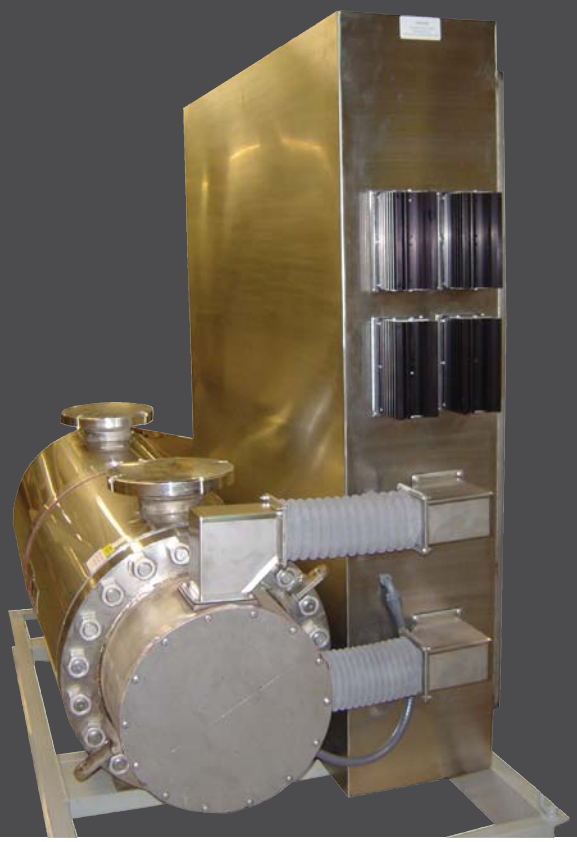
INDEECO®

LUNCH & LEARN



"Learning is an experience.
Everything else is just information." - *Albert Einstein*

425 Hanley Industrial Court, St. Louis, MO 63144 • sales@indeeco.com • www.indeeco.com • 314-644-4300

LUNCH & LEARN

General

1-A Electric Heat for Industrial Processes — **60 min**

Introduction to types of heaters, thermal design, applications, basic tips and troubleshooting.

1-B Application Overviews — **60 min**

A deeper dive into common electric heat applications. This presentation can be tailored to specific applications upon request.

1-C Protecting Terminal End Seals from Overheating — **30 min**

Advise on selecting the best terminal end seals for air and liquid applications, focuses on balancing moisture resistance with cost and temperature limits. Includes a discussion of the impact of insulation, cold sections and stand offs on terminal temperatures.

1-D Maximizing Heater Life — **50 min**

Tips on prolonging heater life through regular maintenance, and starting your heater after long periods of inactivity or storage.

1-E Calculating kW for various applications — **30 min**

1-F Using the Corrosion Guide for Watt Density & Material Selection — **50 min**

1-G Basic Heater Troubleshooting Techniques — **50 min**

1-H Considerations for Explosion Resistant Heater Applications — **50 min**

Process Air Heaters

2-A High Temperature Gas Heating — **50 min**

Selecting the best construction type (tubular, finned tubular, open coil) and control options for various applications.

Impedance

3-A Understanding Impedance pipeline heating — **50 min**

A discussion of the benefits and advantages of impedance heating, touching on some of the common applications.

Elements

4-A Introduction to Electric Heating Elements — **30 min**

Overview of the 3 primary types of elements (tubular, finned tubular, open coil) used in industrial applications, and how to select the best solution for your application.

Circulation Heaters

5-A Minimizing the Cost of Your Circulation Heater — **30 min**

Balancing watt density vs. life expectancy, the role of baffles in a circulation heater system, material selection, and cost impact of these decisions.

5-B Testing and Agency Approvals — **30 min**

Presentation on Non-Destructive Testing (NDT), Positive Material Identification and ASME certification.

5-C Seismic and Wind Load Calculations — **30 min**

A brief introduction to design considerations.

Immersion Heaters

6-A Freeze Protecting Water Tanks — **30 min**

6-B Maintaining Oil Tank Temperatures — **30 min**

6-C NEMA 7 Tank Heating — **30 min**

Controlling Electric Heaters

7-A Electric Heater Control Options — **60 min**

Introduction to control systems for electric heat including SCR, Vernier and basic on/off controls.

7-B Thermocouple Fundamentals — **30 min**

Examination of the standard types of thermocouples and selection criteria.

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*PDH credits available for all training sessions.