



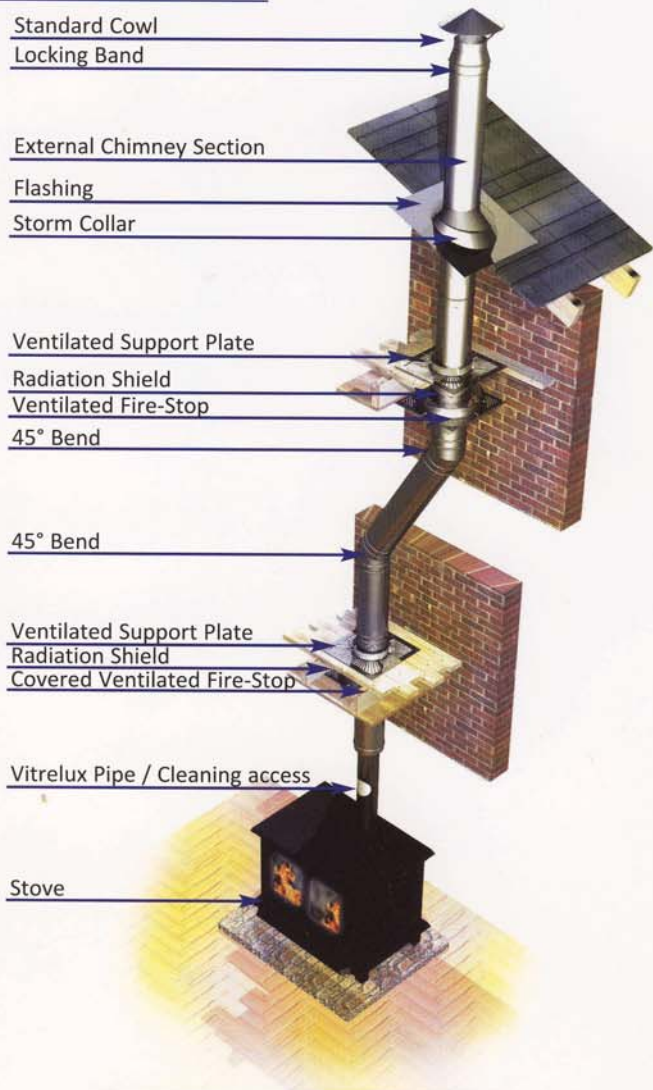
ht-s

2013/1



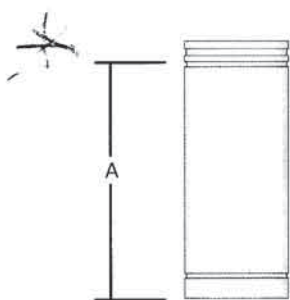
 **Midtherm**
Flue Systems Ltd.

Domestic Multifuel Stove



- 1 The chimney should be installed with a minimum of horizontal runs and offsets. Where possible 15° or 30° elbows should be used, but 45° elbows can be used if necessary. For solid fuel or oil fired appliances **the distance between the bends should not exceed 20% of the vertical height of the chimney.** If the appliance is gas fired the distance between bends should not exceed half the vertical height of the chimney.
- 2 For appliances requiring the T450 and Soot Fire Resistance Classification, 50mm minimum clearance must be maintained from combustible materials, and where flues penetrate floors use the special ventilated fire stop and support plates. For appliances only requiring T200 classification, 30mm minimum clearance must be maintained from combustible material. Please refer to the HT-S Installation Instructions.
- 3 The chimney diameter should never be reduced to less than the diameter specified by the appliance manufacturer, in some cases this may involve an increase in diameter from the appliance spigot.
- 4 Ensure that adequate air is available for combustion. Refer to Building Regulations Approved Document J.
- 5 Ensure chimney termination has adequate clearance from the roof of the building. Do not allow products of combustion to be discharged where they can enter an opening window or ventilation inlet.
- 6 It's good practice to install a minimum vertical riser of 600mm on to an appliance before fitting a bend. If connecting to a draught diverter, a vertical riser of at least 600mm must be installed immediately above the diverter, or as recommended by the appliance manufacturer.
- 7 The chimney should be adequately supported. A full range of support brackets are available. We recommend no more than 6m vertical rise between load bearing support brackets. Lateral support brackets should also be installed at 3m intervals or 2m if exposed (vertical riser), and 1.5m intervals (incline/horizontal).
- 8 Provisions for inspection/sweeping must be made. Inspection lengths are available for this purpose.
- 9 Joints within a floor, ceiling or wall construction are prohibited. Chimney components shall not be modified. Chimneys penetrating walls shall be sleeved/shielded and weather proofed if through external walls.
- 10 Where required, lightning protection of the chimney shall be installed in accordance with EN 61024-1.
- 11 Fire stops, spacers and ceiling supports shall be installed as specified in these instructions.
- 12 Where there is a risk of combustibles being placed next to the chimney, the minimum distances to combustibles must always be maintained either by a permanent enclosure or shield.
- 13 Weather proofing where chimneys penetrates roofs shall be in accordance with HT-S Installation Instructions.
- 14 A variety of terminals are available for all applications. Chimneys in exposed locations can benefit from Anti Down Draught, 'H' or Roto Cowls. Top Stubs are recommended for use on solid fuel appliances, drain points can be used to over come the problem of rain entering the open terminal. The use of mesh cowls should be avoided on solid fuel appliances as they need regular inspection and cleaning to avoid sooting up.
- 15 The finished installation shall have a chimney plate.
- 16 On completion of the installation it should be commissioned in line with requirements of EN 12391 including a smoke test. If there are any leaks or significant spillage, the fault must be rectified before the appliance is used.
- 17 Provisions must be made for draining condensate when required.

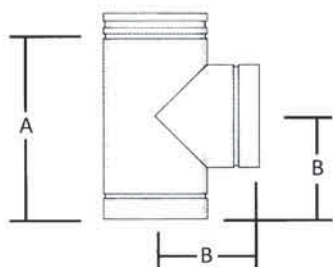
The above notes are an outline of only some of the aspects of good chimney installation practice. Please refer to the documents listed inside the front cover for further guidance.



Lengths*

Length	Installed Length (mm)	Item Code
1000mm Length*	960	01
1500mm Length*	1460	02
500mm Length*	460	03
300mm Length*	260	34
320-520 Adjustable*	320-520	04
520-920 Adjustable*	520-920	05

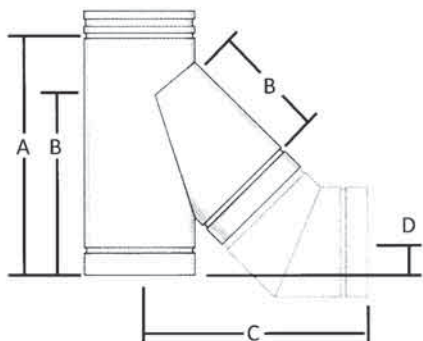
Starter lengths available in 1000mm and 500mm, they come with 316 1mm inner liner which allows it to be connected direct to a multi-fuel or wood burning appliance when used with the correct appliance connector.
Please ask for more details.



90° Tee*

Item Code 06

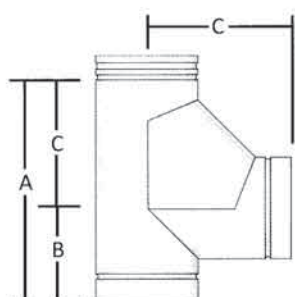
Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	328	354	378	404	455	506	556
B	164	177	189	202	227	253	278



45° Tee*

Item Code 07

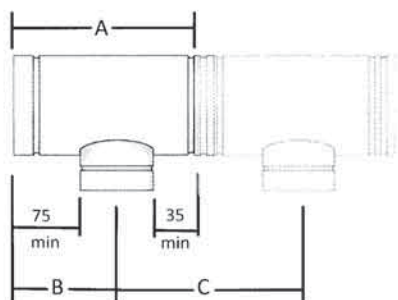
Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	403	438	473	510	582	652	723
B	290	320	342	382	444	505	566
C	368	398	422	460	521	583	644
D	34	39	42	50	61	71	82



90° Boot Tee*

Item Code 37

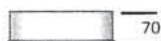
Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	428	453	478	504	555	606	656
B	164	176	189	202	228	253	278
C	264	277	289	302	327	353	378



90° Modular Tee*

Item Code 11

Dimensions to suit boiler positions



Tee Cap*

Item Code 08



Tee Cap with Drain*

Item Code 08a

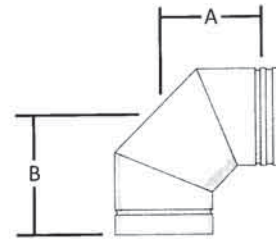
Used to close off an unused opening and can be used for cleaning access. Also available with 1" BSP drain point to allow the removal of condensate at the bottom of a large run.

*Inclusive of Locking Bands

90° Elbow For Gas and Oil Fired Application Only.

Item Code 09

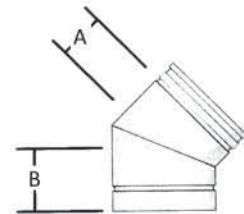
Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	170	183	195	208	233	259	284
B	210	223	235	248	273	299	324



45° Elbow*

Item Code 10

Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	72	77	82	88	98	109	119
B	112	117	122	128	138	149	159



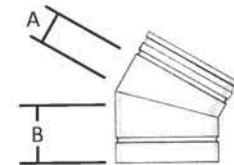
GAS FLOW



30° Elbow*

Item Code 10a

Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	59	62	66	69	76	83	89
B	99	102	106	109	116	123	129

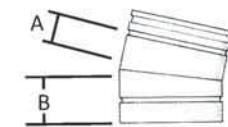


GAS FLOW

15° Elbow*

Item Code 10b

Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	46	48	50	52	55	58	62
B	86	88	90	92	95	98	102



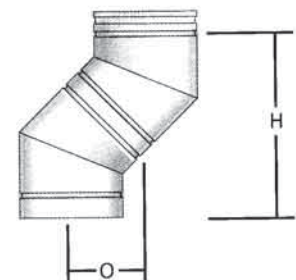
GAS FLOW

Offset Dimensions for Elbows

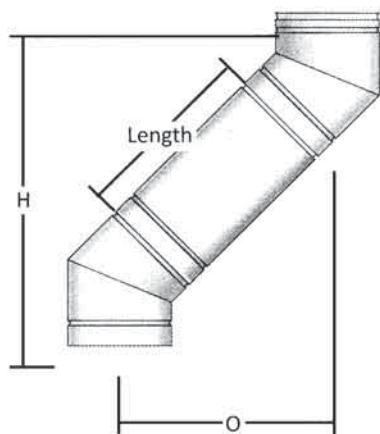
Internal Dia							
130	150	180	200	250	300	350	

Offset (O)	15°	34	35	36	37	39	40	42
	30°	79	82	86	89	96	103	109
	45°	130	137	144	153	167	182	197

Height (H)	15°	260	267	275	283	295	307	322
	30°	295	306	321	332	358	384	407
	45°	314	331	348	369	403	440	475

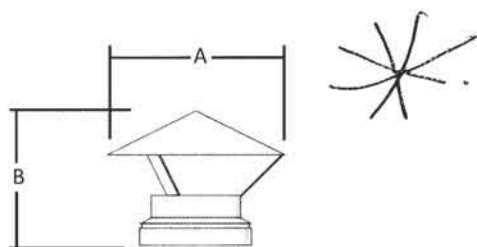


*Inclusive of Locking Bands



Length	Elbow	Dim	Internal Dia			
			130	150	180	200
300mm (260)	15°	O	101	102	104	105
		H	511	519	526	534
	30°	O	209	212	216	219
		H	520	531	546	557
	45°	O	314	321	328	337
		H	498	515	532	553
500mm (460)	15°	O	153	154	155	156
		H	704	712	720	727
	30°	O	309	312	316	319
		H	693	704	719	731
	45°	O	455	462	470	478
		H	639	656	674	694
1000mm (960)	15°	O	283	284	285	286
		H	1187	1195	1203	1210
	30°	O	559	562	566	569
		H	1126	1137	1152	1164
	45°	O	809	816	823	832
		H	993	1010	1027	1048
1500mm (1460)	15°	O	412	413	414	415
		H	1670	1678	1685	1693
	30°	O	809	812	816	819
		H	1559	1570	1585	1597
	45°	O	1162	1170	1177	1185
		H	1346	1364	1381	1401

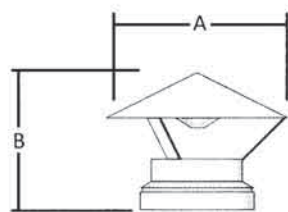
Terminals



Standard Cowl

Item Code 16

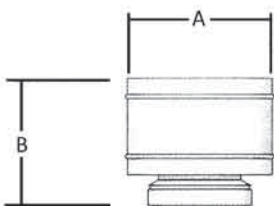
Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	260	300	360	400	500	600	700
B	235	245	260	270	295	320	345



Double Inverted (DI) Cowl

Item Code 17

Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	250	300	350	400	500	600	700
B	235	245	260	270	295	320	345



Swedish / Universal Cowl

Item Code 18

Diameter Code	05	06	07	08	10	12	14
Internal Dia	130	150	180	200	250	300	350
A	240	278	317	354	431	507	584
B	350	350	350	350	375	425	450

Fitted with Bird Mesh for use on Gas Fired Appliances only.



Top Stub

Item Code 20

Vertical Discharge Terminal. Available with Bird Mesh.

Please see price list No. 28 for AD Cowls and H Cowls. SW 316 cowls compliment the HT-S range for use on solid fuel appliances. SW 304 and SW 430 versions are also available (use where weather conditions are turbulent).