A2W 1: AIR TO WATER HEAT PUMP DESIGN AND SPECIFICATION

This course is aimed at the employees of our industry partners who are involved in the design and selection of Air to Water heat pump systems. The course is designed to give the attendee a full understanding of the principle of Air to Water heat pump operation and the basic requirements for the design and selection of the correct heat pump for a given installation. The course will include the following:

- A2W Heat pump operating principle covering the following:
  - (a) An explanation of the function of heat pump components
  - (b) Basic unit selection
  - (c) An explanation of possible thermal losses due to ambient conditions and defrosts operation
- An explanation of the Panasonic range of Air to water heat pumps. To include the following:
  - (a) Mono Bloc systems
  - (b) Bi Bloc systems
  - (c) High Connectivity systems
  - (d) Total Capacity systems
  - (e) High Temperature systems
- Different system applications including, radiator heating, under-floor heating, mixed system cooling and heating
- Detailed instructions on the operation of the Aquarea design software

The course will take place over one full day at our Bracknell Pro Academy.

A2W 2: AIR TO WATER HEAT PUMP COMMISSIONING AND MAINTENANCE

This course is aimed at the employees of our industry partners who have completed A2W level 1 and who are involved in the installation, commissioning, service and maintenance of Panasonic A2W heat pump systems. The course is designed to give the attendee a full understanding of the commissioning and maintenance procedures for Panasonic A2W heat pumps along with knowledge of fault-finding procedures. The course will include information of the following:

- Commissioning procedures for A2W heat pump systems
- Detailed explanation of heat pump internal refrigeration and water circuits
- Detailed explanation of heat pump operation focusing on possible error codes and fault-finding

The course will take place over one full day at our Bracknell Pro Academy.