SANYO Commercial Solutions
HVAC Solutions Group
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COURSE DESCRIPTION

As of Jan 1, 2009

COURSE: ECOi Service & Diagnostics

LOCATION OF TRAINING: Sanyo Kennesaw Georgia Training Facility, Sanyo Authorized Training facilities with Sanyo HVAC products installed/operational.

COURSE OVERVIEW: This training course focuses on Sanyo's ECOi Multi Split Variable Flow Refrigerant (VRF) system. Upon completion of this course participants should have attained the required skills to properly configure a system, install the system commission the system and to conduct in-depth service, trouble-shooting and diagnostics.

TIME REQUIRED: 1.0 Days

WHO SHOULD ATTEND: Our target audience includes HVAC contractors (technicians and installers) as well as our wholesale distributor technical staff members. Attendees should have a thorough understanding of air conditioning systems, refrigerants, installation and service procedures. Previous skills and knowledge of Sanyo's Split Ductless Inverter Driven products is a plus.

CLASS SIZE: Target class size is 10 - 15 individuals

GENERAL COURSE OUTLINE:

- Introduction of product (including models, capacities, voltages, etc.)
- Working with R-410a refrigerant
- Installation requirements and procedures including but not limited to:
    - Brazing of refrigerant lines/need for nitrogen purge
    - Selection and installation of refrigerant piping
    - Evacuation requirements
    - Refrigerant charging calculations and methodology
    - Installation and supporting of indoor and outdoor units
    - Installation/interfacing of accessory items
    - Required installation clearances
    - Power wiring requirements

    - Control wiring requirements
- Electrical Circuits
- Refrigerant Flow diagram
- Operating characteristics
- System commissioning including:
    - Pre start up checks and inspections
    - Sequence to start the system
    - Auto addressing of system
    - Controls programming
    - Post start up checks including voltage, amperage, pressure
- Fault codes, Servicing and Diagnostic procedures
- Hands-on Practical system operation, disassembly, troubleshooting
- Connection and use of Service Diagnostic Tool