

Chillgard[®] 5000

Refrigerant Monitor



➤ Mechanical Equipment Room Gas Monitoring

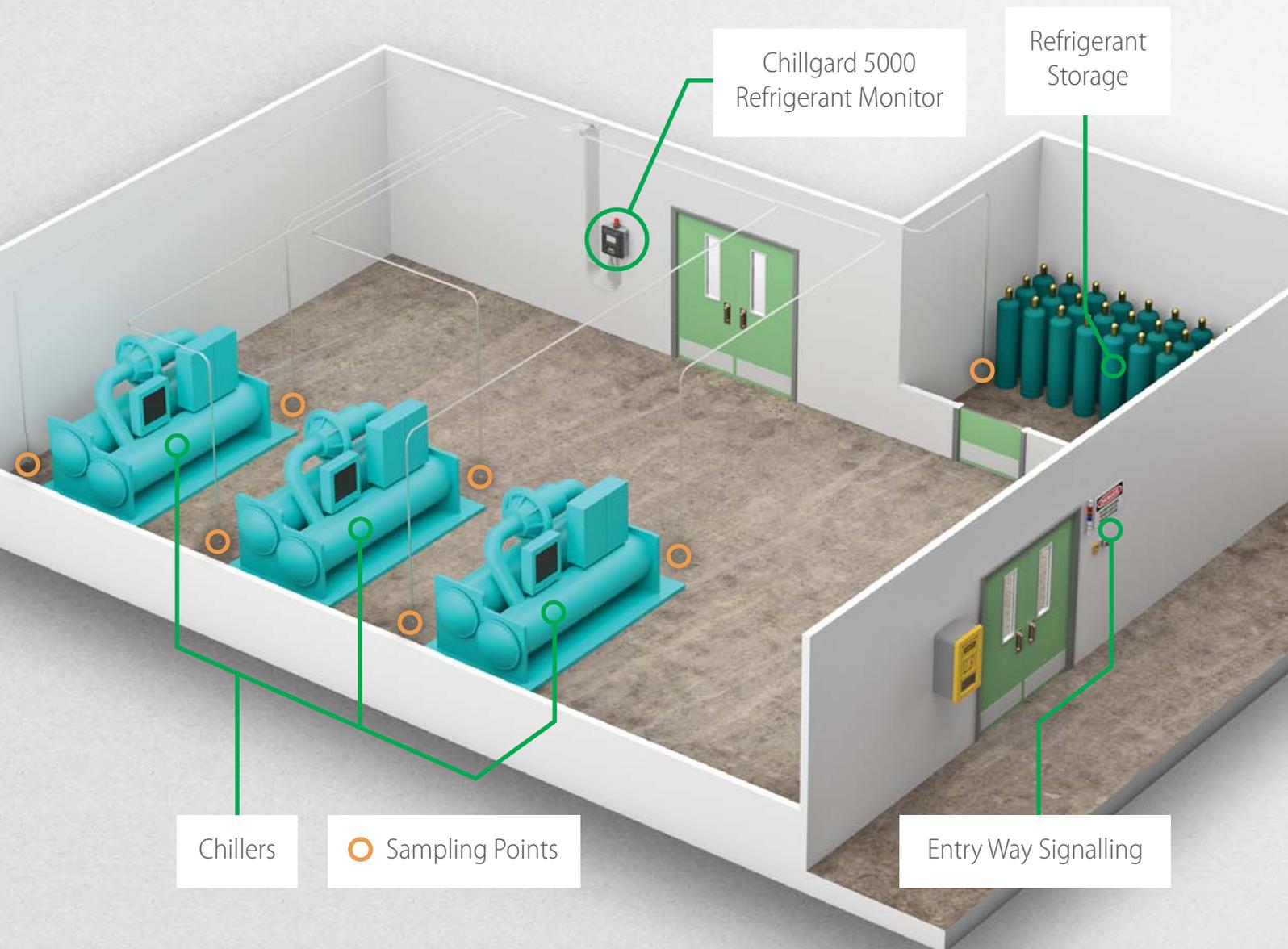
Stay in compliance with ASHRAE 15, the Environmental Protection Agency and local building codes with the Chillgard 5000 Refrigerant Gas Monitor.

—ASHRAE 15 states:

Each machinery room shall contain a detector located where a refrigerant leak would concentrate.

The detector shall trigger an audible and visual alarm both inside and outside the mechanical room and activate mechanical ventilation.

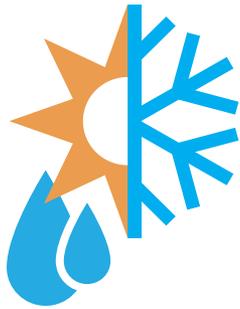
MSA refrigerant monitoring solutions ensures local and federal compliance; protect your plant and facility.
Trust the experts.



➤ Earliest Level of Detection



The Chillgard 5000 provides continuous, real-time monitoring down to 1 ppm with patented Photoacoustic Infrared (PAIR) Technology.



Stability

Not affected by temperature and humidity swings, minimizing drift



Sensitivity

1 ppm minimum detection level with our patented PAIR technology



Reliability

Worry-free operation with advanced sensor diagnostics and predictive maintenance.



Versatility

Select up to 6 refrigerants to monitor out of our field-selectable refrigerant library

According to the EPA*, the average leak rate for commercial chillers is

35%
of refrigerant
per year.

From older refrigerants to new, low global warming potential refrigerants average



...the earliest level of detection keeps money in your pocket.

* Environmental Protection Agency

➤ All New User Interface



Password Protected

Original password protection can be enabled or disabled



Multi-Lingual User Interface

Full-text display translated into 6 different languages



Tech-Friendly Diagnostic Log

Designed for technicians to make important troubleshooting data easily accessible



Simplified Calibration

Designated calibration port and one-touch calibration mode takes the guess work out of maintaining your monitor

CALIBRATE EVENT LOG SETTINGS DIAGNOSTICS	CHILLER 1 R.	CHILLER 1 L.
	✓ 0 ppm POINT 1	✓ 0 ppm POINT 2
	CHILLER 2 R.	CHILLER 2 L.
	✓ 0 ppm POINT 3	✓ 0 ppm POINT 4

7" (178 mm) color touch display

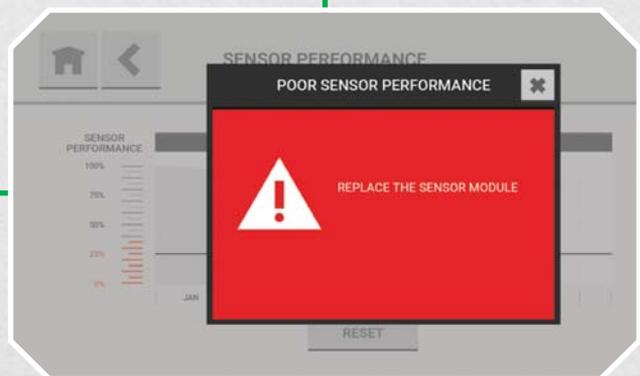
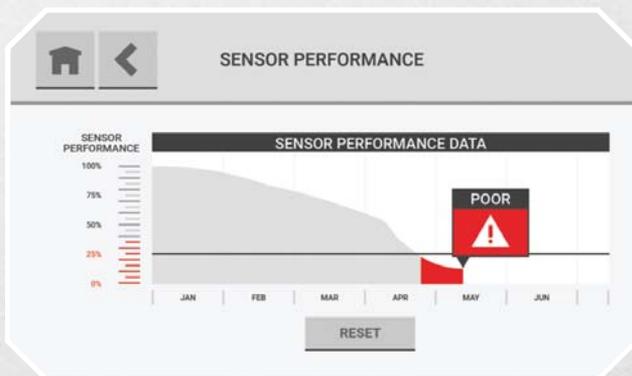
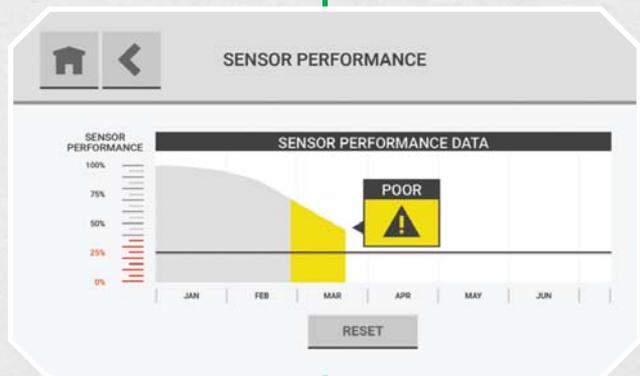
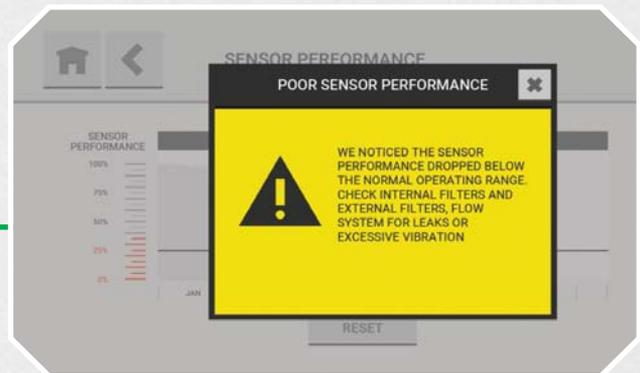
Real-time dashboard view and easy access to settings, event log, diagnostics, and calibration modes

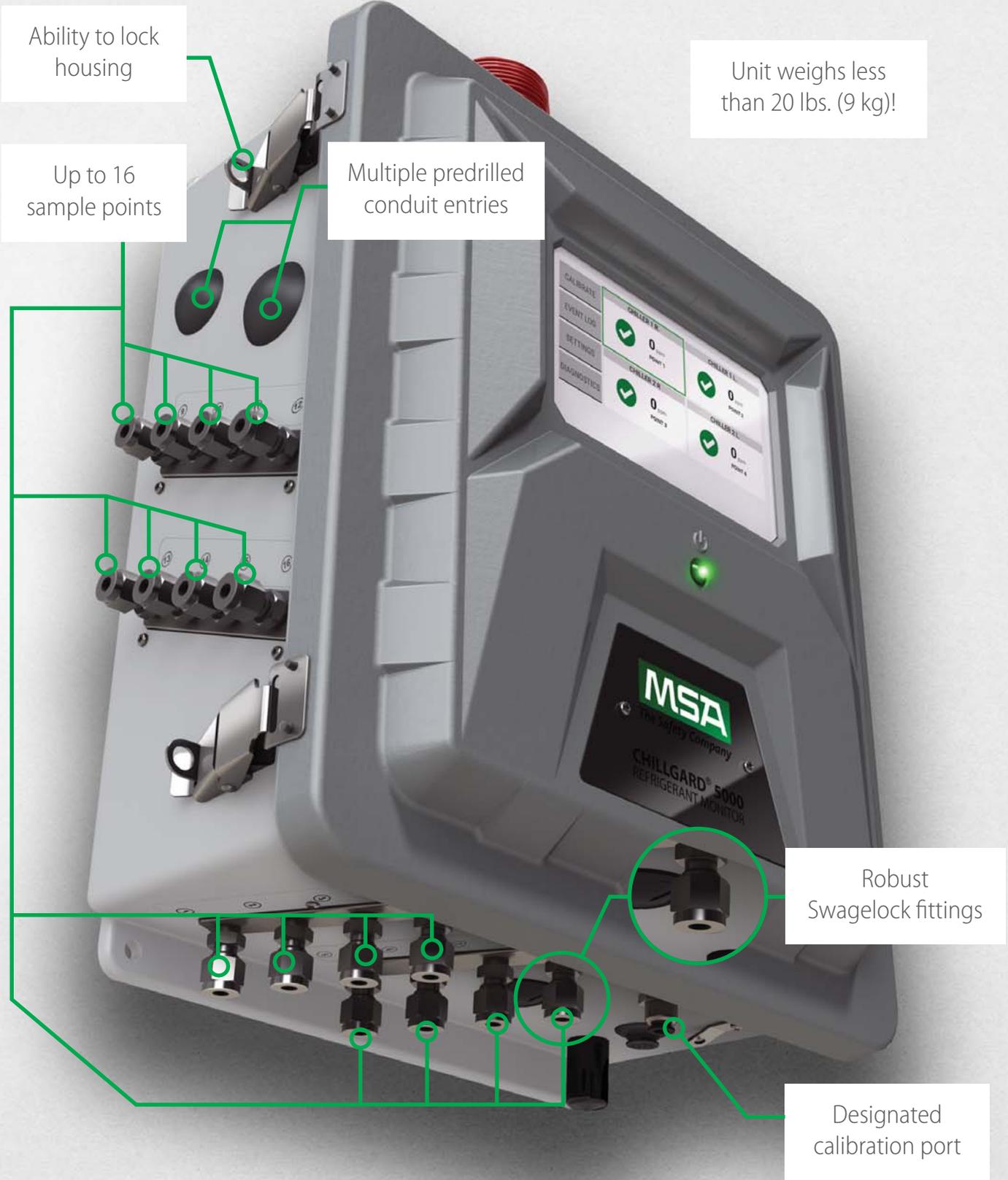
➤ Work Smarter

Expect more from your Refrigerant Monitor

Predictive Maintenance and Diagnostics

Easy to predict, diagnose and replace modules in the field.





Ability to lock housing

Unit weighs less than 20 lbs. (9 kg)!

Up to 16 sample points

Multiple predrilled conduit entries

Robust Swagelok fittings

Designated calibration port



➤ Technical Specifications



USAGE	Indoor use only
OVERVOLTAGE	Category II
POLLUTION	Degree 2
AC POWER	100–240 Vac, 50/60 Hz, 200VA
OPERATING TEMPERATURE	32° to 122° F (0° to 50° C)
OPERATING ALTITUDE LIMIT	9762 ft. (2975 m)
OPERATING HUMIDITY	0 to 95%, noncondensing
INGRESS PROTECTION	IP54
SIZE	15.6 in. x 13.6 in. x 7.6 in. (39.6 cm x 34.5 cm x 19.3 cm) H x W x D
WEIGHT	
4-POINT UNIT	14 lbs. (6.4 kg)
8-POINT UNIT	15 lbs. (6.8 kg)
16-POINT UNIT	17 lbs. (7.7 kg)
SENSOR TYPE	Photoacoustic Infrared
SAMPLE LINE TUBING	
POLYURETHANE TUBING	0.25" OD (0.635 cm) x 0.1875" (0.48 cm) or 0.125" ID (0.3175 cm)
METAL TUBING	0.25" OD (0.635)
SAMPLE LINE MONITORING DISTANCE	Up to 400 ft. (121 m) for optimum performance, will support up to 1250 ft. (381 m)
GASES	R11, R12, R22, R123, R134A, R401A, R404A, R407A, R407C, R407F, R410A, R422A, R422D, R427A, R507, R1233zd(E), R1234yf, R1234ze, R-513A, R-514A
MEASURING RANGE	0 – 1000 ppm
SENSITIVITY (MIN DETECTION)	1 ppm for all listed gases
ACCURACY (LINEARITY)	0–50 ppm ±1 ppm, 51–1000 ppm ±10% of reading
SENSOR RESPONSE TIME	90% of gas reading <70 sec
RELAYS	5 Form C, 8A 250VAC/24VDC resistive SPDT for Fault, Caution Level, Warning Level, Alarm Level and External Horn
AUDIBLE ALARM	95 ±5 dB(A) at 24 in. (61 cm) maximum
COMMUNICATION OUTPUTS	4–20 mA sourcing, 250 Ohm load; 0 – 10 V , 2 K Ohm minimum load; RS485 Modbus RTU; RS-485 BACnet MS/TP
WARRANTY	2 years
APPROVALS	UL 61010-1 (3rd Edition) CAN/CSA-C22 No. 61010-1-2012 IEC/EN 61010-1:2010 (3rd Edition)

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products. Specifications subject to change without notice.



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Additional locations can be found on our web site:
www.MSAsafety.com

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