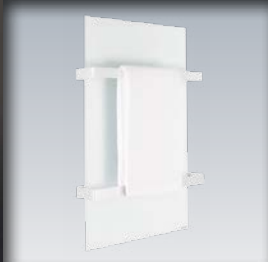


HERSCHEL[®]

far infrared heaters



Herschel Far Infrared heating

completely changing the way
we heat ourselves

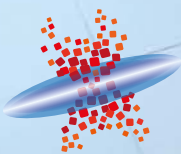
efficiency with
smart, app
enabled **control**

Energy efficient, sustainable
electric heating solution

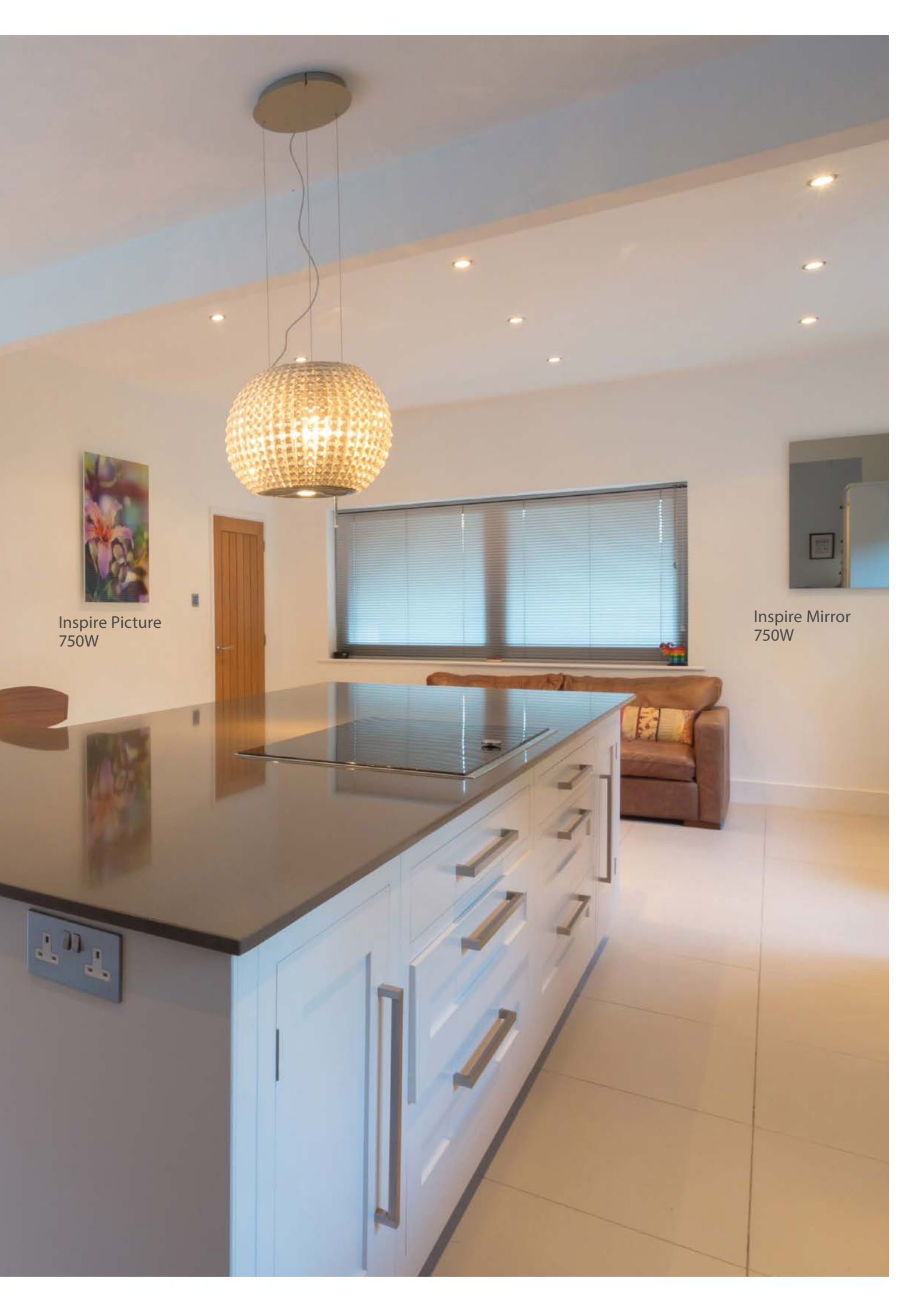
- **commercial**
- **industrial**
- **domestic**
- **outdoors**



Select XL
600W



HERSCHEL[®]
the future of heating – today



Inspire Picture
750W

Inspire Mirror
750W

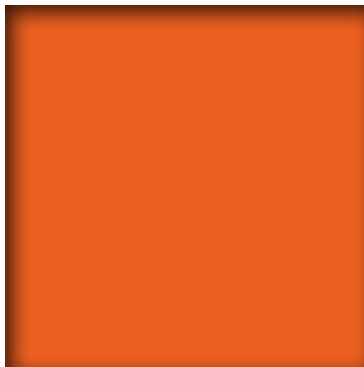


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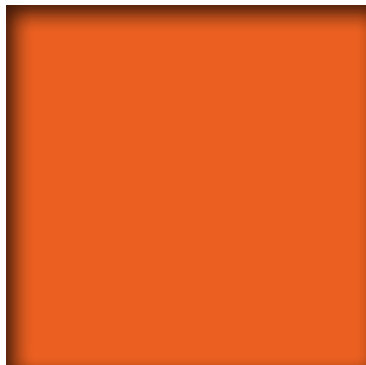
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The brightest Far Infrared object in the universe is a galaxy called Messier 82 (Image courtesy of NASA / ESA / STScI)



Frederick William Herschel was the first person to discover the existence of Far Infrared heat.



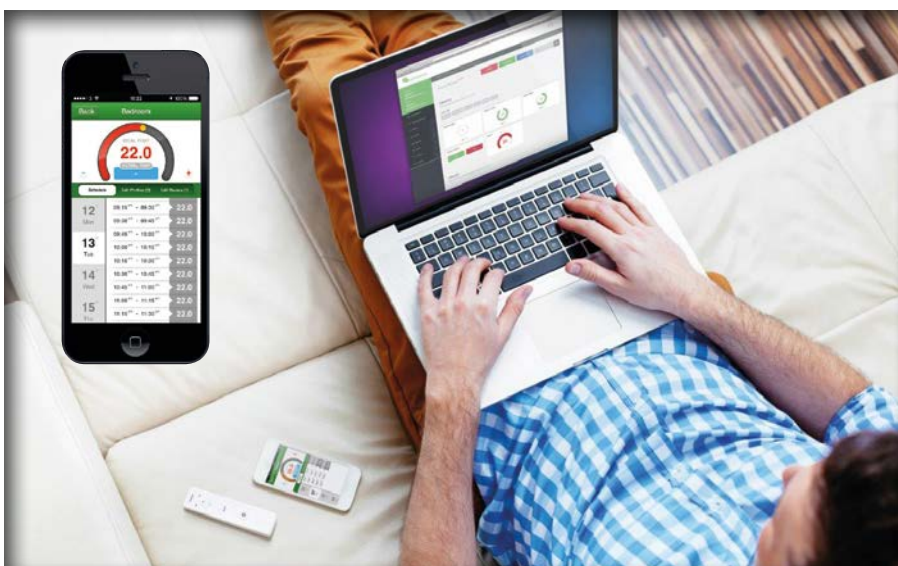
HERSCHEL IS FAR INFRARED HEATING

Herschel is without doubt the future of heating. Energy efficient, highly controllable, stylish and discrete, comfortable and sustainable heating when you want it, where you want it.

Easy to install, no maintenance and easy to control.

Herschel Far Infrared heaters have zero light and silent operation with no fumes.

Combines with solar to give **FREE heating** and **zero CO²**.





APPLICATION

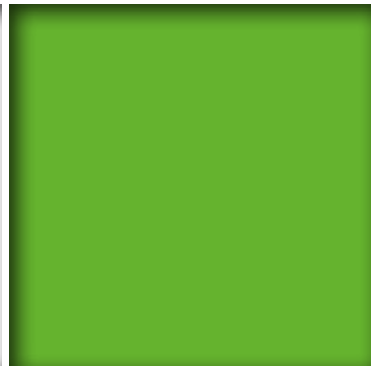
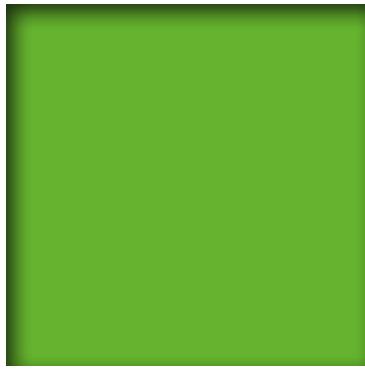
Our range of Far Infrared heating systems is the most comprehensive in the world. We have heaters to suit any application, from **Domestic** through to **Commercial, Industrial and Outdoor heating**.

Herschel has an unrivalled track record of the widest range of Far Infrared applications.

- Homes
- Office walls and ceilings
- Outdoor patio heaters
- Conservatories
- Shops and salons
- Warehouses and industrial units
- Hotels, restaurants and cafes
- Public spaces
- Garage heating
- Schools
- Churches
- Equine heating
- Flood Recovery

“We apply our **unrivalled expertise** and **knowhow** to give customers the best solutions”





THE FUTURE IS ELECTRIC

In the future fossil fuels will be a thing of the past and **efficient electric heating** will be the standard way we heat ourselves.

Europe's focus on Energy resulted in the '20-20-20' targets for the EU to achieve by 2020.

- Greenhouse gas emissions 20% (or even 30%, if the conditions are right) lower than 1990
- 20% of energy from renewables
- 20% increase in energy efficiency



Herschel Far Infrared Heating can be utilised with other Green Energy Technologies

Herschel is a low energy heating solution that, when used with electricity generated by either solar, wind power or other renewable source, is **100% CO² free**.

Our panels can be linked to **solar** to provide free heating. As solar battery storage develops the Herschel fit with solar will become increasingly relevant. A typical 4kW Solar PV system combined with Herschel and battery storage could cover the annual heating requirements of the average house in the UK.

Herschel's perfect synergy with **renewable technologies** facilitates the achievement of Corporate Social Responsibility (CSR) policies and meeting targets for reducing carbon emissions.

We have a number of case studies which highlight both the energy savings from installing Herschel heaters as well as the reduction in carbon emissions.



HERSCHEL is the **FASTEST GROWING** of the **NEW, ALTERNATIVE HEATING** technologies



“Same feeling of warmth as the winter sun on your face”



Make your room a 360° radiator

In a cold room the building will 'take' your body heat and make you feel cold. However, if we use Herschel Far Infrared to directly heat the walls, floor and ceiling of a building (the 'thermal mass') the room will stop taking away our body heat, and radiate back the infrared heat, making us feel warm. Once the thermal mass of the building is warm (>17°C), the heater only needs to be on to top up. Convection heaters (electric or gas) mostly heat the air and this does very little to heat the thermal mass of the building. This is why Herschel SAVES ENERGY.

HOW IT WORKS

What is Far Infrared heat?

Herschel Far Infrared is low energy electric heating, up to **60% more efficient** than electric convection heating with the benefits of **increased comfort** levels. It also has many advantages over other alternative heating systems such as air source pumps due to **low costs** of installation, **zero maintenance** and unprecedented ability to **zone and control**.

Far Infrared is radiated heat, it's the same feeling of warmth as the winter sun on your face and the heat from a coal fire. It is even the same form of heat emitted by your own body.

It is the most basic form of heating known to man. Used by cavemen to heat themselves by fires, by Romans in their hypocausts, by log burners and tile stoves. Favoured for millennia because it heats objects, which then radiate back and keep the environment warm around you. Radiant heat does not heat air – which holds little heat and disappears.

But in the last 60 years, we have forgotten about radiant heating: not because a better technology replaced it, but because fossil fuels that powered central heating made it so cheap to heat air.

Today, new technology, in the form of our 100% energy efficient, zero light Herschel Far Infrared heating, is allowing us to use radiant heating once more in a stylish, comfortable and highly controllable way.

Infrared itself breaks into 3 bands, according to temperature: Near, Medium and Far Infrared, the one we're interested in for human '**Comfort**' heating is **Far Infrared** because this is the wavelength we naturally absorb when warm objects radiate heat.

It's the same heat we feel from an environment warmed by the sun, and the wavelength most efficiently absorbed by the body. It is 100% **safe and natural** (its UV that is harmful, not infrared).



“Radiant heat
and convection
heat do not
compare”



RADIANT VS Convection

In terms of heat transfer efficiency, radiant heat (Far Infrared) and convection heat simply do not compare. They have very different heat transfer properties and as far as heating your home, office or workspace goes, it is important to know the difference. Radiant heaters heat objects in the environment which warm up and radiate back. Convection heaters heat air, which retains heat poorly and disappears on draughts. As a result heating air requires much higher energy.

Less intrusive than central heating: less building work and less cost during installation.

Consider

- Provision of electricity (simply plugs-in)
- Space to hang on a wall or ceiling

No requirement to consider

- Insulation behind the heat source
- Pipework for water
- Storage of fuel
- Flues / Chimneys
- On-going maintenance

Infrared requires no maintenance and has an incredibly long life so there is no risk of having to revisit the entire installation again in ten years time.

All other electric radiators are yesterday's technology

Because they heat the air, even the best market leading "low consumption" digital

electric convection radiators need around 40wm^3 . Herschel infrared panels do not heat the air and so typically only need 25wm^3 . Both Herschel and digital electric radiators run for around 40% of the required heating period (often referred to as the "effective power"). That's a massive saving of 37% on electricity consumption by Herschel with even higher savings of up to 60% compared to electric storage heaters.

Benefits to buildings:

- Reduction of causes of moisture. Far Infrared maintains a higher temperature in the material of a building and a lower temperature in the air so moisture is discouraged
 - **LESS** condensation
 - **LESS** corrosion of metal parts
 - **LESS** salt-damp in stonework
 - **LESS** likelihood of wood rot and bugs
 - **LESS** damage to paint (flaking)
- Far Infrared can be used to heat a zone within a building, something not possible with convection. Herschel heaters can directly heat people in the areas, where they need to be heated
- More constant temperature over periods of operation – fewer hot / cold cycles on the inside (e.g. plasterwork) of the building

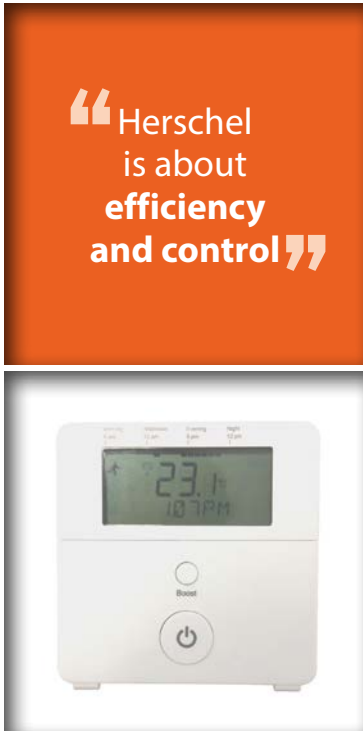
**IF BUILDINGS
COULD DECIDE,
THEY WOULD
CHOOSE
HERSCHEL
FAR INFRARED**



CONTROL

Make your property **smart, warm and energy efficient**

“Herschel is about **efficiency and control**”



Herschel heaters can just be plugged in, however, to regulate temperature and manage optimum comfort levels and efficiencies simply add controllers.

Our Herschel iQ system and controllers use the latest wireless technology to turn your new Herschel infrared heaters into a **cutting edge, smart, energy-saving heating system**. No-one else offers this winning combination of our stylish and efficient heaters with such a comprehensive, flexible and cost effective control system.

With traditional systems that use convection heating (ie. central heating systems or electric radiators) it is not possible to efficiently zone heaters, because once air is heated, it rises and disperses uncontrollably. A convector heater consequently has to warm the entire volume of air in a room until its average temperature feels acceptable because you cannot control where the heated air goes.

Effective zoning is achieved by only heating the areas you want heated, when you want them heated. There is no central boiler or heat pump with Herschel heaters, so each panel can be controlled completely independently; energy is only used when a Herschel panel is on.

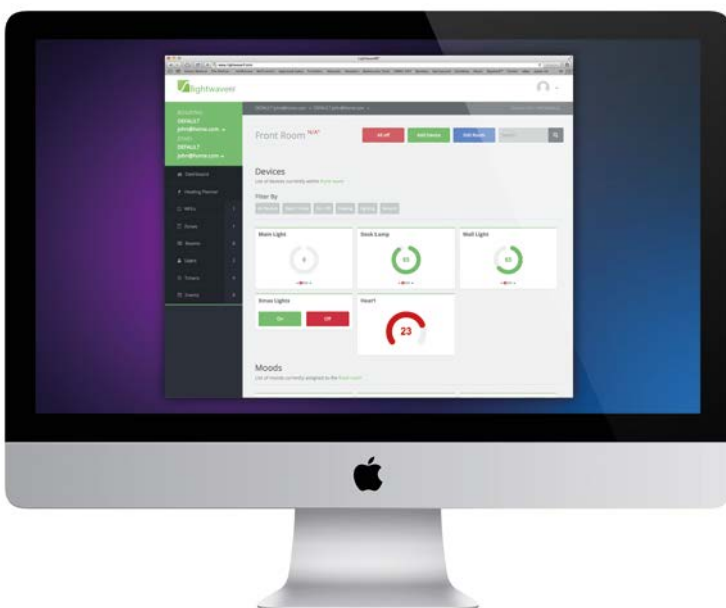
Herschel panels can be linked together to form a zone (say 2 or more panels in one room, or even a separate zone within a larger room) and each zone can be controlled by a separate Herschel thermostat linked to the heating panels within the zone. Just think how much energy and money you waste each year by heating areas that are only used infrequently or by running a central boiler to heat just 1 or 2 rooms.

Our Herschel iQ thermostats are simple to operate, can be fully programmed and wirelessly linked with your Herschel heater panels on a stand-alone basis. However, the advantage of Herschel iQ is that the units can easily and quickly form a complete system controlled via an APP (iPhone, iPad, Android and/or the Internet). This gives

you **complete control** and convenient operating of your heating system.

With Herschel iQ you can have 100% control of your heating remotely via your APP, from anywhere in the world – all you need is 3G or WiFi. This control is ideal for returning from holidays or weekends away (you never have to return to a cold home again) or pre-heating your holiday home.

There is no subscription and no software cost, you simply purchase the equipment.



“Future proof”



HERSCHEL is at the forefront of the ‘internet of Things’:

smart, connected heating

Combine with your existing wet system

Herschel iQ can also be combined with traditional heating with boiler controls and wireless TRV's – allowing for partial integration of Herschel Infrared and the operation of existing “wet” systems. This is ideal if Herschel heaters are being used as supplementary heating or only for certain areas within your property.

Herschel iQ – for every heating application

Herschel iQ can have up to 64 zones so can also be used in commercial applications such as offices, guest houses and hotels, care homes and multi-let properties. The system is also appropriate for use in schools, restaurants and pubs, public buildings, warehouses and industrial applications. The Herschel iQ energy monitor will allow you to record and monitor energy use, ideal for landlords, holiday home lets and hotels.

Installing Herschel iQ is simple and easy utilising RF technology for wireless communication to the thermostats, keeping hard wiring and installation to a minimum. The system can easily be extended, on the LightwaveRF platform, to include lighting and security to create a truly smart and energy efficient property.

Thermostats

We also offer a stand-alone, wireless thermostat for controlling heaters within one zone and a basic plug-in thermostat.

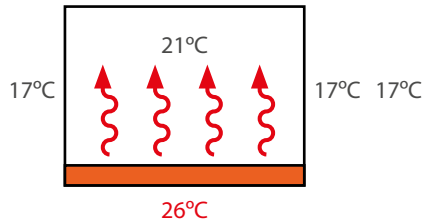




“Unbeatable combination of price, efficiency, payback, comfort”

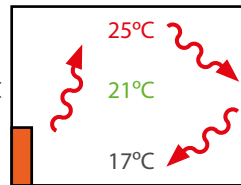
COMPARISON OF HEATING TECHNOLOGIES

Underfloor Heating



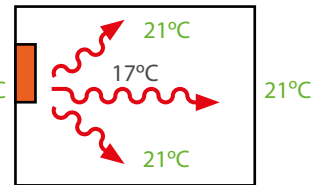
High energy required to disproportionately heat one area, in order to generally warm the air, leaving other materials cold. Once thermostat reaches setpoint, the floor shuts off and you're left with 17°C "Cold Radiating" walls.

Convection Heating

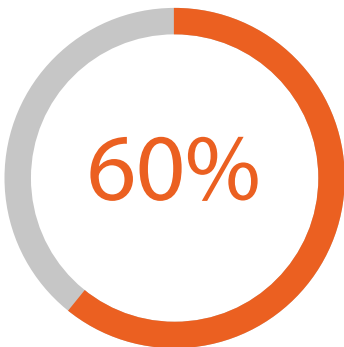


High energy required to disproportionately heat the air higher than you need because it will rise, cool and sink making "ambient" temperature about right and leaving other materials cold.

Infrared Heating



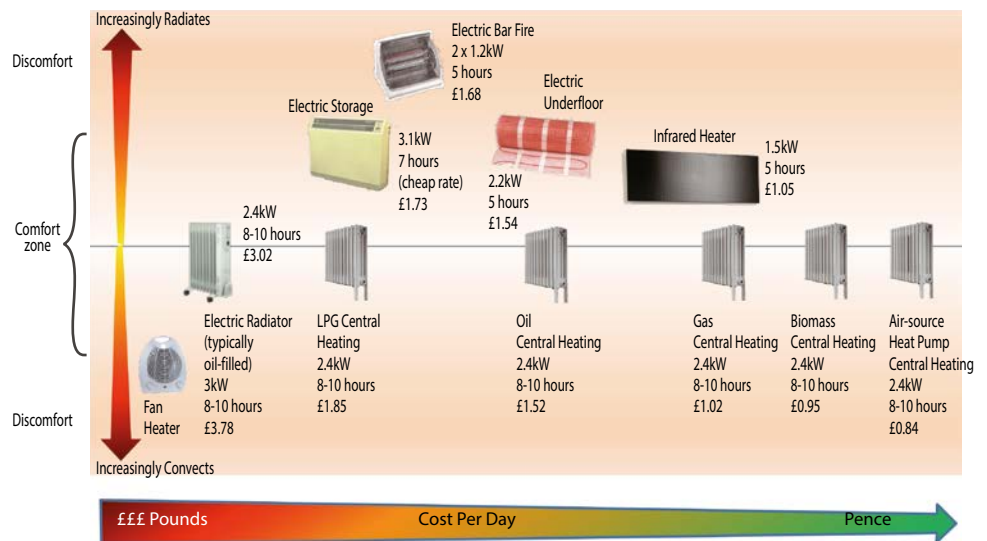
Low energy radiates heat slowly to all areas of room which all warm up over time and start "radiating back". Air remains relatively cool.



Delivers up to 60% savings on energy usage over traditional forms of electric heating.

Compared with new technologies such as heat pumps **HERSCHEL FAR INFRARED OFFERS SIGNIFICANTLY QUICKER PAYBACK TIMES** due to the lower costs of installation and lower maintenance.

Cost comparison to comfortably heat a 60m³ room per day



“Unique with our in house team of chartered surveyors”

MANUFACTURING LOGISTICS QUALITY

Pioneering Development

Herschel constantly strives to develop highly innovative products listening to market requirements and spotting new applications in need of an improved heating solution.

Two examples include the Select XL, where we have brought a high quality frameless panel into the mass market, and the Aspect XL where we have brought the benefits of our commercial range into the high end consumer market.

Quality components

We ensure the highest quality materials and components are employed with strict processes in place to ensure quality compliance. Quality is fundamental and intrinsic to Herschel and the way in which the organisation is managed.

Our heaters are certified to appropriate country standards, as a bare minimum, as well as rigorous testing by TUV or equivalent bodies.

Quality Assurance

We guarantee our heaters for up to 10 years. Made of the highest quality components, our heaters are built to last. Unlike other forms of heating we utilise solid state emitters and minimise the use of integrated control components. This maximises the lifetime of the heaters.

SURVEY SERVICE



QUALITY ASSURED



ACCREDITED TRAINING



Logistics

We carry the UK's largest stocks of infrared heaters and offer next day delivery on 90% of our product lines.

Survey Service

Our Commercial and Technical department is headed up by our team of Chartered Surveyors who have the most experience in the application of Far Infrared in the UK. We offer a desktop review service, within a 7 day turnaround, and site visits can be arranged for complex or specialist projects.

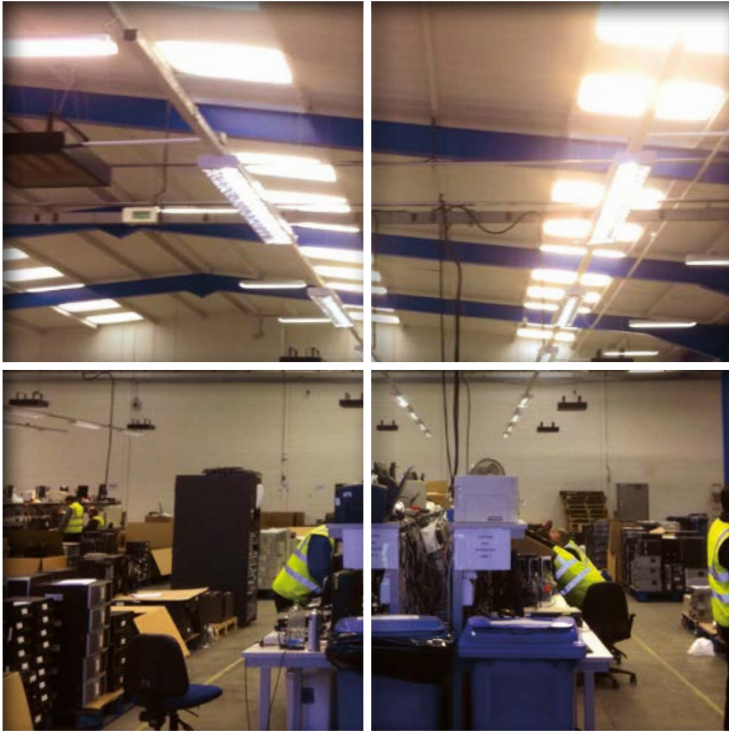
Training and Accreditation

The Herschel Infrared Technology Centre provides access to free online training on everything you need to know on Far Infrared, from basic introductory installer courses to advanced accreditation.

www.herschel-infrared-technology-centre.com



CASE STUDIES



A leading FM company instructed Herschel to look at a heating solution to reduce consumption within a vehicle testing and storage warehouse.

Issues:

- Existing gas fired heating system was not zoned
- Large amounts of air heated for significant time still unable to achieve a comfortable temperature
- Lack of heating controls and inefficient heating system meant significant costs

Herschel Solution:

- Combined Infrared electric heaters with pre-programmable push button timers
- Enabled heating to be zoned effectively in the areas required
- Controls mean heaters only used for time required

Estimated Annual Savings

- 90% reduction in energy consumption (kW/hrs)
- 71% saving off current energy bills
- 76% reduction in CO² and Carbon Emissions (kg)
- C.3.6 yr estimated payback period

“Market leader”



Herschel was approached to find an infrared solution to reduce heating costs and provide more effective heating for hotel rooms.

Issues:

- Existing electric convection heaters heat the air volume
- Maintenance, replacement and repair costs incurred for existing heaters
- Trial to compare infrared to existing heating

Herschel Solution:

- 1000 Watt Herschel panel replaced 1500 Watt convection heater
- Infrared heaters mounted on walls, same location as existing heaters, same temperature controls
- Improved efficiency and reduced costs and consumption
- Installation time was approximately 30-45 minutes per panel
- No maintenance or servicing for infrared heaters

Estimated Annual Savings

- 56% reduction in energy consumption (kW/hrs)
- 56% saving off current energy bills
- 56% reduction in CO² and Carbon Emissions (kg)
- Payback period within 3 years

Take a look at our website, www.herschel-infrared.com, for more details on other Herschel case studies within the commercial, industrial, domestic and outdoor markets.





TESTIMONIALS

“We’ve had the pulsars on since we installed them and they provide the space with a constant low level of warmth which is perfect as we’re not ever too hot/too cold. A lot of customers can’t believe that the heat they are feeling is coming from these”.

Space Heating: Jeffreys Interiors (Converted church), July 2015

“Electrician was so impressed he might even buy some himself”

“Since fitting the Herschel heaters in my garage condensation on my lovely cars, during the winter months, is a thing of the past! Using the lowest temperature setting of 5 degrees with the thermostatic control has been an effective inexpensive solution to a significant issue. A further advantage is the ability to warm the garage when working on my cars in the winter months making working on them during this period a much more pleasant experience. These heaters really provide an effective solution to the care of ones vehicles during the winter months”.

Space Heating: Garage / Classic car: Dr David Sinclair, September 2015

“The panels have been installed for over a month now and are simply wonderful. Quiet, is the best thing about them, no more noise from creaking water pipes and radiators! The electrician was so impressed that he might even buy some himself”.

White Panel: Domestic: Alan and Clare Wenham, December 2014

“The heaters in the barn are absolutely fantastic. I cannot tell you how pleased we are with them. They are working better than we could ever imagine”.

Space Heating: Blake Hall, Wedding Venue and Barn, June 2014

“We have a 900w Glass Mirror panel and a 700w white panel. We are very impressed so far with, one the look of both panels, and two the heat generation”.

Mirror and white panels: Domestic: Trevor and Sue Vallance, December 2014



CHOOSE HERSCHEL

- SIX REASONS WHY

FAR INFRARED HEATING IS 100% NATURAL

1

The human body is designed to accept and to emit infrared waves.

HEATS THE FABRIC OF THE BUILDING, NOT AIR

2

The fabric of the building can retain heat for longer, creating better thermal comfort, so your property will be warmer and cosier.

LESS DAMP AND MOULD

3

Herschel Far Infrared heating warms walls and keeps them dry.

GREATLY REDUCED ENERGY USE

4

Compared with other gas, oil or electric solutions, Herschel infrared heating saves between 30 – 60% of the annual energy usage.

NO MAINTENANCE OR SERVICING

5

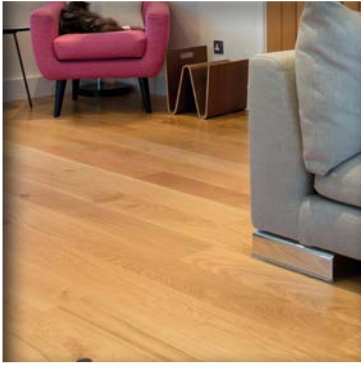
Solid state elements unlike water-based heating or fan-assisted systems, which often require servicing, inspection and repair costs.

CO2 FREE

6

Combined with electricity from wind or solar, it is one of the only heating systems that can truly claim to be **100% carbon free.**





“Heats the fabric of the building, not air”

SAMPLE CALCULATIONS

Room Heating

The power (wattage) of the heater needed **averages 25wm³** but will depend upon the construction type and INSULATION levels. Better insulated rooms will need less power. The aim of Infrared is to heat the “thermal mass” of the room. This can mean 2-3 days of the heaters being fully on at the start of the winter season. After that the thermal mass just needs “topping up”. We estimate an average of 5 hours running time every day and assume a heating season of 180 days. **This compares to an average of 40-45wm³ for convection heating.**

Watts per mtr cubed	Insulation levels	
7wm ³	Passive house	Completely airtight modern
20wm ³	New Build	Standard new build
25wm ³	Modern building	1950's onwards
30wm ³	Old building	Pre-1950's non cavity wall

Space Heating – Large areas and outdoors

It is very expensive to heat very large areas such as warehouses, churches, halls. With convection heating it is not possible to create zones within a large building or large area (the air can't be contained), so the whole building / large area needs to be heated. The benefit of radiant heating is that we can directly heat people in the areas where they need to be heated, so heaters can be mounted only in those areas (we call them zones).

Heater	Zone Indoors	Zone Outdoors
IR2 / XL2 – 1300w	9m ²	6m ²
IR3 / XL3 – 1950w	12m ²	9m ²
IRP4 – 2600w	21m ²	N/a
Pulsar 1800 / 2400w	15m ² / 20m ²	N/a

Within the heated ZONE you will feel the heat and your body will absorb the heat. For an area around double the heated zone, the far infrared will be absorbed by the building and if there are sufficient heaters in the area to build up THERMAL MASS then the area will stay warm after the heaters are switched off. Note, however, that this depends upon the construction of the building and the number of heaters within the area, the insulation levels etc. This is a technical area which will need involvement of the Commercial and Technical Division. Our Commercial and Technical Division offer a survey service to assist here.



“Commercial,
domestic,
industrial,
outdoors”

PRODUCT RANGE

Indoor Space Heaters

Public spaces – Our Pulsar and Aspect ranges are the most stylish infrared heaters on the market, perfect for public spaces where aesthetics are important such as restaurants, churches or public halls.

Industrial and Commercial buildings – Our Advantage range is designed for large industrial spaces such as warehouses, depots and garages where effective zoned heating is required.

Outdoor Space Heaters

The Aspect range is the most attractive and best performing far infrared heater on the market.

Panels

Our panel heaters are ultra slimline, with large surface areas, specially designed for heating rooms. They can be ceiling or wall-mounted and a number of designs are available including standard white, glass, mirrors, and even bespoke pictures.

New for 2016, the **Select XL** is our performance range featuring our newly-developed Herschel COSIX Cell technology heating element and unique EASYFIX mounting system.

Select is our standard range, offering all the benefits of Far Infrared at great value.

Inspire is our premium range, made in Germany, available in the widest range of finishes and complete with a 10 year guarantee.

**ZERO LIGHT
COMFORT
HEATING
SOLUTION
FOR ANY
APPLICATION**

	Select	Select XL	Inspire
Wall and ceiling	✓	✓	✓
White finish	✓	✓	✓
Insulated		✓	✓
Frameless		✓	✓
Aluminium construction		✓	✓
Easyfix mounting		✓	
Glass	✓		✓
Mirror	✓		✓
Picture			✓
10 year warranty			✓



SPACE HEATING RANGE

Zero light heaters
for large areas and
zoned heating





TABLE 1	1.3 kW System		TABLE 2	Indoors	Outdoors
Rated Voltage (V)	115	230	Heated Zone	9m ²	6m ²
Rated Current (A)	11.3	5.7	<i>This area heated figure is based on a mounting height of 2.3 - 2.5m</i>		
Fuse/Circuit Breaker Rating (A)	16	10			

RATED POWER	PART NO.	ELEMENTS	FRAME
1.3 kW (2 x 650 W)	IRXL2-1300B	Two black glazed ceramic elements	Black powder coated extruded aluminium

INSTALLATION AND OPERATING INSTRUCTIONS

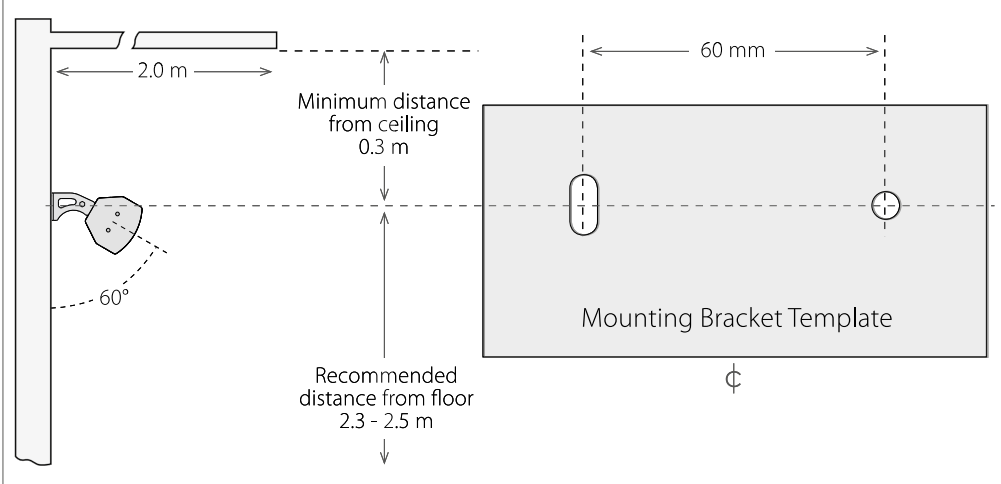
The low operating cost, large heat area and high reliability of the Herschel Aspect XL2 is why the world's hotels, restaurants and public places are turning to the Herschel Aspect as the system of choice for reliable, cost effective and fail safe comfort both indoors and outdoors. It is now increasingly being used by discerning domestic customers to heat their patios, conservatories and terraces too.

The Herschel Aspect XL2 consists of 2 highly emissive ceramic heating elements mounted in a directional, reflective grill-protected unit. It is designed to gently warm people both indoors and in an outdoor covered area using infrared heat.

Infrared heat is a 100% natural radiating heat that humans readily absorb, producing a feeling of great comfort and well-being. Infrared heat produced from the Herschel Aspect warms you directly without heating the air in between: meaning the heat goes where you want it to. No wonder customers immediately warm to Herschel Aspect. The system is easy to install; extremely discreet, produces no red glow and requires next to no maintenance.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.

DIAGRAM 1



IMPORTANT

In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

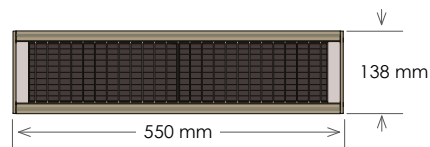
The Herschel Aspect XL2 rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes.

NEVER use the heater to ignite materials.



- 2 Ceramicx CHE Ceramic Elements
- Heater Size 550 x 95 x 138 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10 μm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1 or Table 2.

The supply to the Herschel Aspect XL must be separately switched. Alternatively a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the appropriate table. In either case the switch used to operate the Herschel Aspect XL must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Aspect XL.

For the final connection to the Herschel Aspect XL, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

If the cable outlet is outdoors it must be of waterproof construction. If the flexible cable is taken through an outside wall for connection purposes, suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

MOUNTING POSITION (see Diagram 1)

The Herschel Aspect XL must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally.

The recommended height for the mounting is 2.3m to 2.5m (90"-98") from ground level, with the heaters angled down at 60 degrees (see diagram 1). The Herschel Aspect XL MUST NOT be installed at a height of less than 2.3m (90"). Consideration should be given to any temporary or occasional additions such as stages or

platforms, and the height should be adjusted accordingly. The Herschel Aspect XL should be firmly and permanently attached to the wall.

EXTERIOR USE

The unit is protected against water ingress (protection level IPX4), however it is recommended that the unit is installed in a covered outdoor area to give maximum protection and longevity against the effects of driving rain, wind, frost, salt and water contaminations, etc.

The canopy/roof/cover must be of a permanent nature, there must be a minimum clearance of 0.3m (12") between the cover and any part of the Herschel Aspect XL and the cover must extend a minimum of 2m (79") from the wall. The Herschel Aspect XL must not be attached to or installed close to any combustible material (eg, wood or PVC cladding, fascia or soffit).

GUARANTEE

The Herschel Aspect XL is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement. The Herschel Aspect XL contains no customer-maintainable parts.

The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Aspect XL is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners, etc, should never be used.

Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

Before utilizing the product, the user should determine the suitability of the product for its intended use. HERSCHEL INFRARED LTD expressly disclaims the implied warranties and conditions of merchantability and fitness or a particular purpose. In no case shall HERSCHEL INFRARED LTD be liable under any legal theory, including but not limited to contract or strict liability, for any direct, indirect special, incidental or consequential damages resulting from product use.

Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Aspect XL2 using the specifications supplied earlier.

The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E'). Any exposed flexible cable is to hang DOWN (not tied up) and must have adequate clearance from the heater to prevent scorching or damaging the cable.

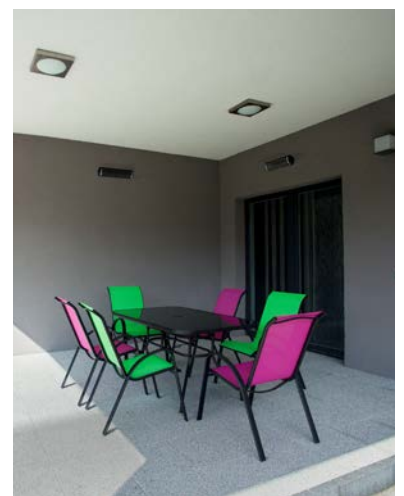




TABLE 1	1.95 kW System		TABLE 2	Indoors	Outdoors
Rated Voltage (V)	115	230	Heated Zone	12m ²	9m ²
Rated Current (A)	17.0	8.5	<i>This area heated figure is based on a mounting height of 2.3 - 2.5m</i>		
Fuse/Circuit Breaker Rating (A)	25	16			

RATED POWER	PART NO.	ELEMENTS	FRAME
1.95 kW (3 x 650 W)	IRXL3-1950B	Three black glazed ceramic elements	Black powder coated extruded aluminium

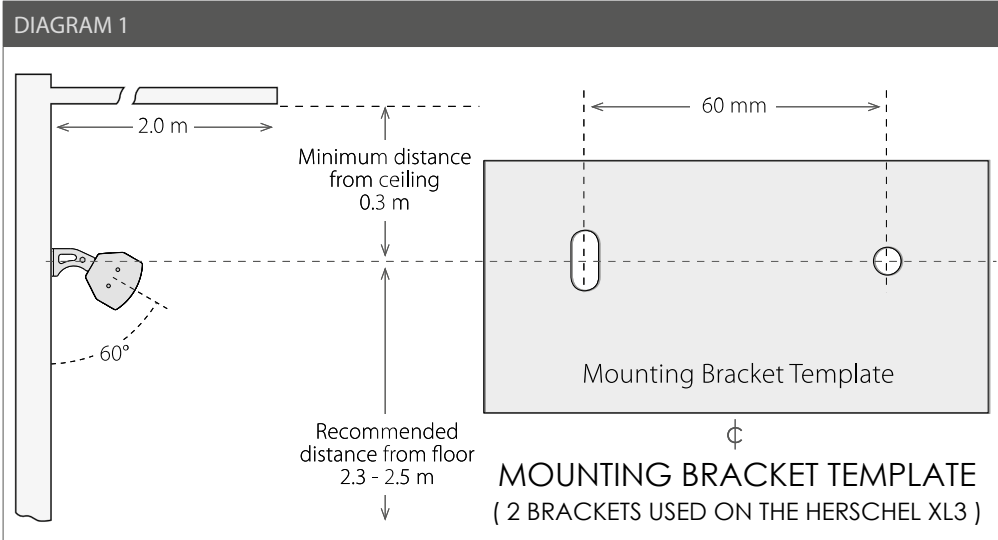
INSTALLATION AND OPERATING INSTRUCTIONS

The low operating cost, large heat area and high reliability of the Herschel Aspect XL3 is why the world's hotels, restaurants and public places are turning to the Herschel Aspect as the system of choice for reliable, cost effective and fail safe comfort both indoors and outdoors. It is now increasingly being used by discerning domestic customers to heat their patios, conservatories and terraces too.

The Herschel Aspect XL3 consists of 3 highly emissive ceramic heating elements mounted in a directional, reflective grill-protected unit. It is designed to gently warm people both indoors and in an outdoor covered area using infrared heat.

Infrared heat is a 100% natural radiating heat that humans readily absorb, producing a feeling of great comfort and well-being. Infrared heat produced from the Herschel Aspect warms you directly without heating the air in between: meaning the heat goes where you want it to. No wonder customers immediately warm to Herschel Aspect. The system is easy to install; extremely discreet, produces no red glow and requires next to no maintenance.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.



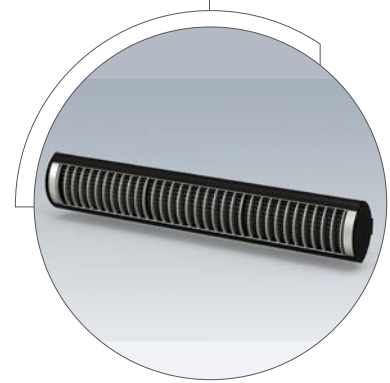
IMPORTANT

In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

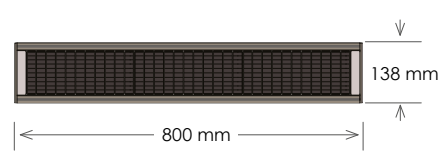
The Herschel Aspect XL3 rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes.

NEVER use the heater to ignite materials.



- 3 Ceramicx CHE Ceramic Elements
- Heater Size 800 x 95 x 138 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10 μm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1 or Table 2.

The supply to the Herschel Aspect XL must be separately switched. Alternatively a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the appropriate table. In either case the switch used to operate the Herschel Aspect XL must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Aspect XL.

For the final connection to the Herschel Aspect XL, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

If the cable outlet is outdoors it must be of waterproof construction. If the flexible cable is taken through an outside wall for connection purposes, suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

MOUNTING POSITION (see Diagram 1)

The Herschel Aspect XL must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally.

The recommended height for the mounting is 2.3m to 2.5m (90"-98") from ground level, with the heaters angled down at 60 degrees (see diagram 1). The Herschel Aspect XL MUST NOT be installed at a height of less than 2.3m (90"). Consideration should be given to any temporary or occasional additions such as stages or

platforms, and the height should be adjusted accordingly. The Herschel Aspect XL should be firmly and permanently attached to the wall.

EXTERIOR USE

The unit is protected against water ingress (protection level IPX4), however it is recommended that the unit is installed in a covered outdoor area to give maximum protection and longevity against the effects of driving rain, wind, frost, salt and water contaminations, etc.

The canopy/roof/cover must be of a permanent nature, there must be a minimum clearance of 0.3m (12") between the cover and any part of the Herschel Aspect XL and the cover must extend a minimum of 2m (79") from the wall. The Herschel Aspect XL must not be attached to or installed close to any combustible material (eg, wood or PVC cladding, fascia or soffit).

GUARANTEE

The Herschel Aspect XL is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement. The Herschel Aspect XL contains no customer-maintainable parts.

The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Aspect XL is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners etc, should never be used.

Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

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Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Aspect XL3 using the specifications supplied earlier.

The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E'). Any exposed flexible cable is to hang DOWN (not tied up) and must have adequate clearance from the heater to prevent scorching or damaging the cable.

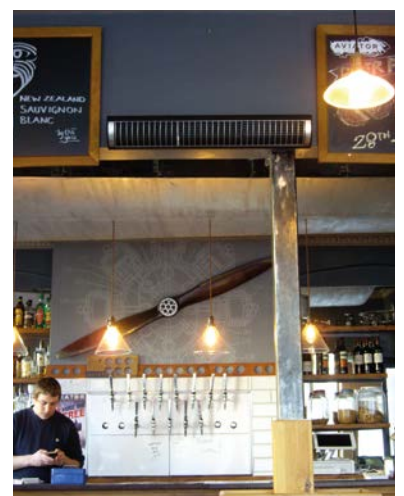




TABLE 1	1.3 kW		1.95 kW	
Rated Voltage (V)	115	230	115	230
Rated Current (A)	11.3	5.7	17.0	8.5
Fuse/Circuit Breaker Rating (A)	16	10	25	16

TABLE 2	1.3 kW	1.95 kW
Heated Zone	9m ²	12m ²

This area heated figure is based on use indoors and a mounting height of 2.3 - 2.5m

RATED POWER	PART NO.	ELEMENTS	FRAME
1.3 kW (2 x 650 W)	IR2-1300W	Two white glazed ceramic elements	Stainless steel body
1.3 kW (2 x 650 W)	IR2-1300B	Two black glazed ceramic elements	Black powder coated stainless steel body
1.95 kW (3 x 650 W)	IR3-1950W	Three white glazed ceramic elements	Stainless steel body
1.95 kW (3 x 650 W)	IR3-1950B	Three black glazed ceramic elements	Black powder coated stainless steel body

INSTALLATION AND OPERATING INSTRUCTIONS

Heating large indoor spaces is both a necessity and a challenge - and in certain circumstances a legal requirement. The low operating costs, large heat area and high reliability of the Herschel Advantage IR2 and Herschel Advantage IR3, are why industrial units, workshops and public spaces are turning to the Herschel Advantage IR range as the system of choice for reliable, cost-effective and failsafe indoor heating.

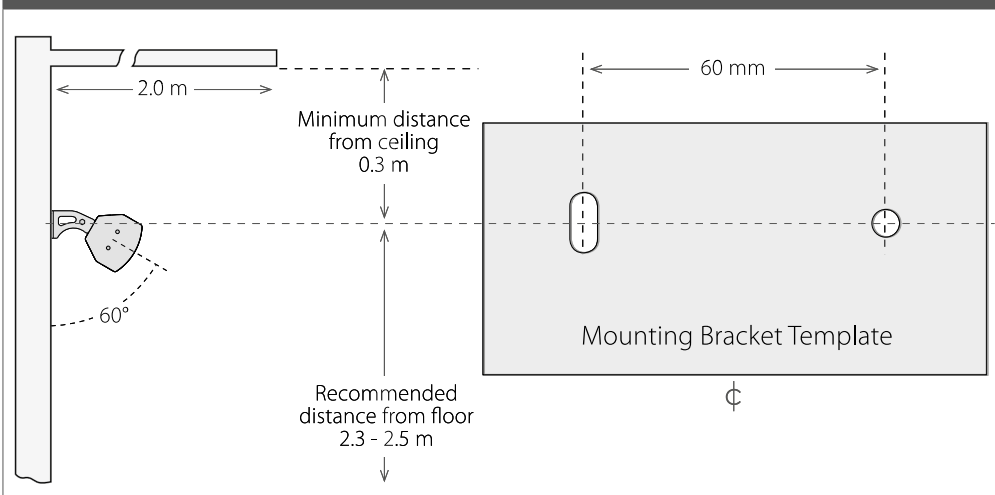
The Herschel Advantage IR consists of 2/3 highly emissive ceramic heating elements mounted in a directional, reflective grill-protected unit. It is designed to gently warm people in large indoor spaces using infrared heat.

Infrared heat is a 100% natural radiating heat that humans readily absorb, producing a feeling of great comfort and well-being. Infrared heat produced from the Herschel Advantage IR warms you directly without heating the air in between: meaning the heat goes where you want it to and doesn't just convect upwards to heat the ceiling. No wonder customers immediately warm to Herschel Advantage IR.

The system is easy to install; extremely discreet, produces no red glow and requires next to no maintenance.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.

DIAGRAM 1

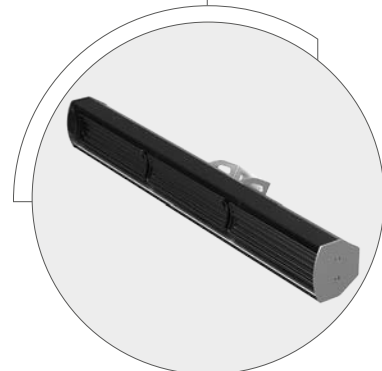
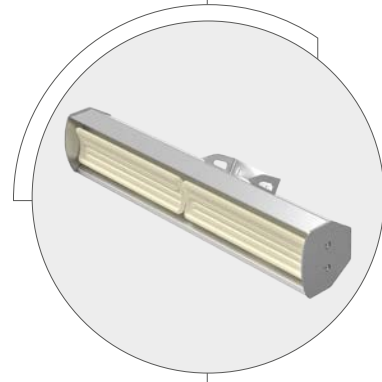


IMPORTANT

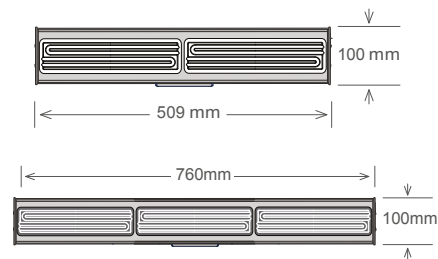
In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

The Herschel Advantage IR rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes. NEVER use the heater to ignite materials.



- 2/3 Ceramix FTE Ceramic Elements
- IR2 Heater Size 509 x 100 x 166 mm
- IR3 Heater Size 760 x 100 x 166 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10µm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1 or Table 2.

The supply to the Herschel Advantage IR must be separately switched. Alternatively a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the appropriate table. In either case the switch used to operate the Herschel Advantage IR must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Advantage IR.

For the final connection to the Herschel Advantage IR, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

If the cable outlet is outdoors it must be of waterproof construction. If the flexible cable is taken through an outside wall for connection purposes, suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

MOUNTING POSITION (see Diagram 1)

The Herschel Advantage IR must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally.

The recommended height for the mounting is 2.3m to 2.5m (90"-98") from ground level, with the heaters angled down at 60 degrees (see diagram 1). The Herschel Advantage IR MUST NOT be installed at a height of less than 2.3m (90"). Consideration should be given to any temporary or occasional additions such as stages or

platforms, and the height should be adjusted accordingly. The Herschel Advantage IR should be firmly and permanently attached to the wall.

EXTERIOR USE

The unit is protected against water ingress (protection level IPX4), however it is recommended that the unit is installed in a covered outdoor area to give maximum protection and longevity against the effects of driving rain, wind, frost, salt and water contaminations, etc.

The canopy/roof/cover must be of a permanent nature, there must be a minimum clearance of 0.3m (12") between the cover and any part of the Herschel Advantage IR and the cover must extend a minimum of 2m (79") from the wall. The Herschel Advantage IR must not be attached to or installed close to any combustible material (eg, wood or PVC cladding, fascia or soffit).

GUARANTEE

The Herschel Advantage IR is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement. The Herschel Advantage IR contains no customer-maintainable parts.

The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Advantage IR is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners, etc, should never be used.

Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

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Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Advantage IR using the specifications supplied earlier.

The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E'). Any exposed flexible cable is to hang DOWN (not tied up) and must have adequate clearance from the heater to prevent scorching or damaging the cable.





TABLE 1		1.95 kW System		TABLE 2		1.95 kW System	
Rated Voltage (V)	115	230	Heated Zone		15m ²		
Rated Current (A)	17.0	8.5	<i>This area heated figure is based on a mounting height of 2.3 - 2.5m</i>				
Fuse/Circuit Breaker Rating (A)	25	16					
RATED POWER	PART NO.	ELEMENTS		FRAME			
1.95 kW (3 x 650 W)	IR360-1950W	Three white glazed ceramic elements		Stainless steel body			

INSTALLATION AND OPERATING INSTRUCTIONS

Heating large indoor spaces is both a necessity and a challenge – and in certain circumstances a legal requirement. The low operating cost, large heat area and high reliability of the Herschel Advantage IR360 is why industrial units, workshops and public spaces around the world are turning to the Herschel Advantage IR360 as the system of choice for reliable, cost-effective and failsafe indoor heating.

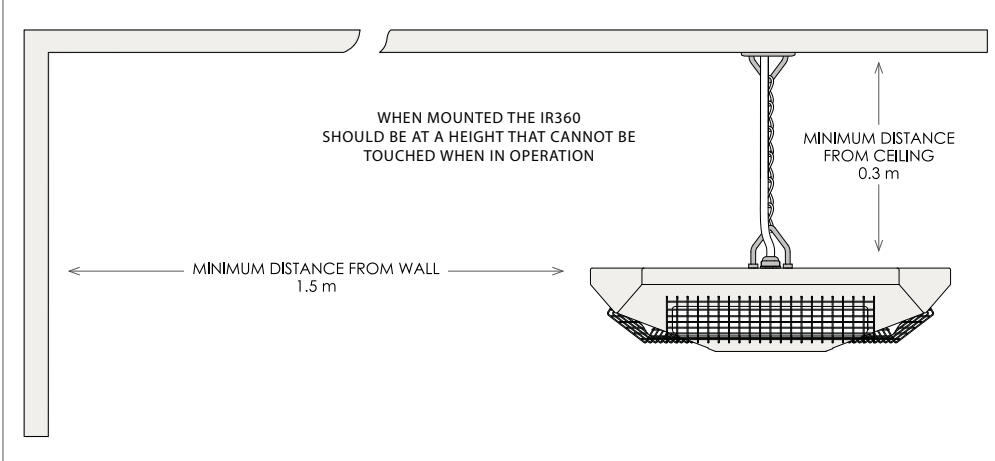
The Herschel Advantage IR360 consists of 3 highly emissive ceramic heating elements mounted in a directional, reflective unit. It is designed to gently warm people in large indoor spaces using infrared heat.

Infrared Heat is a 100% natural radiating heat that humans readily absorb, producing a feeling of great comfort and well-being. Infrared Heat produced from the Herschel Advantage IR360 warms you directly without heating the air in between: meaning the heat goes where you want it to and doesn't just convect upwards to heat the ceiling. No wonder customers immediately warm to Herschel Advantage IR360.

The system is easy to install; extremely discreet, produces no red glow and requires next to no maintenance.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.

DIAGRAM 1



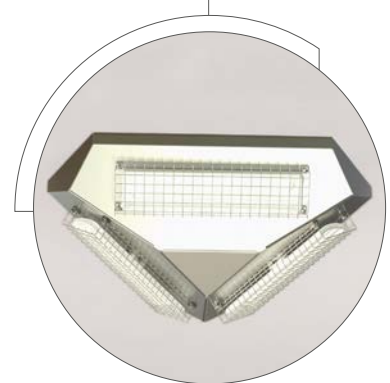
IMPORTANT

In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

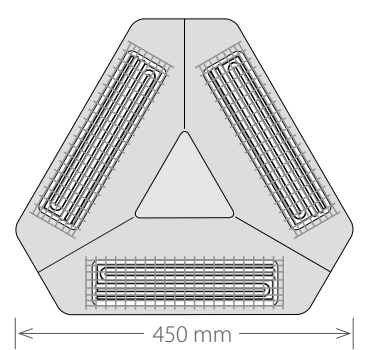
The Herschel Advantage IR360 rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes.

NEVER use the heater to ignite materials.



- 3 Ceramicx FTE Ceramic Elements
- Grill Protected
- Panel Size 450 x 450 x 150 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10 µm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1 or Table 2.

The supply to the Herschel Advantage IR360 must be separately switched. Alternatively, a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the appropriate table. In either case the switch used to operate the Herschel Advantage IR360 must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Advantage IR360.

For the final connection to the Herschel Advantage IR360, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

If the cable outlet is outdoors it must be of waterproof construction. If the flexible cable is taken through an outside wall for connection purposes, suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

MOUNTING POSITION (see Diagram 1)

The Herschel Advantage IR360 must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally. The recommended height for the mounting is 2.3m to 2.5m (90°-98°) from ground level, with the heaters angled down at 60 degrees (see Diagram 1). The Herschel Advantage IR360 MUST NOT be installed at a height of less than 2.3m (90°).

Consideration should be given to any temporary or occasional additions such as stages or platforms, and the height should be adjusted accordingly. The Herschel Advantage IR360 should be firmly and permanently attached to the wall.

EXTERIOR USE

The unit is protected against water ingress (protection level IP20), however it is recommended that the unit is installed in a covered outdoor area to give maximum protection and longevity against the effects of driving rain, wind, frost, salt water contamination, etc.

The canopy/roof/cover must be of a permanent nature, there must be a minimum clearance of 0.3m (12") between the cover and any part of the Herschel Advantage IR360 and the cover must extend a minimum of 2m (79") from the wall. The Herschel Advantage IR360 must not be attached to or installed close to any combustible material (eg, wood or PVC cladding, fascia or soffit).

GUARANTEE

The Herschel Advantage IR360 is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement. The Herschel Advantage IR360 contains no customer-maintainable parts. The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Advantage IR360 is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners, etc, should never be used.

Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

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Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Advantage IR360 using the specifications supplied earlier. The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E'). Any exposed flexible cable is to hang DOWN (not tied UP) and must have adequate clearance from the heater to prevent scorching or damaging the cable.

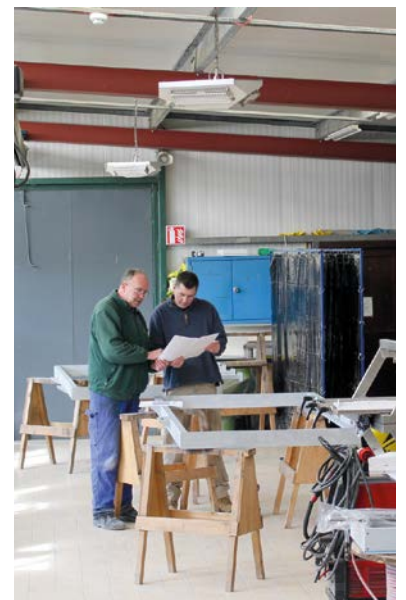




TABLE 1		2.6 kW System		TABLE 2	2.6 kW System
Rated Voltage (V)		115	230	Heated Zone	21m ²
Rated Current (A)		22.6	11.3	<i>This area heated figure is based on a mounting height of 2.8 - 3.5m</i>	
Fuse/Circuit Breaker Rating (A)		32	16		
RATED POWER	PART NO.	ELEMENTS		FRAME	
2.6 kW (4 x 650 W)	HT-2600W	Four white FTE ceramic elements		Stainless steel body	

INSTALLATION AND OPERATING INSTRUCTIONS

The challenge of heating Industrial units is how to adequately heat the work area without high purchase and installation costs, excessive wastage and high ongoing maintenance costs. Traditional Gas solutions fail this challenge in every respect and traditional electric solutions are expensive to run and some produce unwanted red light.

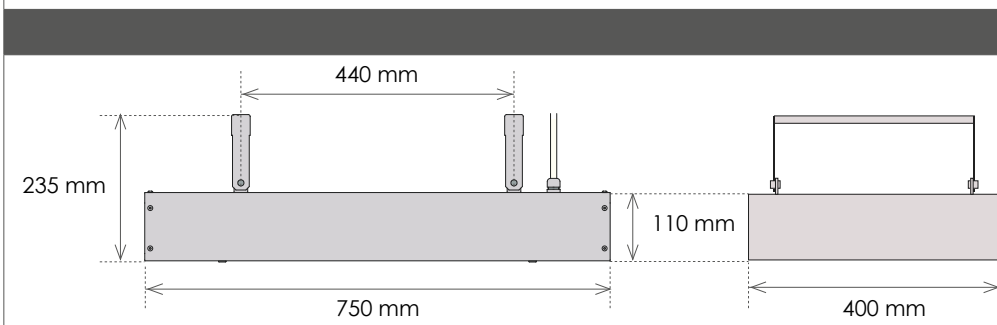
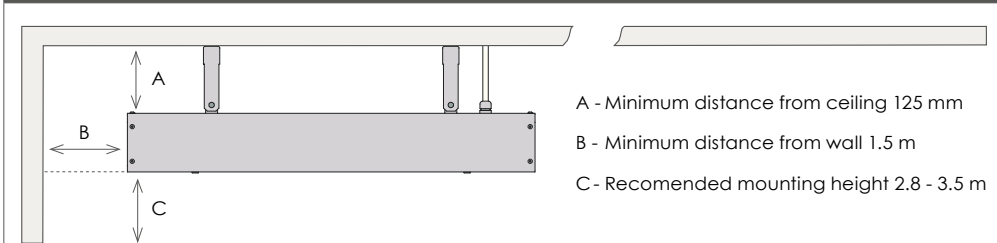
The Herschel Advantage IRP4 revolutionises the industrial heating market: beating every other competitor in each of the above areas. It is competitively priced; easy to install; low maintenance. The IRP4 provides greater warmth at less cost than the competition and emits no light. This is why industrial units, workshops, assembly areas and loading bays around the world are turning to the Herschel Advantage as the system of choice for reliable, cost-effective and failsafe heating.

The Herschel Advantage IRP4 consists of 4 highly emissive ceramic heating elements mounted in a directional, reflective unit. It provides effective zone heating in large indoor spaces using infrared heat.

Infrared Heat is a 100% natural radiating heat that humans readily absorb, producing a feeling of great comfort and well-being. Infrared Heat produced from the IRP4 warms you directly without heating the air in between: meaning the heat goes where you want it to and doesn't just convect upwards to heat the ceiling. No wonder customers immediately warm to the Herschel Advantage IRP4. The system is easy to install, cost-effective to run and requires next to no maintenance.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.

DIAGRAM 1



IMPORTANT

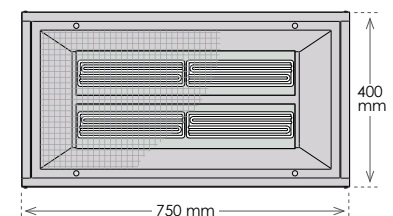
In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

The Herschel Advantage IRP4 rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes. NEVER use the heater to ignite materials.



- 4 Ceramicx FTE Ceramic Elements
- Grill Protected
- Element Colour White
- Stainless Steel Body
- Aluminised steel reflectors
- Panel Size 750 x 400 x 110 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10 µm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1.

The supply to the Herschel Advantage IRP4 must be separately switched. Alternatively, a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the table. In either case the switch used to operate the Herschel Advantage IRP4 must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Advantage IRP4.

For the final connection to the Herschel Advantage IRP4, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

Suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

MOUNTING POSITION (see Diagram 1)

The Herschel Advantage IRP4 must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally. When mounted the Herschel Advantage IRP4 should be at a height at which it cannot be touched when in operation.

Consideration should be given to any temporary or occasional additions such as stages or platforms, and the height should be adjusted accordingly. The Herschel Advantage IRP4 should be firmly & permanently attached using the brackets fitted, with a minimum clearance of 125mm from top surface of heater and ceiling. Install heater so cable cannot make contact with the top surface of the heater. Any exposed flexible cable must have adequate clearance from the heater to prevent scorching or damaging the cable.

Note : Ensure bracket is attached to a solid surface capable of supporting the weight of the heater (11.3kg)

Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Advantage IRP4 using the specifications supplied.

The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E').

GUARANTEE

The Herschel Advantage IRP4 is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement.

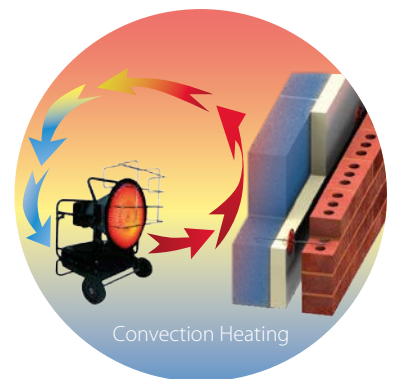
The Herschel Advantage IRP4 contains no customer usable parts. The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Advantage IRP4 is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners etc, should never be used. Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

Before utilizing the product, user should determine the suitability of the product for its intended use. HERSCHEL INFRARED LTD expressly disclaims the implied warranties and conditions of merchantability and fitness or a particular purpose. In no case shall HERSCHEL INFRARED LTD be liable under any legal theory, including but not limited to contract or strict liability, for any direct, indirect special, incidental or consequential damages resulting from product use.



Conventional Convection Heating only heats the air within the building so the inner wall absorbs none of the heat being produced. This in turn means the walls are acting as 'cold radiators' which then very rapidly cool the air within the room once the heating system stops working.



TABLE 1	2.40 kW System	1.80 kW System
Rated Voltage (V)	230	230
Rated Current (A)	11.4	7.5
Fuse/Circuit Breaker Rating (A)	16	10

RATED POWER	PART NO.	ELEMENTS	FRAME
2.40 kW (4 x 600 W)	IRPULSAR-2400B	Four white glazed ceramic elements	Black coated mild steel body
1.80 kW (4 x 450 W)	IRPULSAR-1800W	Four white glazed ceramic elements	White coated mild steel body

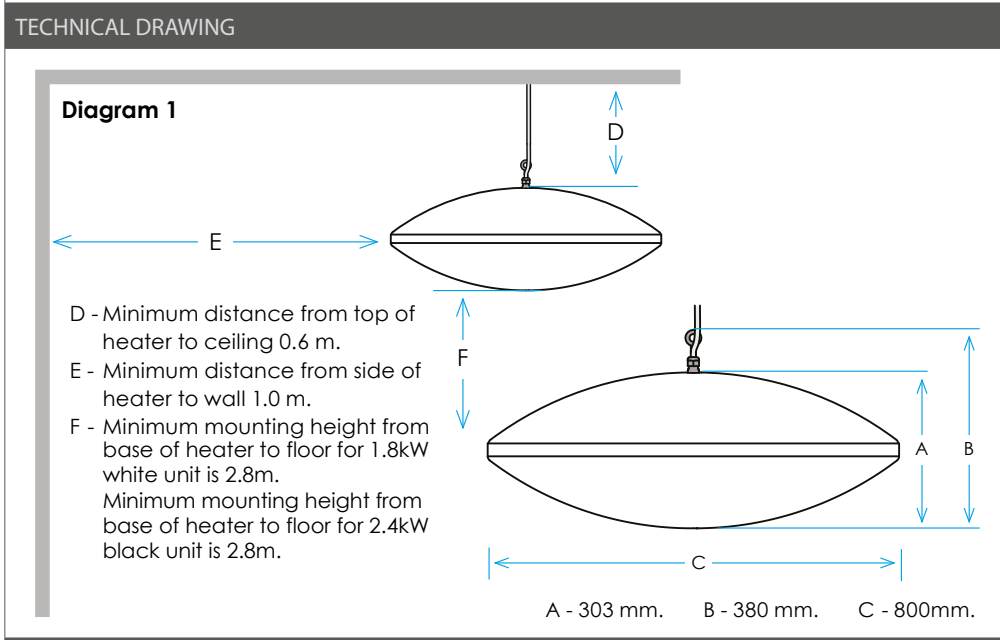
INSTALLATION AND OPERATING INSTRUCTIONS

The Pulsar is a ceiling-mounted infrared heating unit designed for high ceiling installations/large spaces in constant use. Its striking appearance and heat efficiency make Pulsar ideal for commercial areas, shops, showrooms, sports facilities and public halls where effective, efficient heat is required, but where design is important too.

When installed in combination with modern control systems that turn the heating on just before it is required and off when you leave (or actually just before) Pulsar has successfully delivered significant cost-savings to clients compared with their existing systems (please enquire for case studies).

Each Pulsar unit produces effective, comfortable levels of heat for very low wattage. Due to the perfect radiant properties of the Pulsar design and the low wattage required by the ceramic elements to raise the surface temperature of the unit to 200°C the 1800w white Pulsar will heat a zone of 15m² from a height of 2.8m whilst the 2400w black Pulsar will heat a zone of 20m² from a height of 2.8m.

The heater will directly warm people and objects within the Heated Zone (note: air movement may reduce area coverage). Within enclosed areas the thermal mass of the building will also be heated. This will increase the ambient temperature and dependent upon the property age/type and insulation, may increase the effective heated zone by up to 100%. For larger commercial projects or where different mounting heights are required we would always recommend Herschel carry out a survey or detailed desktop assessment.



IMPORTANT

In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

The Herschel Pulsar rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied. Do not place the emitting surface closer than 1m to any object or wall and sides and top no closer than 600mm from any surface or wall. Do not touch the heater when it is on.

After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes. NEVER use the heater to ignite materials.



4 Ceramicx FTE Ceramic Elements
 Unit size 303 x 380 x 800 mm
 Coated mild steel housing



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits. Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1.

The supply to the Herschel Pulsar must be separately switched. Alternatively, a switched fused spur taken from a ring main can be used. The spur fuse should also be rated in accordance with the table. In either case the switch used to operate the Herschel Pulsar must be indoors and readily accessible.

The cable used to connect to the existing wiring should be correctly rated solid core wiring cable. Please note that the use of flexible appliance cable with stranded conductors for permanent wiring (except for the final connection between a cable outlet and the fixed equipment) is prohibited by IEE wiring regulations. Where applicable, these regulations preclude the use of a 13A plug and socket for powering the Herschel Pulsar.

For the final connection to the Herschel Pulsar, only the flexible cable and cable entry supplied with the unit must be used. The cable must connect to the supply in a suitable enclosure or cable outlet designed for that purpose. The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

Suitable conduit or mechanical protection must be used through the wall to protect the cable from mechanical damage within the wall. The mounting position of the unit must ensure that any mechanical damage to the flexible cable is unlikely. If physical damage to the cable is possible, suitable conduit protection must be provided.

OPERATIONAL POSITION

The Herschel Pulsar must be located in a position to allow for proper and efficient use but one that ensures hot parts are not touched accidentally. When mounted the Herschel Pulsar should be at a height at which it cannot be touched when in operation.

Consideration should be given to any temporary or occasional additions such as stages or platforms, and the height should be adjusted accordingly. The Herschel Pulsar should be firmly and permanently attached using the brackets fitted, with a minimum clearance of 600mm from top surface of heater and ceiling. Install heater so cable cannot make contact with top surface of heater. Any exposed flexible cable must have adequate clearance from the heater to prevent scorching or damaging the cable.

Note: Ensure bracket is attached to a solid surface capable of supporting the weight of the heater (28kg).

Check that the mains supply is switched off, and then provide the mains supply connection to the Herschel Pulsar using the specifications supplied.

The BROWN wire is to be connected to LIVE ('L'), the BLUE wire to NEUTRAL ('N') and the GREEN/YELLOW wire to EARTH ('E').

GUARANTEE

The Herschel Pulsar is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement.

The Herschel Pulsar contains no customer usable parts. The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel Pulsar is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth. No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners etc., should never be used. Cleaning should only be done when the unit is cold and switched off. All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

IMPORTANT NOTICE TO PURCHASER

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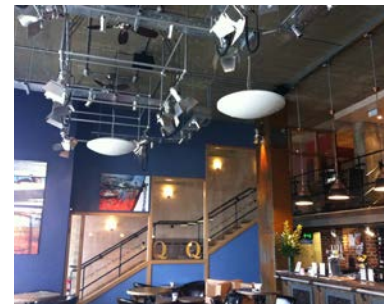




TABLE 1	2.6 kW System
Rated Voltage (V)	230
Rated Current (A)	11.3
Fuse/Circuit Breaker Rating (A)	16

RATED POWER	PART NO.	ELEMENTS	FRAME
2.6 kW (4 x 650 W)	HT-2600W	Four white FTE ceramic elements	Stainless steel body

INSTALLATION AND OPERATING INSTRUCTIONS

The Herschel ThermoDry is designed for applications such as flood recovery, environment control of buildings and construction finishing processes requiring the application of steady, non-scorching, radiant heat. The unit is also ideal for semi open-air venues such as marquees, where it emits steady heat without the fumes, safety and cost implications of gas blowers popularly used in public events.

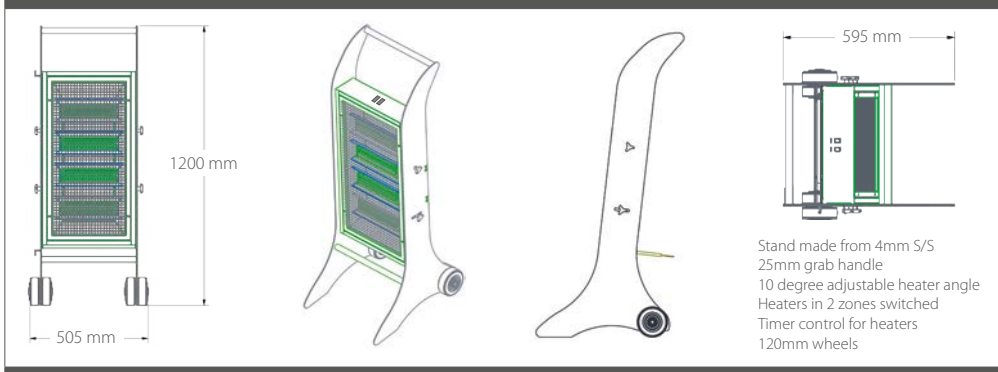
The Herschel ThermoDry consists of 4 high-emission ceramic heating elements mounted in a directional, reflective unit within a stainless steel chassis incorporating a trolley and handle for easy manoeuvring. Infrared heat is emitted from the hot surface of the ceramic heaters and warms items it touches, without heating the air in between. As soon as the heater is switched on the ceramic elements start to warm up and full operating temperature is achieved in 6-7 minutes. The heater can be switched from 100% output to 50% output, which means it can also be used in smaller areas.

The Herschel ThermoDry is unequalled in this class of portable, high-emission heaters:

- All energy input is emitted as Radiant Heat and Far Infrared and directed straight into the building, which will increase the drying process and reduce the drying time compared with convection. There is no light (which you would experience from a quartz/halogen heater) which is not required as part of the drying process and an unnecessary use of energy;
- The heat is non-scorching (which you would experience from a Quartz/Halogen solution);
- This is the only heater in its class that you can leave unattended (untrue for Gas and Quartz/Halogen);
- Power consumption is the lowest in its class (beating Gas and Quartz Halogen);
- Ceramic emitters are the most reliable on the market. We guarantee the units for 5 years (2.5 to 5 times longer than Quartz/halogen) and life-expectancy of emitters can be as long as 10 years. There is also no further annual maintenance.

All these factors make the Herschel ThermoDry a more cost-effective, reliable and safer option to operate either in public places or to leave un-attended than any other form of heater in this category.

TECHNICAL DRAWING



IMPORTANT

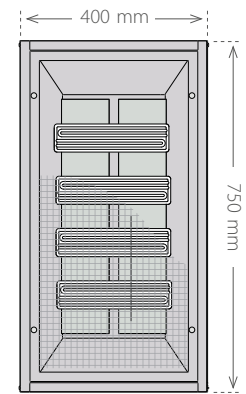
In areas with air movement/wind the directional Far Infrared spread may reduce by 1/3 to 1/2. In these areas we recommend mounting at the lowest height and proportionally increasing the number of heaters.

The Herschel ThermoDry rises to very high temperatures in use and the unit (in particular the heater elements) must not be touched when power is applied. Do not place the emitting surface closer than 2.5m to any object or wall and sides and rear no closer than 1m from any surface or wall. Do not touch the front of the heater when it is on.

Do not touch the unit when it is on. After switch off the elements remain hot for a considerable time and the unit should not be touched for a minimum of 30 minutes. NEVER use the heater to ignite materials.



- 4 Ceramicx FTE Ceramic Elements
- Grill Protected
- Element Colour White
- Stainless Steel Body
- Built-in Trolley and Handle
- Aluminised steel reflectors
- Panel Size 750 x 400 x 110 mm
- Aluminised steel reflectors
- Heating Up Time < 5 Minutes
- Useful Wavelength Range 2 - 10 µm



IMPORTANT INFORMATION

Please read the following information fully, as safe and reliable operation depends on correct installation. Please keep this instruction sheet for future reference.

The AC mains supply is dangerous and potentially lethal. Ensure the mains supply is switched off at the consumer unit (fuse box) before attempting any work on electrical circuits.

Wiring to this unit must be connected in accordance with the relevant national electrical safety standards. This unit must only be installed by a competent and qualified electrician. This appliance must be earthed.

ELECTRICAL INFORMATION

The Herschel ThermoDry is designed to be a portable heater for temporary use. It is not designed for permanent location and any such permanent positioning invalidates the following electrical connection information.

Please contact Herschel Energy Ltd for advice on a permanent heater of similar output.

The electrical supply to the unit should be provided by connecting to a circuit, which is protected by a fuse or miniature circuit breaker suitable for the electrical rating of the unit and in accordance with Table 1.

The cable outlet current carrying capacity must be greater than the recommended fuse current rating given in Table 1.

The mains switch used to operate the Herschel ThermoDry must be indoors and readily accessible.

Only the cable supplied with the Herschel ThermoDry must be used as the final connection to the unit. Any extension cable to be used must be correctly rated for full operational load and should not exceed 10m in length.

The operational positioning of the unit must ensure that any mechanical damage to the flexible cable or accidental tugging is impossible. If physical damage to the cable is possible during operation, suitable conduit protection must be provided.

OPERATIONAL POSITION

The Herschel ThermoDry must always be operated in the upright position, resting securely upon its base and wheels on a level surface.

Any drying requirement requiring angling of the unit (to direct radiant heat to any low surface moisture for example) must make use of the built-in angle adjuster and must not be achieved by tilting the whole unit or placing it on a surface that is not level.

Precaution must be taken to ensure there is no possibility of accidental rolling or tipping due to the unit being placed on an incline.

Operational positioning must also allow for proper and efficient use but one that ensures hot parts are not touched accidentally.

The Herschel ThermoDry must be positioned to ensure its emitting (front) surface is placed at least 2.5m from any object or wall and that its sides and rear surface are positioned at least 1m from any object or wall. Unrestricted access to the handle and electrical switches must be ensured at all times.

As the Herschel ThermoDry is a portable unit, care must be taken to ensure any exposed flexible cable is either taped-down, secured or obstructed to avoid the potential for accidental tripping by people using the area. For safety the heater is installed with a safety cut off switch which means if the heater is knocked over it will automatically switch off. The casing around the heater is built so there is little to no heat off the sides and rear of the heater.

GUARANTEE

The Herschel ThermoDry is guaranteed against failure due to faulty materials or workmanship for five years from date of purchase. In the unlikely event of failure of the unit within this time, the unit must be returned to the supplier for repair or replacement.

The Herschel ThermoDry contains no customer usable parts. The guarantee is invalid if the correct installation instructions as given in this datasheet have not been adhered to.

MAINTENANCE

The Herschel ThermoDry is maintenance free but to maintain appearance it should occasionally be cleaned all over with a soft dry cloth.

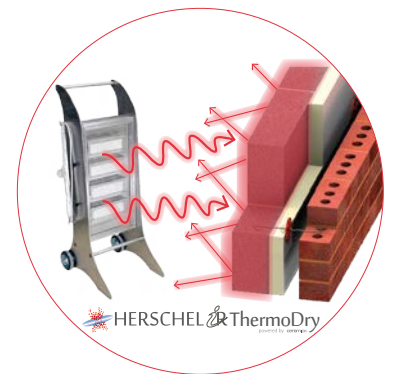
No abrasive cloths or cleaners should be used and appliances such as pressure washers, steam cleaners etc, should never be used. Cleaning should only be done when the unit is cold and switched off.

All personnel cleaning and maintaining the unit must have suitable training and information to carry out the operation safely.

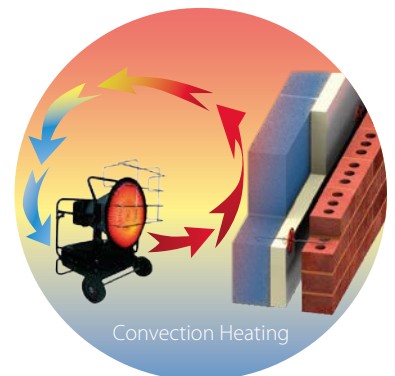
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In no case shall HERSCHEL INFRARED LTD be liable under any legal theory, including but not limited to contract or strict liability, for any direct, indirect special, incidental or consequential damages resulting from product use.



Far Infrared energy is being naturally absorbed by the inner skin of the building, turning the wall into a warm radiator which then warms the air in the room.



Conventional Convection Heating only heats the air within the building so the inner wall absorbs none of the heat being produced. This in turn means the walls are acting as 'cold radiators' which then very rapidly cool the air within the room once the heating system stops working.

PANEL HEATING RANGE

Ultra-slim, stylish heaters
for rooms and domestic
environments








The most cost-effective and efficient frameless far infrared panel heater on the market, the new Select XL from Herschel is ideally suited to the commercial sector including hotels, new homes, student accommodation and rental properties.

The new frameless Select XL range is available in 250 W through to 1000 W and employs the latest, newly developed Herschel heating element which is up to 10% more effective than competitor products.

With a high quality aluminium casing, the Select XL features Herschel's new and innovative easy-fix bracket. No other system is as simple to install and as secure once mounted. The discreet, ultra slim, white panels are designed for ceiling or wall-mounting and will complement any interior. They are TUV approved, have an IP44 rating and come complete with a five year warranty.

TECHNICAL DETAILS

SURFACE:	Aluminium
COLOUR:	White
HEATING ELEMENT:	Herschel COSIX® Cell Technology
REAR PANEL:	Aluminium with Herschel EASY-FIX system
FRAME:	Frameless
SURFACE TEMPERATURE:	App. 85° C - 95° C
VOLTAGE:	230/240 V, 50 Hz
PROTECTION CLASS:	IP 44
CABLE:	3 m power cable
INSTALLATION:	Wall or ceiling mounted
CERTIFICATES:	  
WARRANTY:	5-years

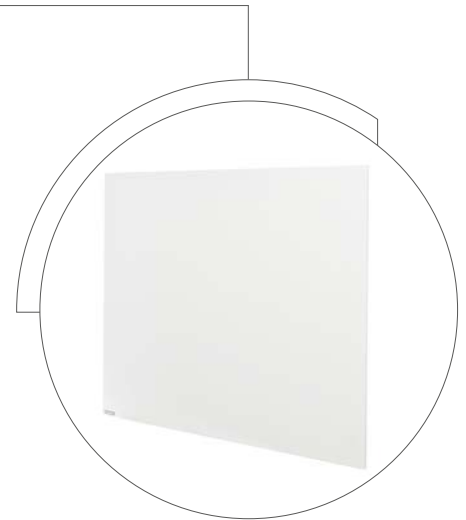
AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
SELECT XL WHITE	XL-HS250-W	30 x 90 cm	4,7 kg	250 W	4 - 6m ²
	XL-HS300-W	59,5 x 59,5 cm	5,7 kg	300 W	5 - 7m ²
	XL-HS600-W	65 x 100 cm	11,3 kg	600 W	11 - 13m ²
	XL-HS850-W <i>(ceiling only)</i>	85 x 120 cm	16,3 kg	850 W Ceiling only	19 - 21m ²
	XL-HS1000-W <i>(wall only)</i>	85 x 120 cm	16,3 kg	1000 W Wall only	19 - 21m ²

SIGNIFICANT ENERGY SAVINGS

Far Infrared heating panels offer owners an unprecedented level of control over their property's temperature and energy use.

Installations using our panels optimally zoned and controlled can save between 30 – 60% of the energy consumption of traditional solutions including gas, oil and other electrical solutions.



UP TO **60%** IMPROVED HEAT EFFICIENCY



NO WASTED ENERGY MEANS EXACTLY THAT **100%** OF THE ELECTRICAL ENERGY USED BY THE HEATING SYSTEM IS CONVERTED INTO HEAT



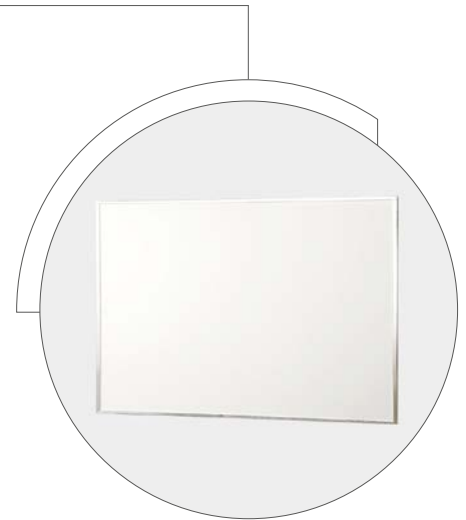
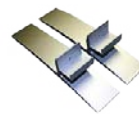
The all new **SELECT WHITE** range offers true affordable value, ideal for applications that require a lower cost solution but with all the benefits of Far Infrared heating.

The **SELECT WHITE** Far Infrared heater has a white frame and is flush fitting to the wall or ceiling.




The heater is available in 3 different sizes, can be wall or ceiling-mounted (making it ideal for passageways and office ceilings) and is available in stand-alone operation by using special feet (sold separately).

The **SELECT WHITE** is lightweight and the HS350-W and HS700-W are also ideal for use in office ceiling grids.

SELECT WHITE Far Infrared heaters - Snap-on feet for free-standing operation.



TECHNICAL DETAILS

SURFACE:	Aluminium
COLOUR:	White
HEATING ELEMENT:	Herschel COSIX® Cell Technology
REAR PANEL:	Aluminium sheet with mounting brackets
FRAME:	White powder coated aluminium frame
SURFACE TEMPERATURE:	App. 85° C - 95° C
VOLTAGE:	230/240 V, 50 Hz
PROTECTION CLASS:	IP 44
CABLE:	3 m power cable (plug type CEE 7/4)
INSTALLATION:	Wall or ceiling mounted
CERTIFICATES:	  
WARRANTY:	5-years

UP TO **60%** IMPROVED HEAT EFFICIENCY

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
SELECT WHITE	HS350-W	59,5 x 59,5 x 2,5 cm	3,0 kg	350 W	6 - 8m ²
	HS540-W	60 x 90 x 2,5 cm	4,9 kg	540 W	9 - 12m ²
	HS700-W	59,5 x 119,5 x 2,5 cm	7,5 kg	700 W	13 - 15m ²



SIGNIFICANT ENERGY SAVINGS

Far Infrared heating panels offer owners an unprecedented level of control over their property's temperature and energy use.

Installations using our panels optimally zoned and controlled can save between 30 – 60% of the energy consumption of traditional solutions including gas, oil and other electrical solutions.

NO WASTED ENERGY MEANS EXACTLY THAT **100%** OF THE ELECTRICAL ENERGY USED BY THE HEATING SYSTEM IS CONVERTED INTO HEAT





The **SELECT GLASS** range of Far Infrared Heaters offers true affordable value, ideal for applications that require a lower cost solution but with all of the benefits of Far Infrared heating.

The **SELECT GLASS** wall-mounted panel heater is a popular and attractive Far Infrared heater that can be used in a variety of scenarios.

SELECT GLASS Far Infrared heaters are available in two sizes with a white glass finish, all units use COSIX® Cell Technology, have an aluminium rear case with mounting brackets and a front emitting surface which is 6mm safety glass. Available Wattage is 600 or 800 Watt units.

TECHNICAL DETAILS

- SURFACE: 6 mm safety glass coated
- COLOUR: White
- HEATING ELEMENT: Herschel COSIX® Cell Technology
- REAR PANEL: Aluminium sheet with mounting brackets
- FRAME: Frameless
- SURFACE TEMPERATURE: App. 85° C - 95° C
- VOLTAGE: 230/240 V, 50 Hz
- PROTECTION CLASS: IP 44
- CABLE: 3 m power cable (plug type CEE 7/4)
- INSTALLATION: Wall mounted
- CERTIFICATES:   
- WARRANTY: 5-years

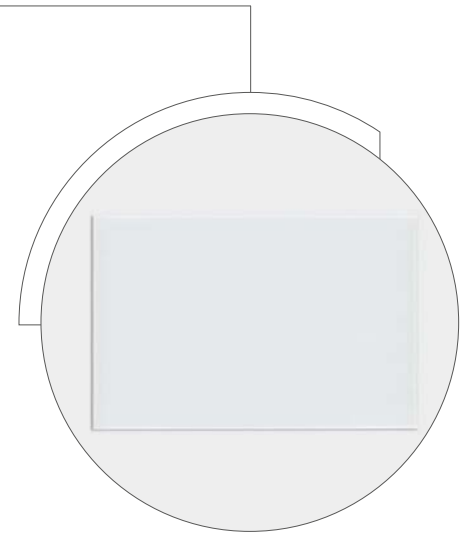
AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
SELECT GLASS	HS600-GW	60 x 90 x 2,5 cm	9,0 kg	600 W	9 - 15 m ²
	HS800-GW	60 x 120 x 2,5 cm	14,0 kg	800 W	12 - 19 m ²

SIGNIFICANT ENERGY SAVINGS

Far Infrared heating panels offer owners an unprecedented level of control over their property's temperature and energy use.

Installations using our panels optimally zoned and controlled can save between 30 – 60% of the energy consumption of traditional solutions including gas, oil and other electrical solutions.



UP TO **60%** IMPROVED HEAT EFFICIENCY



NO WASTED ENERGY MEANS EXACTLY THAT **100%** OF THE ELECTRICAL ENERGY USED BY THE HEATING SYSTEM IS CONVERTED INTO HEAT






SELECT INTEGRATED CEILING Far Infrared heating panels are designed to fit discreetly into commercial ceiling grids, making them suitable for new buildings or reconstruction projects in offices, schools and other public places.

The **SELECT INTEGRATED CEILING** panels allow full usage of wall and floor space. They are simple and easy to install and easy to control room by room without wasting energy needlessly heating unoccupied spaces.

SELECT INTEGRATED CEILING units are made from the highest quality materials and combine high energy efficiency with an improved level of heating comfort when compared with central heating systems.

TECHNICAL DETAILS

SURFACE:	Aluminium
COLOUR:	White
HEATING ELEMENT:	Herschel COSIX® Cell Technology
REAR PANEL:	Aluminium sheet
FRAME:	White powder coated aluminium frame
SURFACE TEMPERATURE:	App. 85° C - 95° C
VOLTAGE:	230/240 V, 50 Hz
PROTECTION CLASS:	IP 44
CABLE:	3 m power cable
INSTALLATION:	Ceiling integrated
CERTIFICATES:	  
WARRANTY:	5-years

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
SELECT WHITE	HS350-W	59,5 x 59,5 x 2,5 cm	3,0 kg	350 W	6 - 8m ²
	HS700-W	59,5 x 119,5 x 2,5 cm	7,5 kg	700 W	13 - 15m ²

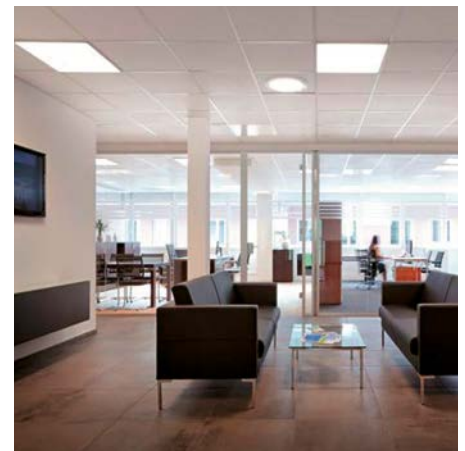
SIGNIFICANT ENERGY SAVINGS

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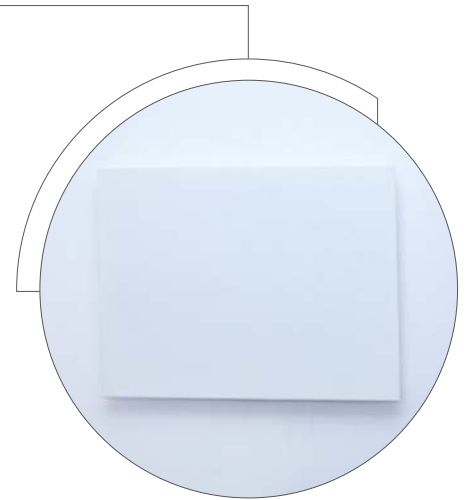
INSPIRE WHITE Far Infrared heaters operate at a fraction of the cost of traditional heating but offer higher thermal comfort levels.

The INSPIRE WHITE Far Infrared heaters are energy efficient and a great space-saving heating solution made from high-quality materials.

This range of heating panels is designed to complement any environment, and are suitable for both domestic and commercial installations.

TECHNICAL DETAILS

SURFACE:	Aluminium, powder coated
COLOUR:	White
REAR PANEL:	Sheet steel, powder-coated, mounting points
FRAME:	Frameless
SURFACE TEMPERATURE:	App. 85° C - 95° C
VOLTAGE:	230 V, 50 Hz
PROTECTION CLASS:	IP 54
INSTALLATION:	Wall or ceiling mounted
CERTIFICATES:	    
WARRANTY:	10 -years



UP TO **60%** IMPROVED HEAT EFFICIENCY

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
INSPIRE WHITE	CL-200	60 x 30 cm	3,5 kg	250 W	3 - 5 m ²
	CL-300	90 x 30 cm	5,0 kg	350 W	4 - 7 m ²
	CL-400	60 x 60 cm	5,0 kg	420 W	5 - 8 m ²
	CL-500	80 x 60 cm	8,0 kg	550 W	7 - 12 m ²
	CL-750	90 x 70 cm	9,8 kg	750 W	11 - 18 m ²
	CL-750L	170 x 40 cm	9,8 kg	820 W	11 - 18 m ²
	CL-900	100 x 80 cm	12,0 kg	900 W	13 - 22 m ²
	CL-1200	120 x 80 cm	15,3 kg	1200 W	17 - 29 m ²
	CL-1200L	160 x 60 cm	15,3 kg	1250 W	17 - 29 m ²



SIGNIFICANT ENERGY SAVINGS

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(With frame)

INSPIRE PICTURE Far Infrared heating panels combine efficiency and comfort with stylish, eye-catching printed designs. Mundane and space consuming radiators become a thing of the past with wall mounted picture panels, just like traditional pictures.

These FAR Infrared heating panels will not only heat your rooms but can also serve as aesthetic pieces of art for your home. Choose any design from our range of standard motifs, or provide your own picture or photo for printing.


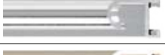




TECHNICAL DETAILS

SURFACE:	ESG safety glass
COLOUR:	Printed standard or custom motifs
REAR PANEL:	Sheet steel, powder-coated, mounting points
SURFACE TEMPERATURE:	App. 85° C - 95° C
VOLTAGE:	230 V, 50 Hz
PROTECTION CLASS:	IP 54
INSTALLATION:	Wall or ceiling mounted
CERTIFICATES:	    
WARRANTY:	10 -years

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
INSPIRE PICTURE	BH-200	60 x 30 cm	4,1 kg	250 W	3 - 5 m ²
	BH-300	90 x 30 cm	6,2 kg	350 W	4 - 7 m ²
	BH-400	60 x 60 cm	7,5 kg	420 W	5 - 8 m ²
	BH-500	80 x 60 cm	10,1 kg	550 W	7 - 12 m ²
	BH-750	90 x 70 cm	13,0 kg	750 W	11 - 18 m ²
	BH-900	100 x 80 cm	16,3 kg	900 W	13 - 22 m ²
	BH-1200	120 x 80 cm	20,0 kg	1200 W	17 - 29 m ²

FRAMES - available options

Model	Part No.	Product picture	
INSPIRE FRAME OPTIONS	Silver matt	AP-RA 7004	
	Silver shiny	AP-RA 7003	
	Brushed mercury	AP-RA 7327	
	Gold shiny	AP-RA 7001	
	Black matt	AP-RA 7021	
	Walnut structured	AP-RA 7318	

Printed colors may vary from the original articles for illustrative reasons. Subject to technical changes and changes in the range and availability.

INDIVIDUAL MOTIFS

Almost any personal motif, picture or logo with a minimum data size of 3-5 MB can be used for reproduction on our heating panels. Accepted formats for image processing are: TIF, JPG, PSD, PDF, EPS files.



UP TO **60%** IMPROVED HEAT EFFICIENCY



STANDARD MOTIFS - Choose any design from our range of standard motifs:



10030860 10035934 10080499 11798310 11851142 12194212 12290794



12569040 12720600 12774590 13299192 13307999 12166487 14394465



14907262 15048887 15093146 15209807 15489558 15572178 15820093



16148424 16828445 3449156 4031994 4520931 4762522



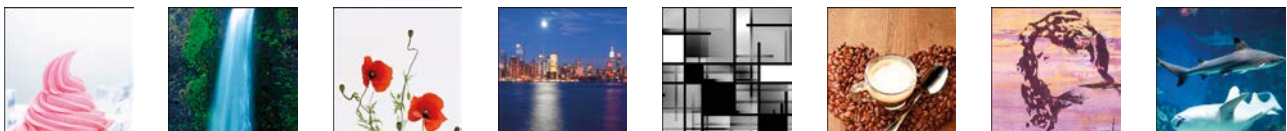
504618 6483182 7187055 7235418 7414443 8536353 8556145



8592960 8952443 9259983 9786944



10422849 10314206 10996534 11474118 11618053 12290792 13649031 14773563 13767359



14168016 15544205 3509257 5498166 6850970 7297291 7600753 7924227

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INSPIRE MIRROR Far Infrared heating panels are an ideal addition to your bathroom, hallway, or to the reception area or lobby of a corporate building.

The **INSPIRE MIRROR** Far Infrared heating panels can be placed in humid areas without any condensation forming on the mirror glass.

Due to the Far Infrared heating process, the mirrors heat up objects in the room rather than the air itself. This helps keep walls and furniture in humid areas dry and free of mould. Walls that are already moist and prone to mould will swiftly dry out, the mould cannot return.

TECHNICAL DETAILS

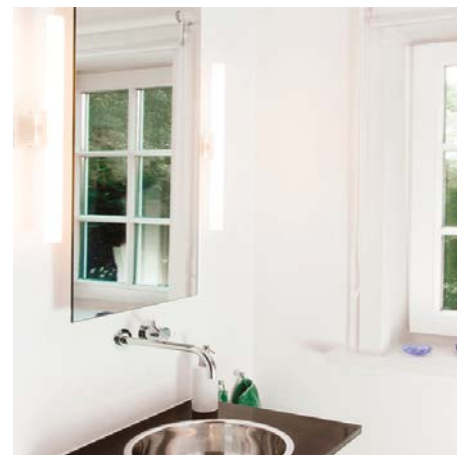
- SURFACE: ESG mirror glass
- COLOUR: -
- REAR PANEL: Sheet steel, powder-coated, mounting points
- SURFACE TEMPERATURE: App. 85° C - 95° C
- VOLTAGE: 230 V, 50 Hz
- PROTECTION CLASS: IP 54
- INSTALLATION: Wall mounted
- CERTIFICATES:
- WARRANTY: 10 -years



UP TO **60%** IMPROVED HEAT EFFICIENCY

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
INSPIRE MIRROR	SH-200	60 x 30 cm	5,0 kg	250 W	3 - 5 m ²
	SH-300	90 x 30 cm	7,5 kg	350 W	4 - 7 m ²
	SH-400	60 x 60 cm	7,5 kg	420 W	5 - 8 m ²
	SH-500	80 x 60 cm	12,5 kg	550 W	7 - 12 m ²
	SH-750	90 x 70 cm	16,2 kg	750 W	11 - 18 m ²
	SH-900	100 x 80 cm	20,3 kg	900 W	13 - 22 m ²
	SH-1200L	160 x 60 cm	25,0 kg	1250 W	17 - 29 m ²



SIGNIFICANT ENERGY SAVINGS

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(Frameless - with frame as an option)

INSPIRE GLASS Far Infrared heaters are made from high-quality reinforced safety glass (ESG), combining sophisticated designs with optimum safety and energy efficiency, a system never out of style.

This sleek, beautiful design will enhance your home or office with class and elegance but also guarantee an improved level of comfort. Enjoy the benefits of Far Infrared healthy heating in your home or office.

The **INSPIRE GLASS** Far Infrared heaters come in 4 different sizes and are available in white, black & pastel green colours. A selection of optional frames is available (with surcharge).

TECHNICAL DETAILS

SURFACE:	ESG safety glass
COLOUR:	White, Black, Pastel Green
REAR PANEL:	Sheet steel, powder-coated, mounting points
SURFACE TEMPERATURE:	App. 85°C - 95°C
VOLTAGE:	230 V, 50 Hz
PROTECTION CLASS:	IP 54
INSTALLATION:	Wall mounted
CERTIFICATES:	    
WARRANTY:	10-years







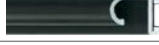

UP TO **60%** IMPROVED HEAT EFFICIENCY



AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
INSPIRE GLASS	GH-300	90 x 30 cm	7,5 kg	350 W	4 - 7 m ²
	GH-500	80 x 60 cm	12,5 kg	550 W	7 - 12 m ²
	GH-750	90 x 70 cm	16,2 kg	750 W	11 - 18 m ²
	GH-900	100 x 80 cm	20,3 kg	900 W	13 - 22 m ²

OPTIONAL FRAMES (with surcharge)

Model	Part No.	Product picture	
INSPIRE FRAME OPTIONS	Silver matt	AP-RA 7004	
	Silver shiny	AP-RA 7003	
	Brushed mercury	AP-RA 7327	
	Gold shiny	AP-RA 7001	
	Black matt	AP-RA 7021	
	Walnut structured	AP-RA 7318	

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(Frameless)

INSPIRE STRUCTURED GLASS Far Infrared heating panels are made from high-quality reinforced safety glass (ESG), combining sophisticated designs with optimum safety and energy efficiency, a system never out of style.

This sleek, beautiful design will enhance your home or commercial property with class and elegance but also guarantee an improved level of comfort. Enjoy the benefits of Far Infrared healthy heating in your home or office.

The **INSPIRE STRUCTURED GLASS** Far Infrared heating system comes in 2 different sizes and is available in 2 colours.

TECHNICAL DETAILS

- SURFACE: ESG structured safety glass
- COLOUR: White or Black
- REAR PANEL: Sheet steel, powder-coated, mounting points
- SURFACE TEMPERATURE: App. 85° C - 95° C
- VOLTAGE: 230 V, 50 Hz
- PROTECTION CLASS: IP 54
- INSTALLATION: Wall mounted
- CERTIFICATES:
- WARRANTY: 10 -years

AVAILABLE MODELS

Model	Part No.	Dimensions	Weight	Rated Power	Heated Area
INSPIRE GLASS STRUCTURED	SG-500	80 x 60 cm	12,5 kg	550 W	7 - 12 m ²
	SG-750	90 x 70 cm	16,2 kg	750 W	11 - 18 m ²

AVAILABLE COLOURS



Printed colors may vary from the original articles for illustrative reasons. Subject to technical changes and changes in the range and availability.

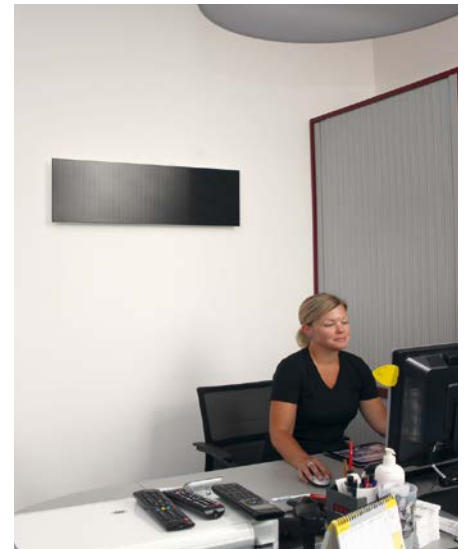
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CONTROL SYSTEM

Offers complete control, from single thermostat through to smart automation, and full heating management system





INTELLIGENT CONTROL

Get the most from your Herschel heaters by adding the Herschel iQ system.

Starting with just one heater in one room - add as many devices as you want over time to get full control of your home's energy use.

Smartphone Control



Room Thermostat



Remote Switch



SINGLE ZONE CONTROL

Start your home control with Herschel iQ's single room pack.

Intelligent temperature and time control for all heaters on a 16 Amp circuit, add a new pack for a different room or a different circuit.



16 amp circuit



REMOTE ACCESS VIA THE iQ LINK

Start combining your systems control with the Herschel iQ Link. The iQ Link will discover all iQ devices in your home, an RF and internet enabled control unit forming the heart of your home energy control.

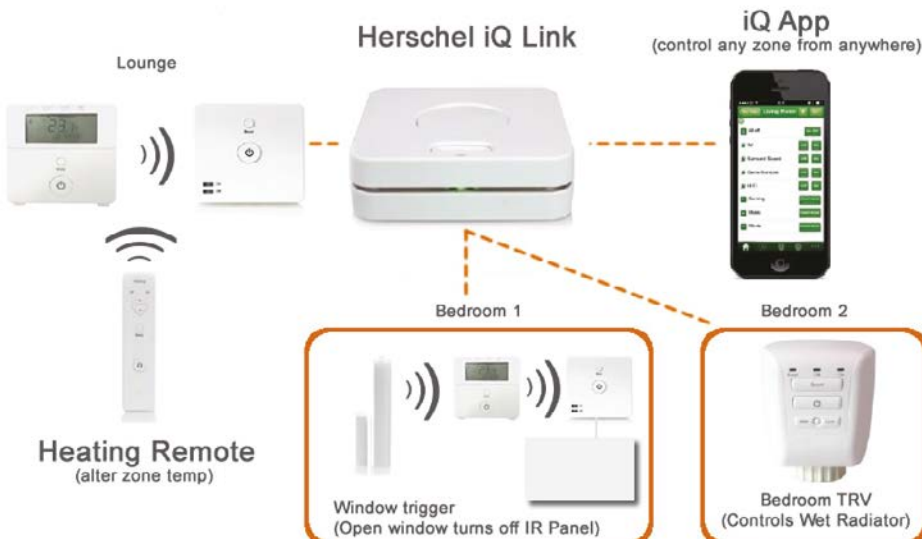
THE iQ APP

Download the iQ App for free from the iTunes App store or Google Play. The App allows you to group devices, create zones and rooms, create events and setpoints as well as remotely control all of your heaters. You can control your iQ devices from anywhere - even when you're away from home.



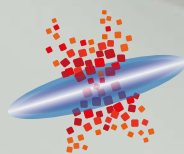
ADD AND EXPAND

Control every element of your home's heating system.



- THERMOSTAT: TIQ-ROOMTWH
- RECEIVER: TIQ-ROOMR
- TRV: TIQ-TRV
- CENTRAL UNIT: TIQ-CENTRAL





HERSCHEL[®]
the future of heating – today

Select XL
1000W



our values

Integrity – we act with the utmost integrity in all our dealings with customers and other stakeholders;

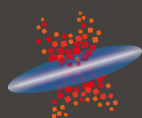
Passion – we are passionate about Far Infrared and our products;

Pioneering – we lead the way in Far Infrared innovation and its application;

Quality – we always seek to provide quality service, advice, support and products;

Customer focused – we believe that our customers are our business and are always at the forefront of our decision-making;

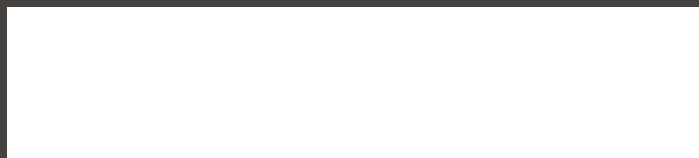
Social Responsibility – we fully believe in the environmental and health benefits of using Far Infrared and its ability to heat people in a more cost effective, sustainable and affordable way.



HERSCHEL[®]
the future of heating – today

For further information contact:
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