



Introduction to Horizon Technology

September 2008



Horizon Technology

- Horizon Technology was incorporated in 1993
- Company is located in NH, USA (35 miles north of Boston, MA)
- Focus; to design, manufacture, sell, and support a full line of automated SPE disk extractors and sample prep products to provide a total automated solution to testing labs
- Currently; primary market is the environmental analysis of water samples
- Strong working relationship with the US EPA
- Web site: www.horizontechinc.com



Horizon Technology Headquarters





Worldwide Distribution

- Australia
- Austria
- Belgium
- Brazil
- Canada
- China
- Czech Republic
- England
- France
- Germany
- India
- Indonesia
- Ireland
- Israel
- Italy
- Korea
- New Zealand
- Norway
- Poland
- Scotland
- Slovakia
- Spain
- Switzerland
- Taiwan
- The Netherlands



Total Solution for Automated Sample Prep *Extraction, Drying, Concentration*

- SPE-DEX® 4790: *Extracts Semi-Volatile Organics – GC/MS & LC/MS Analysis*
- SPE-DEX® 1000/3000XL: *Extracts Oil & Grease (O&G) - Gravimetric*
- SpeedVap® Evaporator – *Evaporates Oil and Grease*
- Solvent Trap® – *Traps N-Hexane for Oil and Grease*
- DryVap® Solvent Concentrator System – *Dries and Concentrates Solvents for GC/MS & HPLC/MS Analysis*
- DryDisk® Separation Membrane- *Removes Residual Water in Solvents*
- Reclaimer® Solvent Recovery System – *Traps Solvent Vapors*
- Consumables: Atlantic and Pacific SPE Disks – **C18, DVB, Oil & Grease**



Organic SPE Automated Extractor Systems

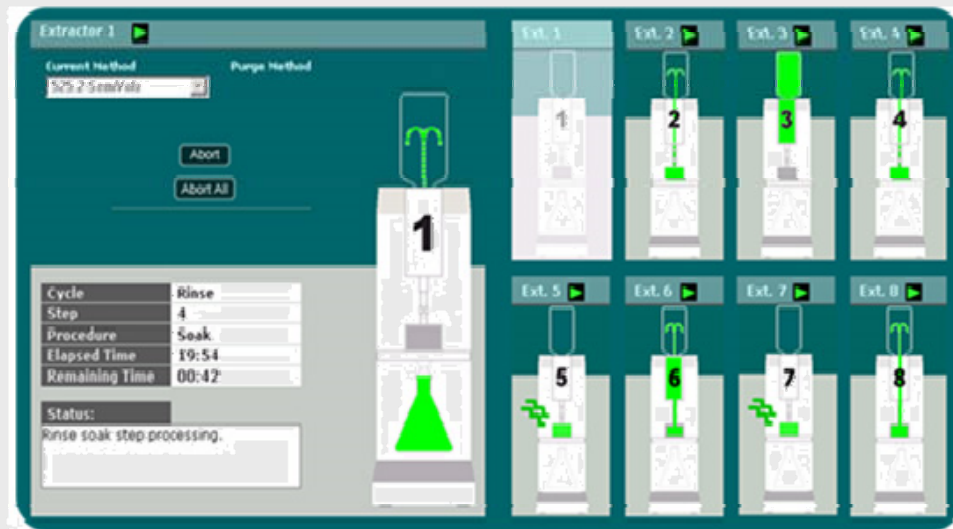
SPE-DEX® 4790 Extractor



SPE-DEX® 4790 Extractor System



Envision™ Controller



SPE-DEX 1000XL



SPE-DEX 3000XL



Oil and Grease Analysis – EPA Method 1664A
n-Hexane Extractable Material

Speed-Vap
Solvent Evaporator System



Rapid Evaporation of N-Hexane

Solvent Trap
Solvent Recovery System



Captures the n-Hexane Solvent Vapors



DryDisk Separation Membrane

PTFE Membrane Physically Removes Residual Water from Organic Solvents





DryVap Concentrator System





Reclaimer – Solvent Recovery System



- Drinking Water / Wastewater / Surface Water / Process Water / Sea Water / Foods & Beverages
 - Government and State Health & Environmental Labs
 - Municipalities
 - Commercial Labs
 - Industries; Petrochemical, Chemical, Manufacturing
 - Power Utilities
 - Food Labs

- Drinking Water (500 series)
- Waste Water (600 series)
- Oil & Grease (1664A)
- SW - 846 (3535A)
- Radionuclides
- Metals (transition)

<u>EPA Method #</u>	<u>Class of Compounds</u>
506	Phthalates
508.1	Semivolatiles
515.1	Chlorinated Herbicides
525.2	Semivolatiles (MS)
548	Paraquat / Diquat
549	Endothall
550.1	PAH's
552.1	Haloacetic Acids

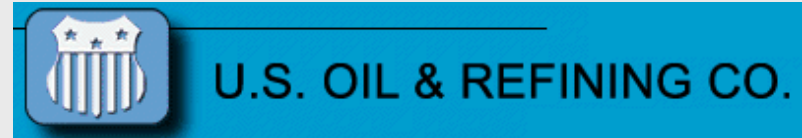
<u>EPA Method #</u>	<u>Class of Compounds</u>
608	Chlorinated Pesticides and PCB's
1613	Dioxin
1664A	Oil and Grease / Non-Polar Materials
1668A	Congener PCB's

<u>EPA Method #</u>	<u>Class of Compounds</u>
8061	Phthalate esters
8081	Organochlorine pesticides
8081	TCLP organochlorine pesticides
8082	PCB's
8095	Explosives
8141	Organophosphorus pesticides
8270	TCLP semivolatiles
8321	TCLP phenoxyacid herbicides
8330	Nitroaromatics / nitramines

- TPH / OIW – Total Petroleum Hydrocarbons
& Oil in Water
- SPE – IR for Off-Shore Oil Platforms
- GRO's and DRO's (Gas and Diesel Range Organics)
- Dioxin
- Endocrine Disruptors
- Pharmaceutical By-Products
- Microcystin



Some of Horizon Technology's Chemical & Petro-Chemical Customers



- To provide complete automated sample prep solutions (hardware and consumables) to our customers
- To provide a complete line of lot certified SPE disks and prefilters for the organic and inorganic applications
- To establish strong joint collaborations with local distributors for quality service and support
- To continually design and develop new systems that fill a need in the market place



Questions?

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