



Daikin UK portfolio 2011

With more than 50 years experience in the production of heat pumps, Daikin is still at the forefront of the drive for energy efficient technology. The systems are manufactured entirely 'in-house' in Daikin's state of the art factories – this includes the all important energy efficient inverter driven compressor unit.

DAIKIN – the leader in manufacturing quality and customer service. Daikin was founded in 1924 in Osaka, Japan. The company we now know as Daikin Industries Ltd (DIL) is the parent company of Daikin Europe N.V. (DENV) which was established in Ostend, Belgium in 1972.

Daikin Europe is continuously updating and expanding its manufacturing facilities, to a point where they are now acknowledged as the most advanced in their field in Europe. This is backed by zero defect production, efficient supply chain management and unrivalled research and development support from DIL.

These substantial production facilities are underpinned by a network of wholly owned affiliate companies in the UK, France, Germany, Italy, Spain, Portugal, Poland, Greece, Belgium, Holland and Central Europe. There are also numerous independent distributors throughout Europe, Africa and the Middle East.

Daikin UK

As one of many wholly owned affiliate companies, Daikin UK is a leading supplier of heating, cooling and refrigeration solutions for commercial, residential and industrial applications. Our product portfolio comprises a wide range of highly energy efficient climate control systems which provides the public and private sectors with the right product for any application and requirement.

- ✓ **State of the art direct expansion air conditioning**
- ✓ **Heat pump residential and light commercial heating, domestic hot water and cooling**
- ✓ **Applied central cooling and heating**
- ✓ **Medium to low temperature refrigeration**
- ✓ **Heat recovery ventilation**

Commitment to the environment

Daikin has an enviable record in concern for environmental issues and applies it to all areas of the business, implementing and in many cases pre-empting, international and local environmental protective legislation.

This commitment is reflected in three areas:

1. Reducing waste in manufacturing and operations
2. Recycling materials and equipment
3. Designing and producing energy-efficient climate control equipment

Reducing waste and recycling

At the factory

- Wastewater is treated before being discharged into the city drainage system, with the recovered sludge being a useful ingredient in cement manufacturing
- Other waste is also carefully sorted and recycled, supported by a continually evolving factory layout that encourages the optimum use of resources
- Returnable packaging is invested in where possible
- ISO 9001 approved for quality management
- ISO 14001 approved for environmental management

Reducing waste and recycling

In the UK

- ISO 9001 approved for quality management
- ISO 14001 approved for environmental management
- All printed sales literature is made using recycled, FSC certified paper and printers

Recycling equipment

Despite the WEEE directive 2002/96/EC not currently including fixed air conditioning, when installing Daikin up to 95% of the redundant equipment can be reprocessed by an authorised WEEE recycler.

Once collected from site, the end of life air conditioning equipment will be transported to a recycling facility, where it is dismantled in such a way that any hazardous substances are destroyed or reprocessed. This service is available to all installers of Daikin equipment, regardless of the manufacturer of the redundant units.

Daikin wins awards

➤ **Winner** | Cooling Industry Awards 2004

Environmental Pioneer in Air Conditioning for Daikin VRV®II

➤ **Winner** | Cooling Industry Awards 2006

Environmental Product of the Year for Daikin Conveni-Pack

➤ **Finalist** | Green Business Awards 2007

Best Leadership Driving Change for Recycling Service for End of Life Air Con Units

➤ **Winner** | International Green Apple Environmental Best Practice Awards 2007

National Gold Award for Recycling Service for End of Life Air Con Units

➤ **Finalist** | Cooling Industry Awards 2007

Retail Installation of the Year for Conveni-Pack in Co-op Store

➤ **Finalist** | H&V News Awards 2008

Environmental Initiative of the Year for Recycling Service for End of Life Air Con Units

➤ **Winner** | H&V News 2008

Air Conditioning Product of the Year Award 2008 for Daikin VRV®III Heat Recovery

➤ **Highly Commended** | The Cooling Industry Awards 2009

Environmental Collaboration Award for Daikin VRV®III Heat Recovery and Biddle Air Curtains

➤ **Finalist** | The ACR Awards 2009

Training Initiative of the Year for Joint Initiative with City of Bath College

➤ **Winner** | H&V News Awards 2009

Air Movement Product of the Year Award for Daikin VRV®III Heat Recovery and Biddle Air Curtains

➤ **Finalist** | Sustain Magazine Awards 2010

Product of the Year for Daikin VRV®III Heat Recovery and Biddle Air Curtains

➤ **Finalist** | Sustain Magazine Awards 2010

Product of the Year for Daikin Altherma High Temperature

➤ **Finalist** | CIBSE Low Carbon Performance Awards 2010

Product of the Year for Daikin Altherma HT



Daikin services

Aftersales technical helpdesk

The highly skilled engineers on our after sales technical helpdesk are dedicated to helping you with onsite enquiries quickly and accurately.

The helpdesk teams are on hand to assist with installation, commissioning and fault-finding related issues. For application and product specification related issues, please contact your local Daikin sales office.

Spare parts

- Dedicated spare parts team to assist you identify and purchase the correct spare part
- Availability and speed of delivery are paramount, enabling you to improve your service levels to your customers

Warranty

- Dedicated warranty team to assist you with your warranty claims
- 'No fuss warranty' procedure can speed up the process as all you need to do is make a claim over the phone
- To process a claim simply call the warranty hotline on 0845 641 9275

Training

- Training courses are available within our purpose built centres based in Birmingham, Bristol, Glasgow, Manchester and Woking
- All training is given by highly skilled engineers who will be able to provide you with an extensive in depth knowledge of our equipment

Commissioning

- We offer commissioning to our customers on all Daikin manufactured products
- Give you the confidence that the systems are running satisfactorily when we leave site

Trouble shooting

- Trouble shooting service includes site inspections and assessments to whatever degree necessary

Equipment health check

- It is Daikin's aim to work closely together with its customers in order to maximise operational efficiency of all Daikin equipment
- Daikin's Equipment health check agreements for either 1-2 or 4 visits a year on any of our current products



Daikin Split and Sky Air



Model types

OUTDOORS

- Heat pump inverter
- Cooling only inverter

INDOORS

- Wall mounted
- Floor standing (standard & radiant heat panel)
- Flexi type
- Under ceiling mounted (suspended & cassette)
- Round flow cassette
- Standard 4 way cassette
- Ducted
- Air curtains (exposed, cassette, recessed)

Capacities

- Split systems: 2kW – 7.1kW
- Multi split systems: 4kW – 15.5kW
- Sky air systems: 7.1kW – 25kW
- Twin / Triple / Double twin applications: 7.1kW – 25kW

Unique features

- ★ Largest product range
- ★ High energy efficiency
- ★ Very low noise levels
- ★ Wide operating range
- ★ Comms rooms application
- ★ Re-use existing R22 and R-407C piping
- ★ Ururu humidity control
- ★ Emura European design
- ★ Nexura floor standing unit with radiant heat panel
- ★ Weekly timer on infrared controller
- ★ Seasonal efficiency Inverter range
- ★ Round flow cassette concept
- ★ Self cleaning cassette concept
- ★ Inverter fan ducted units
- ★ Air curtains solution

Applications target

- Offices
- Restaurants
- Residential
- Retails & shops
- Small commercial

Daikin VRV®

Model types

OUTDOORS

- Heat pump inverter (Compact & High COP)
- Heat recovery inverter (Compact & High COP)
- Water cooled inverter (Heat Pump & Heat Recovery)
- Geothermal water cooled inverter (Heat Pump & Heat Recovery)
- Replacement VRV® inverter (Heat Pump & Heat Recovery)

INDOORS

- Round flow cassette
- Standard cassette (2 way / 1 way corner)
- 600 x 600 cassette (4 way)
- Under ceiling mounted (suspended & cassette)
- Ducted (slim type, standard and high static)
- Wall mounted
- Floor mounted (cassis and cased)
- Air curtains (exposed, cassette, recessed)
- Hot water module

Capacities

- Heat pump: 4HP (11kW) – 54HP (147kW)
- Heat recovery: 8HP (22kW) – 48HP (135kW)
- Water cooled: 8HP (22kW) – 30HP (80kW)
- Replacement VRV®: 5HP (14kW) – 30HP (85kW)

Unique features

- ★ Highest COP in the market
- ★ High efficiency during heat recovery operation
- ★ Largest range in the market
- ★ Longest pipe runs
- ★ Continued heating during defrost
- ★ Temp. range down to -20°C ambient
- ★ Hot water connection
- ★ Door curtain connection
- ★ AHU connection
- ★ Comms rooms connection
- ★ R-22 systems replacement keeping existing piping and indoor units
- ★ Massive control capabilities

Applications target

- Small & large offices
- Commercial
- Hospitals
- Government
- High end residential
- Hotels



Daikin air handling units

Model types

- Supply only
- Supply & extract
- Heat recovery

Capacities

- 150 m³/hr – 9000 m³/hr

Unique features

- ★ Large product range
- ★ Low noise levels
- ★ Flexible solutions
- ★ Plug and play controls
- ★ Combinable with Splits & VRV®
- ★ 3 & 5 year warranty options

Applications target

- Offices
- Shops
- Government
- Hotels
- Commercial



Daikin packaged



Model types

OUTDOORS

- ERQ heat pump inverter outdoors for pair application with AHU models
- ERAD – cooling only outdoors for pair application with AHU models
- UATYQ rooftop heat pump
- UATYP rooftop heat pump

Capacities

- ERQ: 10kW – 25kW
- ERAD-E: 116kW – 488kW
- UATYQ: 27kW – 73kW
- UATYP: 101kW – 110kW

Applications target

- Offices
- Warehouses
- Shops
- Showrooms
- Commercial

Unique features

ERQ

- ★ Inverter controlled heat pump
- ★ High efficiency
- ★ Large capacity range
- ★ Ventilation and air conditioning in one solution
- ★ Wide operating range
- ★ Flexible control possibilities

ERAD

- ★ R134A refrigerant
- ★ High efficiency
- ★ Large capacity range
- ★ Ventilation and air conditioning in one solution
- ★ Wide operating range

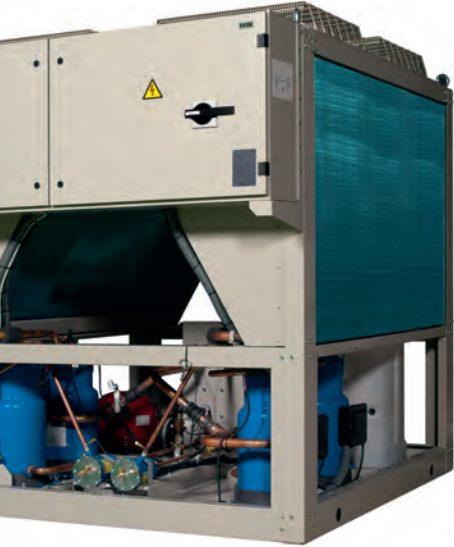
UATYQ

- ★ R-410A refrigerant
- ★ High efficiency system
- ★ Wide operating range
- ★ High flexibility
- ★ Convertible return and supply air
- ★ Integration to centralised control systems (ITC, I-Manager)

UATYP

- ★ R-407C refrigerant
- ★ High flexibility

Daikin chillers



Model types

- Air cooled
- Water cooled
- Condenserless

Capacities

- Air cooled 5kW – 2010kW
Cooling only
- Heat pump 5kW – 583kW
- Water cooled 12kW – 2196kW
- Condenserless 12kW – 1422kW

Compressor types

- Inverter swing compressors
- Inverter screw compressors
- Multi scroll compressors
- Screw compressors
- Centrifugal compressors

Unique features

- ★ Largest product range
- ★ Inverter compressors
- ★ Heat recovery options
- ★ High ESEER's
- ★ Very low noise levels
- ★ Flexible solutions
- ★ Small footprints
- ★ Plug and play controls
- ★ Great range of accessories
- ★ 3 Year warranty
- ★ Commissioning services
- ★ Maintenance packages

Applications target

- Offices
- Hospitals
- Government
- Hotels
- Commercial
- Process cooling
- District heating
- Ice rinks
- Wineries

Daikin refrigeration

Model types

- Medium temperature Zeas CCU
- Low temperature Zeas CCU
- Medium temperature with heating/cooling CVP-R407C
- Medium temperature with heating/cooling CVP-R410A

Capacities

- CVP-R407C Refrigeration 9kW-17kW
Evap. -0°C to -8°C, Ambient. A/C heating 25kW, A/C cooling 14kW-23kW
- Zeas medium temperature (-10°C@32°C) 12.2kW-37kW
- Zeas low temperature (-30°C@32°C) 6.54kW-19.6kW
- CVP-R410A refrigeration 9kW-21kW
Heating 30kW, A/C cooling 16kW-30kW

Main features

- Flexible installation
- Pipe-runs up to 100m for Conveni-Pack and 130m for Zeas
- Low noise
- Small footprint
- CVP-R407C is an award winning combined refrigeration & A/C plant
- Cassette, ducted or door curtain, indoor unit connections for CVP-R407C
- Up to 40% energy savings for CVP-R407C

Unique features

- ★ The only products of their type currently on the market
- ★ CVP-R407C AND CVP-R410A are heat recovery/refrigeration combined systems
- ★ Zeas are multi-compressor systems, using DC inverter scroll compressors & R410A Refrigerant
- ★ The use of Daikin new technology systems significantly reduce power consumption and require lower mains power supply, often negating the need for a site power upgrade
- ★ Design and commissioning for heat recovery systems is carried out by Daikin

Applications target

- Small / medium supermarkets
- Convenience stores
- Petrol filling stations
- Coldroom suites
- Food processing



Daikin Altherma air to water heat pump

Model types

OUTDOORS

- Split low temperature (heating only, heating and cooling)
- Monobloc low temperature (heating only, heating and cooling)
- High temperature (heating only)
- Flex Type for apartments and community heating

INDOORS

- Split low temperature – Wall mounted and floor standing hydrobox
- High temperature – Floor standing hydrobox

Capacities

- Split low temperature 6kW – 16kW
- Monobloc low temperature 6kW – 16kW
- High temperature 11kW – 16kW

Unique features

- ★ Comprehensive and flexible product range
- ★ Complete packaged system with all controls and hydraulic components included
- ★ Can be connected to solar thermal systems
- ★ All system components supplied by one manufacturer

Main features

- High sCOP's – 3 to 5 times more efficient than traditional fossil fuel boilers
- Low noise and unobtrusive
- Inverter compressor and weather compensation built in as standard
- Compatible with UFH, radiators and fan convectors
- Satisfies all heating and hot water requirements all year round
- Technology certified under MCS and Ecolabel Scheme

Applications target

- Houses and flats
- Self build
- For direct boiler replacement
- Nurseries
- Government building with UFH
- New build
- Refurbishment
- Conversions
- Care homes
- Ideal for off the gas grid properties



Daikin solar thermal systems

Solar collectors

- High efficiency flat plate collectors
- Highly selective coating
- Robust collector design
- Quick and easy connection of collectors

Types of systems

STAND ALONE SYSTEMS

- A complete ready to install pressurised indirect system including: solar collector(s), pump station and fixing kit
- Available in predefined packs for easy selection
- Can be used with any secondary heat source, including a heat pump

SOLAR THERMAL SYSTEM FOR DAIKIN ALTHERMA LOW TEMPERATURE

- Pressurised indirect system
- Specially designed interface kit transfers the solar heat into the Daikin hot water cylinder via an external heat exchanger
- On-roof, in-roof and A-frame mounting solutions
- Solar energy prioritisation

Main features

- Intelligent control for optimum utilisation of the solar energy
- Solar collectors are Solar Keymark Certified
- A complete renewable packaged solution from a single manufacturer, Daikin
- Government scheme for end users offering 5% VAT for domestic applications

Applications target

- New build
- Self build
- Refurbishment



Daikin – expanding the heating range

Underfloor heating

Main features

- Uses low flow temperatures
- Perfect partner for heat pumps
- Provides maximum comfort
- Unobtrusive and very low maintenance

Fixing systems

- Five different types of extruded polystyrene sheets
- Each with individual thermal, point loading and acoustic performance

Pipes

MONOPEX PEX-B

- Diameters 14-20mm
Aluminium version available too
- Very flexible and ideal for UFH applications

SYSTEM 70 (DUO DOUBLE WALLED PIPES)

- Two layers: (1) inner PEX-B pipe and (2) outer PE pipe which is separated by an air gap
- Ideal for mixed radiator / UFH systems

Manifolds

- Manufactured from high density polypropylene
- Available for 2-14 UFH loops
- Complete with pressure gauge, temperature gauges, isolating valves, air vents and flow meters



Daikin – expanding the heating range

GasSolarUnit



Main features

- Unique and innovative high specification renewable heating product
- Single unit including solar supported hot water and heating, and gas boiler back-up
- Instant mains pressure DHW for higher flow rates
- For use with drain back solar
- Efficient and high performing system with low running costs
- Vented thermal store – no G3 required for install

Model types

- Capacities of 300 and 500 lts
- Heating capacities of 20kW, 30kW and 35kW
- Suitable for Natural Gas and LPG

ROTEX

Daikin air purifiers



Unique features

- ★ Flash Streamer technology to decompose formaldehyde and allergens
- ★ Titanium Apatite Photocatalytic Filter to remove bacteria and viruses
- ★ Stylish design
- ★ Large air flow
- ★ Very quiet operation
- ★ Easy to clean

Model types

- Photocatalytic air purifier

Capacities

- Photocatalytic: Air flow rate (Turbo – Silent): 420m³/h – 60 m³/h

Applications target

- Home
- Office
- Hotel rooms
- Medical surgery
- Hospital rooms
- Meeting rooms
- Restaurants

Daikin control options

Control types

- Individual control systems
- Centralised control systems
- BMS network solutions

Individual control systems

- Wired
- Infrared
- Simplified remote control
- Simplified, built in for hotel applications

Centralised control systems

- Individual control of 128 zones of indoor units
- Individual control of 16 zones of indoor units

Network solutions

Intelligent Manager – The ideal solution for control and management of up to 1,024 VRV® indoor units.

Intelligent Controller – Allows detailed and easy monitoring and operation of VRV® systems – max 2 x 64 groups of indoor units.

Modus Controllers – Simple Modus protocol interface for Sky Air or VRV® fancoils.

BACnet Gateway – Interface for up to 250 units to BACnet compatible networks.

LonWorks® – Interface for Lon connection to LonWorks® networks.



For further information on any product, please call:

0845 641 9000

Energy efficient climate control equipment

- ✓ Combine maximising energy efficiency with maximum respect for the environment, this is the concept Daikin products reflect.
- ✓ Their utilisation of heat pump technology for example, results in far lower energy consumption and in the case of heating, drastically lower CO₂ emissions are achievable than with fossil fuel burning systems.
- ✓ Their incorporation of numerous detailed features such as heat recovery, inverter control, economy operating modes, movement sensors among others, enhance user comfort without compromise to either efficiency or the environment.







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FSC

Carbon
Balanced Paper



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units.

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