



## **Service Training School Agenda**

### **Day 1**

**8:00 Introductions / Agenda Review**

**8:15 Presentation – Company & Products Overview/Evolution Boiler**

**9:15 Plant Tour**

**9:30 Break**

**10:00 Apex Condensing Boiler**

### **Apex Condensing Boiler – Operation & Maintenance**

- Identify sensor & key component locations
- Maintenance
  - Burner Access & Cleaning
  - Heat Exchanger Access & Cleaning
- Startup
  - Supply Gas Press
  - Gas Piping
  - Vent System configuration / Material
  - Supply/Return Water Piping/Pump
- Combustion Setup
  - Adjusting Dungs Gas Valve / Combustion Settings
  - Identify testing locations and methods

**11:00 Amp Condensing Boiler**

- Amp Boiler Product Design Overview
- Identify sensor & key component locations
- Burner Access and Cleaning
- Heat Exchanger Access and Cleaning

**12:00 Lunch (catered in)**

**1:00 Tech Topics**

- Honeywell Flame Safeguard Fault Codes
- Airflow Problems
  - Relays – old style vs. new. How to change out
  - Fault Code “31” – Running Intlk
  - Combustion Air Switch (CAS)
- Common Field Service Issues
- Siemens Gas Valve Snubber Installation (high supply gas press)
- Siemens Gas Valve - Combustion Adjustments
- VFD History / Faults
- Understanding Wiring Diagrams
- RWF40 / RWF55 Programming
- Identify Key Devices

**3:30 Evolution - Factory Firetest**

**4:15 Questions & Review**

**5:30 Social Hour**

**6:30 Group Dinner**

## Day 2

### **8:00 Review Previous Days Topics**

### **8:15 Concert Control**

- Power Point Presentation – Concert Control Overview
  - Navigating the Concert Display
  - How to adjust the Central heating, Domestic hot water and high limit set point from display
  - How to adjust outdoor reset menu parameters
  - How to adjust the Central heating setpoint temperature parameters
  - How to setup and tune the boilers response time, proportional rate, Central heat Low fire hold time and firing rate
  - How to program single and multiple boilers
  - How to adjust the pumps menu parameters
  - How to set up Eco Propel parameters
  - External inputs & BMS menu parameters
  - **Troubleshooting boiler alarms**

### **9:00 Arctic Condensing Boiler**

- Identify sensor & key component locations
- Maintenance
  - Burner Removal & Cleaning
  - Heat Exchanger Access & Cleaning
- Startup
  - Supply Gas Press
  - Gas Piping
  - Vent System configuration / Material
  - Supply/Return Water Piping/Pump
- Combustion Setup - Firetest
  - Adjusting Dungs Gas Valve / Combustion Settings
  - Use of Exhaust Gas Analyzer
  - Identify testing locations and methods

### **9:45 Break**



## **10:00 Thermal Solutions Boiler Control (TSBC)**

- Menu Access & Options
- Setup & Basic Functions
- Expanded Functions
- Communication & Data Acquisition

## **11:00 Questions and Review**