

**SAMPLE LINES  
FOR  
PROCESS ANALYZERS**

# **DEKORON UNITHERM UMBILICALS BUNDLES FOR PROCESS ANALYZERS**

Two factors are pushing and pulling all industry today.

Customers demand new products, require faster turnaround and lower costs.

Regulations require tighter control, less pollution, and better use of raw materials.

Meeting these factors requires new processes with increased speed and accuracy.

Monitoring the process is critical.

A key in this system is the sample transport line.

A poorly designed sample umbilical can result in contamination, loss of sample, and poor system response.



## **DEKORON<sup>®</sup> UNITHERM<sup>™</sup>**

- **THE WIDEST RANGE OF HEATED SAMPLE LINES IN THE INDUSTRY**
- **BUILDING COMPLEX ANALYZER UMBILICALS FOR OVER 50 YEARS**
- **LINES FROM 1 FOOT TO 1000 FEET CONTINUOUS**
- **ELECTRIC, STEAM, HOT WATER, HOT OIL HEATING**
- **NOT LIMITED TO A SINGLE HEATER TYPE OR MANUFACTURER**
- **DESIGNS FOR ORDINARY AND HAZARDOUS LOCATIONS**
- **QUOTE-TO-DELIVERY TIME IS THE BEST IN THE BUSINESS**
- **PLUG-AND PLAY DESIGNS FOR CUSTOMER'S SYSTEM**

## Heated Analyzer Sample Lines for all Industries:

### Tubing Materials:

- PFA, PTFE, FEP fluoropolymers
- 304L, 316/316L Austenitic Stainless Steels
- Duplex stainless steels
- Corrosion resistant grades (6Mo, Hastelloy®, Inconel®, Incalloy®, Monel and others)
- Conditioned tubes for low NOx / Low THC applications

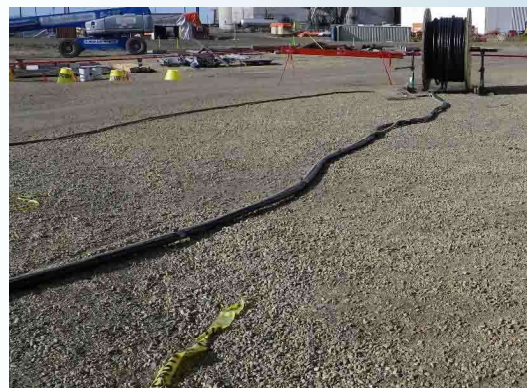


### Tubing Types and Treatments:

- Welded and seamless metal tubes
- Conditioned fluoropolymers for low NOx and low THC applications
- Semiconductor grade tubing
- Electropolished tubing
- SilcoTek® coatings on standard and electropolished tubes

### The Dekoron Unitherm Advantage:

- Carrier tube bundles allow multiple applications and multiple heaters used with same bundle.
- Long continuous lengths for big jobs, short custom lengths for labs and test cells.
- Continuous extruded outer jackets for weather and chemical protection and easier installation.



### Designs for Mercury, Sulfur, SCR's, Scrubbers

- Tubing to meet critical requirements
  - Conditioned fluoropolymer tubing
  - Seamless stainless steel
  - Electropolished grades
  - SilcoTek® coatings
- Long continuous, splice-free lengths
- Heaters designed for high temperature operation
- High efficiency insulation for smaller bundle OD's
- Weather and chemical resistant outer jackets

## Sample Lines for Air and Water Quality Monitoring, Perimeter Monitoring

- Freeze Protection, Low Temperature and Dew Point temperature models
- Continuous extruded outer jacket weather and chemical resistant
- Tubing materials selected to meet specific monitoring application
- Communications lines for remote monitoring



## Meeting Requirements for Critical Applications

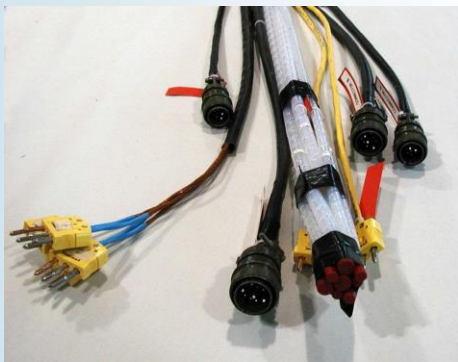
- Food and pharmaceutical grade tubing
- Sanitary fittings available
- Steam-in-Place / Clean-in-Place outer jackets available
- Outer Jacket smooth, reduces sites for contamination
- Small diameter for ease of installation

## Special Lines for Regulatory Compliance

- Stationary Engine Testing or mobile monitoring
- Marine monitoring of SO<sub>x</sub>, NO<sub>x</sub>
- Certified to meet 10CFR40 and USCG standards
- Products designed specifically for users systems
- Plug-and-Play installation



## Sample Lines Designed for Your Equipment



- Tubing extended for easy connection
- Connectors mated to equipment
- All sensor types available
- Heated and unheated tubing
- Special tube end connections available
- Corrosion resistant metal tube stubs if requested
- Easy link-up to installed equipment

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**Your Local Representative:**