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www.dimplex.co.uk

Low carbon buildings programme phase 2 grant assistance





A name you can trust

For 60 years, Dimplex has been making life more comfortable, in more ways, in more places than any other company. Dimplex has long been the number one name in electric heating technology, having established an unmatched reputation for quality, reliability and innovation.

The Dimplex brand is well known in both the public and private sectors, particularly with local authorities, housing associations and major home builders where the brand has become synonymous with a commitment to excellence and customer satisfaction.



Our experience.

For Dimplex, there's nothing new about renewables. As part of the worldwide Glen Dimplex Group, Dimplex has been producing innovative heat pumps for over 30 years with thousands of installations throughout Europe. We are committed to developing heating solutions which utilise sustainable and renewable energy with the aim of reducing CO₂ emissions and its impact on the environment.

From its manufacturing plant in Kulmbach, Germany, Dimplex produces the widest range of heat pumps available on the UK market and leads the way in the development of energy efficient heat pump technologies.

Over the years, Dimplex has established strong relationships with its customers in all aspects of the construction and heating industries. Today Dimplex electric heating and heat pump systems are operating efficiently across the UK in both the private and public sectors including schools, offices, social housing and libraries.

No other company can provide the depth of range, expertise and service back-up for economical, sustainable heating systems.

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Dimplex and Low Carbon Buildings Programme Phase 2

Phase 2 of the Low Carbon Buildings Programme (LCBP2) provides £50 million of capital grant funding for the installation of various microgeneration technologies – including ground source heat pumps – by organisations in the UK public and not-for-profit sectors, including:

- Local authorities
- Housing associations
- Schools, college and universities
- Hospitals
- Libraries
- Public service organisations
- Environmental trusts
- Registered charities

The scheme is managed by the BRE and is open to organisations in England, Wales, Scotland and Northern Ireland.

50% grant funding

Under the LCBP2 scheme, Dimplex heat pumps are eligible for grant funding of 50% of the supply and installation cost, including:

- Heat pump and associated equipment
- Ground collectors and all associated ground works
- Design, installation and commissioning



DECC appointed

The requirements of the grant are that the products and installation services must be sourced through DECC (Department of Energy and Climate Change – formally BERR) appointed Framework Suppliers. Dimplex is an appointed Framework Supplier for ground source heat pumps, meaning that selected Dimplex ground source heat pumps and their installation are subject to grants of **50%** of the total installation cost.



Fixed prices for peace of mind

In addition to the available grant funding Dimplex has committed to fixed product costs for each heat pump under the grant scheme, so every project will enjoy the benefit of overall economy of scale provided by LCBP2.



Your project

In the initial stages of the project, Dimplex will work closely with you to define and specify the most suitable solution for your application, including assistance with heat pump and ground collector sizing and specifications as well as initial budgetary costs.

All products and installation services will be provided through our Approved Installer Partners. At the appropriate stage we will invite a selected installer (or installers if you prefer) to become involved with the detailed planning of the project and also to provide costed quotations. Dimplex will also provide you with assistance through the grant application process.



Approved Installation Partners



Heat pumps are one of the most efficient and economical heating systems available provided the individual components of the system – the heat source, the heat pump itself and the connected heating system – are properly matched.

In order to ensure the highest levels of quality and to provide peace of mind, Dimplex has an established network of Approved Heat Pump Installer Partners, all accredited under the Microgeneration Certification Scheme and fully trained and experienced in the installation, commissioning and after sales support of Dimplex heat pump products. Our list of installers has been approved by BRE as part of our Framework Agreement.



The Complete Solution

A key benefit of working with Dimplex is that together with our Approved Partners, we provide a complete 'one-stop-shop' solution, supplying not only heat pumps and ancillary equipment, but also:

- Technical consultancy and system specification
- Ground collectors sizing and array/borehole design
- Borehole drilling and ground collector installation
- System installation and commissioning
- Easy tie-in with existing contractual/supply chain relationships
- Full back-up and technical support

Why choose a ground source heat pump?

Using nature's energy

Heat pumps make a significant contribution towards solving the problem associated with increasingly scarce and evermore expensive energy resources, supplying more energy than they consume by tapping into the freely available, inexhaustible solar energy stored in the ground and converting this for use in a heating system.

A heat pump uses conventional refrigeration technology to absorb heat from the environment and then raises the refrigerant temperature to a level suitable for heating purposes. A heat exchanger extracts the heat from the refrigerant for use in the heating or hot water system.

A low carbon heating solution

Typically, for every kWh of electricity used to run the heat pump, around 4kWh of useful heat is provided, giving the heat pump an efficiency of up to 400%!

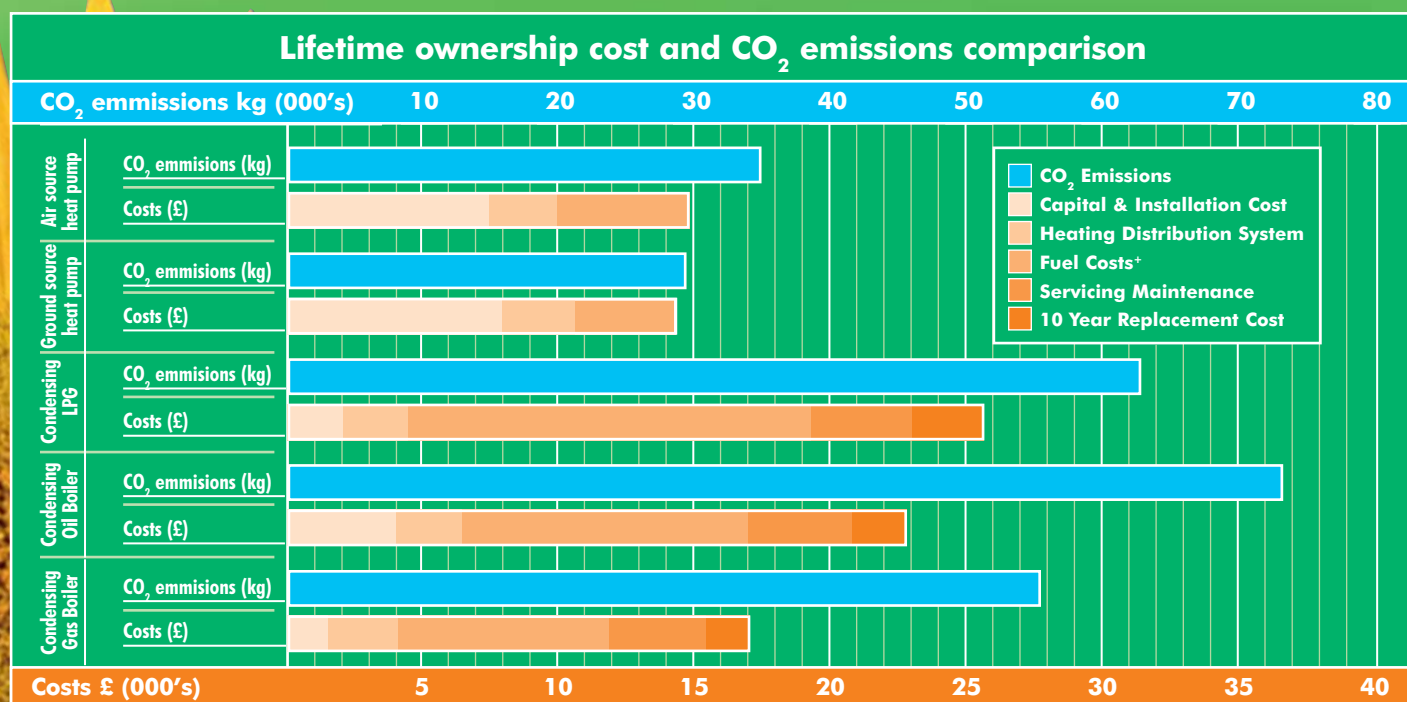
The contribution of up to 75% of the energy needed by the heating system being provided from the environment means that building carbon emissions for space and water heating are reduced by as much as 50% compared with gas fuelled heating systems, despite the higher carbon intensity of electricity compared to other fuels.

This is an obvious benefit when considering building regulations Part L compliance, PPS 22 planning obligations and EcoHomes / Code for Sustainable Homes ratings.

Low running costs Low ownership costs

The considerable contribution from renewable energy sources also helps to provide running cost savings over fossil fueled heating systems and arguably more importantly, future proofs the system against future energy price increases.

But fuel costs are only a part of the story. Unlike gas and oil based systems, heat pumps require no costly regular maintenance or annual safety inspections. And because a heat pump has a reasonable life expectancy of 20–25 years – typically twice that of a boiler – the investment costs are amortised over a longer period and the ownership costs over the working life of the system are demonstrably lower.



Figures compared over a 20 year period for space and water heating for a typical 3 bed semi detached home (new build)
* Fuel costs based on 2007 gas and electricity prices

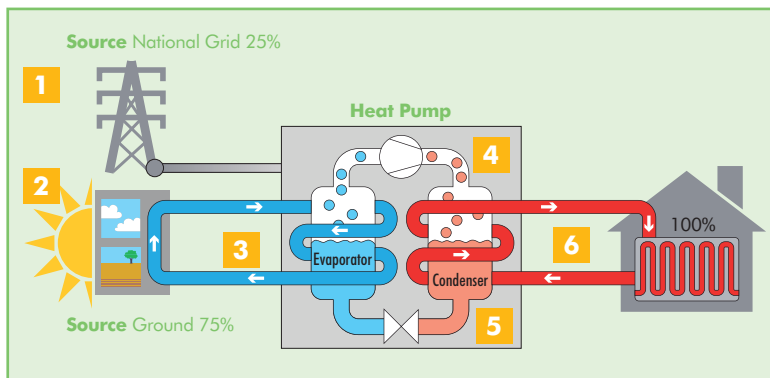
How do they work?

Our environment is full of energy – even at sub-zero temperatures. Heat pumps use conventional refrigeration technology to extract this energy stored in the environment and raise it to a temperature suitable for heating purposes.

There is nothing new about heat pumps, millions are installed globally each year, with the main markets being Scandinavia, Germany, France and Japan. Not forgetting we all have a heat pump in our homes already – the fridge in our kitchen works on exactly the same principal!

Super Efficient

A heat pump heating system consists of 3 components: the heat source, the heat pump itself and a heat distribution and storage system. Heat pumps are able to produce more energy than they consume by using the conventional refrigeration cycle to absorb heat from the environment and raise it to a suitable level for heating.



1. 25% of the energy is sourced from the national grid in the normal way of supplying your electricity. This is used to operate the heat pump but with very low consumption.
2. 75% of the energy is taken from the ground and transferred to the heat pump.
3. The energy from the ground is transferred to the refrigerant inside the heat pumps evaporator. This causes the temperature of the refrigerant to rise and change state from liquid to gas.
4. The refrigerant gas is then compressed, using an electrically driven compressor, reducing its volume but causing its temperature to rise significantly.
5. As the heat exchanger (condenser) then extracts the heat energy from the hot refrigerant to heat water for central heating or domestic hot water.
6. After giving up its heat energy the refrigerant turns back into a liquid and is able to absorb energy from the environment, allowing the cycle to begin again.

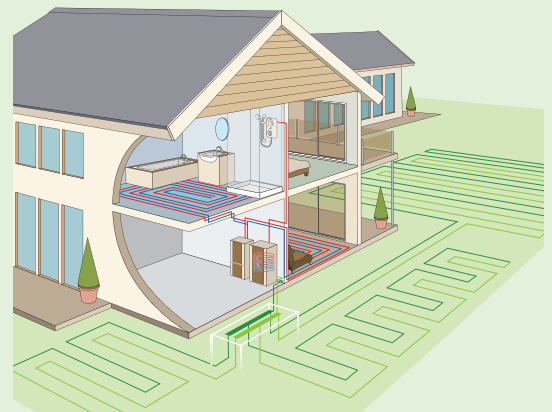
The heat pumps 'efficiency' is known as it's Co-efficient of Performance [CoP]. This is simply a ratio between the proportion of the total energy supplied that can be extracted from the environment and the amount supplied by electricity to run the heat pump. The higher the CoP, the more 'free' energy from the environment the heat pump is using.

Ground source heat pumps

Ground source heat pumps extract heat from the earth using collectors – consisting of plastic pipes – buried underground. A mixture of water and anti-freeze is circulated through the pipes, attracting heat energy and transferring it to the heat pump. Due to the temperature of the ground remaining relatively stable below the surface, ground source heat pumps are able to provide high levels of efficiency for space and water heating all year round.

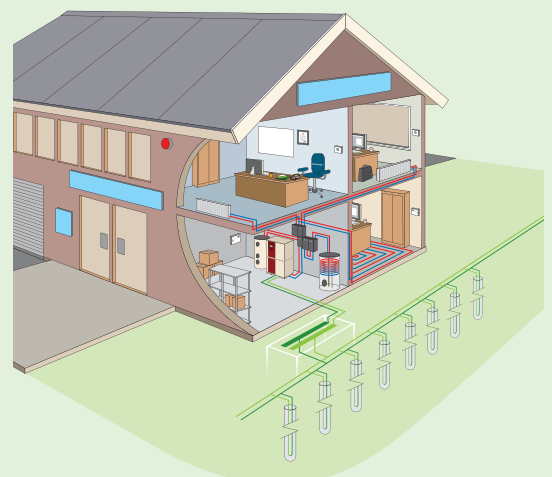
Horizontal ground collectors

If a large enough land area is available, horizontal ground collectors provide an effective method of extracting heat from the ground. The pipework is buried at a depth of approximately 1.25m and spaced 0.75m apart. The land area required is dependent on both the capacity of the heat pump and heat conductance of the soil type in which the pipes are buried. As a space saving alternative to horizontal collectors, slinkies – consisting of coiled pipes buried in a trench – can be used.



Vertical boreholes

If land space is limited the ground collectors can be installed vertically in a borehole, drilled up to 100m deep in the ground. Multiple boreholes are commonly used in large installations where very high levels of heat extraction are required.



Your grant application

Eight easy steps to 50% grant funding

1

Contact Dimplex to discuss the details of your project. Based on building plans or a site survey, we will provide an initial system design specification. If necessary, we can provide presentations or any additional information required to help secure approval for the project to go ahead.

Contact us on 0800 023 2243 or download a registration form www.dimplex.co.uk/lcbp2

2

When you are ready to proceed, Dimplex will recommend an installer (or installers) from our BRE approved list of Heat Pump Installer Partners. A full specification and schedule of works will be produced and a costed quotation provided.

3

At this stage you should complete an online or paper based application and submit to the BRE along with electronic copies of installer quotations and proof of not-for-profit status. Receipt of your application at the BRE will be confirmed by them by email within 2 working days of receipt. Dimplex will be happy to help in preparing your application.

4

Following checks for compliance and a technical appraisal of the application, the BRE will provide notification of the grant decision within 5-7 working days (applications over £100,000 may take up to 20 days to approve).

5

The BRE will issue a Grant Offer letter to successful applicants, detailing the maximum grant offer and the installation address.

6

Installation work can then commence by the selected Dimplex Approved Heat Pump Installer Partner, who will also supply the heat pump and other associated equipment.

7

At a point of your choosing, a first stage payment of up to 50% of the total grant award can be made. Appropriate paid installer invoices are required for any first stage payment claims. An appropriate time for this to happen is after the installation of the ground collectors.

8

Following completion of the installation works and commissioning of the system, the final grant claim can be made. This must be received by the BRE within 12 months of the date of the Grant Offer letter.

For full details of the scheme compliance requirements and grant administration process, please refer to the Scheme Guidance Notes which can be downloaded from www.dimplex.co.uk/lcbp2. For further information including Terms and Conditions please refer to the Low Carbon Buildings Programme website www.lowcarbonbuildingsphase2.org.uk

Match funding opportunities for LCBP2 grants

Community Sustainable Energy Programme (CSEP)

The Community Sustainable Energy Programme (CSEP) is an open grants programme providing £8 million to community-based organisations for the installation of microgeneration technologies such as solar panels or heat pumps.

It is run by the BRE (Building Research Establishment) and is one of the award partners of the Big Lottery Fund and its Changing Spaces programme which is investing £200 million in environmental projects across England. It focuses on three areas – community spaces, local community enterprise and access to the natural environment.

The programme aims to reduce CO₂ emissions and increase community awareness of climate change and how changes to our behaviour can reduce it.

Importantly, the CSEP grant is available as a match funding solution for projects awarded a 50% grant through the Low Carbon Buildings Programme Phase 2, meaning that the entire project can be 100% grant funded.

Capital grants up to £50,000 will be awarded on a competitive basis at quarterly selection panel meetings. The deadlines for applications to be received at CSEP can be found on the CSEP website.

More information is available at www.communitysustainable.org.uk.

Dimplex Renewable Energy Finance™

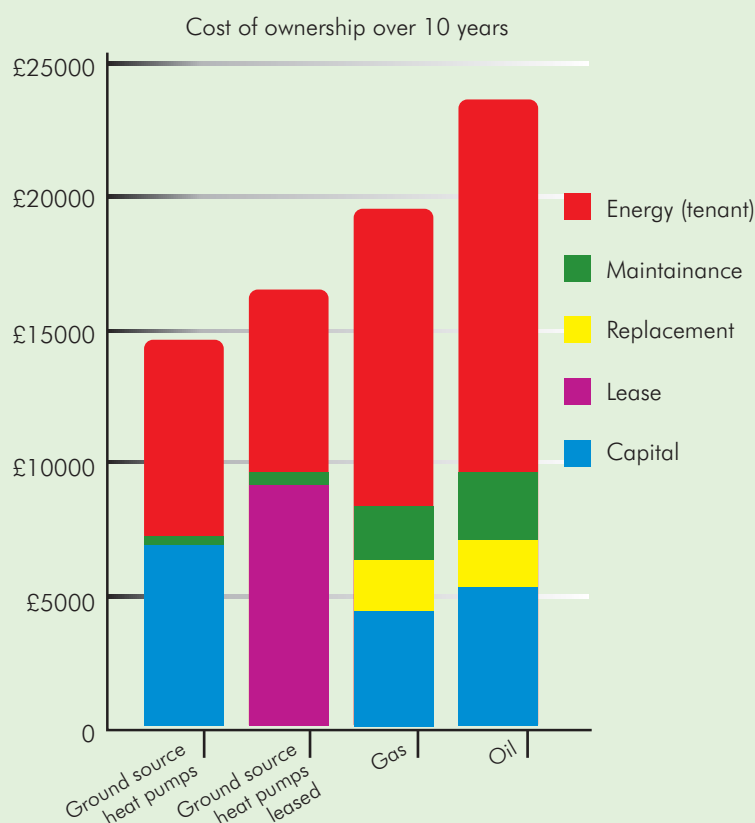
Dimplex's Renewable Energy Finance scheme has been specifically designed to help not-for-profit organisations including local authorities, schools and housing associations overcome the need for initial capital investment when installing heat pump systems.

The scheme is designed to provide a solution for organisations looking to implement renewable energy technologies but for whom the initial capital outlay could make going ahead with the project an impossibility.

By allowing the investment costs to be re-paid over a period of years and funded through the savings in energy costs the heat pump will provide, the scheme is already proving to be particularly popular in the social housing sector, as housing associations – looking to mitigate the increasing energy costs of properties in off gas areas – are having to move quickly and can often find it difficult to raise the funding needed due to capital budget constraints. The scheme can be applied equally as easily for public building projects or schools.

Benefits of the scheme include:

- Finances match funding for LCBP2 (or other grant schemes).
- Can be used in place of grants to cover entire project cost.
- Project costs covered in full with no up-front capital outlay.
- Investment costs recovered from energy cost savings on an ongoing basis.
- Flexible payment schedules and accounting structure based on client needs.



Case studies

Since the first Dimplex LCBP2 funding success for a new extension at Norfolk's Scarning Primary School in early 2007, Dimplex has helped more public sector organisations to access these grants than any other supplier, with around three quarters of heat pump applications to date specifying Dimplex equipment.

An overview of a few installations we have completed are shown here.



Schools – London

Ealing Council has been so impressed with Dimplex ground source heat pumps at one new school that it has installed them at two further schools and plans to have them at a fourth. The installation of heat pumps means the building projects easily met the local authority's 10% renewable energy 'Merton Rule'. Installer partner Earth Energy carried out the work at Grange Primary School including the drilling of 15 boreholes in a restricted area which is now the playground.

Village Hall with 100% Funding – Gloucestershire

Rendcombe Village Hall, near Cirencester was the first installation of its kind to receive 100% grant funding for the installation of a Dimplex ground source heat pump. The village hall committee obtained 50% from LCBP2 and then secured 50% match funding through the Community Sustainable Energy Programme (CSEP)*. Using vertical boreholes to extract the heat, Dimplex installer partner Ecovision System installed a Dimplex SI 14 ME heat pump and completed all the ground works.

* See page 9 for more details on this scheme.

Housing association – Norwich

Norwich-based Dimplex heat pump installer partner Econic Ltd has installed the SI 5 ME ground source heat pumps at a Flagship Housing Group housing development. The homes have a highly insulated timber frame design, achieving a Level 3 rating. As space is at a premium within the properties the units are concealed in garden shelters.



Community centre – North Shields

Dimplex installer partner Revolution Power has installed a Dimplex SI 50 TE for the Meadows Neighbourhood Centre. The ground source heat pump will feed both the heating system and hot water tanks and the system is expected to halve the centre's annual heating costs and save around 215 tonnes of CO₂ over its lifetime.



Lifeboat station – Wirral

A new build lifeboat station at Hoylake, on the Wirral, is now heated by a Dimplex SI 9 MS 9kW ground source heat pump linked to a buried 'slinky' heat collector. As the structure is located right at the water's edge, Dimplex installer partner Earth Energy laid the collectors under the tidal area – a highly efficient means of transferring environmental heat.



Prep School – Northumberland

A new sports hall at Rock Hall prep school is now benefiting from reduced energy costs following the installation of a 20kW ground source heat pump. As well as school activities, the facility will be used by the local community. The system was installed by Revolution Power, one of Dimplex's installer partners.



Community centre – Wrexham

A new £2.3 million enterprise and community centre in Wrexham, Plas Pentwyn, which features a range of community facilities from a new library and computer training suite to meeting rooms and office accommodation, is heated by a Dimplex SI 50 TE ground source heat pump with a coiled horizontal collector, which was installed by Azure Natural Energy Systems, one of Dimplex's installer partners.



Primary school – Norfolk

Scarning Primary School in Dereham, Norfolk has Dimplex ground source heat pumps in a new extension to deliver low carbon heating and to fulfil the school's desire to move to renewables. The three SI 21 CS heat pumps were installed by Dimplex installer partner, Econic, with the education authority saving over £12,000 from the LCBP funding.



Your choice of Dimplex ground source heat pumps

Drawing as much as 75% of the energy needed by the heating system from freely available, inexhaustible solar energy stored in the ground, Dimplex ground source heat pumps are available in an extensive range of models types and capacities suitable for either domestic or commercial applications. Due to highly stable temperatures below the earth's surface, ground source heat pumps provide high levels of efficiency for space and water heating all year round.

Our range includes:

Single phase heat pumps – SI ME range

- 5 models with heating capacities from 5-14kW.
- Suitable for domestic applications.
- Variable heating water flow temperatures up to 58°C.
- Typical CoP 4.0*.
- Low starting currents with electronic soft start control.
- Suitable for connection to horizontal or vertical ground collectors.

Three phase heat pumps – SI TE range

- 5 models with heating capacities from 17-45kW.
- Single and twin compressor models.
- Suitable for schools and other non domestic applications.
- Variable heating water flow temperatures up to 60°C.
- CoP's up to 4.6*.
- Low starting current with electronic soft start controls.

High temperature output heat pump – model SI 40 TEH

- 40kW capacity with variable water flow temperatures of up to 70°C.
- Twin compressor operation.
- Suitable for schools and other non-domestic applications, particularly for retro fitting to existing radiator based heating systems.
- CoP up to 4.5*.
- Low starting current with electronic soft start controls.

Heat pump accessories

- Unvented hot water cylinders.
- Buffer tanks.
- Ground loop and heating system connection manifolds.
- Hydraulic accessories.

*CoP varies dependent on model and operating conditions

SI ME

Single Phase

The popular SI ME ground source heat pumps provide flexible system design making them ideal for domestic or light commercial applications.

Where space saving is required the SI ME range can be combined with a 200L domestic hot water cylinder, which fits neatly below the heat pump unit.

Range features

- 5 models with nominal heating capacities from 5 – 14kW, single phase.
- Variable heating water flow temperatures from 35°C – 58°C with weather compensation.
- WPM2007 heat pump manager with removable control panel for installation in a preferred location.
- Electronic soft start reduces starting current loads.
- Suitable for use with underfloor heating or radiator systems and to provide domestic hot water.
- Complementary built under 200L domestic hot water cylinder for space saving.



SI 5 ME

Model	SI 5 ME	SI 7 ME	SI 9 ME	SI 11 ME	SI 14 ME
Connection Voltage (V)	230	230	230	230	230
Maximum flow temp (°C)	58	58	58	58	58
Heat output B0/W35 (kW)	4.9	6.3	8.9	10.8	14.8
CoP B0/W35	3.8	3.7	3.8	3.9	3.9

SI TE

High output

A range of high output 3 phase ground source heat pumps to provide a flexible range of solutions for higher capacity heating systems. All models utilise the WPM2007 heat pump manager, allowing independent control over multiple heating circuits at differing flow temperatures.

Models with outputs of 24kW and above incorporate twin compressors, enabling them to flexibly and efficiently adapt to fluctuating heat demand by automatically switching between single and dual compressor modes depending on the outside temperature and heat demand of the building.

Range features

- Range of 5 models with nominal heating capacities from 17 – 45kW.
- Variable heating water flow temperatures from 35°C – 60°C with weather compensation.
- Twin compressors on outputs of 24kW and over for higher capacity output.
- Intelligent switching between single and dual compressor modes, maximising efficiency and compressor duty cycle.
- WPM2007 heat pump manager with removable control panel.
- Suitable for use with underfloor heating or radiator systems and to provide domestic hot water.
- Three phase electrical connection, with electronic soft start to reduce start current loads.
- Able to use ground water as a heat source with the addition of an intermediate heat exchanger.
- Matching 400 litre domestic hot water cylinder.



SI 21 TE



SI 17 TE



SI 50 TE



SI 24 – 37 TE

Model	SI 17 TE	SI 21 TE	SI 24 TE	SI 37 TE	SI 50 TE
Connection Voltage (V)	400	400	400	400	400
Maximum flow temp (°C)	58	58	60	60	60
Heat output B0/W35 (kW)					
1 Compressor	16.9	20.8	12.7	18.3	23.0
2 Compressors	-	-	23.7	35.4	46.7
CoP B0/W35					
1 Compressor	4.4	4.1	4.3	4.5	4.4
2 Compressors	-	-	4.1	4.3	4.5

SI TEH

High temperature

The Dimplex SI TEH high temperature ground source heat pump provides variable water flow temperatures up to 70°C, providing a solution for buildings with high temperature heating systems (radiators) or where high temperature hot water storage is required.

Available with 40kW output, the unit utilises the WPM2007 heat pump manager, allowing independent control over multiple heating circuits at differing flow temperatures.

SI TEH incorporates twin compressors, enabling it to flexibly and efficiently adapt to fluctuating heat demand by automatically switching between single and dual compressor modes depending on the outside temperature and heat demand of the building.

Range features

- Nominal heating capacities of 40kW.
- Variable heating water flow temperatures from 35°C – 70°C with weather compensation.
- Twin compressors for higher capacity output.
- Intelligent switching between single and dual compressor modes, maximising efficiency and compressor duty cycle.
- WPM2007 heat pump manager with removable control panel.
- Suitable for use with underfloor heating or radiator systems and to provide domestic hot water at stored water temperatures of up to 60°C.
- Three phase electrical connection, with electronic soft start to reduce start current loads.
- Able to use ground water as a heat source with the addition of an intermediate heat exchanger.
- Matching 400 litre domestic hot water cylinder.



SI 40 TE

Model	SI 40 TEH
Connection Voltage (V)	400
Maximum flow temp (°C)	70
Heat output B0/W35 (kW)	
1 Compressor	17.4
2 Compressors	34.2
CoP B0/W35	
1 Compressor	4.1
2 Compressors	4.1

Dimplex heat pump accessories

Dimplex heat pumps offer a variety of services – providing the home with comfortable warmth is only one of them. It can also produce all the hot water needed for the kitchen or bathroom.

Dimplex provides all the components needed for these applications, including buffer tanks, hot water cylinders and ground loop circuit, heating system manifolds and hydraulic accessories.

1. Buffer tank

A buffer tank extends operating times and ensures a minimum water flow rate through the heat pump in all operating conditions. Where the heat pump provides the sole source of heating, an electric immersion element can also be integrated to provide supplementary heating if required.

2. Heating system connections

A range of compact accessories are available to ensure a professional and trouble-free heat pump installation, with all the connections and individual components combined and assembled in the minimum of space. Options include:

- Compact manifold with shell-type insulation and integrated hot water connection.
- Hot water module for connection of an additional heating circuit (e.g. hot water heating).
- Simultaneous connection of compact manifold and hot water module to the heat pump via a manifold bar.

3. Hot water cylinder

For the central hot water supply Dimplex offers a range of unvented hot-water cylinders, sized correctly for the maximum heating capacity of the heat pump.

An integrated temperature sensor is connected to the heat pump manager, allowing the heat pump to automatically control the production of hot water as and when it is required.

4. Ground collector connections (not shown)

A range of accessories are available for connection of the ground collectors to the heat pump, including flow and return manifolds, circulating pumps, hydraulic safety accessories and isolation valves.



Your questions answered

Which organisations can apply under the LCBP2 grant scheme?

Phase 2 of the Low Carbon Buildings Programme provides £50m of capital grant funding for the installation of various micro-generation technologies by organisations in the UK public and not-for-profit sectors including:

- Local authorities
- Housing associations
- Schools, colleges and universities
- Public service organisations
- Environmental trusts
- Registered charities

Who installs/provides the systems?

All products and installation services must be sourced through DECC (BERR) appointed 'Framework Suppliers'. Dimplex is an appointed Framework Supplier for ground source heat pumps and will supply the product and installation services through Dimplex Approved Installer Partners, all of whom are accredited to provide these services within Dimplex's Framework Supplier agreement with the DECC (BERR).

What areas of the country are covered?

The scheme is operating in England, Wales, Scotland and Northern Ireland (Isle of Man and the Channel Islands are excluded).

What level of grant is available and how long will they be available for?

Up to a maximum of £1.0 million. The programme began in December 2006 and aims to commit the bulk of its funding by June 2009. For ground source heat pumps the grant level is 50% of all product and installation costs.

What can the grant be used for?

The grant must be used to fund the supply and installation of a renewable energy scheme at a permanent building located in the United Kingdom. In general only costs directly related to the installed equipment and work are eligible.

For ground source heat pumps, this can be considered to include:

- The cost of the heat pump, ground collectors and other equipment (such as water cylinders, buffer tanks and hydraulic accessories).
- Direct costs for all ground works relating to the installation of boreholes or horizontal ground collectors
- Direct costs of connecting the heat pump to the electrical supply and heat distribution system of the property

Specifically excluded from the grant is:

- VAT on all items
- Costs of any extended warranty, beyond the standard product warranty offered by Dimplex and warranties offered by installers for installation work
- Costs of any other materials or works, such as (but not limited to) upgrading of radiators or other elements of the central heating system at the property

How does the application process work?

LCBP2 is managed by the BRE, which is responsible for all aspects of the application process.

Applicants will be able to apply either online or by post. Online applications are preferred, as they reduce administration costs and can be more promptly processed. Online applications can be made at <http://www.lowcarbonbuildingsphase2.org.uk>

A letter confirming receipt of the application will be sent out within 2 working days of BRE receiving the application.

The application will be assessed and the applicant contacted with the decision within 5-7 working days. Grant applications over £100,000 may require more detailed assessments and therefore may take longer.

Are there any other eligibility criteria for receiving a grant?

The BRE will assess applicants against criteria as set out in the application form; these in the main relate to the type of organisation, use of framework suppliers and meeting the £/tonne CO₂ benchmark figures. In addition, applicants will only be entitled to receive a grant if it is not an 'undertaking' within the meaning of the rules on State Aid.

Can I apply for a Phase 2 grant for an installation which is larger than the stated maximum heat/power output for any of the technologies?

The limits to the size of the installation are in line with the definitions of microgeneration stated in section 82 of the Energy Act 2004, namely:

- a) in relation to the generation of electricity, 50 kilowatts;
- b) in relation to the production of heat, 45 kilowatts thermal.

Although only applications that meet the stated limits will be accepted, LCBP2 may contribute to the first 45 or 50kW of larger installations that use multiple products from the scheme product list for each property.

How is the £/tonne CO₂ benchmark calculated?

Information gathered from section D of the application form will be used to estimate the cost (based on the total installation cost) of saving a unit quantity of carbon dioxide over the expected lifetime of the installation.

These figures are compared to the following 'benchmarks' and if they are significantly higher, it may cause the BRE to reject the application or request further clarification. The benchmark figures below are expressed as £/tonne of carbon dioxide.

For ground source heat pumps, the following benchmark figures are used, dependent on the fuel type being displaced by the heat pump system (ie what is being removed or would have been otherwise installed):

Benchmark £/tonne CO₂ saved for ground source heat pumps

energy	Displaced fuel/ KgCO ₂ /kWh	Emission factor
Electricity	£119	0.43
Natural gas	£212	0.19
Oil	£225	0.25
Coal	£86	0.3
LPG	£263	0.21

Assumed life of 20 years

Calculation formula: £/tonne CO₂ = (total eligible costs x 1000) / (energy yield x emission factor x assumed life)

For example. A 45kW system displacing oil costing £56,000. Yield – 1800hrs/yr x 45kW.
Benchmark target: <£225/KgCO₂/kWh.

£/tonne CO₂ = (£56,000 x 1000) / (45 x 1800 x 0.25 x 20) = £138.27

What other supporting documents need to be supplied with the application?

Electronic copies of quotations from all installers either attached to the online application or enclosed on CD-Rom/floppy disk for paper applications. Also proof of not-for-profit organisation status/type/legal entity attached to the on-line application or enclosed on CD-Rom/floppy disk. **Please note submitting these documents only as paper copies will render the application invalid.**

When is the grant paid?

Applicants will be able to make an interim claim of up to 50% of the total grant for ongoing work and/or capital costs based on providing original paid supplier and/or installer invoices.

The total grant, or the remainder following an interim claim, may be claimed when the installation of all technologies for which the grant offer was made (whether at the same property or various different properties) have been completed.

How many grants can an organisation receive under LCBP2?

Organisations can apply for a maximum of up to £1.0million in grant funds per site. A site may include more than one property and maximum of three eligible technologies may be grant-assisted at each property (unless pre-agreed by BRE and BERR) Multiple applications from one organisation for different sites will be accepted.

How many technologies can be applied for?

A maximum of three eligible technologies at each proposed site. Requests for more technologies need to be agreed by the BRE and DECC.

You should note however that Dimplex are only able to offer ground source heat pumps under LCBP2.

Am I able to match fund from any other programmes?

DECC advises that you are not entitled to apply for or receive a grant for the proposed technology/ies and/or its installation at the proposed property/ies if the applicant has already received or will receive any other funding from the national government or one of the Devolved Administrations in relation to the technology and/or its installation at the property.

This includes, but is not limited to any funding that may be or has been available under:

- Low Carbon Buildings Programme Phase 1
- ClearSkies
- Major PV Demonstration Programme
- Bioenergy Capital Scheme
- Scottish Communities & Household Renewables Initiative
- Scottish Biomass Support Scheme

However, applications may receive funding from other public sources (including BIG lottery and local government). Dimplex Renewable Energy Finance is also eligible as a match funding mechanism.

How long will the grant offer be valid for?

The grant offer letter will specify a deadline, usually within 12 months from the date of the letter, by which time installation must have been completed.

How long must the system operate once installed?

It is a condition of the grant offer that the system will remain installed and in use at the property and will not be modified or relocated in such a way as may adversely affect its performance, for a period of at least 5 years following payment of the grant. The applicant is responsible for ensuring this condition is met.

How were the Framework Suppliers chosen?

Framework Suppliers were selected by the DECC (then DTI) following a competitive tendering process to ensure quality, range and value for money. Contract notices for Framework Suppliers were published at the Official Journal of the European Union (OJEU) in June 2006.

Are all Dimplex heat pumps available for grant assistance under the programme?

Only ground source heat pumps are eligible under LCBP2 (ie air and water source heat pumps are excluded). For the purposes of the programme, Dimplex has specified specific models from our ground source range covering the most likely requirements for both domestic and commercial applications.

Details of the ranges available can be found on pages 12-15 of this leaflet.

Where to get more information

Dimplex sources of information

Dimplex website:

For further information and resources relating to the Dimplex LCBP2 scheme, please visit **www.dimplex.co.uk/lcbp2**

Information provided includes:

- Project enquiry form
- Scheme application forms
- Approved installers list
- Guidance notes and scheme conditions document
- LCBP2 frequently asked questions (provided by BRE)
- Case studies

To contact Dimplex regarding an LCBP2 scheme:

Dimplex Telephone: 0800 023 2243

Dimplex Email: lcbp@dimplex.co.uk

Other sources of information

BRE website:

Low Carbon Buildings Programme Phase 2 is managed by the BRE (Building Research Establishment). For full scheme details see:

www.lowcarbonbuildingsprogrammephase2.org.uk

If you have an enquiry regarding the scheme, the BRE can be contacted at:

BRE Telephone: 08704 23 23 13

BRE Email: info@lcbpphase2.org.uk

Microgeneration Website:

If you have any questions about the government's microgeneration policy please email:

micro.generation@berr.gsi.gov.uk

Dimplex Installer Network

Heat pumps are one of the most efficient and economical heating systems available provided the individual components of the heat pump system, including the heat source, the heat pump itself and the connected heating system are properly matched.

In order to ensure the highest levels of installation quality and to provide peace of mind, Dimplex has established a network of approved Heat Pump Installer Partners, all fully trained and experienced in the installation, commissioning and after sales support of Dimplex heat pump products.

Either Dimplex or our Installer Partners can provide advice and guidance on selection of the correct heat pump for your application. For a list of our Installer Partners, please visit our website.



Dimplex Heat Pumps – Always the right solution

CERTIFIED QUALITY

Maximum operational reliability of all Dimplex heat pumps is ensured at all times due to continuous quality assurance during production and quality certification to EN ISO 9001. The international heat pump quality label for heat pump heating systems guarantees highest



safety and quality standards. The tests conducted by recognised testing institutes provide comparability of results, ensure compliance with standards and guarantee an extensive after-sales network with at least 10-year spare parts availability. Dimplex is also a Member of the Heat Pump Association [HPA], the Ground Source Heat Pump Association [GSHPA], BEAMA Low Carbon and the European Heat Pump Association.

SPECIFICATIONS

Dimplex policy is one of continuous improvement; the Company therefore reserves the right to alter specifications without notice. Although every care has been taken in the reproduction of product finishes in this brochure, the colour photographs should be taken only as a guide. The information contained in this brochure is correct at the time of printing.

CE MARK

Products carrying the CE mark comply with European safety standards and the European Standard for electro-magnetic compatibility.

FURTHER INFORMATION

For general information on Dimplex heat pumps please speak to your local Dimplex Installer Partner or contact us directly:

Tel: 0845 600 5111
Fax: 01489 773050
Email: marketing@dimplex.co.uk
Website: www.dimplex.co.uk

Useful Contacts

Tel: 0800 023 2243
Fax: 01489 773061
Email: icbp@dimplex.co.uk
Website: www.dimplex.co.uk

Northern Ireland

Tel: 028 3833 7317
Fax: 028 3835 0208
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