONS

TUV Certified	UL Listed 61010
EN61010-1	CE Marked/Tested

Current Transformer



DIMENSIONS

A	B	C
.40 in	1.25 in	1.60 in
10.16 mm	31.75 mm	40.64 mm

ELECTRICAL PROPERTIES

Accuracy	±.5%	Rated Current	75A
Linearity	0.5%	Current Ratio	3000:1
Max Voltage	600V	Frequency	20-400HZ

CERTIFICATIONS

EN61010-1	UL Listed 1015	CE Marked/Tested
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EnviroPod



DIMENSIONS

Length	Width	Height
5.5 in	2.5 in	1.13 in
139.7 mm	63.5 mm	28.7 mm

ELECTRICAL PROPERTIES

Current	±.5%	Volts In	6-12VDC
Power	±1%	Amps (Max)	12mA
Temperature	0° - 38° C	Frequency	50-60HZ

Air Velocity Sensor



DIMENSIONS

Length	Diameter	Cable Length
5.90 in	3.125 in	1.95 in
148.86 mm	79.375 mm	49.53 mm

ELECTRICAL PROPERTIES

Accuracy	±1%	Current Consumption	70mA at 4000ft/ min
Supply Voltage	19-29VDC	Response Time	4 seconds
Output Signal	0-10V (1mA max)	Standards	NIST Certificate