

IL

Twin Wall Gas Vent



IL®The traditional and original gas vent chimney system suitable for gas fired atmospheric appliances, radiant and LFE gas fires.

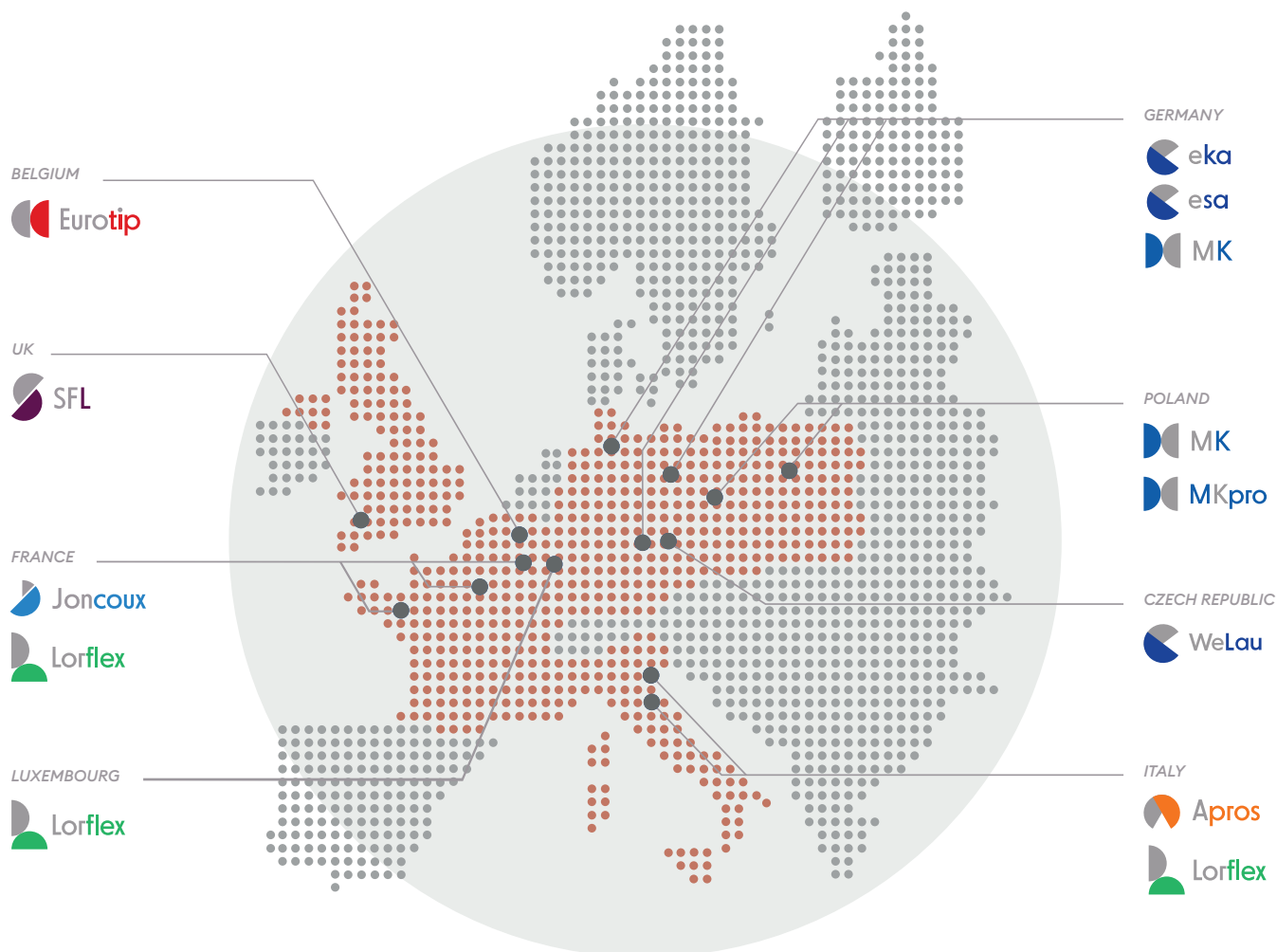


www.sflchimneys.com

ABOUT US

Sphering is the leading industrial player in flue and chimney systems in Europe.

With +1000 experienced people across Europe, Sphering is an EU market maker with renowned expertise in design, manufacturing and distribution of advanced air and flue care systems.



+1000

Employees



8

Production Plants



26

Distribution Branches

A UNIQUE COMBINATION OF LOCAL APPROACH AND GLOBAL EFFICIENCY

WE CARE TO DO WELL BY DOING GOOD

With customers



With employees



With secured and
efficient product



With the environment
& society



EVERYTHING CHANGED IN 100 YEARS EXCEPT OUR VALUES

Staying loyal to its historical values and operating with an exclusive industrial model based on the autonomy of its brands, Sphering has become, in a century, an ethical industrial collider in Europe.

Since 1919
100 YEARS
of passion



Reliable Partner



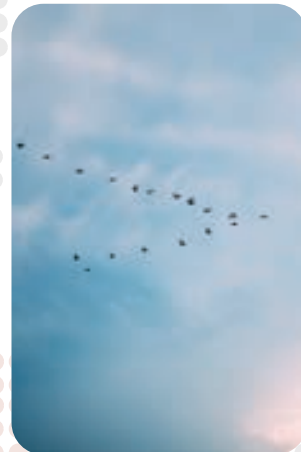
Leading Edge



Family long-term
horizon



No Shortcut



Local approach



OUR R&D AND INNOVATION CENTERS

We are here to stay and we collectively enable our capacity to answer our industry requirements.

MORE THAN 150 TESTS PER YEAR

These tests are based on requirements we have set up in order to guarantee our customers the highest levels of security and performance.



Thermal



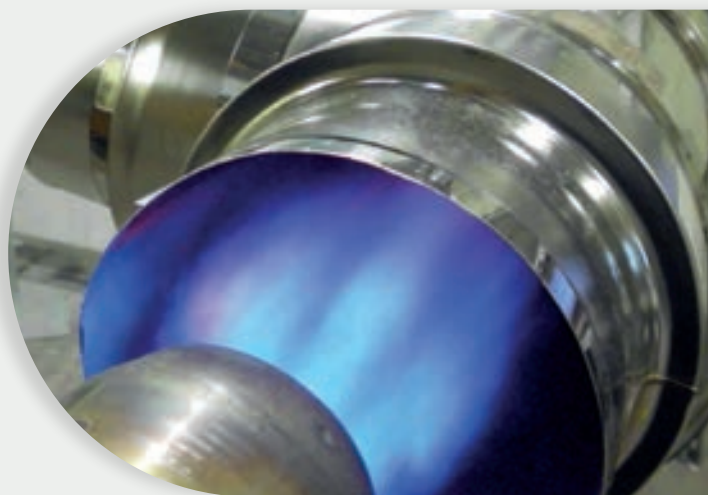
Mechanical



Tightness

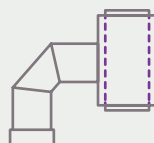


Fine dust



DESIGN & TEST FOR MANUFACTURERS

To ensure advanced safety, performance, quality and innovation.



Special pieces
co-development



Pairing test
certification

IL



Twin Wall Gas Vent System



British Built
Flue System



125 -150mm
Diameter



T250
Rating



P1 / N1
Rating



Quick
Installation



Product & Downloads
QR Code

IL is a twin wall gas vent system specifically designed for naturally aspirated gas appliances as well as radiant, LFE and ILFE fires.

Suitable for dry operation where the appliance operates under natural draught conditions and where the flue gas temperature does not exceed 250°C.

IL is a factory-made twin-wall gas vent system comprising of a range of straight pipe lengths, associated fittings, supports and accessories. It is constructed with an aluminium liner protected by an outer casing of galvanised steel.

An air gap between the outer casing and the inner lining insulates the vent and thus ensures a strong draft at the start of firing to minimise condensation. The resulting low external temperature under operating conditions permits installation with only 50mm clearance to combustible materials.

Lengths and fittings lock together positively to provide a strong rigid flue system and to ensure maximum ease of site assembly. Available in two diameters of 125mm and 150mm.



Typical Applications

- Atmospheric gas appliances up to 60kW
- Radiant gas fires
- Live fuel effect (LFE) fires
- Insert live fuel effect (ILFE) fires



Table A

IL Product Designations to BS EN 1856-1							
Standard Number	Diameter Range	Temperature Class	Pressure Class	D = Dry W = Wet	Corrosion Class	Material Specification Liner Grade 316L Liner Thickness 0.5	Sootfire Resistance G= Yes O= No
BS EN 1856-1	DN125 - DN150	T250	NI	D	Vm	L11030	O50

Approvals

IL is CE and UKCA marked to BS EN 1856-1 under certificate numbers 0036 CPR 91455 and 0168 CPR 91455 respectively.

Quality

All components are manufactured under a Quality Management System, certificate No. FM557622, administered by British Standards in accordance with BS EN 9001:2015.

Construction

IL is constructed from a 0.4mm aluminium liner and a galvanised steel outer case. The construction incorporates a 6mm air insulated annulus to aid draught production and heat insulation. The ends feature a push and twist lock jointing system for ease of installation.

Application

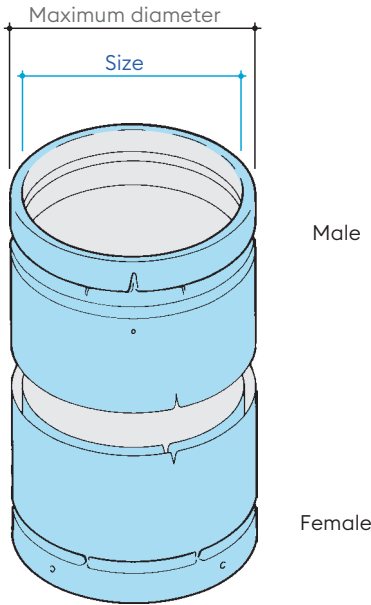
Design for use on natural draught and naturally aspirated gas appliances where the flue gas temperature does not exceed 250°C and where the flue gases do not condensate. IL is suitable for internal and can be used externally where no more than 3m of product is exposed. For appliances where the chimney operates under positive pressure and condensing applications or where the installation is external, please refer to our NOVA system.

Warranty

IL is backed by a comprehensive 5-year manufacturing defects warranty. The 5-year warranty is a measure of our confidence in the manufactured quality and installed reliability of our flue systems and gives added peace of mind for any installation.

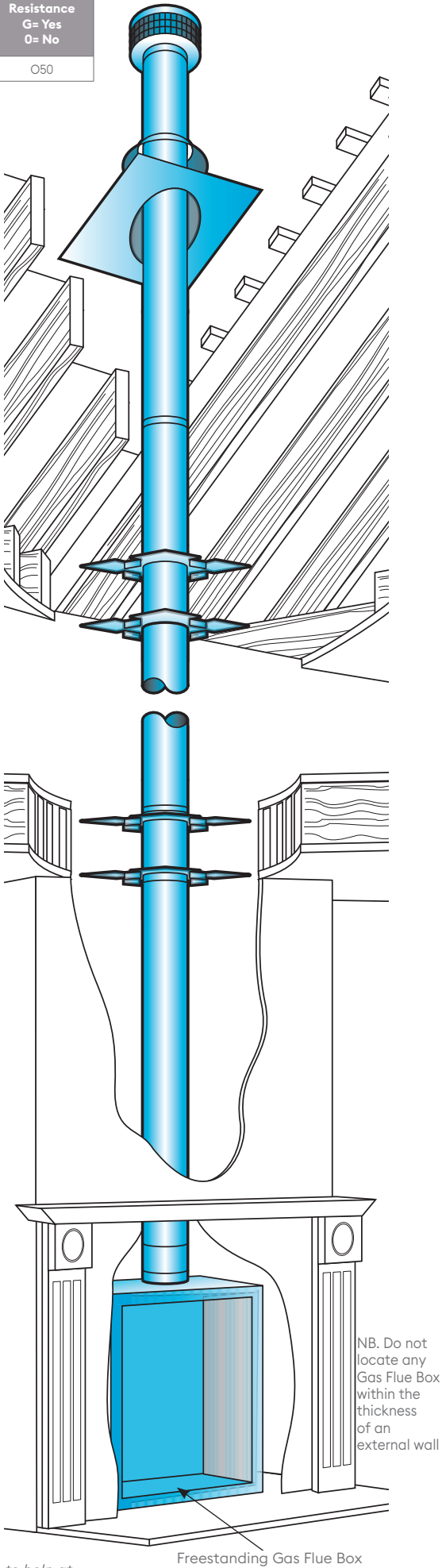
PRINCIPAL DIMENSIONS

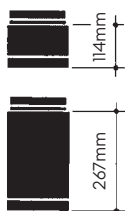
Size (internal diameter)	Maximum outside diameter
125mm (5in)	140mm (5 1/2in)
150mm (6in)	165mm (6 1/2in)



Partner with us, succeed together.

Need assistance with your residential or commercial flue project? Our team of experienced experts is here to help at every stage. We offer product selection and design assistance, conduct system surveys, and work with key installation partners to provide bespoke turnkey packages tailored to your needs.





Straight Lengths

Fixed straight lengths are available in five sizes: 152mm, 305mm, 457mm, 914mm and 1524mm (6in, 12in, 18in, 36in and 60in). Installed effective length is 38mm (1½in) less than stated actual length.

152mm (6in) lengths

Size (mm)	Code number
125 5in	0421305
150 6in	0421306

305mm (12in) lengths

Size (mm)	Code number
125 5in	0421205
150 6in	0421206

457mm (18in) lengths

Size (mm)	Code number
125 5in	0421105
150 6in	0421106

914mm (36in) lengths

Size (mm)	Code number
125 5in	0420305
150 6in	0420306

1524mm (60in) lengths

Size (mm)	Code number
125mm 5in	0420105
150mm 6in	0420106

Adjustable Lengths

Available in two sizes to ensure that an exact required vent length can be obtained.

305mm (12in) adjustable length

Size (mm)	Code number
125 5in	0421505
150 6in	0421506

457mm (18in) adjustable length

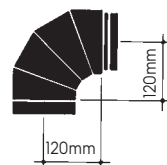
Size (mm)	Code number
125 5in	0421605
150 6in	0421606

FITTINGS

Draughthood Connector

This component must be used to connect the system to an appliance spigot and also where the system is connected to a Transfer or Adaptor block for a BS EN 1858 Flue Block system. It cannot be used as a substitute for the Adaptor to Flue Liner.

Size (mm)	Code number
125 5in	0429305
150 6in	0429306



90° Adjustable Elbow

Provides variable angles or offset to be made but must not be used to exceed 45° from the vertical.

Size	Code number
125 5in	0422105
150 6in	0422106

Equal Tee

A Tee cap is supplied.

Size (mm)	Dimensions A B C	Code number
125 5in	241 96 102	0424305
150 6in	267 102 108	0424306

Reducing Tee

A Tee cap is available; it is not normally included unless specified.

Size (mm)	Dimensions Branch A B C	Code number
150 6in	125 5in 100 96	0425803
150 6in	100 4in 108 102	0425802

135° Tee

A Tee cap is supplied.

Size (mm)	Dimensions Branch A B C	Code number
100 4in	285 247 419	0424404
125 5in	285 247 419	0424405
150 6in	315 277 419	0424406

Tee Cap

Size (mm)	Code number
125 5in	0405305
150 6in	0405306

Disconnecter Section

Located immediately above the Appliance Connector, this component provides maintenance access without disturbing the flue system.

Size (mm)	Code number
125 5in	0420805
150 6in	0420806

Increases

Size A	B	Code number*
100mm x 150mm	4x6in	0428102
125mm x 150mm	5x6in	0428115

*size should also be specified when ordering

76mm to 100mm Connectors

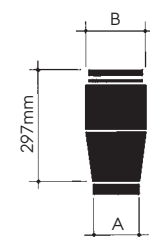
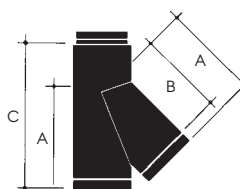
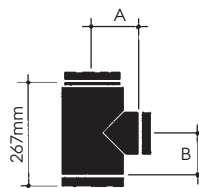
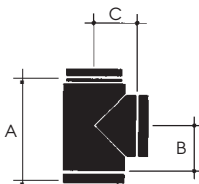
Smaller end is straight connector for 75mm (3in) appliance spigot.

Size	Code number
76mm x 100mm	3x4in 0428304

Adaptor to flexible flue liner

Lower end of this all aluminium component connects to standard product, upper end fits over fibre cement flue liner. Also used to connect to flexible flue liner.

Size (mm)	Dimension A	Code number
125 5in	144	0471605
150 6in	169	0471606



Flashings & Terminals



Flexible liner to IL Connector

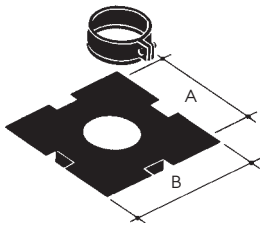
Designed to be secured into the top of a stainless steel flexible flue liner at the point where the liner exits an existing masonry, or similar chimney. Connection would normally be in the roof space, and the IL Gas Vent continues to termination in the normal manner.

Size (mm)	Code number
125 5in	0421005
150 6in	0421006

FIXINGS & SUPPORTS

Support Plate

Used to support vents at floor penetrations in conjunction with the Support Flange (supplied).



Size (mm)	Dimensions A* B**	Code number
125 5in	249 304	0403205
150 6in	270 304	0403206

*framing spacing
**overall size of square plate

Firestop Spacer

Used at floor or ceiling penetration or in conjunction with the Support Plate to maintain the required clearance to combustible materials.

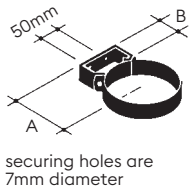
Size (mm)	Dimensions A* B**	Code number
125 5in	249 304	0408705
150 6in	270 304	0408706

*framing spacing
**overall size of square plate

Wall Band

Use at intervals not exceeding 3m to provide lateral support. If used externally, the galvanised component will require suitable weather protection.

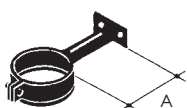
Size (mm)	Dimensions A B	Code number
125 5in	126 56	0428805
150 6in	140 58	0428806



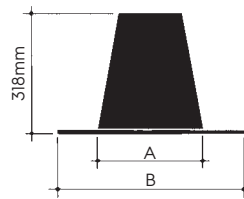
Stand-Off Wall Bracket

Made from galvanised steel, this component is designed to provide internal lateral bracing support off a wall or structure. The strut can be cut to length to provide variation in wall clearance.

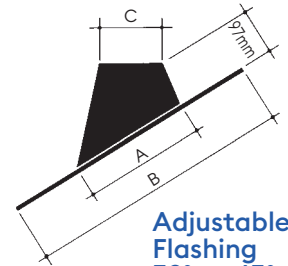
Size (mm)	Dimensions A max A min	Code number
125 5in	240 80	0429805
150 6in	237 80	0429806



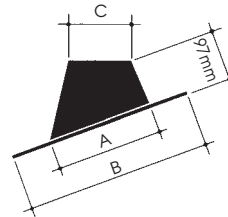
Note: Flashings and Storm Collars (with sealant supplied) must be ordered separately.



Tall-Cone Flat Flashing



Adjustable Flashing 32° to 45°

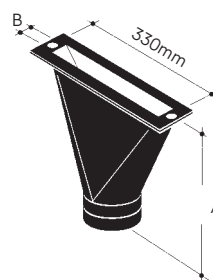


Storm Collar

Adjustable Flashing 5° to 30°

To find the appropriate component, combine the Family, Pitch and Identifier Codes to obtain the Part Order Code. Eg: Storm Collar for 125mm IL is 70-1234-03: Part Order Code is 70123403.

Family Code	Pitch Code	Identifier Code	Product	A	B(sq)	C(diam)
STORM COLLAR						
70	1234	02	100mm IL	-	-	-
70	1234	03	125mm IL	-	-	-
70	1234	08	150mm IL	-	-	-
FLAT FLASHING						
70	0000	02	100mm IL	190	495	-
70	0000	03	125mm IL	190	495	-
70	0000	08	150mm IL	279	495	-
5° - 30° FLASHING						
70	0530	02	100mm IL	200	495	120
70	0530	03	125mm IL	238	495	145
70	0530	08	150mm IL	279	495	171
32° - 45° FLASHING						
70	3245	02	100mm IL	277	660	120
70	3245	03	125mm IL	308	660	145
70	3245	08	150mm IL	362	660	171



Ridge Tile Adaptor

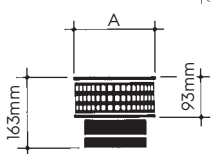
Designed to be used with any approved ridge tile vent.

Size (mm)	Dimensions A B	Code number
125 5in	305 45	0401805

Gas Vent Terminal

Fabricated aluminium.

Size (mm)	Dimension A dia	Code number
125 5in	211	0407305
150 6in	238	0407306



RESIDENTIAL

Vitreous Enamel

SVIT



Quick
Installation



Brand
Compatibility



No Sealant
Required



Year Product
Warranty

SVIT® is a vitreous enamel-coated steel connecting flue pipe designed to facilitate the connection between a multi-fuel appliance, an existing brick chimney or a prefabricated twin wall chimney system. It offers a smooth, aesthetically pleasing joint, without the need for additional locking bands or fire cement and is available in 100mm, 125mm, 150mm, 180mm & 200mm.

Twin Wall / Air Gap Insulation

IL



125-150mm
Diameter



T250
Rating



Multi-Fuel
Appliances

IL® is a twin wall air gap insulated prefabricated domestic and light commercial gas vent system suitable for gas appliances, with draught-hoods or with a flue gas temperature not exceeding 250°C and zero or negative pressure in the flue. Lengths and fittings push and twist lock together to provide strong rigid flue systems and ensure maximum ease of site assembly.

Flexible Liner

SELFLEX



V2 Corrosion
Resistant



PI / N
Rating



Brand
Compatibility



Year Product
Warranty

SELFLEX® is a double skin multi-fuel flexible chimney liner suitable for multi-fuel, gas, and oil-fired applications up to a maximum flue gas temperature of 600°C. CE marked to EN 1856-2. The SELFLEX® family range is suitable for the relining of masonry flues and used with wood, multi-fuel stoves and open fires and is available in three different specifications including 0.1mm 904L, 0.12mm 316L and 0.1mm 316L.

Insulated Flexible Liner

TUBEX PLUS



V2 Corrosion
Resistant



Brand
Compatibility



125-150mm
Diameter



Product
Warranty

TUBEX PLUS® is a unique insulated flexible liner for multi-fuel applications that allows maximum flexibility and ease of installation, the insulated core offers excellent thermal resistance to maximise natural draft to ensure optimum efficiency of the appliance with its 13mm high density insulation layer. Ideal for use on modern high-efficiency wood burning and multi-fuel appliance and application.

Single Wall / Connecting Flue

SIGMA



Quick
Installation



Brand
Compatibility



T600
Rating



Year Product
Warranty

SIGMA® is a stainless-steel single wall connecting flue pipe for use with multi-fuel appliances, brick chimneys, twin wall systems and flexible liners. Available in four diameters 127mm, 152mm, 178mm and 203mm manufactured for wood and multi-fuel burning appliances it has a gas-tight joint that negates the need for fire cement or rope. Manufactured from 1mm 316L for optimum long term performance.

Twin Wall / Twist Lock

SFLUE



T450
Rating



Brand
Compatibility



127-203mm
Diameter



Year Product
Warranty

S-FLUE® is a stainless steel insulated twin wall chimney system. Ideally suited for use on multi-fuel stoves and heating equipment. Offered in natural stainless steel or a satin black finish. Features an 8-barb twist lock jointing system for added strength and ease of installation.

COMMERCIAL

Twin Wall / Push Fit

**KEPLER
HPT**



5000Pa
T600 Dry



Easy To
Install



No Bellows



Ideal For
Gen-Sets

Single Wall / Push Fit

**SUPRA
PLUS**



Multi-Fuel
Appliances



Up To
5000Pa



T600 Dry
T200 Wet



Quick
Installation



Year Product
Warranty

Twin Wall / Twist Lock

NOVA



EI90
Fire Rated



Up To
5000Pa



T600 Dry
T200 Wet



Multi-Fuel
Appliances



Year Product
Warranty

Twin Wall / Flanged

**EUROPA
PLUS**



EI180
Fire Rated



14,945Pa @ 760°C
T600 Dry & Wet



CE, UKCA,
UL ULc



Ø100 - Ø1200mm
Diameters



Year Product
Warranty

KEPLER HPT is a push-fit twin wall insulated high pressure generator exhaust system suitable for high temperature / high pressure dry non-condensing applications. Supplied as standard with a 50mm high density insulated annulus. Due to its unique design, the KEPLER HPT generator system does not require expansion components, such as expansion bellows. Available in a range of sizes covering Ø80 - Ø600.

SUPRA PLUS® is a British built single wall chimney system designed specifically for today's modern high efficiency appliances that operate under positive pressure and condensing conditions.

Manufactured in 9 diameters ranging from 80mm to 350mm and consists of a range of lengths and fittings which simply push-fit together, and which are secured with a locking band. Seals are factory fitted and bonded for ease of installation. Available with a wide range of support components that cater for both lateral and vertical structural loading of the product. Extended range available from 400mm to 600mm.

NOVA® is a pre-fabricated, factory-made twin-wall, insulated stainless steel chimney system. Suitable for condensing and positive pressure applications and is specifically designed to meet the demands of the latest high-efficiency heating appliances as well as traditional gas and oil-fired combustion equipment. With its unique multi-barb twist-lock jointing system.

Manufactured in 8 internal diameters, ranging from 100mm to 355mm and consists of a wide range of components, together with a strong 16-barb twist lock jointing system, NOVA offers the ultimate in ease of installation and functionality. With its strong joint design, NOVA can achieve a maximum unsupported height of 3.0 metres above the last support (2.0 m for DN100), without the need for structural locking bands.

NOVA is fire resistance tested to BS EN 1366-13 and holds the following classification:

EI 90 (o → i) h_o v_e

NOVA has also been fire resistance tested for a period of 4 hours under the integrity criteria of BS476 Part 20.

EUROPA PLUS® is a high pressure and high temperature chimney / exhaust system suitable for continuous operating temperatures of up to 600°C continuous and 750°C intermittent. Suitable for positive pressure systems up to 5000Pa (HI) and UL tested up to 14,945Pa.

It is offered as a double walled prefabricated 316L stainless steel chimney system, available in a range of insulation thickness to meet the most demanding applications. As standard, EUROPA PLUS incorporates a 25mm high performance insulated cavity, with the option to increase the cavity thickness to 50mm and 100mm for applications that demand critically controlled surface temperatures.

EUROPA PLUS® is fire resistance tested to the requirements of BS EN1366-13 up to 600mm:

EI 180 (o → i) h_o v_e

Above 600mm EUROPA PLUS is fire resistance tested to the integrity and stability requirement of BS 476 Part 24 for a period of 4 hours.

About SFL

British manufacturer of flues & chimneys for residential & commercial applications for more than 50 years.

Commercial Solutions and Project Assistance

For large-scale installations in commercial buildings, we manufacture a range of flue systems with ease of install at the centre of your design. From complex header configurations to large-diameter stacks, we can accommodate almost every requirement for any application.

At SFL, we work with carefully selected installation partners to ensure your turnkey package is carried out on time within budget by seasoned professionals.

We're committed to offering industry-leading technical support services, throughout the whole process of design, manufacture, and supply of your upcoming project. Our experienced team are on hand to assist you at every stage of your project. From initial product selection to flue routing and calculations.

Residential Solutions

From wood burning & multi-fuel stoves to gas fires & oil boilers, our time-honoured brands of flues and chimneys have been a mainstay of domestic heating for decades. We work with a network of distribution partners providing high-quality residential flue and chimney components for easy installation. With fast delivery times and comprehensive product warranties, we ensure that your requirements are met with quality and reliability.

SFL Head Office & Manufacturing Facility

**SFL Flues & Chimneys
Pottington Business Park
Barnstaple
Devon
EX31 1LZ**

Tel: **+44 (0) 1271 326633**
Email: **info@sflchimneys.com**
Web: **www.sflchimneys.com**



At the forefront of flue and chimney manufacturing and technology.

Since 1969 SFL have been leading the way in flue and chimney innovation and technology. Our portfolio of trusted chimney and flues brands are known throughout the world for their engineering excellence. We offer industry-leading technical support services throughout the whole process of design, manufacture, and supply for commercial, domestic, and industrial applications, with uncompromised customer service.

We are proud of our British built heritage at SFL. Our manufacturing centre is based in Barnstaple, Devon, UK, alongside our extensive R&D centre, ensuring continuous product development and testing to the latest Standards.

SFL is part of the Sphering group, Sphering is an EU market maker with renowned expertise in design, manufacturing and distribution of advanced air and flue care systems.

WeLab®

As a committed company determined to play an active role towards the environment and society, the Group has its own R&D centre: WeLab®. This facility has allowed the group to comply with the newest European standards (including the NZEB: nearly zero energy building) in terms of security and performance of appliances, but also to adopt a responsible innovation approach. With our WeLab®, we have developed test rigs based on minimum requirements in order to guarantee our clients the highest levels of security and performance.

SFL branded products are synonymous with the highest quality – it is this reputation that enables specifiers, contractors, and householders to use our products with total confidence.

NOVA®

SUPRA PLUS®

EUROPA PLUS®

SFLUE®

NEXUS®

SVIT®

SELFLEX®

TUBEX PLUS®

IL®

SIGMA®

Over 50 years of industry leading experience in the flue and chimney market.



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