

## TECHNICAL INSERT

Item No	549	ChemDisk™ Monitor for	Prepared by	CG
Edition	Feb 2021	HCFCs	Approved by	MDRP

The ChemDisk™ Personal Monitor is designed to measure exposure to chemicals in order to demonstrate workplace compliance with Permissible Exposure Limits (PELs) and Short Term Exposure Limits (STELs) defined by the Occupational Safety and Health Act of 1970 and Title 29 Code of Federal Regulations.

This **Technical Insert** contains product specific information on use and storage.

9159-549 02/21

<b>Sampling Medium:</b>	Activated Carbon, 150 mg, PTFE Binder
<b>Analytes Sampled:</b>	Trans-1-Chloro-3,3,3-Trifluoropropene (HCFC-1233zd(e)) 1,1,1,3,3 – Pentafluoropropane (HFC-245fa) 1,1,1,2-Tetrafluoroethane (HFC-134a)
<b>Analytical Method:</b>	AT SOP Freons: Desorption in Toluene; analysis by Gas Chromatography with Flame Ionization Detector (GC/FID)
<b>Recommended Sampling Time:</b>	STEL = 15 min; PEL = 8 hrs or full shift Functional range: 15 minutes - 12 hours
<b>Recommended Holding Time:</b>	Monitors must be received by Lab <b>within one (1) week after sampling.</b>
<b>Sample Capacity:</b>	Trans-1-Chloro-3,3,3-Trifluoropropene: > 500 ppm for 8 hour sample (> 4,000 ppm-hrs) 1,1,1,3,3 – Pentafluoropropane: > 250 ppm for 8 hour sample (> 2,000 ppm-hrs) 1,1,1,2-Tetrafluoroethane: > 250 ppm for 8 hour sample (> 2,000 ppm-hrs)
<b>Reporting Limit (RL):</b> *AT Labs specific	Trans-1-Chloro-3,3,3-Trifluoropropene: 0.6 ppm for 8 hour sample (5 ppm-hrs) 1,1,1,3,3 – Pentafluoropropane: 0.6 ppm for 8 hour sample (5 ppm-hrs) 1,1,1,2-Tetrafluoroethane: 0.7 ppm for 8 hour sample (6 ppm-hrs)
<b>Sampling Rate (SR):</b>	Trans-1-Chloro-3,3,3-Trifluoropropene: 0.60 mL/min 1,1,1,3,3 – Pentafluoropropane: 0.61 mL/min 1,1,1,2-Tetrafluoroethane: 0.67 mL/min
<b>Interfering Substance(s):</b>	Organic vapors in <i>AT Labs IH Sampling Guide</i> list do not interfere if GC resolution is adequate.
<b>Effect of Temperature:</b>	Effect on result ≤ 5% within 0 - 50°C (32 - 122°F).
<b>Effect of Humidity:</b>	Functions as claimed within 10 - 80% RH.
<b>Accuracy (MTE):</b>	Meets or exceeds OSHA requirements for accuracy: Maximum Total Error (MTE) ≤ 25% at PEL; ≤ 35% at STEL.
<b>Storage Conditions:</b>	Store at controlled room temperature. Do Not Use after Expiration Date printed on pouch.
<b>IMPORTANT:</b>	Warranty valid only if <b>Instructions for Use</b> have been followed.
<b>WARNING:</b>	Wash affected area thoroughly if Sampling Medium is contacted.

For detailed directions, see **Instructions for Use** included in each package of Monitors.

For detailed information about the ChemDisk™ Personal Monitor, refer to *AT Labs IH Sampling Guide* at [www.assaytech.com](http://www.assaytech.com)  
or call **TOLL FREE NUMBER 1-800-833-1258**