

Halogenated Leak Detector Options

Recently, the Environmental Protection Agency (EPA) amended the federal standard for dry cleaners (40 CFR Part 63, Subpart M). The amendment established several new requirements, one of which is that all dry cleaners must conduct monthly inspections for perchloroethylene (PCE) leaks, using a halogenated hydrocarbon detector or PCE gas analyzer. Dry cleaners may use any brand of halogenated hydrocarbon leak detector for the monthly monitoring provided they can demonstrate it meets the requirements of the rule, “portable device capable of detecting vapor concentrations of PCE of 25 parts per million by volume (ppmv) and indicating a concentration of 25 ppmv or greater by emitting an audible or visual signal that varies as the concentration changes.” Facilities are required to repair vapor leaks detected within 24 hours unless parts must be ordered. Dry cleaning machines installed before December 21, 2005 must be in compliance with the new standard as of July 28, 2008. Any machines installed after December 21, 2005 must be in compliance upon startup.

Based on information provided by the California Air Resources Board and leak detector manufacturers, the following units are expected to meet EPA guidelines. This is not an endorsement. Please note that this is not an extensive list. Further research is recommended to find the best leak detector for your dry cleaning facility.

PERC Gas Analyzers - Photoionization Detector (PID) - Can be used for equipment leak detection (≥ 25 ppm PERC) & carbon adsorber monitoring (300 ppm \pm 75 ppm perc / 100 ppm \pm 25 ppm). Detectors are calibrated to be solvent specific. Price range \$1,500 - \$3,800.				
Manufacturer	Model #	Type	Sensitivity	Distributors
Ion Science	PhoCheck 1000	PID	0.1-4,000 ppm 5% accuracy	Ion Science Americas LLC 1-800-224-5153 info@ionscience-americas.com www.ionscience.com
Rae Systems	MiniRAE 2000 2 sensitivity levels	PID	0-99 ppm / 100-2,000 ppm 2% accuracy	Rae Systems Llyod Stading 206-310-5906 lstading@raesystems.com www.raesystems.com
	ToxiRAE Plus 2 sensitivity levels	PID	0-99 ppm / 100-2,000 ppm 2% accuracy	Inspector Tools 1-800-895-4916 www.inspectortools.com Cole-Parmer 1-800-323-4340 www.coleparmer.com
International Sensor Technology	IQ350-TLV-FALCON	PID	Low level (0-100 ppm) Medium level (0-500 ppm)	International Sensor Technology 1-800-478-4271 www.intlsensor.com
PID Analyzers / HNU	DL-102	PID	less than 1 ppm to 3.0 ppm	PID Analyzers, LLC 1-800-PID-6826 www.hnu.com

Halogenated Hydrocarbon Detectors - Must detect 25 ppm or more Tetrachloroethylene (Perchloroethylene or Perchloroethene). Price range \$125 - \$800.

Manufacturer	Model #	Type	Sensitivity	Distributors
Snap-On Inc.	ACT 730 Leak Detector	Halogen selective	<0.25 oz/yr	Snap-on Equipment 1-800-225-5786 Clay.Cook@snapon.com http://buy1.snapon.com
Inficon Inc.	Tek-Mate	Heated Diode Halogen selective	<0.4 oz/yr	Nu-Way Products Co. Phillip Farmer 1-800-462-2089 www.inficonrefrigerantleakdetectors.com
Aeroequal Semiconductor	Aeroqual 200 Leak Detector (perchloroethylene)	Solvent specific	0-200 ppm	Kanomax USA, INC 1-800-247-8887 http://kanomax-usa.com/Aeroqual-Series-200.html
TIF	TIFXP-1A Six Tricolor LEDs for Visual Leak Indication, Seven Sensitivity Levels TIFRX-1A Six Single Color LEDs for Visual Leak Indication, Two Sensitivity Levels TIFXL-1A One Sensitivity Level	Halogen selective Halogen selective Non-selective	<0.1 oz/yr <0.25 oz/yr <0.4 oz/yr	Grainger Industrial Supplies www.grainger.com TIF 1-800-327-5060 www.tif.com Network Tool Warehouse Tel: 1-800-939-8665 www.ntxtools.com Cleaner Supply 1-800-388-5410 www.cleanersupply.com
Nova Systems Products	Bolo Green	Solvent specific	5 ppm	NOVA Systems Products, LLC 2359 Diehl Rd. Aurora, IL 60502 Phone: 630.513.0500 Toll-Free: 866.734.0200 Fax: 630.513.0502 Email: info@novasystemsproducts.com