



Product
And
Technical Training
Northern Region

2009

TOSHIBA AIRCONDITIONING

Advancing the **eco**-evolution

Toshiba Carrier UK Ltd is proud to be part of the United Technologies Corporation, a global group of companies built up of specialist industry leaders. Toshiba Air Conditioning is no exception.

Toshiba has a worldwide reputation for manufacturing innovative air conditioning products that are engineered to the highest standards and specialise in the manufacture of Split and VRF systems.

In 2004 Toshiba launched several new award winning R410A product ranges with superior energy efficiency and indoor air quality features; Toshiba's record of innovation continued through 2007 and 2008, with further improvements and enhancement to our range of products.

The training programme for 2009 contains four primary courses, these being;

An introduction to Toshiba Products	–	One day
A complete course covering Residential and Commercial Products	-	One day
A complete course covering VRF Products (Covering basic control options)	-	One day
Control options, selection and installation	-	One day

In addition to the “Core” courses outlined above we can offer a wide range of speciality courses, details can be found within this publication.

All of our courses have been devised to ensure that we offer our customers the product and development training they need. It also confirms our support to the industry in ensuring that high levels of professionalism are encouraged and maintained.

Delegates attending these courses will receive detailed course notes, a certificate of achievement, refreshments and lunch – all free of charge.

We are confident that you will find a course to suit you and your colleagues or staff requirements.

To register your interest in a course, simply contact your local Toshiba Distributor. Alternatively contact Peter Bradley UK Technical Manager to discuss your requirements on;

Tel: 07712 790885 or via email: technical.enquiries@toshiba-ac.com

Module 1



An introduction to the complete range Toshiba Air Conditioning systems

This module is suitable for anyone who is not familiar with the latest Toshiba air conditioning R410A products.

Residential Range.

- Ø Daisekai range of single and multi splits.
- Ø Single systems, high wall, Console / Under Ceiling.
- Ø Multi split systems, high wall and ducted.

Commercial Range.

- Ø Digital Inverter
- Ø Super Digital Inverter

VRF Range.

- Ø MINI-SMMS, two pipe heat pump, 4,5,6 Hp
- Ø SMMS, two pipe heat pump, 5 – 48 Hp
- Ø SHRM, three pipe heat recovery, 8 – 30 Hp

- Ø Over 80+ indoor units compatible with the three options above.

- Ø Control options

Module 2



An in-depth course covering Installation, Commissioning, Service and Maintenance of the Toshiba residential and commercial R410A products

This module is **theory based** and is aimed at installation, commissioning and service engineers, with a prior knowledge of air conditioning products and the principles of air conditioning.

This course covers;

- Ø Product overview
- Ø Refrigeration circuitry, R410A refrigerant and current legislation, pressure testing, dehydration and refrigerant charging.
- Ø Electrical circuitry, including Inverter technology
- Ø Commissioning
- Ø Service and maintenance requirements
- Ø Component layout and faultfinding including data retrieval.
- Ø Overview of Control options, including ancillary devices.

Upon satisfactory completion of a written examination a certificate of achievement will be awarded

Training will commence at 9.30 am and conclude at 4.30 pm. Course notes and refreshments will be provided free-of-charge

Module 3



An in-depth course on Toshiba VRF equipment,

This module is **theory based** and is aimed at installation, commissioning and service engineers, with a prior knowledge of VRF air conditioning equipment and the principles of air conditioning.

- Ø Product overview
- Ø Installation, Refrigeration circuitry, R410A refrigerant and current legislation, pressure testing, dehydration and refrigerant charging.
- Ø Electrical installation.
- Ø Commissioning the systems.
- Ø Service and maintenance requirements.
- Ø Data retrieval and service functions.
- Ø Component testing
- Ø Fault finding including fault codes
- Ø Overview of Control options and ancillary controls.

Upon satisfactory completion of a written examination, a certificate of achievement will be awarded

Training will commence at 9.30 am and conclude at 4.30 pm. Course notes and refreshments will be provided free-of-charge.

Module 4

An in-depth course covering Selection, Installation, Commissioning and Maintenance of the Toshiba Air Conditioning Control Options

This module is theory based and is aimed at installation, commissioning and service engineers, with a prior knowledge of air conditioning products and the principles of air conditioning.

This course covers;

- Ø Product overview
- Ø Options available within the Controls Group
- Ø Installation
- Ø Commissioning
- Ø Maintenance requirements
- Ø Component layout and faultfinding including data retrieval.
- Ø Ancillary devices.

Upon satisfactory completion of a written examination a certificate of achievement will be awarded

Training will commence at 9.30 am and conclude at 4.30 pm. Course notes and refreshments will be provided free-of-charge

In addition to our “Core” courses for 2009, Toshiba Air Conditioning can offer, on request the following courses, a minimum quantity of delegates would be required, details available on request.

- Ø An introduction to the Toshiba air conditioning VRF range of products Including the correct operation of the Toshiba VRF selection software. This course includes the basics of designing a VRF installation, selection and application of equipment.
LOAD CALCULATION IS NOT INCLUDED **Course reference “R410A Design”**

- Ø An in-depth course on Commissioning, Service and maintenance of the Toshiba R407C split range of air conditioning products. This course is theory based and is aimed at, service and maintenance engineers with a prior knowledge of air conditioning. **Course reference “R407C Splits”**

- Ø An in-depth course on Commissioning, Service and Maintenance of the Toshiba R407C VRF range of air conditioning products. This course is theory based and is aimed at, service and maintenance engineers with a prior knowledge of air conditioning. **Course reference “R407C VRF”**

- Ø **Specific nature courses, for bespoke course please contact Toshiba training department**

All courses, can be held, (subject to quantities of delegates), at the customers own premises, (Subject to suitable facilities), distributor premises or our bespoke European Training Facility located in Leatherhead.

For the dates of courses in your area, please contact your local Toshiba Air Conditioning distributor, or alternatively contact Toshiba on;

0870 843 0333 or via e-mail at technical.enquiries@toshiba-ac.com

Toshiba Carrier UK limited will not be liable for travel or accommodation cost's unless authorised in Writing by TCUK Limited, prior to the scheduled dates.

All courses are one day in duration and will commence at 9.30 am and conclude at 4.30 pm. Course notes and refreshments will be provided free-of-charge

Scheduled training courses being held at one of our distributors in your area.

2009		
Module	Month	Date
TBA	February	24 th
TBA		25 th
National Account	VRF	26 th
TBA	March	10 th
TBA		11 th
National Account	Splits	12 th
TBA		24 th
TBA		25 th
TBA		26 th
TBA	April	7 th
TBA		8 th
TBA		9 th
TBA		21 st
TBA		22 nd
National Account	VRF	23 rd

Above dates are subject to suitable quantities, TCUK reserve the right to amend or cancel the above at any time.

Please note, all Toshiba air conditioning courses are free of charge, however we do implement a £50 fee for non attendance or cancellation within 48 hours of the scheduled course.

For companies with direct accounts at Toshiba air conditioning a purchase order to the value of £50 per head, would need to accompany your request. For companies without a direct account please contact your Toshiba distributor.

Toshiba products are supplied by:

Cool Solutions Distribution Ltd

Units 9 & 10 Station Way

Leeds

West Yorkshire

LS12 3HQ

Tel: 0113 2799520 Fax: 0113 2793514 E-mail: sales@csd-ltd.net

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