

Silver Course Part 1

Heat Pump Application, Design and Installation

Module One: Heat Pump Application

Aim

The aim of this course is to ensure that course participants understand general heat pump theory, and how to correctly size, select and apply Mitsubishi Electric Heat Pump Systems.

Please note this course does not cover hands on physical installation content.

Contents

- Heat pump theory
- Inverter theory
- Heat pump efficiency
- General heat pump sizing calculations
- Low ambient degradation
- Heat pump types
- Heat pump noise
- Warranty

Module Duration:

Both Silver Level Accreditation Modules are completed simultaneously as a 6 hour course

Outcome

On completion of this course all participants will be:

- Able to understand heat pump theory
- Able to understand inverter theory
- Familiar with sizing methods calculations
- Aware of ambient de-rating and heat pump efficiency
- Able to size and apply Mitsubishi Electric Heat Pump products
- Aware of heat pump noise solutions
- Able to understand Mitsubishi Electric warranty conditions

Silver Course Part 2

Heat Pump Application, Design and Installation

Module Two: Heat Pump Installation

Aim

The aim of this course is to ensure that course participants understand general heat pump theory, and how to correctly size, select and apply Mitsubishi Electric Heat Pump Systems.

Please note this course does not cover hands on physical installation content.

Contents

- Planning a heat pump installation
- Indoor unit location
- Outdoor unit location
- Pipe work requirements
- Condensate drain
- Evacuation procedure and theory
- Electrical wiring and COC
- Commissioning and quality control
- Controls options

Module Duration:

Both Silver Level Accreditation Modules are completed simultaneously as a 6 hour course

Outcome

On completion of this course all participants will be:

- Able to install a Mitsubishi Electric Split Heat Pump System in a neat and professional manner
- Aware of and comply with COC and EWRB legal requirements
- Aware of and comply with all current pertinent local body requirements
- Able to commission an installation to ensure end user satisfaction