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HEATING EFFICIENCY ECO LIGHTING ENERGY CONSERVATION ROTARY CLEANING KITS CHIMNEY TERMINALS INFRARED HEATING METAL CABINETRY

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SmartFan is a self-powered, clean, silent and efficient device that greatly improves heat circulation from your solid fuel burning stove. The device is powered by a thermoelectric generation module (TEG) which uses the hot surface of the stove to generate an electric current to propel two fan blades. Heat, instead of rising immediately to the ceiling, is propelled directly into the living space and provides an increased level of comfort and greater fuel efficiency.

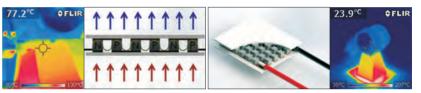


The device works on a simple principle; the hotter the bottom and the colder the top, the more electricity is generated. By utilising a fan on the top section and by incorporating an aerodynamically designed front fan blade, the SmartFan can move air up to a rate of 360 Cubic Meter per hour (200 Cubic Feet per minute).

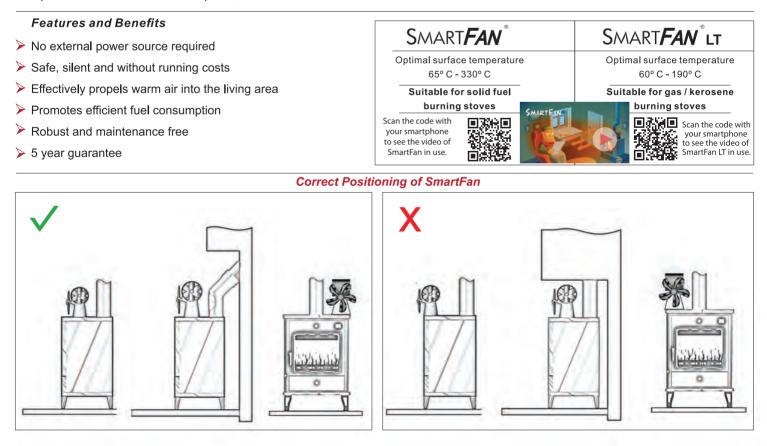
Heated currents of air naturally ascend. Due to this, a solid fuel stove generally creates a small envelope of heat in it's immediate surrounding area. This effectively means that to heat the living area of a room, it is necessary to use a quantity of solid fuel that is relative to it's length, width and height. The SmartFan effectively provides direction for this heated air and allows for greater fuel economies than a solid fuel stove acting alone. The SmartFan, when placed on top of a lighted stove or hot plate automatically starts and creates two gentle convection currents. As a direct result, warm air is, without creating a draught, propelled into the living area and the room heats up much more quickly. The motors themselves are very low torque, which allows the fan blades to be easily stopped and do not present a safety hazard.

How it works

When an electrical conductor has two different temperatures applied to it, the conductor allows for the transfer of heat to the hotter side. In this process of heat transfer, the thermal energy also moves charge carriers within the conductors. This is the process (also known as the Seedbeck effect) that



generates the electrical current in the SmartFan. However, in this process, the charge in each individual pellet is very small. To increase the output voltage, it is necessary to use complimentary conductor pellets (P and N). Applying two dissimilar conductors, one positively doped (P) and one negatively doped (N) allows for the electrical current to flow block to block. These blocks can be considered to be in series, meaning that each block adds a certain amount of electrical current. It can then be considered that the output voltage is equal to the charge per block multiplied by the number of blocks. By using two fans, the SmartFan has been designed to maximise this effect. The main fan is used to propel hot air into the living area, while the auxiliary (side) fan is used to keep the top section as cool as possible while also circulating heated air into the living area. This has resulted in an efficient, cost effective and environmentally friendly product and means that, in effect, the higher the temperature of the stove or hot plate, the faster the blades on the SmartFan will turn.



SMARTFAN - Heat Powered Stove Fans

Dimensions

Temperature Range

Blade Dimensions

Air Velocity 300°C

Weight

RPM Code

MSF1

SmartFan



Dimensi	ons	Height:220mm, Width:200mm, Depth:155mm				
Weight 1000gr						
Tempera	ture Range	65° C - 330° C				
Blade Di	mensions	Front Blade: 200mm Side Blade: 96mm				
Air Veloo	ity 300°C	Front Blade: 26.5 KPM Side Blade: 20.3 KPM				
RPM Front Blade: 980/MIN Side Blade:1680/MIN				IIN		
Code	ode Application		Barcode	Price		
SF1	For Solic	I Fuel Stoves	5391524310009	€99.50		

800gr

Application

For Solid Fuel Stoves

65° C - 330° C

Height:190mm, Width:170mm, Depth:135mm

Front Blade: 170mm | Side Blade: 85mm

Front Blade: 21.5 KPM | Side Blade: 18.4 KPM

Front Blade: 1190/MIN | Side Blade:2000/MIN

Barcode

5391524310665

Price

€79.50



SmartFan Mini



SmartFan LT



Dimensio	ons	Height:220mm, Width:200mm, Depth:155mm			
Weight 1000gr					
Temperat	ture Range	60° C - 190° C			
Blade Dimensions Front Blade: 20			n Side Blade: 96mm		
Air Velocity 190°C		Front Blade: 22.4 KPM Side Blade: 16.6 KPM			
RPM Front Bla		Front Blade: 820/M	IN Side Blade:1360/M	IIN	
Code	Application		Barcode	Price	
SFLT	For Gas B	urning Stoves	5391524310191	€99.50	



SmartFan Mini



Dimensions	Height:190mm, Wi	Height:190mm, Width:170mm, Depth:135mm			
Weight	800gr	800gr			
Temperature Range	ure Range 60° C - 190° C				
Blade Dimensions Front Blade: 170mm Side Blade: 85mm					
Air Velocity 190°C	ity 190°C Front Blade: 20.5 KPM Side Blade: 14.5 KPM				
RPM Front Blade: 1040/MIN Side Blade:1620/MIN			MIN		
Code Ap	plication	Barcode	Price		
MSFLT For Gas E	Burning Stoves	5391524310672	€79.50		



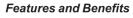




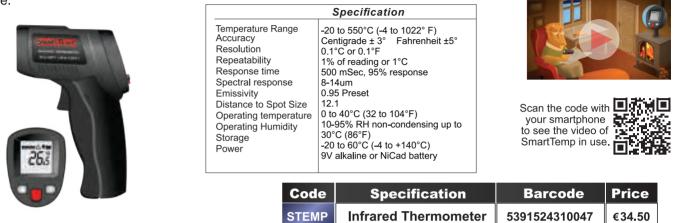
SmartTemp - Infrared Thermometer

SmartTemp thermometer is used to safely and quickly measure the temperature of hot surfaces. It features a laser which can be turned on and used to "target" areas of which the temperature needs to be known. It accurately measures the surface temperature of the stove and/or flue pipes – and from a distance! Suitable for a multiplicity of other uses where there is a requirement to accurately measure surface temperature.





- > Celsius or Fahrenheit switchable
- "Red spot" laser aiming
- Temperature hold
- Backlit LCD display
 - 20 seconds auto power off
 - Light weight and easy operation



SmartSense - CO Alarm

A simple and effective device which may be wall or ceiling mounted and which will provide an effective warning of the presence of Carbon Monoxide. When the SmartSense is in standby mode, it will display "0 PPM". This display indicates that the sensor is detecting 0 parts per million of CO2 gas. The detector has been designed to detect levels above 50PPM. SmartSense complies with and is certified to the requirements of EN 50291 :2001. (European Standard for Domestic CO alarms).

Features and Benefits

- 85 decibel alarm loud enough to awake you from sleep
- LCD displays concentration of CO in the range 30 999 ppm
- Battery operated (included) end of battery life audible warning
- Records alarm activation peak CO level
- Sealed and fully tamper proof, comes with 5 year warranty
- Test / Reset button allows testing and silencing of alarm
- Includes 3 LED indicators: green=normal, red=alarm, yellow=fault



Price

€29.50

Detection Rate	Alar	rm Response Time	
50 PPM	withir	n 60 and 90 minutes	
100 PPM	withir	n 10 and 40 minutes	Scan the code with
300 PPM		within 3 minutes	your smartphone to see the video of
			SmartSense in use.
	Code	Specification	Barcode

SmartBurn - Moisture Meter

A simple and effective device which enables the moisture content of firewood to be determined.



Features and Benefits

CO Alarm / Detector

- Detects moisture level in wood and other combustible materials
- Wide measuring range: 3.0% 40.0%
- Accurate to +1% or -1%
- Microprosessed bar graph reading
- Data HOLD button

SSENSE

- Low battery indicator auto power off
- Heavy duty and robust construction
 - 9V battery operated (supplied)
- Provided in protective carry case



Scan the code with your smartphone to see the video of SmartBurn in use.

5391524310030

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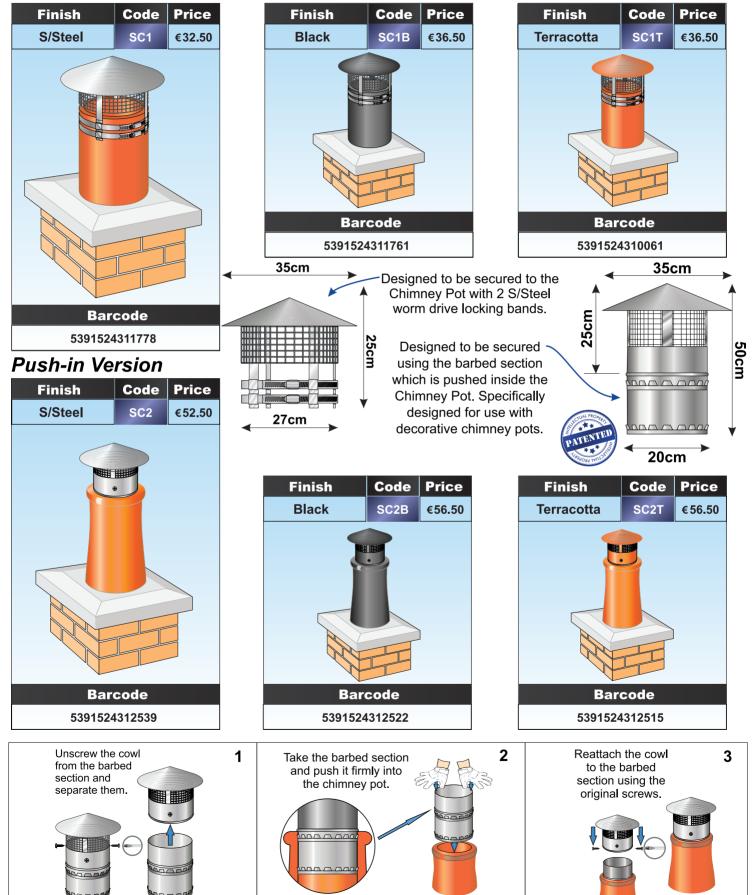
Code	Specification	Barcode	Price
SBURN	Moisture Meter	5391524310023	€24.50

Chimney Cowls - Smart Cap

Tested to and complies with BS EN 16475-7:2016

Smart Cap is suitable for most conventional clay chimney pots or extended chimney liners with an 8" (200mm) internal diameter, the external diameter of which would normally be about $9\frac{1}{2}$ " (240mm). It is designed to prevent bird entry and to reduce rain ingress. It is available in 4 finishes which are illustrated below.

Strapped Version



Features and Benefits

Prevents rain and bird entry

Made from corrosion proof stainless steel

Durable construction and universal fitting

Suitable for use with gas fired appliances

Fits most conventional chimney pots

Chimney Cowls - Smart Storm

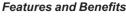
Tested to and complies with BS EN 16475-7:2016

Made from stainless steel, the Smart Storm Cowl is designed to fit an 8" (200mm) internal diameter chimney pot or extended chimney liner, the external diameter of which would normally be about 91/2" (240mm). Storm Cowl helps to prevent the entry of debris and bird nesting materials. It is very easily fitted and the skirt and dome design assists in redirecting wind movement.

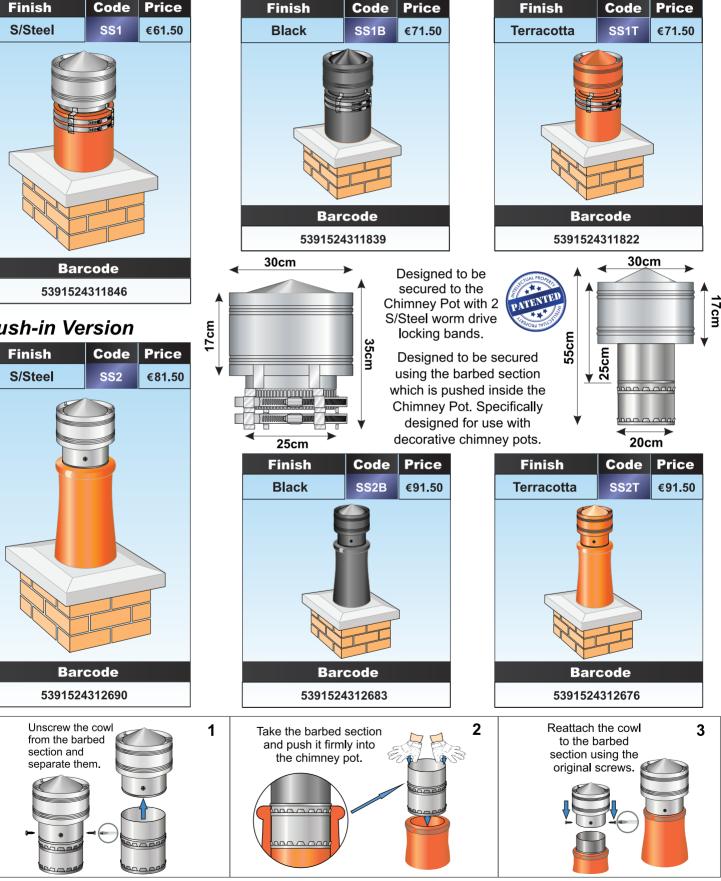
Strapped Version

Finish Code Price S/Steel €61.50 SS1 Barcode 5391524311846

Push-in Version



- > Made from corrosion proof stainless steel
- Designed to fit most conventional chimney pots
- > Helps to prevent the entry of debris and bird nesting materials
- Durable construction and universal fitting
- The skirt and dome design assists in redirecting wind movement preventing downdraughts



Chimney Cowls - Smart H

Tested to and complies with BS EN 16475-7:2016

Made from stainless steel, the H Cowl is designed to fit an 8" (200mm) internal diameter chimney pot or extended chimney liner, the external diameter of which would normally be about 91/2" (240mm). Designed to prevent foreign bodies entering chimneys, to increase updraught and to prevents rain ingress, H Cowls are available in 4 finishes which are illustrated below.

Finish

Black

Code

SH1B

Barcode

5391524311914

69cm

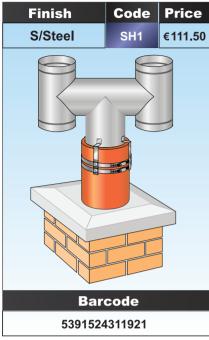
Price

€120.50

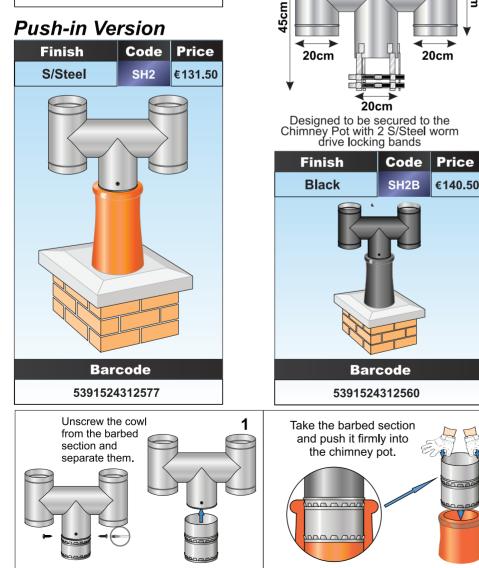
35cm

2

Strapped Version

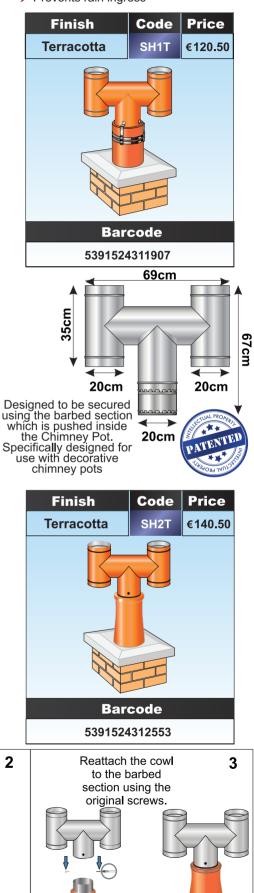


Push-in Version



Features and Benefits

- > Promotes positive updraught
- > Helps to prevent downdraught
- Fits most conventional chimney pots
 Made from corrosion proof stainless steel
- Durable construction
- Quick and simple to install
- Prevents rain ingress



Smart OH Cowls - Designed to Increase Updraught

Features and Benefits

Durable construction

Prevents rain ingress

venturi effect, induces suction as it

passes the horizontal tube and the hot

gases and smoke exit out of the vertical

tubes. Any upward gusts of air will also

act in a similar manner, so this design of

"OH" cowl becomes very effective in

subject to"d ownd raught".

windy conditions where the chimney is

Promote positive updraught
 Fits most conventional chimney pots

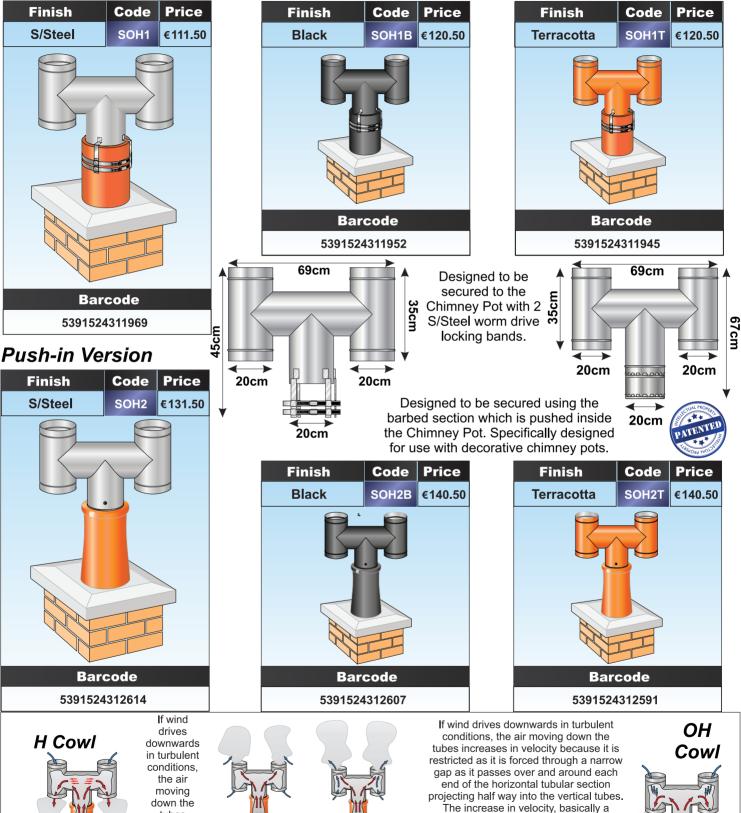
Quick and simple to install

Made from corrosion proof stainless steel

Tested to and complies with BS EN 16475-7:2016

H & OH Cowls are suitable for most conventional clay chimney pots with an 8 inch (200mm) internal and 9½ inch (240mm) external diameter. Designed to prevent foreign bodies entering chimneys, to increase updraught and to prevents rain ngress, H & OH Cowls are available in 4 finishes which are illustrated below.

Strapped Version



moving down the tubes induces suction as it passes the horizontal tube and

In normal or still air conditions, the hot

gases and smoke pass up the chimney

and exit out of the top of both of the

vertical tubes.

gases and smoke exit out of the bottom of the vertical tubes.

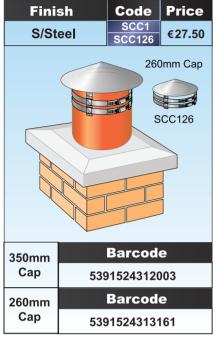
10

Chimney Cowls - Smart Capping

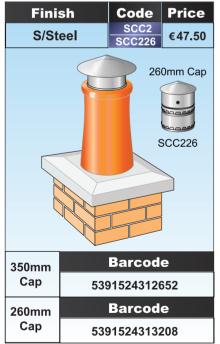
Tested to and complies with BS EN 16475-7:2016

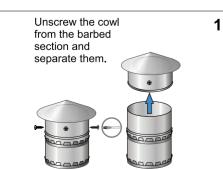
Smart Capping is easily secured to the top of a masonry chimney which is no longer to be used. It is designed so that a narrow gap is left between the cap and the top of the chimney pot or liner. This enables trickle ventilation of the flue which is necessary to prevent residual moisture in the stack creating damp problems.

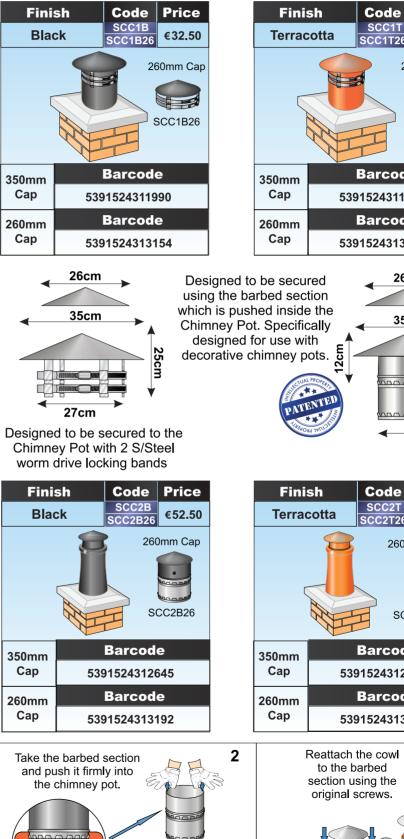
Strapped Version



Push-in Version







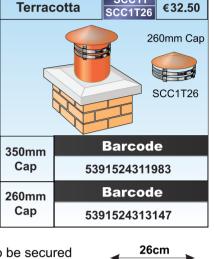
Features and Benefits

 \triangleright Cap size: 350mm & 260mm (will fit an 8" standard flue)

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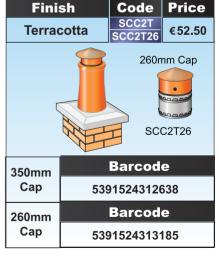
Price

- Made from corrosion proof stainless steel
- \triangleright Fits most standard chimney pot diameters
- Prevents foreign bodies from entering chimneys
- Reduces heat loss through the chimney by up to 80%
- Eliminates rain ingress





Finis	sh	Code	Price	
Blac	:k	SCC2B SCC2B26	€52.50	
			Omm Cap	
350mm		Barcod	е	
Сар	5391524312645			
260mm		Barcod	е	
Сар	539	015243131	92	

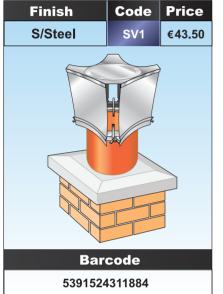




Chimney Cowls - SmartVent and SmartDraught

SmartVent

The Smart Vent prevents foreign bodies entering the chimney and is designed to increase updraught and reduce downdraught. It is suitable for chimney pots with an 8" (200mm) internal diameter, without the need to take into consideration the external diameter and is available in 4 finishes which are illustrated below. The closed upper surface of the terminal impedes the downward movement of wind which might otherwise create a down draught within the chimney. The curved shape of the four vertical walls behaves like an aerofoil which creates a negative pressure on the inner curved edge as wind passes over.



30cm 30cm

Designed to be secured to the Chimney Pot with 4 concealed "claws" which tighten using the pre-fitted wing nuts.

Finish	Code	Price
Black	SV1B	€49.50
]
Bar	code	
5391524	311877	

Hanging SmartCap

The Hanging Smart Cap which is available in 2 colours >

(Stainless Steel and Terracotta) and 4 sizes (5", 6", 7" and 8"), comes complete with integral rain cap and bird guard. This allows the chimney liner to be installed without the need to remove the pot and prevents any bird entry whilst providing increased rain protection. It is used at the top of the chimney pot to take the weight of the liner; simply push the liner between the three straps and tighten the supplied jubilee band and secure against the pot.

Features and Benefits

- Sizes Available: 5", 6", 7" and 8"
- Durable Construction, manufactured from Powder Coated S/Steel
- Quick and simple to install with integral Bird Guard with an 8" internal diameter
- > It is not necessarily to remove the chimney pot for installing a clamping plate
- Secures flexible flue liner in place
- > Prevents bird entry and rain ingress

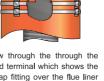
Size	Code	Barcode	Price	Size	Code	Barcode	Price
5" (125mm)	HANGCAP5	5391524312720	€70.50	5" (125mm)	HANGCAP5T	5391524312775	€80.50
Size	Code	Barcode	Price	Size	Code	Barcode	Price



With the upper screw adjusted band A loose, slide the inner tube B of the terminal down inside the top of the flue liner until the liner top meets the underside of the rain cap. Securely tighten the band so that it tightly grips the liner.

With the liner fully supported, substantially loosen the two screw adjusted bands C so that they will fit around the projecting masonry liner or pot. Carefully lower the liner down into the chimney flue so that the screw adjusted bands slide down around the outside of liner or pot D until the top of which sits firmly under the rain cap

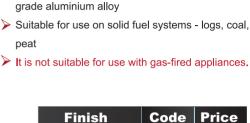




A view through the through the applied terminal which shows the rain cap fitting over the flue liner and the chimney masonry liner or

pot

A view of the top of the completed liner installation.



Features and Benefits

Prevents foreign bodies from entering chimneys

Promotes positive updraught and reduces

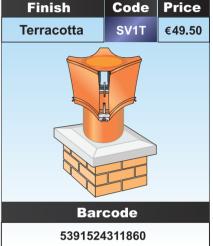
Fits most conventional chimney pots

Durable Construction from 1,2mm thick high

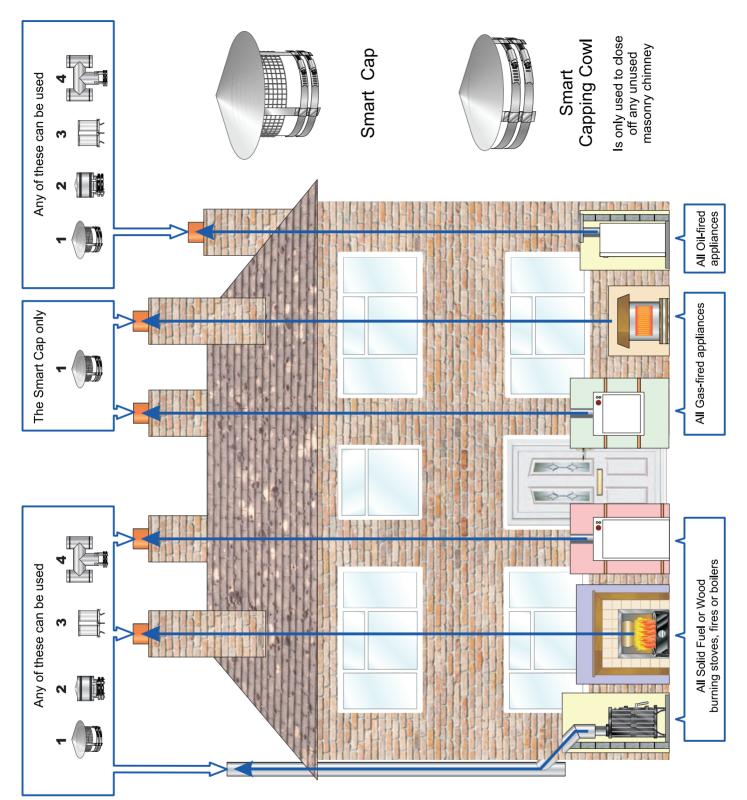
downdraught

>

 \triangleright



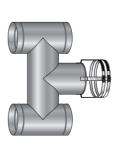
Chimney Cowl Application Chart



Smart Storm Cowl



SmartVent



Smart H and OH Cowl

Smart Balloon - Chimney Flue Balloon



The SmartBalloon is a reusable, simple and easy to use household device that reduces the amount of heat loss through the chimney flue while at the same time maintaining a ventilated living room when the fire is not in use. Because warm air naturally rises, the chimney flue is a major source of heat loss. The Chimney Flue Balloon effectively provides a barrier to prevent cold draughts and heat loss, saving you money on fuel bills and naturally making the living area warmer, more comfortable and with less cross draughts.

Features and Benefits

- Prevents warm air unnecessarily escaping up the chimney flue
- Reduce heating costs & excessive cross room draughts
- Easy to install, inflate and remove
- > Prevents cold draughts blowing down the chimney providing for trickle ventilation
- Durable design may be repeatedly used season after season
- Mini pump and hose included



Scan the code with your smartphone to see the video of Smart Balloon in use.





Size	Code	Barcode	Price	SMART BALLOON Chimney Flue Balloon Pound
up to 9" (225mm) Small Round	SB2	5391524312027	€24.50	<u> </u>
Size	Code	Barcode	Price	
up to 12" (305mm) Large Round	SB3	5391524312034	€25.50	Te Co
				Pir Pir

Square Chimney Flue Balloon - Suitable for Chimneys with a Square Flue Liner

	Size	Code	Barcode	Price	Strang Balloon
	9" x 9" (225mm) Small Square	SB4	5391524312041	€24.50	
ž k	Size	Code	Barcode	Price	
	12" x 12" (305mm) Large Square	SB5	5391524312058	€25.50	
					None and Non

Rectangular Chimney Flue Balloon - Suitable for Masonry Chimneys without a Flue Liner

	Size	Code	Barcode
	15"x 9" (375x225mm) Small Rectangular	SB1	5391524310016
	Size	Code	Barcode
	24"x 12" (610x305mm) Medium Rectangular	SB6	5391524312065
	Size	Code	Barcode
	3120	Code	Barcoue
ेंगे	36"x 15" (915x375mm) Large Rectangular		5391524312072



Price

€26.50

Price

€28.50

Price

€30.50





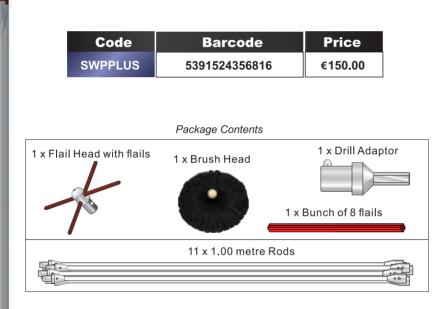


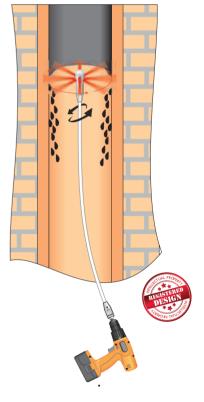


The SmartSweep PLUS rotary chimney cleaning kit is primarily designed for regular professional use. It is connected to a power drill (not supplied) when the flail head is fitted but may also be used by hand, using the traditional sweep brush. Although it is easier to use the device through an open fireplace, the kit is intended for use in any type of flue and can also be used through stoves and other heating appliances connected with flue pipes of 125mm (5 inch) diameter or greater. The kit contains 11 rods which can be assembled to remove soot from an 11 metre (36 feet) high chimney. The flail head is designed to remove loose soot particles and fly ash from the walls of the flue whilst the sweep brush is intended for brushing the chimney in a traditional manner. SmartSweep Plus is supplied in a strong, portable, plastic capped tube.

Features and Benefits

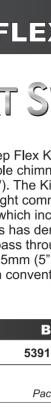
- > Suitable for professional use
- > 11 metre long kit (36 feet)
- > Easily removes light deposits of soot and creosote
- > Easy to connect rods together
- > Flexible & strong rods made from 12mm solid POM
- > May be used over and over again
- > Additional lengths may be purchased separately
- > Traditional "Sweeps Head" included
- > Spare bunch of Flails included





SmartSweep PLUS Spares

Sinarioweep FLOS Spares				
	Component	Code	Barcode	Price
	1.00M Spare Rod	SWPS5	5391524358308	€10.50
<u> </u>	Component	Code	Barcode	Price
	Spare Drill Adaptor	SWPS2	5391524312379	€5.50
	Component	Code	Barcode	Price
	Spare Flail Head	SWPS3	5391524312386	€21.50
	Component	Code	Barcode	Price
	Spare Brush Head	SWPS6	5391524358315	€15.00
	Component	Code	Barcode	Price
	Bunch of 8 Flails	SWPS4	5391524312393	€7.50



VFFP

Liner

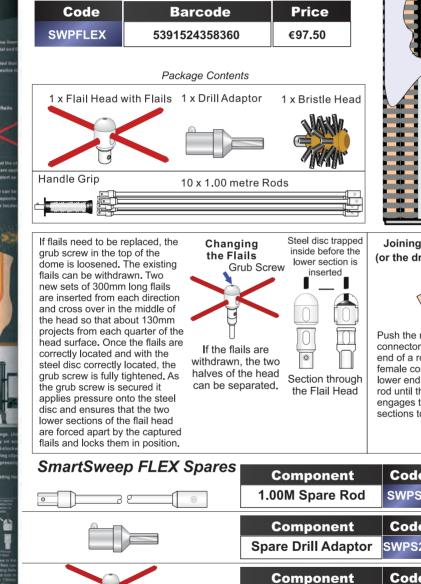
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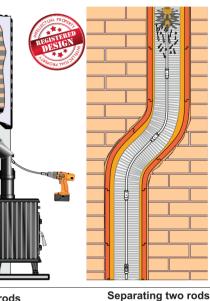


The Smart Sweep Flex Kit provides a novel method of cleaning flexible chimney flue liners of diameters up to 150mm (6"). The Kit is designed to be used in residential and light commercial applications. The unique system, which incorporates 10mm diameter POM plastic rods has demonstrated that the flail head is able to pass through changes of direction of up to 45° in a 125mm (5") flexible liner, a procedure not possible with conventional flexible liner cane rods!

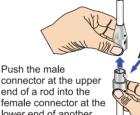
Features and Renefits

- Suitable for flexible flue liner cleaning 10 metre long kit (33 Feet)
- Easily removes light deposits of soot and creosote
- Easy to connect rods together
- Flexible & strong rods made from 10mm solid POM plastic
- > May be used over and over again
- > Additional lengths may be purchased separately





Joining two rods (or the drill adaptor)



connector at the upper end of a rod into the female connector at the lower end of another rod until the button A engages to lock the two sections together.

(or the drill adaptor)



Fully push in the button A in the female connector and simply pull the components apart.

SmartSweep FLEX Spares	Component	Code	Barcode	Price
	1.00M Spare Rod	SWPS7	5391524358339	€7.50
	Component	Code	Barcode	Price
	Spare Drill Adaptor	SWPS2A	5391524358469	€4.50
	Component	Code	Barcode	Price
Le le	Spare Flail Head	SWPS9	5391524358353	€17.50
Marik	Component	Code	Barcode	Price
	Component Spare Bristle Head	Code SWPS8	Barcode 5391524358346	Price €12.50
	Spare Bristle Head	SWPS8	5391524358346	€12.50
	Spare Bristle Head Component	SWPS8	5391524358346 Barcode	€12.50 Price

Smart Rod - Drain Cleaning Kit

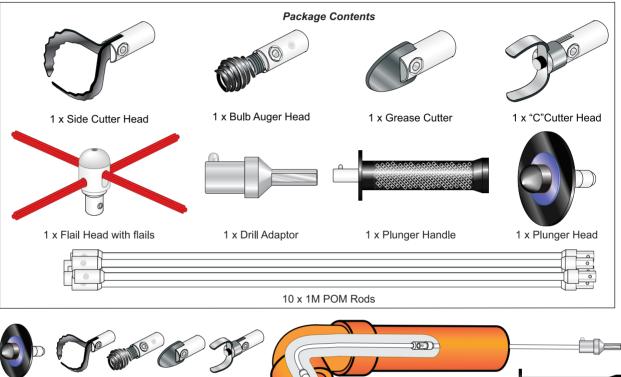






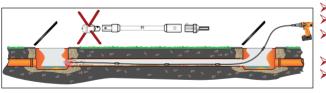
The Smart Rod drain cleaning and un-blocking system is a new and novel method of dealing with blockages and obstructions in

drains. Smart Rod is designed to be used primarily by DIY residential and light commercial operators. The unique rod system, which incorporates 10mm diameter POM rods, has demonstrated that both the Flail Head and the various tools have been able to pass through two connected 90 degree Elbows in a 100mm (4") drain pipe - a procedure not possible with conventional cane or polypropylene rods!





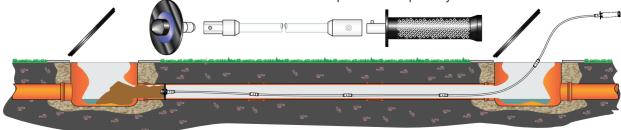
As the Flail Head is rotated and pushed along the sewer pipe to loosen deposits or blockages, more Rods as required are added until the blockage has been removed or significantly broken up. Once the Flail Head appears at an access point and it can be seen that the Flail Head has loosened or removed the blockage, the rods are withdrawn.



The Plunger Head is fitted and any remaining residue in the drain can now be pushed along the drain into the next suitable access point for removal. The Plunger Head and connected Rods are pushed into the drain pipe adding Rods as required. Use the Push Handle for the purpose.

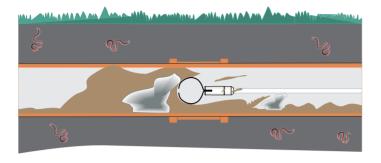
Features and Benefits

- Suitable for Professional and DIY use
- 10 metres long kit (30 Feet)
- Easily break up any debris which will be push along the pipe until it can be removed
- Easy to connect rods together
- It comes with a flail head, plunger head, bulb auger head, grease cutter, "C"cutter head, side cutter head, drill adaptor and hand grip
- Flexible, yet very strong rods are made from 10mm diameter solid POM
- May be used over and over again >
- Additional lengths and accessories may be \triangleright purchased separately

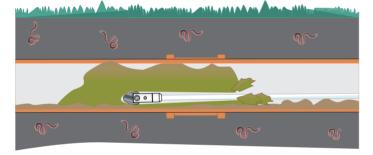




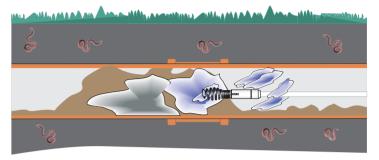
The **Side Cutter** Head which features a 47mm wide toothed "claw" which when rotated will loosen fabric materials or heavy paper blockages which can then be withdrawn or pushed on to the drain cleaning point.



The **Grease Cutter** which features a heavy 33mm wide blade which when rotated is designed to loosen, push through and remove stubborn grease deposits.

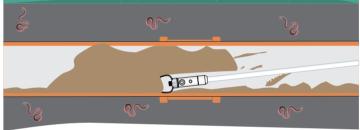


The **Bulb Auger** Head which features a 27mm diameter pointed spiral head which when rotated will impale fabric material or heavy paper blockages which can then be withdrawn or pushed on to the drain cleaning point.



The **"C"Cutter** Head which features a heavy 33mm wide blade which when rotated is designed to loosen and remove more stubborn deposits, after which the Flail or Plunger Head should be more effective.





Smart Rod utilizes a rotating head fitted with nylon flails to break up any encrusted deposits. The flail head is advanced along the drain pipe with sections of flexible POM rods. It is rotated while being advanced with the use of a battery operated drill gun (supplied by the operator). The flexible POM rods that are used to advance the heads allow the system to operate around tight right angle bends and even "S" bends which would not be possible for conventional drain clearing rods. Once connected to a POM rod, it is inserted into the drain pipe and the other end of the rod is "snapped" onto the drill adaptor. As the flail advances, more rods are applied in the same way. The flails have a diameter of 300mm (12") and are designed to distort as the head is pushed into the drain pipe. Because the drain rod joints are not secured by a screw thread, the drill can be set to run in either the forward or reverse direction without the possibility of the rods separating. This can be an advantage where stubborn blockages are encountered.

	Smart Rod Spares								
	Component Spare Handle Grip	Code SWPS10	Barcode 5391524358391	Price €7.50		Component Plunger Head	Code SRODS1	Barcode 5391524358384	Price €5.50
	Component Bulb Augier Head	Code SRODS2	Barcode 5391524358421	Price €5.50	S. Tracilla	Component 1.00M Spare Rod	Code SWPS7	Barcode 5391524358339	Price €7.50
O	Component Side Cutter Head	Code SRODS3	Barcode 5391524358438	Price €5.50		Component Spare Drill Adaptor	Code SWPS2A	Barcode 5391524358469	Price €4.50
X	Component "C" Cutter Head	Code SRODS4	Barcode 5391524358445	Price €5.50		Component Spare Flail Head	Code SWPS9	Barcode 5391524358353	Price €17.50
	Component Grease Cutter Head	Code SRODS5	Barcode 5391524358452	Price €5.50		Component Bunch of 8 Flails	Code SWPS4	Barcode 5391524312393	Price €7.50

Loft Insulating Products





- Strong Reinforced Polypropylene Elevators

LoftLifters are easily fitted, purpose designed, strong reinforced polypropylene elevators which enable the addition of at least 180mm (7") of roof space insulation and the subsequent fitting of a walkable floor. Most houses are constructed so that roof trusses or joists are located about 400mm (16") apart. LoftLifters should be positioned on the trusses at intervals of 600mm (24") so that they can adequately support flooring materials subsequently secured to them. Available in boxes of 12, 48 and 96, these legs when used on rafters at 400mm (16") centres, will permit the laying of 1.2, 4.8 and 9.6 square meters of flooring.

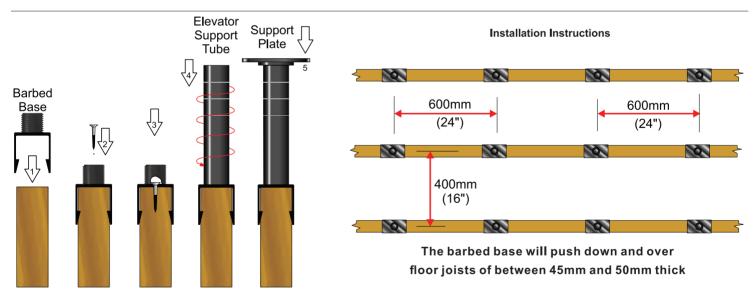


vour smartphone



Code	Specification	Barcode	Price
LL1	Box of 12 Legs	5391524310139	€14.50
Code	Specification	Barcode	Price
LL4	Box of 48 Legs	5391524358407	€56.50





1. Snap or slide the Barbed Bases over the wooden roof trusses, (joints) so that they are no more than 600mm (24") apart along the length of the trusses, which are usually located at 400mm (16") centres;

2.Drill holes through the bottom of the Barbed Bases and secure to the trusses with suitable screws of not less than 35mm (11/2") in length;

3.Secure the Elevator Support Tube on the barbed base by screwing it down firmly onto the threaded upstand. **NOTE** that each tube has 25mm cut off marks so that they can be shortened if a lower floor level of less than 180mm is required;

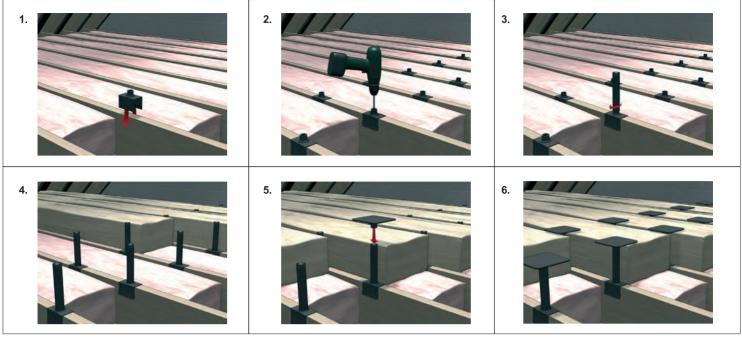
4.Repeat this procedure until all of the Elevator Support Tubes are positioned at locations which form a 600mm x 400mm interval grid on the roof trusses.

NOTE. Depending on the roof space layout and design, it may be necessary to use battening or other supports against party walls or close to the eaves;

5.& 6 Push a Support Plate into the top of each Elevator Support Tube. Suitable flooring materials can now be secured to the top of the Elevator Support Tubes using wood screws as shown in the illustration on the top of this box.

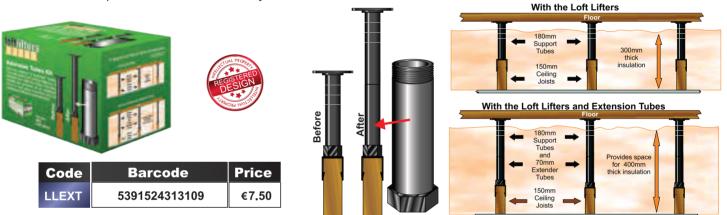
NOTE. To ensure a secure and safe walking/storage surface, make sure that any corners of the flooring materials meet in the centres of the LoftLifters Support Plates .

Loft Insulating Products



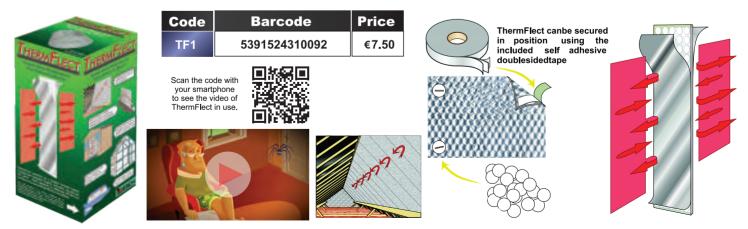
LoftLifters Extenders

The box contains 12 Extension Tubes which will extend the vertical distance of Standard Loft Lifters by 70mm. This will enable the provision of an additional 70mm roof space insulation and the subsequent fitting of a walkable floor. The Barbed Base will push down and over floor joists of between 45mm and 50mm thick.



ThermFlect - Double Sided Multipurpose Heat Reflecting Barrier

ThermFlect Double Sided Multipurpose Heat Reflecting Barrier consist of a Bubble Formed Matrix Sandwiched between highly reflective foil skins. Heat radiation is reflected off the foil surfaces thus providing effective insulation. ThermFlect can be secured in position using the self adhesive double sided tape and/or the plastic discs, where stapling is the preferred method of fixing. Both, the tape and disc are supplied with the product.



The box contains a 10 metre x 400 mm roll of ThermFlect, a 5 metre x 25 mm roll of Strong Double Sided Adhesive tape and 40 x 0.5 mm thick 20 mm diameter stapling discs. In combination these materials enable many applications, some of which are illustrated here.

ThermLight

Introduction

Therm Light is a unique device which is powered by the use of a small lighted candle commonly referred to as a "Tea Light". The heat generated by the Tea Light converts heat energy into electric energy; thereby powering an array of 18 bright white LED's. This conversion of energy is achieved through the use of the Thermal Power Generator which is located inside the main body. It features Thermal Electric Plates, also known as "Peltier" Modules, which when heated on one side and cooled on the other, generate a small electrical voltage. The thermal power generator is made up of a specially designed aluminium block featuring cooling "fins" with two Peltier Modules affixed to it in a manner that enhances the concentration of both heat and cool.

User Instructions

Open the star-like section at the base by pulling it towards you. It is hinged and will therefore open like a gate. It features a "well" into which a lighted Tea Light is placed. Close it, ensuring it locates into place. Gently pull up the "winged" top section which is attached to the body by means of two telescopic rods. Take care not to over stretch them. Open the "wings" which act as light deflectors. The complete section may be pivoted in either direction. The LED Lamp will start to illuminate after about 20 seconds of the lighted candle being placed inside. ThermLight is now ready for use and should be placed in a convenient location. The angle at which the winged top section is positioned determines to a large extent the intensity and area of illumination. A typical Tea Light will burn for about 4 hours providing a highly economic source of light in both an indoor or outdoor setting.

- ThermLight has numerous practical applications:
- 1. Reading lighting
- 2. Mood lighting
- 3. Down lighting
- 4. Fishing lighting
- 5. Camping lighting
- 6. General lighting (in dwellings not connected to an electrical supply)
- 7. Eco friendly lighting applications

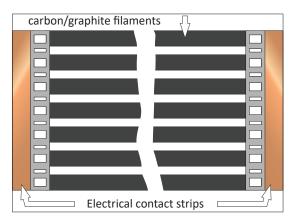
Code	Barcode	Price
TLIGHT	5391524313093	€112.50

Features and Benefits

- > Continuous light converted from the heat generated by a lit tea light.
- Cost effective a typical tea light lasts for up to 4 hours
- Eco friendly no batteries required
- Suitable for both indoor and outdoor use
- Made from corrosion proof materials.
- Very long lasting LED's will typically last for up to 20,000 hours!
- Produces up to 20 times the light normally generated by a tea light.
- > Multi directional and intensity of light may be set
- Does not rely on the use of batteries and therefore no disposal problems to contend with
- > Does not require mains electricity.







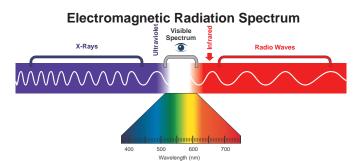
How does it work?

It provides underfloor heating to rooms and in such a way that it has no impact on the room design or furniture layout. Unlike a conventional radiator heating system, it requires no maintenance and is very simply and effectively controlled.

It utilises the Infrared part of the electromagnetic radiation spectrum to radiate infrared heat. Infrared radiation (IR), often referred to as infrared, is a region of the electromagnetic radiation spectrum where wavelengths range from about 700 nanometers (nm) to 1 millimeter (mm). Infrared waves are longer than those of visible light but shorter than those of radio waves. It is part of the electromagnetic radiation that objects radiate when they are hot but not quite hot enough to emit visible light. It is invisible to human eyes, but it's radiation is felt as heat.

The human skin can "**see**" **infrared light** (it is reacting to the infrared photons), not just the heated air.

Your entire skin surface is an infrared eyeball! On a sunny day, step outside, close your eyes and you will discover that it's very easy to find where the sun is in the sky without seeing any visible light at all, by using the palm of your hand as your "eye". In the winter, we feel comfortable with a sweater on when the room air temperature is 21C. In the summer, we feel more comfortable wearing a t-shirt in the same room air temperature. The explanation is that even though the air temperature is the same, the walls and ceiling radiate IR waves from the outside sunshine during the summer, which thereby causes our bodies to be warmer The carbon/graphite elements between the electrical contacts on each side of the mat resist the electrical input by heating up and emitting infrared energy.



InfraMat is a PET (polyethylene terephthalate thermoplastic) double-sided laminating mat sandwiching an electrical circuit incorporating parallel carbon/graphite filaments, the opposite ends of which are attached to silver based strips which in turn connect to copper contact strips. As an electrical current is passed through the contacts, the resistance created by the carbon/graphite filaments causes an emission of infrared heat. It is suitable for use under floating wooden or laminate floors, or vinyl or linoleum covered floors. It cannot be bedded into cast concrete or below ceramic tiles. It should not be installed in damp areas such as bathrooms, laundries or outdoors.

Code	Size	Barcode	Price
IMAT4	4 Square Metre Kit	5391524361094	€100.00
Code	Size	Barcode	Price
IMAT6	6 Square Metre Kit	5391524361100	€150.00
Code	Size	Barcode	Price
IMAT8	8 Square Metre Kit	5391524361117	€200.00
Code	Size	Barcode	Price
IMAT10	10 Square Metre Kit	5391524361124	€250.00
Code	Size	Barcode	Price
IMAT12	12 Square Metre Kit	5391524361131	€300.00

Is infrared harmful to the body?

Any form of radiation, including visible light or radio waves, could potentially be dangerous if highly concentrated into a narrow beam of very high power (which is the principle of lasers). We are all immersed in Infrared radiation every day. It is nothing more than heat.

How does infrared radiation work?

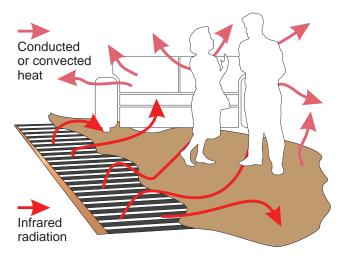
The best infrared heating sources provide heat in a way not unlike the sun, which also gives off "infrared" rays. These rays pass through the air and instead of creating hot air, infrared rays are absorbed by solid objects in the environment. These surfaces, including people and furniture become warm and in turn emit heat via conduction and/or convection.

What material can block infrared?

Any electrically conductive material will block infrared radiation. The greater the conductivity, the greater the blocking. Aluminum foil will completely block all infrared radiation. Infrared radiation will not pass through glass. Most plastics will allow infrared radiation to pass through it.

Does infrared heating use a lot of power?

Infrared heat is safer than conventional, resistive heat, but it takes just as much electricity to produce it.



InfraMat- Infrared Underfloor Heating

Planning the InfraMat requirement

Plan out the installation for each room by measuring the length and the width and sketch it onto the graph layout shown below. A separate graph sheet will be required for each room. The graph has been set up with blue 1m squares and with red lines dividing the graph into 500mm square areas. This layout enables appropriate width InfraMats to be superimposed for area calculation purposes. InfraMat is available in widths of 300mm, 500mm, 800mm and 1000mm and these widths are shown to scale underneath the graph. Using a combination of these widths and providing a minimum 100mm (4") clearance between the edge of the mats and the surrounding walls, work out the lengths and widths of mats required for the room. The mats should not overlap and a gap of at least 30mm should be left between the sides of each mat. Do not prepare layouts so that mats are underneath any large solid objects; unless they are on legs which allow a floor clearance to enable warm air to circulate. Once the heating requirement for the room has been determined, calculate the total Wattage of the proposed InfraMmat configuration by multiplying the length of each mat by it's Wattage per linear metre. The Watt per square metre outputs are as follows: 500mm mat 1000mm mat = 220w/m 300mm mat = 67 w/m=110w/m 800mm mat =176w/m

Calculating room heating requirements

The procedure for calculating room heating requirements can be carried out using two methods, either by "Rule of Thumb" or using an accurate method which takes into account the construction of the walls, floor, ceiling and windows which surround the room to be heated. The latter is more often used when designing a radiator based central heating system. In either case, the required room temperature as well as the rate at which it is ventilated is taken into account and based on an assumed external ambient temperature of -1°C. The Rule of Thumb method is generally sufficient for calculating the InfraMat requirements.

Rule of Thumb Guide calculation

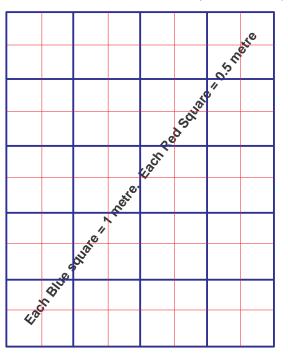
Determine the room volume in cubic metres i.e., the Width x Length x Height and multiply this value by relevant Multiplication Factor in the table to the right. This will provide the required output in kW.

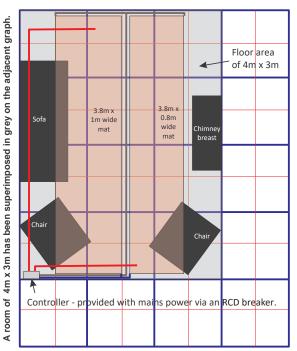


The mat outlines shown here are drawn to the same scale as the graph below.

The calculations in the example shown above give a heat input requirement of 149 kW. As 1m² of InfraMat provides 220w, dividing 149kW x 220w indicates that about 6.8m² of mat is needed for this application. As a minimum clearance of 100mm is needed between the mat edges and any wall, one 3.8m length of 1m wide mat provides 3.8m² and the remaining 3m² is provided by using a 3.8m length of 800mm wide mat.

The layout is dependent on there only being furniture with legs standing over the mats so that warm air produced by the mats can easily circulate. Consideration has also been given to the location of a power supply and appropriate Controller. Note that the sensor locations are not critical, but they should be separated by at least 2m and can be located on the same mat.



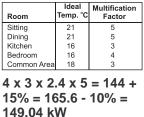


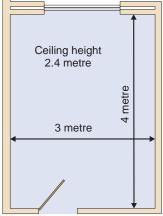
The Wattage load on the controller **should not exceed 3000 watts**, so if the combined wattage of the mats required for a room is greater than 3000, then plan to use more than one controller. Locate the controller on a convenient position on the wall where it will not be adversely affected by sun light or draughts. The power to the controller must be supplied via an RCD breaker.

Note: that the following factors should also be observed.

- If the outside wall of the room faces North, add 15%
- If the room has French Doors, add 20%
- If the room has double glazing, subtract 10%

Example: Calculate the heating requirement for a sitting room 4m x 3m x 2.4m high. The outside wall faces North and has double glazing.







Items included in the InfraMat Kit

Inframats

Individual lengths of Inframat, supplied to the customer's widths and length instructions. The mats will have been provided and identified in accordance with the customer prepared graph sheets. Each mat will be fitted with eyelet connectors on two diagonally opposite corners.

Eyelet Connector

Connecting Cables

Sufficient and appropriately coloured brown and blue mains voltage cable is supplied to enable connections to be made between all the mats and the Controller.

Suitable tools will be needed to strip the cable ends and to crimp the Eyelet Connectors after the ends have been inserted.

The Sensing Heads and cables

The sensors are fitted at the end of 2 meter long red cables to enable connections to be made to the Controller.

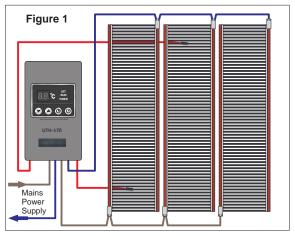


Installation Instructions

1 The surface of the floor onto which the Mat is to be installed must be clean and flat. Ensure that there are no depressions or sharp protrusions. If installing onto a concrete floor, ensure that it is fully dry with a moisture content of less than 2% (approximately 60% relative humidity).

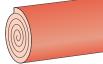
2 Roll out the underlay and cut to the required length. Do use an alternative underlay with a metallic foil coating. Leaved a gap of about 20mm between each length of underlay and around the edges next to walls to accommodate cables. underlay can be held in position and restrained from curling up with small pieces of duct tape.

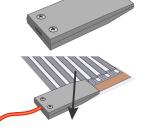
3 The Mat strips will have been supplied to the required widths and cut to the lengths as per the custom requirements. Each mat will have an identifying labeer's match the prepared room layout graphic. Care must be taken not to damage the Mat by standing on it during installation.



Plastic Insulation Cover

These covers are used to "snap" over the Eyelet connected terminals once the connections have been made. Two are provided for the connections on each mat.





Underlay

Rolls of sufficient underlay to support and insulate the area on which the InfraMats are to be laid.

PE (LDPE) Film

Rolls of sufficient 0.25mm thick PE (LDPE) film to lay over the top of the mats once positioned and electrically connected. The film provides a membrane against moisture ingress.

The Controller

One or more of these are provided depending on individual room requirements.



Insulating Tape One roll



4 The cables now need to be connected between the Mats and the controller. Each group of mats strips should be connected in parallel. The connections to each strip must be diagonally opposed. Plan where the connections are going to be made and the cable routes back to the controller. See the Figure 1.

5 Strip the insulation from the end of the cable back by approximately 10mm exposing the stranded conductors. Twist the conductors to prevent them from splaying. The cable socket of the eyelet connectors are sized to accept two cables, if only one cable is to be inserted, strip the insulation back further and fold it over.



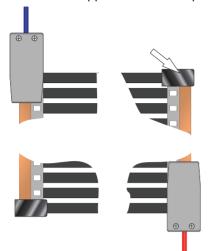
6 With the cable(s) firmly inserted into the socket of the eyelet connector, use crimping pliers to permanently secure the joint.

7 The joint can now be encased within the plastic insulation cover. Use the cable-grip strap within the bottom cover to firmly fix it in place. The cover should be pushed up to the edge of the Mat while tightening the two screws. Now the top cover can be 'snapped' into place by placing it over the barbed pegs and pushing down firmly.

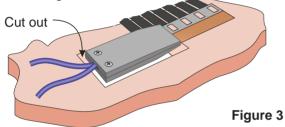
> **Tip:** Test the security of the connections by gently pulling on the cables!

8 The opposite bare copper strip can now be covered with insulating tape. See Figure 2.

Figure 2 Insulating tape wrapped over both sides of the copper and silver strips.



9 Cut out pockets in the underlay that will accept the plastic insulation covers and allow them to reduce their overall height. See Figure 3.

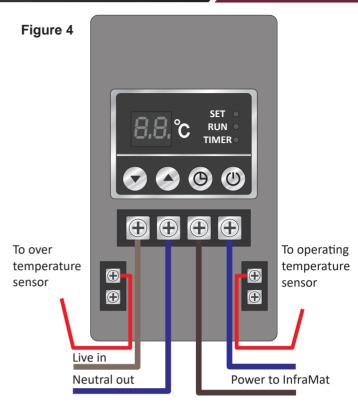


10 When all of the cable interconnections have been completed, route the Live and Neutral cables back to the controller. Before connecting into the controller terminals, measure the resistance through the complete assembly and record the result.

11 There are two temperature sensors that also need to be connected into the controller. One is to measure the operating temperature of the mat and the other is a safety 'over temperature' sensor. The heads of these sensors should be located under a mat at different positions with pockets cut out of the underlay to allow them to sit low enough to avoid any damage. Position the sensing heads below one of the carbon cross strips of the mats. The sensing head and tail can be secured with small pieces of insulation tape. The red lines shown in Figure 1 are connections to the sensors but their location is not critical to the installation.

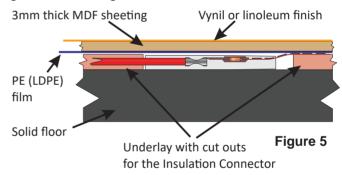
12 Make all of the connections into the controller together with the feed Live and Neutral as shown in Figure 4. Replace the terminal cover of the controller and switch on the power. At this point the red indicator light on the controller will illuminate. Press the 'On' button and the green indicator light will illuminate to show that the system is starting to heat up. The operating temperature can be set using the ▲ and ▼ buttons. Set a low temperature and allow the system to heat up gently. Check for heat at various places on the assembly to ensure that it is all working correctly. When satisfied that the complete assembly is heating up evenly, switch off the power and allow it to cool down.

13 Cover the complete assembly with 0.25mm thick PE (LDPE) film to insulate against moisture ingress and then fit

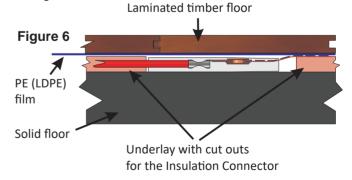


the floor covering.

14 If laying a vinyl or linoleum floor over the Mats, first lay down a 3mm MDF sheeting so as to avoid the pattern of the mats being impressed into the underside of the vinyl. See Figure 5 for covering detail.



15 If laying a laminated timber floor over the Mats, it can be layed straight over the PE (LDPE) film. See Figure 6 for covering detail.



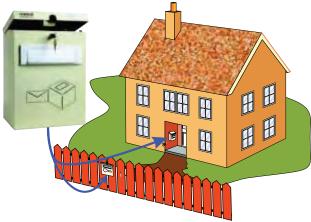
16 Isolate the power and open the terminal cover of the controller. Disconnect the tails for the Mat and measure the resistance through the assembly once more. Compare this measurement with the one taken before the floor covering was laid - any difference would indicate a fault.

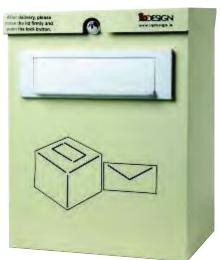
Metal Cabinetry - Parcel Drop Box

The wall mounted box is a simple and secure letter and parcel drop box which allows the delivery of a parcel whenever you are not available. It is designed to be securely fixed onto a wall and is made from weatherproof zinc plated steel and is powder coated to give a stylish finish. It is fitted with a strong locking mechanism to keep your items safe and secure.

Features and Benefits

- > Easy to install (fixings provided)
- > Rain proof, strong and secure
- Functional design
- Large aperture for receipt of parcels
- Corrosion proof
- Other finishes on request

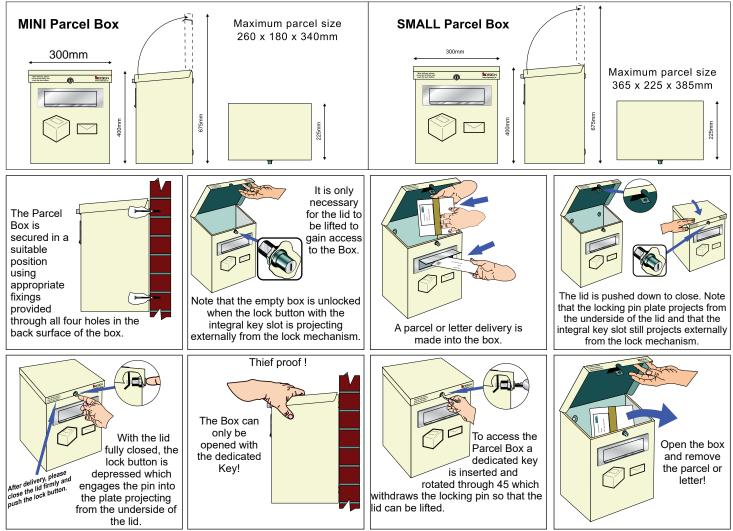




Code	Size	Finish	Barcode	Price
PBDMC	Mini 300x225x400	Cream RAL1015	5 391524 356700	€82.50
PBDMA	Mini 300x225x400	Anthracite RAL7021	5 391524 356717	€82.50
PBDSC	Small 400x275x450	Cream RAL1015	5 3 91524 356724	€90.00
PBDSA	Small 400x275x450	Anthreacite RAL 7021	5 391524 356731	€90.00

How it works

The parcel box has a large hinged lid and a plunger lock fitted to the front. This hinged lid is left closed but unlocked until your parcel is placed inside. The delivery person opens the lid and places the parcel within the box. The lid is then closed and the lock activated by pressing in the button on the lock. The parcel is kept secure and dry until you are ready to retrieve it. You then simply unlock the box with the key and remove the parcel. The box is left closed but unlocked ready for the next delivery.



Terms and Conditions of Sale

In these Terms and Conditions ("Terms"), the following words shall have the following meanings:-

- .

- "the Buyer" shall mean the corporate entity, firm or person seeking to purchase the goods from the Company; "the Company" shall mean IQ Design Limited, Unit 20, Millennium Business Park, Cappagh Road, Dublin 11; "the Contract" shall mean any contract between the Company and the Buyer for the sale and purchase of the Goods, incorporating these Terms; "the Goods" shall mean the goods to be supplied to the Buyer by the Company (including any part or parts of them). them).

THE CONTRACT

- **1.** 1.1 THE CONTRACT Any business undertaken by the Company is subject to all of the aforementioned. No variation in these conditions, whether contained in any official purchase order from the buyer shall be binding unless such variation has been specifically accepted by an official of ours in writing.
- The Buyer must ensure that the terms of his order and any applicable specification are complete and accurate. 1.2
- It is understood that details of any transaction between the Company and the Buyer should not be divulged to any third party. 13

PRICE **2.** 2.1

- All prices shown in this list are exclusive of VAT, which will be charged at the rate applicable on the date of despatch.
- We reserve the right to alter prices or impose increases without prior notice, where fluctuations in the cost of products, raw materials, labour, etc. compel us to do so. 22
- All orders over €500.00 value are delivered free of charge, except when at the request of the buyer, despatches are made by economy courier, carriage will be charged at cost. 2.3
- SPECIALS ARE STRICTLY NON-RETURNABLE 2.4
- Orders for "SPECIALS" will only be accepted in writing. Where applicable these orders must be accompanied by dimensional drawings. 2.5

PAYMENT

- PAYMENT Settlement terms are strictly Net. Payments must be made to terms agreed. In the case of late payment the Company reserves the right to with-hold orders for despatch until payment has been received. Overdue accounts are liable for interest at the rate of 1.5% per reactive 31 month
- The Buyer shall not be entitled to withhold payment of any amount payable to the Company by reason of any dispute or claim. 3.2
- Goods supplied remain the property of the Company until full and final payment has been received. In the case of non-payment we shall exercise our right to re-possess goods under the Company "Reservation of Title" clause printed on all delivery dockets and Invoices. 3.3
- Queries on invoices must be received in writing by the Company within 5 working days from the date of invoice. 3.4
- Company within 5 working days from the date of invoice. If the Buyer (being a company) has a petition presented for its winding up or appointment of an Administrator or Examiner or passes a resolution for voluntary winding-up otherwise than for the purpose of a bona fide amalgamation or reconstruction or enters a scheme of arrangement or voluntary arrangement or compounds or makes any proposal to or enters into any arrangement Administrative Receiver appointed over all or any part of for his bankruptc or becomes bankrupt or insolvent or enters into any arrangement with his creditors or makes or has made an application for an Interim Order in connection with a proposal to Creditors for a voluntary arrangement or commits in either case a material or serious breach of this Contract (and in the case of such a breach being capable of remedy fails to remedy it within 7 days of receiving notice to do so), then without limiting any other right or remedy available to the Company, the further deliveries under the Contract without any liability to account shall become due and payable forthwith without requirement for any notice to be given. DELIVERY 3.5

- **DELIVERY** Every effort is made to keep delivery promises, but no guarantee as to the rate or time of delivery is given or may be implied, forecasts are without liability and time of delivery is not the essence of the Contract. 4.1
- 4.2 Any dates quoted by the Company for delivery of the Goods are intended to be an estimate.
- Once orders are despatched they are non returnable without our written consent. A restocking charge of 25% will apply to all goods returned for credit when in the first instance the said goods were supplied correctly. 4.3
- The Company reserves the right to make delivery by instalments and to tender a separate invoice in respect of 4.4 each instalment.
- Any delay in delivery will not entitle the Buyer to terminate or rescind the Contract nor to claim damages unless such delay exceeds 30 days, and therefore unless the delay exceeds such number of days, the Buyer shall be bound to accept delivery and pay for the Goods in full. The same will apply if delivery is made by instalments. 4.5
- The Buyer shall either himself or by his duly authorised representative sign the Delivery Advice Note as acknowledgment of delivery received. In the case of delivery to an address nominated by the Buyer, the Company shall be entitled to assume that any signature given is that of the Buyer or such a representative. The Buyer shall notify the Company within 3 working days of the date of delivery of the goods if the consignment delivered is incomplete. Notwithstanding the receipt by the Company of any such notice, a clear signature on a carrier's delivery sheet by such representative shall be deemed to signify receipt of the quantity of Goods indicated on the advice note. By special arrangement with 4.6

the company, the buyer, upon receiving a large delivery, may sign the delivery advice note "unchecked", and note the number of cartons, bundles and the like on the advice note

- If for any reason the Buyer will not accept delivery of any of the Goods when they are ready for delivery, or the Company is unable to deliver the Goods on time because the Buyer has not provided appropriate instructions, documents, licenses or authorisations: 47
- 4.7.1. risk in the Goods will pass to the Buyer (including for loss or damage)
- 4.7.2, the Goods will be deemed to be delivered; and
- 4.7.3. the Company may store the Goods until delivery whereupon the Buyer will be liable for all related costs and expenses.

DESCRIPTION 5. 5.1

- DESCRIPTION All drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues, brochures or website are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They will not form part of the Contract Contract
- Our policy is one of ongoing product development and therefore we reserve the right to change or alter specification without prior notice. 5.2

INSPECTION

- **INSPECTION** The Buyer shall inspect the Goods on delivery and shall within 3 working days of the date of delivery notify the Company in writing of any shortages in quantity or failure to comply with the description. Where damage has occurred it must be recorded at time of delivery and noted on Advice Notes otherwise they cannot be considered. If the Buyer shall fail to comply with these provisions the Goods shall be conclusively presumed to be in accordance with the Contract and the Buyer shall be deemed to have accepted the Goods. 6.1
- In all cases where the Company receives details of such 6.2 In all cases where the Complany receives details of such shortages or failure to complay with the description in accordance with Clause 5.1, the Company shall be under no liability in respect thereof unless a reasonable opportunity to inspect the Goods is provided to the Company before any use is made thereof or any alteration or modification is made to the Goods by the Buyer Buyer.
- Subject to clauses 6.1 and 6.2, the Company shall make good any of the above defects, and where appropriate replace any Goods damaged in transit or otherwise, as soon as it is reasonably able to do so, but otherwise, except as otherwise provided in these Terms, shall be under no liability whatsoever or howsoever arising for such defect or damage 6.3 such defects or damage

- TITLE AND RISK The risk in the Goods shall pass to the Buyer at the time of delivery which is determined in accordance with Clause 4.1 7 7.1
- Title of the Goods sold by the Company to the Buyer shall remain with the Company until the Buyer has paid in full and any other agreed charges (by way of cash or cleared funds) for those Goods. 7.2
- For the purpose of these Terms all liquidated sums owed by the Buyer to the Company on any account or goods whatsoever shall be deemed to form part of the said price.
- The Buyer is licensed by the Company to use or to agree to sell the Goods delivered to the Buyer subject to the express conditions that the sale shall be effected in the 7.4 express conditions that the sale shall be effected in the ordinary course of the Buyer's business at full market value and that the entire proceeds of any sale are held in trust for the Company and are not mixed with other money or paid into an overdrawn bank account and shall at all times be identifiable as the Companies' money.
- Until title to the Goods passes to the Buyer in accordance with Clause 7.2: 7.5.1 the Buyer will hold the Goods and each of them on a fiduciary basis as bailee for the Company; 7.5

7.5.2. the Goods shall, subject to clause 7.4, be kept separate and distinct from all other property of the Buyer and of third parties and in good and substantial repair an condition and be stored in such a way as to be clearly identifiable as belonging to the Company and the Buyer will not allow any interference with any identification marks or serial number of the Goods; and

7.5.3. without prejudice to any other rights the Company may at any time revoke the license to sell and use contained in clause 7.4 by notice to the Buyer if the Buyer is in default for longer than 14 days in the payment of any sum whatsoever due to the Company whether in respect of the Goods or any other goods supplied at any time by it to the Buyer or if the Company has bona fide doubts as to the solvency of the Buyer;

- Until such time as title in the Goods passes from the Company to the Buyer, the Buyer shall place any of the Goods in its possession or under its control and unsold at the disposal of the Company and the Company by its servants or agents shall be entitled to enter upon any premises of the Buyer or any premises under the Buyer's control or to which the Buyer has a right of access for the purpose of inspection, repossession and removal or such Goods at any time. 7.6.
- The Company shall be entitled to recover payment for the Goods notwithstanding that ownership of any of the Goods have not passed from the Company.
- The Company shall at any time be entitled to appropriate any payment made by the Buyer in respect of any goods in settlement of such invoices or accounts in respect of such goods as the Company may in its absolute discretion think fit notwithstanding any purported appropriation to the contrary by the Buyer. 7.8.

WARRANTIES The Company warrants that it has title to and the

unencumbered right to sell the Goods.

Unless otherwise specifically stated, from date of purchase, 82 all goods supplied are fully guaranteed for one year against defective manufacture, conditional upon correct application and installation by competent person

LIABILITY Introduction **9.** 9.1

9.1.1. Nothing in this Clause 9 shall be deemed to exclude or restrict the Company's liability for death or personal injury resulting from the Company's negligence or wilful misconduct;

9.1.2. Each of the sub-clauses in Clause 8 is to be treated as separate and independent and capable of severance.

9.2 Exclusion

9.2.1. Clause 2 only covers defects in goods supplied caused by faulty design, manufacture, materials or workmanship. It does not cover defects caused by abnormal use, misuse or neglect by the Buyer;

9.2.2. The Company agrees that if any defect covered by Clause 9.2.1 is discovered the Company will in its absolute discretion either:- repair the Goods at its own expense; or replace the Goods; or refund the purchase price of the Goods.

9.2.3. The Buyer cannot claim the benefit of this clause unless: - the defect is discovered during the period of one year commencing with the date of despatch; and the Buyer informs the Company of the relevant defect in writing within 3 working days of discovering it.

- 9.2.4. The risk of accidental loss whilst the Goods are being returned will be borne by the Buyer.
- 9.2.5. Subject as expressly provided in these Terms, no other terms, whether conditions,

9.2.6. warranties or innominate terms, implied by statute or common law, shall form part of this Contract and are excluded to the fullest extent permitted by law.

9.3. Exclusion of consequential loss

9.3.1. The Company shall not be liable for any consequential loss or indirect loss, damage and/or expense suffered by the Buyer or any customer of or purchaser from the Buyer (for which the Buyer shall hold the Company fully and effectually Indemnified) arising out of a breach by the Company of this Contract or tort or any other way (including loss arising from the Company's negligence).

9.4. Technical & Safety Data

9.4.1. All technical & safety data provided is intended as a guide. The company accepts no liability for errors or omissions contained therein. Installation and application of all products must be in accordance with good practice and then only by qualified and competent persons.

9.5 Limitation

9.5.1. Without prejudice to any other provision in these Terms in any event the Company's total liability for any one claim or for the total of all claims arising from any one act or default of the Company (whether arising from the Company's negligence or otherwise) shall not exceed the Contract price of the Goods

10. FORCE MAJEURE The Company shall not be liable for any failure to deliver the goods arising from circumstances outside its reasonable control including without limitation an Act of God, war, riot, explosion, abnormal weather conditions, fire, flood, strikes, lockouts, acts, restrictions, bye laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority, accidents and shortage of materials, labour or manufacturing facilities.

11. PROPER LAW AND JURISDICTION The Contract shall be governed by and construed in accordance with Irish law, and the parties hereby agree that all disputes arising in connection with the Contract shall be submitted to the non-exclusive jurisdiction of the Irish Courts.

SEVERANCE

If any provision of the Contract shall be void or unenforceable in whole or in part, the remaining provisions and the remainder of the provision affected shall remain in full force and effect.

- ASSIGNMENT
 13.1 The Buyer shall not be entitled to assign the Contract or any part of it without the prior written consent of the Company.
- 13.2 The Company may assign the Contract or any part of it to any person, firm or company.

14. WAIVER 14.1 Failure or delay by the Company in enforcing or partially enforcing any provision of the Contract will not be construed as a waiver of any of its rights under the Contract.

14.2 Any waiver by the Company of any breach of, or any default under, any provision of the Contract by the Buyer will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of the Contract

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