

SCHIEDEL METALOTERM



Metaloterm[®] UK

Concentric Flue System

Suitable for low temperature condensing and non-condensing applications with flue gases in positive or negative pressure.

System Description

The **Metaloterm® UK** system is a modular concentric flue system, made of stainless steel with a sealing ring which combines air inlet and flue.

Metaloterm® UK is suitable for low temperature, condensing and non-condensing applications with flue gases in positive or negative pressure. The system is suited for room sealed applications such as condensing heaters and boilers.

For Passive house **The Metaloterm®** assortment provides the iso-block which can be combined with UK.

Applications

Concentric flue-system for balanced flue/direct vent gas-fired boilers

Combined flue-system and air inlet for heating room

Advantages

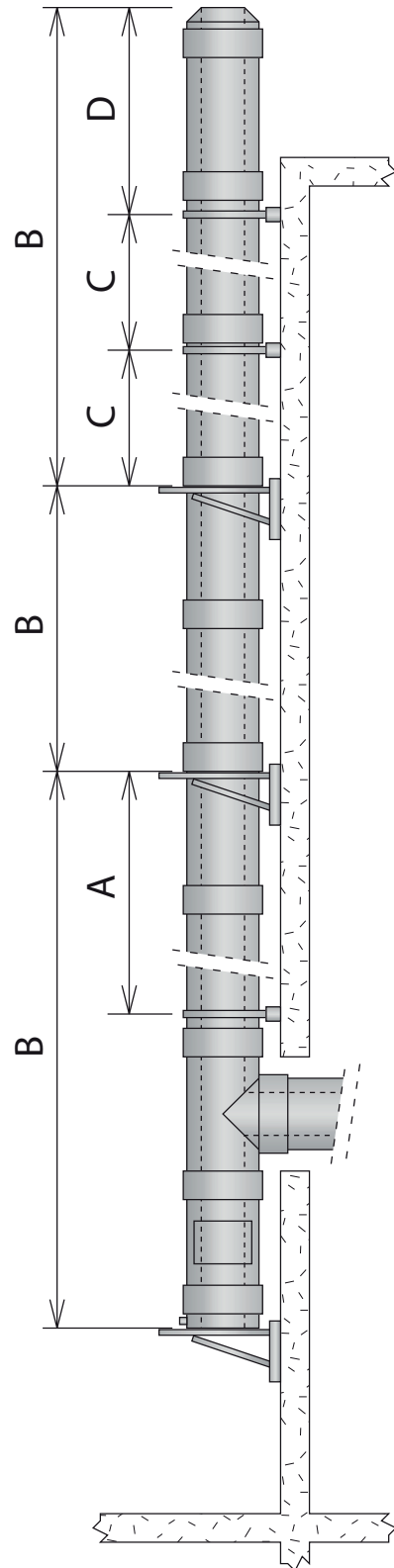
- Boiler adaptors can be manufactured on specification
- Horizontal and vertical terminals
- Sealing rings pre-mounted in every product
- Inner and outer wall of high quality stainless steel
- Easy assembly; lightweight elements
- Compatible with Metaloterm® ME, UE and MF

- A. Maximum supportable height above tee when chimney is supported by wall support at base.
- B. Maximum supportable height that can be borne by wall support.
- C. Maximum distance between lateral supports i.e. wall bands and wall supports.
- D. Maximum allowable free standing height above last support.

For non-vertical parts of flue system the maximum distance between two wall bands i.e. brackets is 1,5m (* $\varnothing$ 100/150 = 2,5 m)

In case of a condensing application an angle of 3° upwards, starting from the appliance, has to be applied.

Important: the product with the lowest load bearing capacity determines the maximum supported height.



Technical characteristics

Technical characteristics		
Application		Balanced flue/direct vent
Operating mode		Dry/wet
Pressure		Negative/positive pressure
Max. working pressure		200 Pa
Operating temperature		200°C
Max. temperature allowed		200°C
Inner wall	material	AISI 316L/EN 1.4404
	thickness	0.4 mm
Outer wall	material	AISI 304/EN 1.4301
	thickness	0.4 mm
Sealant		Elastomer
Fuel type		Oil/Gas
Chimney diameter		
Inner diameter (mm)	80	100
Outer diameter (mm)	125	150
Cross section (cm²)	70	98
Weight (±kg/m)	2.1	2.6
CE approved		
EN 1856-1: T200-P1-W-V2-L50040-00		
EN 1856-2: T200-P1-W-V2-L50040-00		

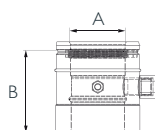
Mounting heights and distances			
Ø (mm)		100	130
A (m)	UKT 90	30	30
	UKI	30	30
	UKLIG	30	30
B (m)	UKOL	30	30
	UKMO	30	30
	UKDQ	5	5
	UKVQ	5	5
C (m)	UKMB*	2	4
	UKDQ*	2	4
	UKVQ*	2	4
D (m)	UKMB*	1.5	2
	UKMB+UKSK*	2.5	3
	UKDQ*	1.5	2
	UKDQ*+UKSK**	2.5	3
	UKBT***	2	3

*Provided that it's installed with a UKKB.

*Provided that the joints above and below the last connection point are reinforced with at least (n) UK SK.

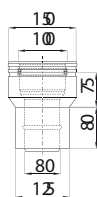
** The construction height 8 becomes 30% lower, when making use of a UKBI. guy-wires are to be fixed at an angle of 45° at 2/3 of the free standing height. All joints above the last connection point and the joint directly below the last connection point have to be reinforced with at least (n) UKSK.

Starting Components / Adaptors



Boiler adaptor with probe opening

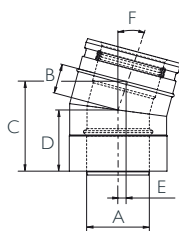
Int Ø A	80	100
B	125	115
Old Code	UKKAS 08	UKKAS 10
SAP Code	163557	163558



Increaser

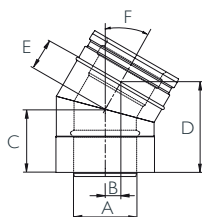
Old Code	UKVG08 10
SAP Code	163578

Bends / Tees



Elbow 15°

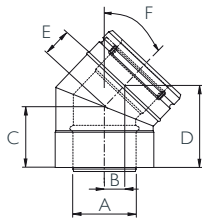
Int Ø A	80	100
B	40	50
C	115	138
D	80	90
E	10	13
F	15°	15°
Old Code	UKB15 08	UKB15 10
SAP Code	163530	163531



Elbow 30°

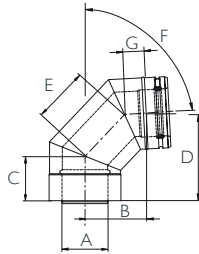
Int Ø A	80	100
B	20	25
C	80	90
D	114	133
E	40	50
F	30°	30°
Old Code	UKB30 08	UKB30 10
SAP Code	163532	163533

Bends / Tees



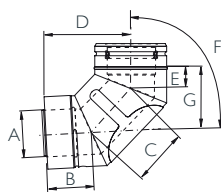
Elbow 45°

Int Ø A	80	100
B	30	25
C	80	90
D	105	125
E	40	50
F	45°	45°
Old Code	UKB45 08	UKB45 10
SAP Code		163536



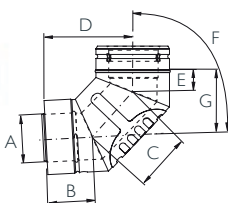
Elbow 87°

Int Ø A	80	100
B	110	125
C	80	90
D	150	165
E	100	105
F	87°	87°
G	40	50
Old Code	UKB87 08	UKB87 10
SAP Code	163537	163538



Elbow 87° with inspection cover

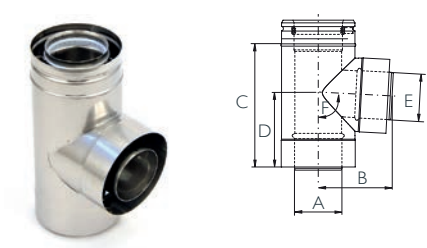
Int Ø A	80	100
B	80	90
C	100	105
D	150	165
E	40	50
F	87°	87°
G	110	130
Old Code	UKBI87 08	UKBI87 10
SAP Code	163539	163540



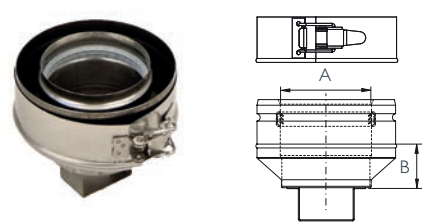
Elbow 87° with air inlet

Int Ø A	80	100
B	80	90
C	100	105
D	150	165
E	40	50
F	87°	87°
G	110	130
Old Code	UKBLG 08	UKBLG 10
SAP Code	163541	163542

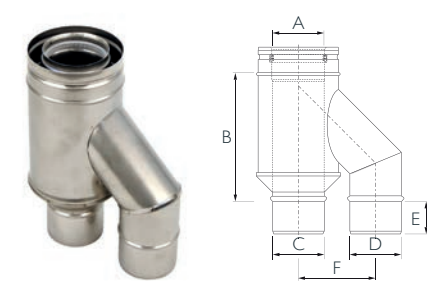
Bends / Tees



Tee-piece 87°		
Int Ø A	80	100
B	135	140
C	235	300
D	138	145
E	80	100
F	87°	87°
Old Code	UKT87 08	UKT87 10
SAP Code	163573	163574

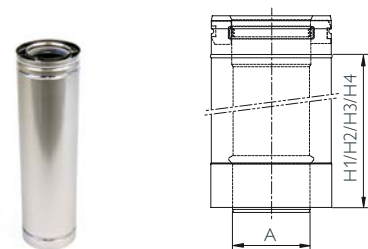


End cap for tee-piece		
Int Ø A	80	100
B	40	45
Old Code	UKTE08	UKTE10
SAP Code	163575	

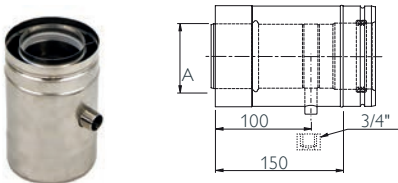


Trouser section		
Int Ø A	80	100
B	200	250
C	80	100
D	80	100
E	50	50
F	120	140
Old Code	UKTY 08	UKTY 10
SAP Code	163576	163577

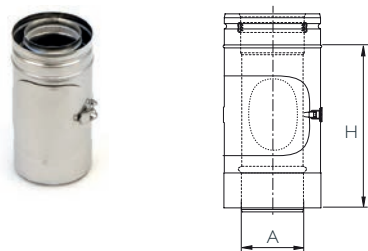
Pipes



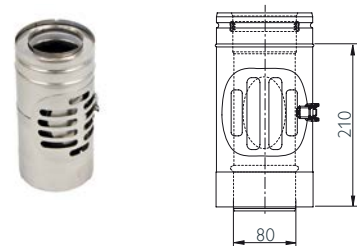
Length 100/50/25/10 cm								
Int Ø A	80	80	80	80	100	100	100	100
H1	960	960	960	960	965	965	965	965
H2	450	450	450	450	450	450	450	450
H3	200	200	200	200	200	200	200	200
H4	100	100	100	100	100	100	100	100
Old Code	UK 100 08	UK50 08	UK25 08	UK10 08	UK 100 10	UK50 10	UK25 10	UK10 10
SAP Code	163524	163528	163256	163522	163525	163529	163527	163523



Probe length and drain, horizontal		
Int Ø A	80	100
Old Code	UKEM 08	UKEM 10
SAP Code	163552	163553

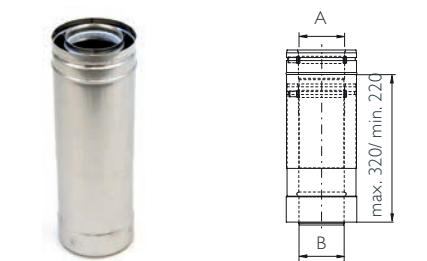


Inspection Length		
Int Ø A	80	100
H	210	300
Old Code	UKI 08	UKI 10
SAP Code	163554	163555



Inspection Length with air supply	
Ø	80
H	210
Old Code	UKILG 08
SAP Code	163556

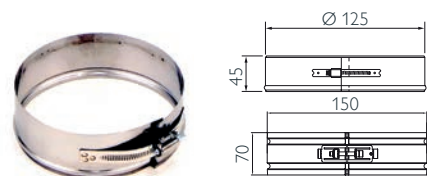
Pipes



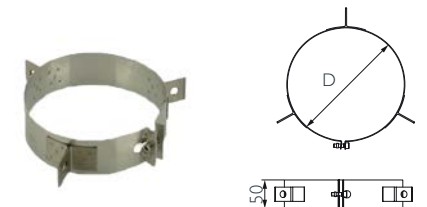
Adjustable Length		
Int Ø A		80
B		80
Old Code		UKPP 08
SAP Code		163568



Adjustable Length		
Int Ø A		100
B		97
Old Code		UKPP 10
SAP Code		163569



Locking Band		
Ø	125	150
H	45	70
Old Code	UKKB 08	UKKB 10
SAP Code	163559	163560

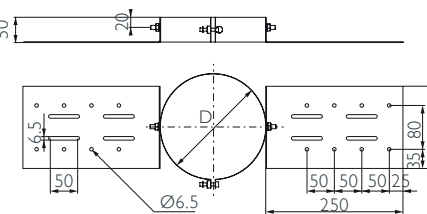


Guy-wire Band		
Ø	80	100
D	125	150
Old Code	UKBT 08	UKBT 10
SAP Code	163544	

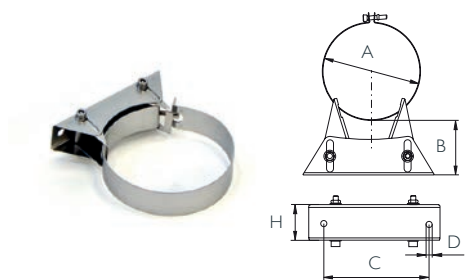
Support Components



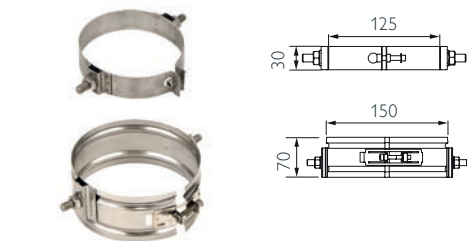
Roof Support		
Ø	80	100
D	125	150
Old Code	UKDQ 08	UKDQ 10
SAP Code	163550	165058



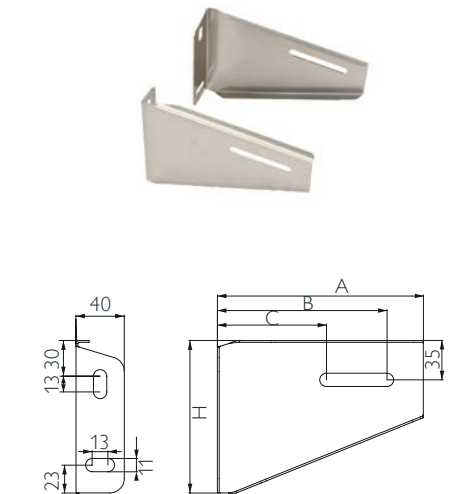
Support Components



Wall Band Adjustable		
Int Ø A	125	150
B	25-50	50-90
H	35	55
C	115	160
D	8.5	9x11
Old Code	UKMB 08	UKMB 10
SAP Code	163565	168179

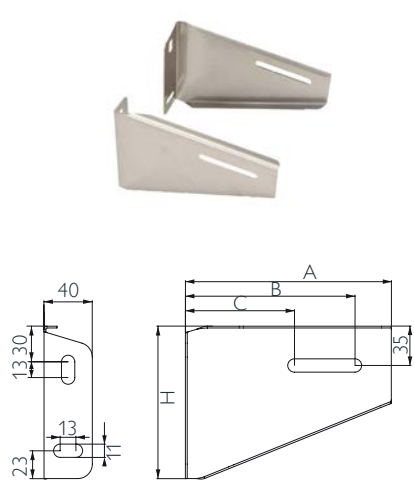


Band for Wall Support		
Ø	125	150
H	30	70
Old Code	UKMO 08	UKMO 10
SAP Code	163567	168149

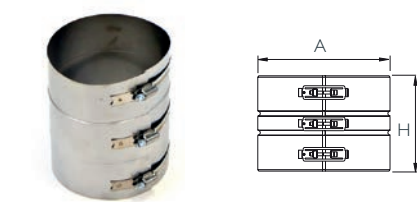


Support Light (pair) for UKMO (50 - 90 mm)		
Ø	80	100
A	185	220
B	155	190
C	105	125
H	140	170
Old Code	UKOL 1	UKOL 1
SAP Code	165066	165067

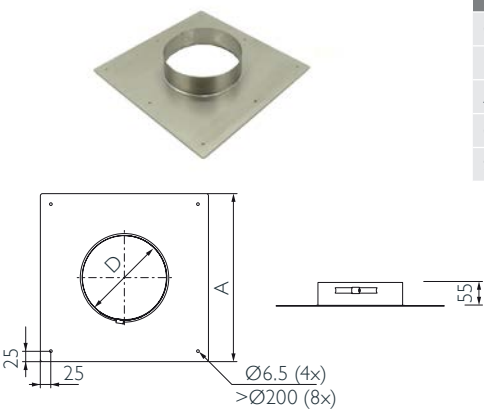
Support Components



Support Light (pair) for UKMO (90 - 200 mm)		
Ø	80	100
A	295	315
B	265	285
C	145	165
H	235	255
Old Code	UKOL 2	UKOL 2
SAP Code	165068	165069

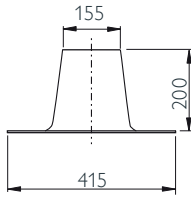


Reinforced Locking Band		
Ø	125	150
H	155	190
Old Code	UKSK 08	UKSK 10
SAP Code	163572	165071



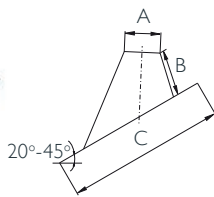
Ceiling Support		
Ø	80	100
D	125	150
A	260	310
Old Code	UKVQ 08	UKVQ 10
SAP Code	168481	

Flashings



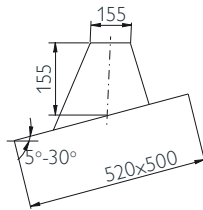
Flat Roof Flashing Aluminium

Old Code	UKDPAL 10
SAP Code	165056



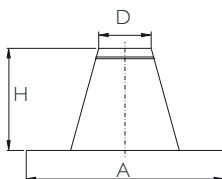
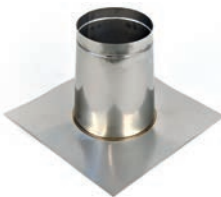
Lead Slope Roof Flashing 20° - 45°

A	160	140
B	120	120
C	750x600	500x500
Old Code	UKLS 08	UKLS 10
SAP Code	163563	168178



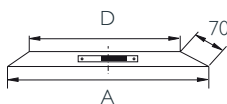
Slope Roof Flashing 5° - 30°

Old Code	UKDH 10
SAP Code	168176



Flat Roof Flashing

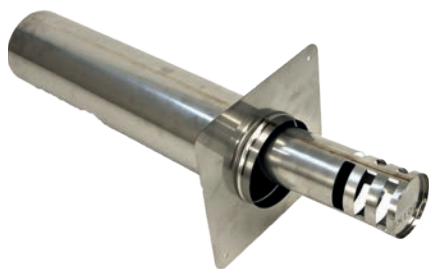
A	415
D	155
H	200
Old Code	UKDP
SAP Code	163549



Storm Collar

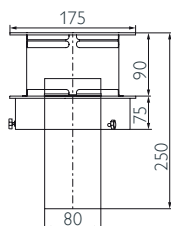
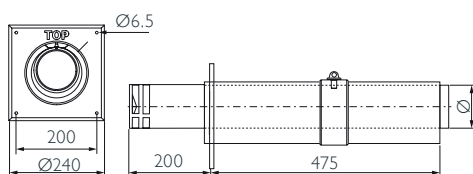
Ø	80	100
A	250	275
D	125	150
Old Code	UKS 08	UKS 10
SAP Code	163571	168180

Terminals



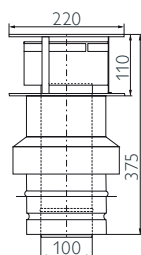
Horizontal Terminal Eccentric with Small Wall Cover

Ø	80	100
Old Code	UKDHC 1 08	UKDHC 1 10
SAP Code	163548	168177



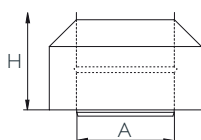
Vertical Terminal

Old Code	UKDVC2 08
SAP Code	163551



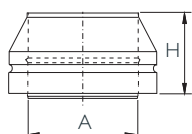
Vertical Terminal + UKKB

Old Code	UKDVC2 10
SAP Code	163560



Top Stub

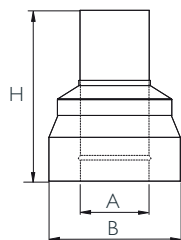
A	80
H	80
Old Code	UKMA 08
SAP Code	163564



Top Stub

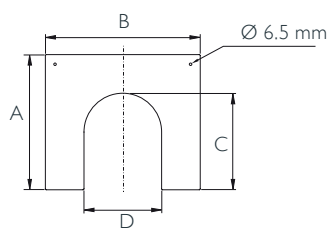
A	100
H	115
Old Code	UKMA 10
SAP Code	165061

Terminals



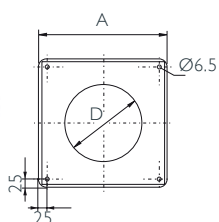
Top Stub with Airsupply

A	80	100
B	150	175
H	195	195
Old Code	UKLA 08	UKLA 10
SAP Code	163561	163562



Cover Plates (pair)

Ø	80	100
A	325	350
B	250	275
C	150	175
D	125	150
Old Code	UKCP 08	UKCP 10
SAP Code	165053	163546



Wall Cover

Ø	80	100
A	325	350
D	130	155
Old Code	UKMP 08	UKMP 10
SAP Code	165064	165065



Seal EPDM

Temperatures always below 120 degrees

Ø	130	150	180
Old Code	EPDM	EPDM	EPDM
SAP Code			

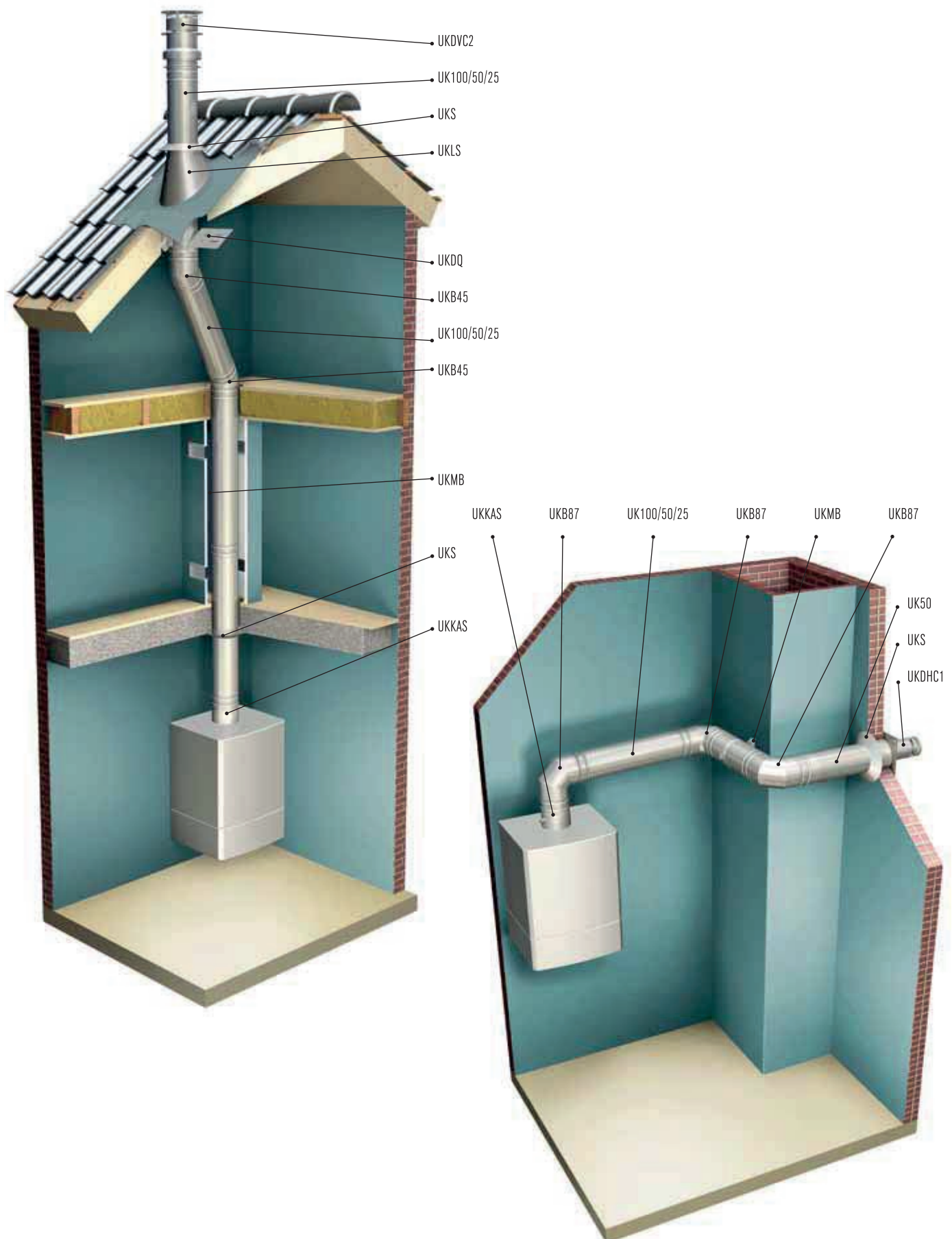


Seal VITON

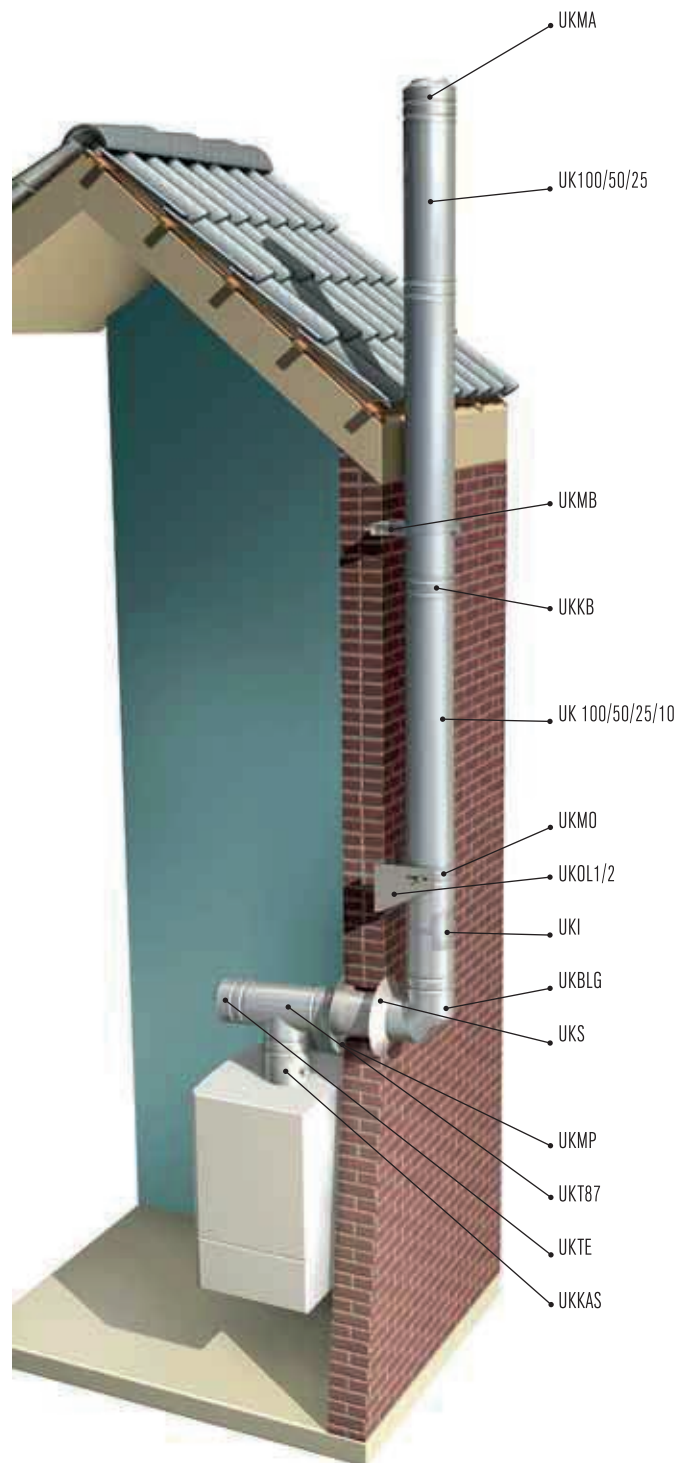
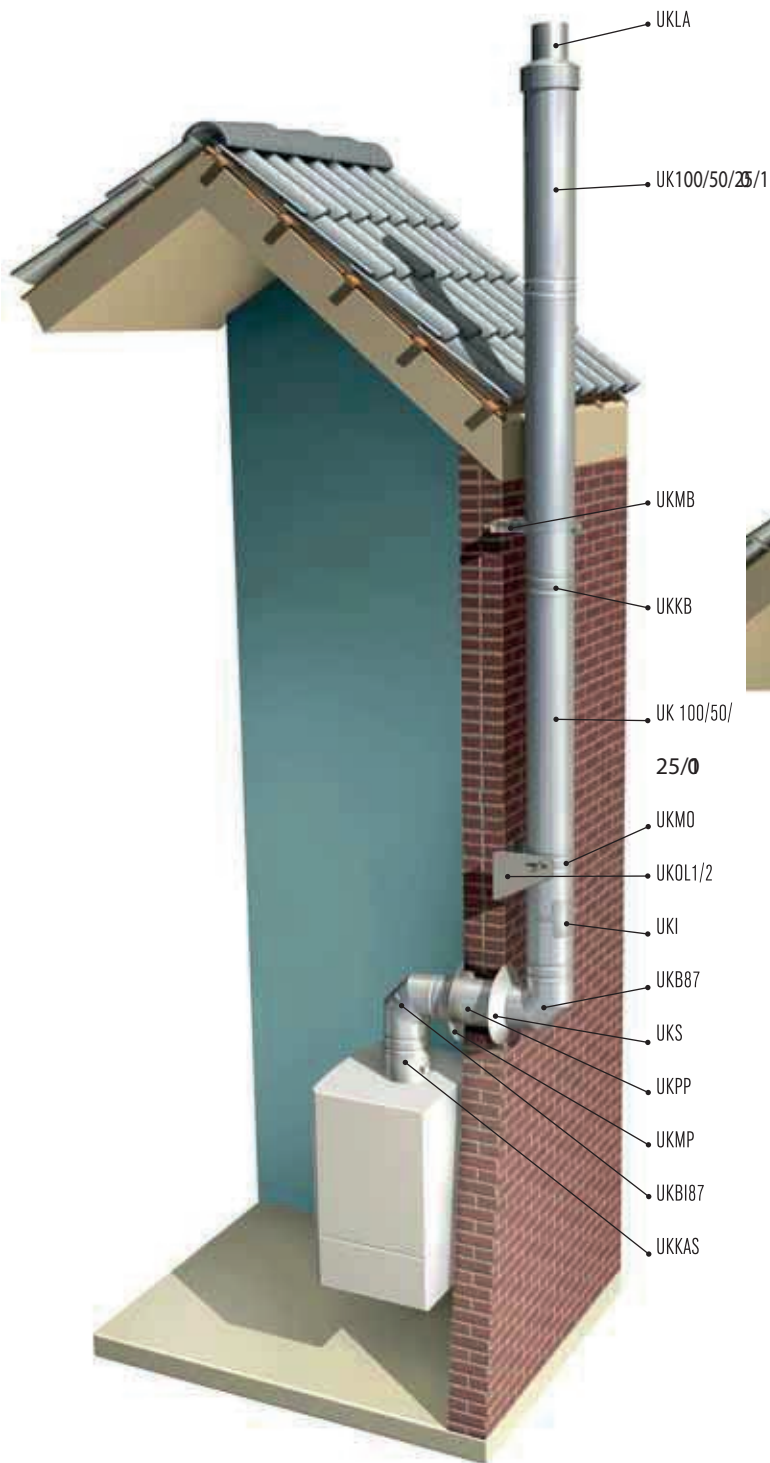
For oil-containing exhaust gases

Ø	130	150	180
Old Code	VITON	VITON	VITON
SAP Code			

Typical Installation



Typical Installation





Schiedel Metaloterm
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