

Dimplex



QUANTUM
heating system

Quantum at home

The heater that adapts to its environment



dimplex.co.uk/quantumathome

Quantum. Low running costs. Total control.

Quantum is the world's most advanced electric space heater. It uses low-cost, off-peak energy, making it the most economical electric heating system on the market today. Quantum stores this energy during periods of low demand, turning it into cost-effective and efficient heat only when it's needed – whatever the time of day or night.

“ All of the residents I have spoken to have noticed a significant saving in their electricity bills and the best thing is that the heaters are so easy to use. Once the controls are set, you don't even need to touch them. ”

Resident, Birmingham





Why is Quantum so good?

✓ It saves you money

Quantum is up to **27% cheaper to run** and **uses up to 22% less energy** than a standard storage heater system.* Quantum is also up to 47% cheaper to run than an electric convector or radiator system.*

✓ It gives you heat on demand

Exceptional levels of insulation mean that Quantum will store energy up during periods of low demand, turning it into **efficient heat only when you need it**. Through its use of a sophisticated self-learning algorithm, the iQ controller is able to take just the right amount of heat to match your lifestyle and the changing climate conditions, intuitively and precisely.

✓ It's controllable

Quantum is fitted with our revolutionary iQ controller^ so you can pre-set your heating requirements – just like central heating. However, adjusting the heat levels manually is also simple via its easy-to-read LCD display and user-friendly low torque rotary knob, designed with the visually impaired in mind.

✓ It's guaranteed

As a sign of our commitment to quality, each **Quantum heater is guaranteed for 10 years.**[†]



*Calculated using SAP 2012 – the only Government approved energy performance assessment method.

†Ten year warranty is a standard 2 years, plus additional 8 years on registration. Terms and conditions apply. See www.dimplex.co.uk/quantumregistration for full details.

^Patent applied for.

The benefits of Quantum

A closer look



Cost savings

With Quantum, up to 90% of your heating is provided using low-cost, off-peak energy. Quantum also uses insulation material with almost the lowest theoretically possible thermal conductivity – even lower than that of still air. This means that heat barely passes through the material, so minimising heat loss.

Due to this exceptional insulation and other clever features, Quantum is recognised using the Government recommended system for measuring a home's energy performance as being up to 27% cheaper to run and using up to 22% less energy than a standard storage heater system.* This means that if a Quantum system replaces a manual static storage system, certain properties could expect annual running cost savings of up to £418.* With these savings the extra up front cost could be repaid in just over two years**

Quantum is also up to 47% cheaper to run than an electric convector or radiator system*. Depending on the property type, annual running cost savings could be up to £975 when replacing an electric convector or radiator system on standard tariff with a Quantum system on Economy 7.*

What's more, Quantum is the only product available in the UK† which meets the SAP 2012's specification criteria to be categorised as a 'High heat retention storage heater'. Quantum has also been accepted as a 'Green Deal Measure' by the Department of Energy & Climate Change. The 'golden rule' of the Green Deal states that the expected energy savings must be greater than the costs of the improvements.

For more information on the Green Deal, visit www.gov.uk/greendeal



Heat on demand

Through its exceptional levels of insulation, Quantum is able to store energy during periods of low demand, turning it into efficient heat only when you need it. The Quantum iQ controller^ uses a sophisticated self-learning algorithm to take just the right amount of heat to match your lifestyle and climate conditions, intuitively and precisely. So you can relax knowing there is sufficient heat available to meet your needs.

A soft start fan ensures the heat is released into the room unobtrusively, quickly and efficiently. In fact, Quantum can heat a room faster than any other central heating system. Furthermore, because the heat outlet is positioned at the base of the heater, the room is heated from floor level, ensuring maximum comfort and efficiency.



“

I didn't want the hassle of running gas in with more pipes, cutting holes in the walls, finding space for a boiler, not to mention the cost. When my installer friend said 'always go for Dimplex, they are the best', the whole process was easy. I noticed a big difference immediately.

Homeowner, London

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“ I think the Dimplex Quantum is marvellous, you can alter them really easily. My sitting room gets lots of sun in the day so it gets really warm and I don't need any heating. As a result I just put the heater on its 'out all day' setting and then when I need heat in the evening, it's there and that's lovely. You just press a button and the job is done, very simple to use. ”

Resident, Kent

iQ Highly controllable

The Quantum iQ controller[^] monitors the weather and responds to changing climate conditions automatically. It follows target room temperature closely, adjusting settings to maintain the required temperature to within $\pm 0.3^{\circ}\text{C}$.

The iQ controller is also constantly monitoring and learning your heating habits. It anticipates your needs, adapting and delivering just the right amount of heat for complete comfort. Whether you are at home all day or only morning and evening, Quantum can meet the heating requirements of your lifestyle.

Of course, if you want to adjust the heat levels manually, you can. The easy-to-use electronic interface with clear LCD display puts you in control. There's a seven-day programmer with three adjustable preset timer profiles, a 'Holiday' mode, landlord setting, child lock and more. So sit back and let Quantum take control.

10 YEAR Peace of mind

Quantum delivers high reliability, plus it's virtually maintenance free. And for added confidence, **every Quantum comes with our 10-year warranty.[†]**

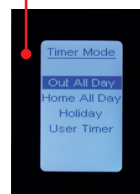
Furthermore, **Quantum is BEAB Approved.** Recognised across the UK and Europe, the BEAB Approved Mark demonstrates the safety pedigree of a product: our commitment to best practice, to producing quality goods and to our customers' safety. It is the highest safety standard achievable in the UK.



Intertek



7 day programmer with 3 pre-set (adjustable) timer profiles, display adjustment, holiday mode giving frost protection, landlord setting, child lock setting and many more features.



Low torque rotary knob and escutcheon, specifically designed for arthritic users, adjust target temperature and enables menu scrolling and selection.

Target temperature display is colour coded to assist visually impaired.



[†]Ten year warranty is a standard 2 years, plus additional 8 years on registration. Terms and conditions apply. See www.dimplex.co.uk/quantumregistration for full details.
[^]Patent applied for.

Buying Quantum

Buying Quantum is easy using our national network of fully-trained Dimplex Quantum Installers.

A Dimplex Quantum Installer will visit your home to undertake a free survey and full heating assessment. Following your survey, we can provide a detailed heating scheme outlining which heaters you will need for each room. This will ensure you get the most effective and cost efficient system. Based on this scheme, your Dimplex Quantum Installer will prepare a detailed quotation for the supply and installation of your heaters.

To find your nearest Dimplex Quantum Installer, visit: www.dimplex.co.uk/quantum or call us on 0844 879 3588.

Need a quick guide?

For a quick assessment of your heater requirements in the interim, please use our heater sizing chart below:

1. Identify your floor area in m².
2. Follow that row to the appropriate wall construction column: solid, cavity or insulated.
3. Select the appropriate number of outside walls: 1, 2 or 3.
4. The figure shown is the kilowatt (kW) loading required.
5. Match this figure to the input rating of our Quantum heaters (opposite), ensuring that the input rating of the heater selected is never less than the kW loading given in the table below.

For example, if your floor area is 12m², has cavity walls and 2 outside walls, then the kilowatt loading required is 1.92kW. The nearest sized suitable heater would be the QM100 which has an input loading of 2.2kW.

Required Quantum Heater loading in kW. Comfort temperature 21°C.

Floor area m ²		Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
		1	2	3	1	2	3	1	2	3
12	Required kw heat loading	1.84	2.16	2.88	1.60	1.92	2.48	1.12	1.28	1.68
16		2.08	2.48	3.20	1.84	2.32	2.88	1.36	1.60	1.92
20		2.64	3.12	3.92	2.32	2.72	3.44	1.68	1.92	2.32
24		2.96	3.44	4.32	2.64	3.12	3.76	2.08	2.32	2.64
28		3.28	3.92	4.80	2.96	3.44	4.24	2.16	2.48	2.96
32		3.52	4.32	5.28	3.28	3.76	4.72	2.40	2.72	3.20



See Quantum on display

The revolutionary Quantum heater is on display across a network of wholesale stockists.

For details of your nearest Quantum display, visit: www.dimplex.co.uk/quantumathome or call us on 0844 879 3588.

Quantum Technical Specifications

Model No.	Height	Depth	Width	Installed Weight
QM070	730mm (28.75")	185mm (7.3")	703mm (27.7")	83kg
QM100	730mm (28.75")	185mm (7.3")	865mm (34.1")	107kg
QM125	730mm (28.75")	185mm (7.3")	1069mm (42.1")	135kg
QM150	730mm (28.75")	185mm (7.3")	1069mm (42.1")	155kg

Model No.	Output Rating	Input Rating	Max. Storage Capacity	Boost Element Rating
QM070	0.7kW	1.56kW	10.9kWh	0.63kW
QM100	1.0kW	2.2kW	15.4kWh	0.88kW
QM125	1.25kW	2.76kW	19.3kWh	1.13kW
QM150	1.5kW	3.3kW	23.1kWh	1.3kW

ENERGY CELL PACKS – Packaged separately, required in the following quantities:

Model No.	QM070	QM100	QM125	QM150
Energy Cell Packs Required	6	8	10	12

Controls	Electronic user interface with LCD display offering room temperature setting, seven day programmer, installer settings, three pre-set timer profiles, holiday setting and more.
Charge Controller	Fully automatic charge controller incorporates self learning algorithms to optimise daily energy storage, using multiple sensors to automatically adjust the charge taken based on recent energy use patterns and future programmed requirements.
Thermostat	Electronic – accurate to +/- 0.3°C.
Safety Devices	Electromechanical – limit thermostat (self resetting); cut-out (manual reset); over temperature thermostat for fan; over temperature limit thermostat for fan.
Fan	Low rev/low noise heat circulation fan with variable speed and soft start.
Storage Core	High density bonded magnetite energy cells.
Thermal Insulation	Front, rear top and ends – microporous silica. Base – calcium silicate slab.
Colour/Finish	White.
Battery Backup	3.3V coin cell battery to backup real time clock. Battery life > 5 years.
Supply	230-240V / 50Hz. Off-peak + 24 hour supply required.
Approvals	BEAB / EN60335 / EMC / CE.
Warranty	2 years standard, plus additional 8 years on registration. Terms and conditions apply. See www.dimplex.co.uk/quantumregistration for full details.

Matching Products

Q-Rad Electric Radiators:



If you are considering a whole house heating system, we recommend Quantum heaters for your main living areas and Q-Rad electric radiators for your bedrooms.

Quantum Hot Water Cylinders:



Replacing your hot water cylinder? Our class-leading Quantum Hot Water Cylinder delivers unrivalled heat retention and mains pressure hot water.

Further information on these product ranges can be obtained from your Dimplex Quantum Installer Partner, at www.dimplex.co.uk or by calling us on 0844 879 3588.

Specifications

Dimplex policy is one of continuous improvement; the Company therefore reserves the right to alter specifications without notice. The information contained in this brochure is correct at the time of printing. You are advised to consult your Dealer before purchasing.

Installation Guidance

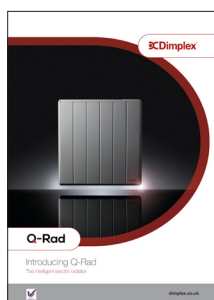
This brochure is designed to assist you with your choice of Dimplex products and it is not intended as an installation guide. For safety, products should only be installed by a competent person, in accordance with current regulations and the manufacturer's instructions.

The Dimplex Range

Dimplex offers the widest range of renewable energy, electric space and water heating products in the world – over 700. In addition to this publication, we have a wide range of brochures for both domestic and commercial applications. Please visit our website www.dimplex.co.uk for more information.



Quantum heating main brochure



Q-Rad electric radiator brochure



Quantum cylinder brochure



Domestic heating brochure



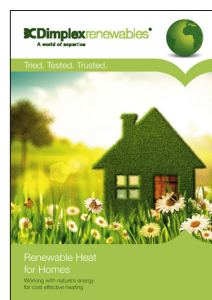
Designer panel heating brochure



Towel rail brochure



Electric fires brochure



Renewables at home brochure



Solid fuel brochure

For more information on Quantum,

please visit: www.dimplex.co.uk/quantumathome

email: customer.services@dimplex.co.uk or call: **0844 879 3588**

For Republic of Ireland, contact Dimpco on +353 (0)1 8424 277, email sales@dimpco.ie or visit www.dimpco.ie

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Products within the Quantum range are protected by one or more of the following patents and patent applications:

Great Britain GB2481048, GB 2487147, GB 2487148, GB 1101971.8, GB 1205302.1, GB 1212547.2, GB1212546.4, GB 1304025.8
Australia AU 2011263698, **Canada** CA 2,801,973, **Chile** CL 03468-2012, **European** EP 11731288.4, **New Zealand** NZ 604163, **South Africa** ZA 2012/09378, **United States** US 13/703,068, **China** CN 201180037404.2, **Japan** JP 506280052

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