

2016 MSA Mechanical Room Safety Equipment Guide

for MSA Chillgard® Refrigerant Monitors & Related Products



MSA Customer Service: 1-800-MSA-4678, fax: 724-776-3280
email: customer.service@msasafety.com or jci@msasafety.com

MSA, JCI Vendor Number is 12578



*Because every life has a **purpose...***

Ordering Information

Sold To:	Ship Info:	P.O. Number:
		Order Date:
		Ship Date:
		Contact Name:
		Phone Number:
Special package markings:		

Chillgard Monitor Sample Draw Pumped Systems meet ASHRAE 15-2010 requirements.

Chillgard RT Gas Monitor

Chillgard RT Photo-Acoustic Infrared Refrigerant Monitor, multi-refrigerant-capable, ±1ppm detection and accuracy per UL2075-certified, 110/220 VAC, text display, steel enclosure, 3 alarm relays plus fault, 4-20mA & 0-10VDC analog outputs, audible alarm.

Price includes end-of-line filters, 1-year warranty, UPS ground shipping.



Identify Refrigerant	# of Points	Price (USD)	Qty	Total Price (USD)
R- _____ (Add'l refrigerants add \$105 each, 5 max. Please list)	Single-point	\$3,912		
	2 - 4 points	\$5,108		
	5 - 8 points	\$6,066		
Unit-mounted red strobe, P/N 634674		\$166		
BACnet module, P/N 10117876		\$520		
MSA Use Only: A-RT-__-__-1-1-__-F-__-0-D-0-0				

Chillgard LE Gas Monitor

Chillgard LE Photo-Acoustic Infrared Single Refrigerant Monitor, minimum detection: 20ppm, 110/220VAC, text display, plastic enclosure, 3 alarm relays plus fault, audible alarm, 4-20mA & 0-10 VDC analog outputs. Meets requirements of ASHRAE 15-2004, UL approved, (24VAC/DC models available, less \$70, contact MSA).

Price includes end-of-line filters, 2-year warranty, UPS ground shipping.



Standard Refrigerants	# of Points	Price (USD)	Qty	Total Price (USD)
R-11 R-12 R-22 R-123 R-134a 400 & 500 Series available at same price, (Contact MSA)	Single-point	\$2,049		
	2 - 4 points	\$2,767		
Unit-mounted red strobe, P/N 634674		\$166		
Unit-mounted 100dB horn, P/N 10035633		\$213		
BACnet module, 10117875		\$520		
MSA Use Only: A-LE-__-__-1-0-__-1-__-0-1-0-0-0-0-__				

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Chillgard L Series Monitor Hard-Wired Systems meet ASHRAE 15-2010 requirements.

Chillgard LS Diffusion Sensors

Chillgard LC Monitors with Xfmr 110VAC input, 24VDC output (powers 5 LS Sensors)

- 1 Chillgard LC Monitor can manage up to 8 Chillgard LS Monitor sensing points
- 4-conductor cable, 24VDC & RS 485 Modbus communication
- Daisy chain (shown) or home run wiring
- Chillgard LC & LS Monitor models are STD with 24VAC/DC power. 110V is optional

Chillgard LC Monitor

Chillgard LC Controller xfmr model, control up to 8 Chillgard LS Sensors, power up to 5 sensors, Modbus communication, 110/220VAC (24V AC/DC available), controller includes text display, calibration control, 3 alarm relays plus fault, audible alarm, UL-approved.

Price includes 2-year warranty, UPS ground shipping.

	Price (USD)	Qty	Total Price (USD)
Chillgard LC Monitor xfmr model, 110/220VAC w/ 24VDC output (shown above)	\$957		
Chillgard LC Monitor, 24V AC/DC, (powers LC only)	\$822		
Unit-mounted red strobe, 634674	\$166		
Unit-mounted 110dB horn, 10035633	\$213		
BACnet module, 10117875	\$520		
MSA Use Only: A-LC-0-0-0-__-0-0-__-__-0-1			

Chillgard LS Diffusion Sensor

Chillgard LS Photo-Acoustic Infrared Refrigerant Leak Sensor, single-gas diffusion or 4-point sample draw, minimum detection: 20ppm, 110/220VAC (24V AC/DC available), can be used as stand-alone sensor transmitter with 4-20mA output to BAS, UL-approved.

Price includes 2-year warranty, UPS ground shipping.

Standard Refrigerants:	Price (USD)	Qty	Total Price (USD)
R-11 R-12 R-22 R-123 R-134a 400 & 500 Series available at same price, contact MSA.			
Chillgard LS Monitor, single-point diffusion sensor, 24V AC/DC	\$1,056		
Chillgard LS Monitor, single-point diffusion sensor, 110VAC	\$1,196		
Chillgard LS Monitor, 4-point single-gas sensor with pump, 24V AC/DC	\$2,039		
Chillgard LS Monitor, 4-point single-gas sensor with pump, 110VAC	\$2,096		
Unit-mounted red strobe, 634674	\$166		
Unit-mounted 100dB horn, 10035633	\$213		
MSA Use Only: A-LS-__-__-__-0-__-__-__-0-__-0-0-0			

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MSA Commissioning and Preventative Maintenance Services

Get it started and keep it operating properly! Use MSA Commissioning and Routine Preventative Maintenance Service Programs for all of your MSA permanently-installed gas detection instruments. All work is performed by MSA service professionals with flat-fee pricing and no hidden costs. The program is available for the entire US and Canada. Commissioning requires all field wiring and sample point tube lines to be installed.

Commissioning Program

Number of Monitors	Service Type	Order Number	Flat-Fee Price (USD)
Chillgard RT or LE Monitor(s) 1-, 4-, or 8-point. 3 monitors maximum @ 1 site	Standard Commissioning	Z-COM-STD-10	\$947.00
Chillgard LC Monitor with up to maximum of 8 Chillgard LS Sensors	Premium Commissioning	Z-COM-PREM-10	\$1,561.00

Standard Commissioning includes:

- All travel time, mileage and related travel expenses; no extra charges.
- Inspection and verification of system installation and configuration.
- Complete startup / commissioning of entire system with functional testing.
- Calibration with NIST-traceable calibration gases and calibration certificate provided.
- Hands-on system operation overview.
- Factory warranty initiated.

Premium Commissioning includes all Standard Commissioning plus:

- Upgrades standard ship-in factory warranty to on-site warranty. MSA comes to you for any warranty repair; instrument stays mounted within facility.
- Job-specific installation document preview, review and consultation.
- Recommendation of all necessary utilities.
- Enhanced hands-on training of installed system at time of commissioning.

Routine Preventative Maintenance Program

Number of Monitors	Service Type	Order Number	Flat-Fee Price (USD)
Chillgard RT or LE Monitor(s) 1-, 4-, or 8-point units. 3 monitors maximum @1 site Chillgard LC Monitor with up to maximum of 8 Chillgard LS Sensors	Routine maintenance	Z-PMSERVICE-4	\$681.00
Same as above except maximum of 4 Chillgard RT or LE Monitor units; or Chillgard LC Monitor with maximum of 8 Chillgard LS Sensors	Routine maintenance	Z-PMSERVICE-10	\$947.00

Standard maintenance includes:

- Complete inspection, testing and calibration of entire MSA system using NIST- traceable gas.
- Includes all travel time, mileage and related travel expenses; no extra charges.
- No additional labor charges; replacement parts are billed as needed.
- Certificate of calibration, detailed service report and equipment calibration indicators installed on each unit.
- Provides reduced contract labor rate for emergency service calls, if required.
- Managed maintenance schedule agreements available (annual, semi-annual, quarterly, or monthly).
- Full MSA manufacturers' warranty support provided.

MSA is committed to customer discretion with regard to our service programs.

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Remote Display & Entry-Way Signaling Devices

Remote Displays – MSA Remote Display unit connect via RS485 to Chillgard RT, LE or LC Monitors. Unit remotely displays same information as mechanical room's refrigerant monitor. Unit is rated for indoor use, has audible alarm and strobe option. Contact MSA for details. Meets ASHRAE entry-way signaling criteria.



Products shown are the most popular for mechanical rooms. Other standard units are available; contact MSA Customer Service.

	Order Number	Description	Price (USD)	Qty.	Total Price (USD)		
REMOTE DISPLAYS	10098217	24V AC/DC model for unit-mounted red strobe, add \$160	\$702				
	10098216	110/220 VAC model for unit-mounted red strobe, add \$160	\$713				
	Order Number	Lens Color / integrated horn	Voltage	Environmental Rating	Price (USD)	Qty.	Total Price (USD)
STROBES/BEACONS	634674	Red flashing strobe	12-48 VDC	Indoor/outdoor use, NEMA 4X, IP66	\$166		
	10058753	Red flashing strobe	12-48 VDC	Indoor/outdoor use, NEMA 4X, IP66	\$119		
	10058752	Red flashing strobe	120VAC	Indoor/outdoor use, NEMA 4X, IP66	\$119		
	10057838	Red flashing strobe, 70dB sound module	24 VAC/DC	NEMA 1	\$218		
	10057839	Red flashing strobe, 70dB sound module	120VAC	NEMA 1	\$218		
	10016789	Red flashing strobe, 85dB sound module	24V AC/DC	4X outdoor	\$302		
	10016820	Red flashing strobe, 85dB sound module	115VAC	4X outdoor	\$302		
	10057841	Red/blue strobe, 70dB sound module	24 VAC/DC	NEMA 1	\$286		
	10057842	Red/blue strobe, 70dB sound module	115VAC	NEMA 1	\$286		
	10057844	Red/amber/blue strobe, 70dB sound module	24V AC/DC	NEMA 1	\$379		
	10057845	Red/amber/blue strobe, 70dB sound module	115VAC	NEMA 1	\$379		
HORNS	056247	Horn, wall-mount, aluminum housing, 110dB	115VAC	4X, IP65	\$188		
	10035633	Horn, wall-mount, plastic housing, 110dB	24V	4X, IP65	\$218		
	Order Number	Description	Price (USD)	Qty.	Total Price (USD)		
TUBING FOR SAMPLE DRAW SYSTEMS	603806	1/8" ID polyurethane	\$3 / FT				
	603876	1/8" ID Teflon-lined tubing	\$4 / FT				

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Startup & Calibration Kits for Chillgard Refrigerant Monitors

Chillgard Refrigerant Monitor Calibration Kits include flow regulator, all necessary gas delivery fittings, 98 liter NIST-Traceable zero gas, 100ppm span gas cylinders, and rugged storage case. One bottle delivers approx 15 calibrations with normal use.

Price includes UPS ground shipping.



Calibration gases shown are the most popular. Additional gases and concentrations are available; contact MSA Customer Service.

	Description	Price (USD)	Qty.	Total Price (USD)	
CALIBRATION KITS	Complete calibration kit includes flow regulator, gas delivery fittings, zero gas, 100ppm span gas, zero and span carbon scrubber in rugged storage case. Order number: A-Cal-50-F-10028042-00-0- span cylinder number	\$571			
	Calibration Kit WITHOUT Gas includes regulator, gas delivery fittings and rugged storage case. Order number: A-Cal-50-F-000000-00-0-0000	\$275			
	Order Number	Description	Price (USD)	Qty.	Total Price (USD)
CALIBRATION GAS CYLINDERS	10028042	Zero gas, 20.8% oxygen in nitrogen	\$163		
	803500	Span gas, R134a, 100ppm in nitrogen	\$163		
	803498	Span gas, R123, 100ppm in nitrogen	\$163		
	804868	Span gas, R22, 100ppm in nitrogen	\$163		
Note: most 400 Series and 500 Series blends use R134a cylinder for span calibration; contact MSA.					
	Order Number	Description	Price (USD)	Qty.	Total Price (USD)
CALIBRATION KIT SPARE REGULATORS & ACCESSORIES	710288	Demand regulator for Chillgard RT or LE Monitors only, eliminates need for carbon scrubbers and saves calibration gas.	\$281		
	467896	Flow regulator, 1.25 LPM flow regulator for use with all Chillgard RT & LE Monitor Systems	\$138		
	467895	Flow regulator, 0.25 LPM for use with Chillgard LS Monitor diffusion sensor only	\$138		
	10035292	Chillgard LS Monitor diffusion calibration box (required for Chillgard LS Sensor when used without Chillgard LC Controller, or as 4-20mA stand-alone transmitter)	\$92		

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Self-Contained Breathing Apparatus & Accessories



SCBA products below are the most popular for mechanical room applications. 60-minute cylinders and other configurations and options are available at preferred pricing; contact MSA Customer Service.

	Order Number	Equivalent SCBA Configuration	Description	Qty.	Price each (USD)
SCBA	10095800	A2L-C-0-1-A-0-0-B-1-3-A-A-1	AirHawk® II SCBA, 2216 psig, nylon harness w/chest strap, Ultra Elite® Facepiece (medium Hycar™ Rubber), rubber head harness, aluminum 30-minute cylinder, hard carrying case included.		\$1,635
	10095801	A2L-C-0-1-A-0-0-B-1-3-A-A-0	AirHawk II SCBA, 2216 psig, nylon harness w/chest strap, Ultra Elite Facepiece (medium Hycar Rubber), rubber head harness, aluminum 30-minute cylinder, wall case required.		\$1,526
	10095802	A2L-C-0-3-A-0-0-B-1-3-A-A-1	AirHawk II SCBA, 2216 psig, nylon harness w/chest strap, Ultra Elite Facepiece (medium Hycar Rubber), rubber head harness, nosecup (medium), 30-minute carbon cylinder, hard carrying case included.		\$2,075
	10095803	A2L-C-0-3-A-0-0-B-1-3-A-A-0	AirHawk II SCBA, 2216 psig, nylon harness w/chest strap, Ultra Elite Facepiece (medium Hycar Rubber), rubber head harness, nosecup (medium), 30-minute carbon cylinder, wall case required.		\$2,043
	Order Number	Description		Qty.	Price each (USD)
SCBA CYLINDERS & ACCESSORIES	807586	30-minute L30 carbon 2216 psi cylinder & valve assembly			\$952
	809872	30-minute L30 aluminum 2216 psi cylinder & valve assembly			\$547
	10058408	DVD instructional video, AirHawk II MMR SCBA			Free download*
WALL-MOUNTED STORAGE CABINETS	10052744	Wall cabinet for one SCBA with aluminum cylinder, includes brackets			\$364
	10052745	Wall cabinet for one SCBA with L30, 2216 psi, 30-min cylinder, includes brackets			\$364

*Available via web: <http://msaustaging.msanet.com/course/view.php?id=4031>

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MSA has nearly 100 years of experience in manufacturing high quality gas detection equipment to help ensure a safe workplace. Our rugged product line uses the most advanced detecting technologies and spans a range of price points to provide complete solutions for your gas detection needs.

**Please contact MSA
for all of your
gas detection needs.**



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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.



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