

Mi-Flues

UK's No.1 Flue & Chimney Specialist

MF10

GAS VENT

Domestic twin wall gas vent system



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MF10 Domestic Twin Wall Gas Vent System

MF10 Gas Vent is designed for venting approved gas appliances with an output of less than 60kw and with a minimum flue gas temperature of 135°C and a maximum flue temperature of 260°C, which must not be exceeded.

The product is designed for Class 2 gas appliances, fitted with draught hood diverters and burning atmospheric gas only and must not be used connected to any appliance fuelled by solid or liquid fuel. Checks must be carried out before installation to establish that the appliance used, has operating temperatures within the range stated above and conforms to the requirement for a Class 2 flue system.

Pipes, bends and tees are joined together by a simple twist lock bayonet system. The external locking collars should be uppermost and pointing in the direction of the terminal as indicated by the arrow on the product label.

APPROVALS

MF10 Gas Vent has been approved and tested to BS715: 1993, ULCS605, and UL 441.

MF10 is manufactured under an ISO 9001:2000 Quality System

DESIGN & SPECIFICATION

Construction is twin wall with a 12.5mm insulating air gap. The outer casing is made from aluzinc (zalu-tite) and carries the main load. The inner liner is made from aluminium to resist the corrosive products of combustion.

Designed for both internal and external use MF10 Gas vent comprises a full range of pipe lengths, associated fittings and accessories available in three diameters: 100mm, 125mm and 150mm.

To meet the new requirements of document J, MF14 Oil Vent should be used to continue external MF10 Gas Vent installations where the run exceeds three metres. Both MF10 and MF14 connect seamlessly and use the same support components.

FLUE SIZING AND TERMINATION

The appliance manufacturers instructions must be consulted and in particular their instructions regarding the flue size required for the safe and efficient operation of the appliance must be followed at all times. Recommendations concerning the height of termination above roof level are contained in BS5440: 1990

CLEARANCE

A minimum clearance from the inner liner of the Gas Vent to combustible material must be 25mm. In order to allow for this and to provide a safety margin all support components provide for clearance of 37mm, which should be maintained at all times. This equals 25mm when measured from the outer casing.

INSTALLATION

The flue should be installed by a competent person and installed vertically wherever possible. A minimum of 600mm from the appliance should be provided before the use of any bends should they be required. Although bends are adjustable, ensure that no part of the flue is installed at an angle more than 45° from the vertical. The use of bends in the system should be kept to a minimum in order to prevent resistance to the flue gas flow.

A simple twist lock connects the pipe lengths, bends and terminals and these joints should not be taped or sealed after connection. Pipes

and fittings must be installed with the male spigots pointing upward in the direction of the terminal and as indicated by the arrow label on the exterior of the pipe or fitting.

Pipe lengths must not be cut. Adjustable lengths are available for use where required. These adjustable lengths are fitted by loosening the bolt on the outer casing and sliding the length over the previous length to obtain the desired dimension. The bolt should then be retightened to secure the joint. Adjustable lengths can also be used above the appliance to allow for the system to be disconnected for future maintenance and inspection.

Ensure that adequate support is provided for the system. Support assemblies will safely support 1500mm of Gas Vent. Wall brackets should be installed per length where possible to provide lateral support and in positions either side of any offset. Any termination higher than 1800mm above roofline should be supported by guy wires or roof braces.

When passing through floors care should be taken not to cut through structural floor members. Fire stop plate must be installed between floor levels. Care must be taken to ensure that a clearance from combustible material of 25mm, from the inner liner, must be maintained. To provide safety MF10 Gas vent support elements allow for 37mm of clearance from the inner liner, which is 25mm of clearance when measured from the outer casing.

Appropriate sealant should be applied to the fire stop plate or support assemblies where they penetrate the air / vapour barrier. Storm collars should also be sealed above the flashing in order to prevent any water running down the exterior of the Gas Vent and hence into the property.

TESTING

After installation the system should be inspected and tested as detailed in BS5440. The system must be primed from a heat source before introduction of any smoke pellet. The time taken to prime the system from the heat source will vary as site conditions dictate. This priming may take up to 30 minutes depending on the heat source. Failure to prime the system will result in smoke from the smoke pellet being emitted from the flue joints.

MAINTENANCE

After installation the system should be checked regularly to ensure safe working and maintained at least within the appliance maintenance schedule. Regular inspection should be carried out and it is recommended that this be carried out by a member of the N.A.C.S., who, will issue a certificate of inspection and maintenance.

Any obstruction of a gas flue system will present a danger to life and must be prevented at all times. Regular inspection of the system must be carried out and for the occupiers safety, a certificate of inspection must be provided.

BUILDING REGULATIONS - DOCUMENT J

New building regulations – DOCUMENT J requires the use of stainless steel insulated flue on all exterior gas flues which have a length greater than three metres.

MF14 OIL VENT having a stainless steel liner and the cavity being filled with insulation is interchangeable with MF10 GAS VENT and should be used for exterior installations.

In addition in most modern properties which have ventilated roof spaces, MF14 OIL VENT should be used to overcome any potential condensation problems in cold conditions, particularly when used on high efficiency appliances.

STARTING COMPONENTS

Appliance Connector



100Ø 10-4-01
125Ø 10-5-01
150Ø 10-6-01

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	8	8	8
'A'	113	113	113
'B'	104	129	155

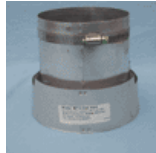
Flex to Gas Vent Connector



100Ø 10-4-02
125Ø 10-5-02
150Ø 10-6-02

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10
'A'	75	75	75

Gas Vent to Flex Connector



100Ø 10-4-03
125Ø 10-5-03
150Ø 10-6-03

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10
'A'	75	75	75

Gas Vent to Flue Block Adapter



100Ø 10-4-04
125Ø 10-5-04

IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	10	10
'A'	190	190
'B'	125	150

Increaser



100Ø 10-4-05
125Ø 10-5-05

IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	5	5
'A'	167	177
'B' Ø	100	126
'C' Ø	125	152

Gas Vent To IL Adapter



100Ø 10-4-06
125Ø 10-5-06
150Ø 10-6-06

IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	5	5
Ø Nom	100	125
Ø 'A'	111	138

IL to Gas Vent Adapter



100Ø 10-4-07
125Ø 10-5-07

IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	5	5
'A'	130	130

PIPES

Pipes are available in 5 lengths. The external locking collar facilitates easy connections.

The overlapping collar arrangement allows condensation to run through the system without escaping from joints.



1500mm Pipe
100Ø 10-4-08
125Ø 10-5-08
150Ø 10-6-08

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Effective Length	1474	1474	1474

900mm Pipe
100Ø 10-4-09
125Ø 10-5-09
150Ø 10-6-09

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Effective Length	874	874	874

450mm Pipe
100Ø 10-4-10
125Ø 10-5-10
150Ø 10-6-10

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	8	8	8
Effective Length	424	424	424

300mm Pipe
100Ø 10-4-11
125Ø 10-5-11
150Ø 10-6-11

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	8	8	8
Effective Length	274	274	274

150mm Pipe
100Ø 10-4-12
125Ø 10-5-12
150Ø 10-6-12

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	8	8	8
Effective Length	124	124	124

Adjustable Pipes are used to make exact lengths by telescoping over a standard pipe. We recommend fitting adjustables near to the appliance for future appliance removal without disturbing the existing flue.



Adjustables must not be fitted following a bend.

450mm Adjustable Pipe
100Ø 10-4-13
125Ø 10-5-13
150Ø 10-6-13

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Min. Length	50	50	50
Max. Length	280	280	280

300mm Adjustable Pipe
100Ø 10-4-14
125Ø 10-5-14
150Ø 10-6-14

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Min. Length	50	50	50
Max. Length	210	210	210

BENDS, TEES & COMPONENTS

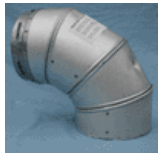
0°-45° Adjustable Elbow



100Ø 10-4-15
125Ø 10-5-15
150Ø 10-6-15

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6

0°-90° Adjustable Elbow

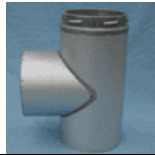


100Ø 10-4-16
125Ø 10-5-16
150Ø 10-6-16

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6

90° Tee

100Ø 10-4-17
125Ø 10-5-17
150Ø 10-6-17



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
'A'	360	360	360
'B'	148	152	160
'C'	180	180	180

Tee Cap

100Ø 10-4-18
125Ø 10-5-18
150Ø 10-6-18



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10

135° Tee

100Ø 10-4-19
125Ø 10-5-19
150Ø 10-6-19

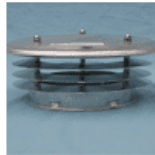


IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
'A'	360	360	360
'B'	275	275	275
'C'	205	225	265

TERMINALS

GC1 Fabricated

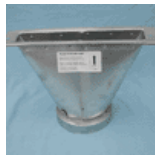
100Ø 10-4-20
125Ø 10-5-20
150Ø 10-6-20



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	8	8	8
'A'	100	100	146

Ridge Tile Adapter

100Ø 10-4-21
125Ø 10-5-21



IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	5	5
'A'	182	182
'B'	78	78
'C'	356	356

RTA Extension Box

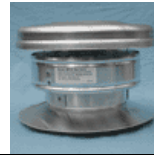
100Ø 10-4-22
125Ø 10-5-22



Box Quantity	5	5
'A'	200	200
'B'	356	356

Rain Cap

100Ø 10-4-23
125Ø 10-5-23
150Ø 10-6-23



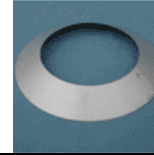
IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
'A'	127	130	178

ACCESSORIES

Our range of accessories comprise of supporting components and flashings. These accessories can be used with MF10 Gas Vent and MF14 Oil Vent.

Storm Collar

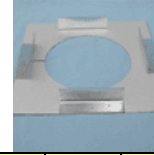
100Ø 10-4-50
125Ø 10-5-50
150Ø 10-6-50



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	24	24	24
'A'	220	248	273

Firestop Plate

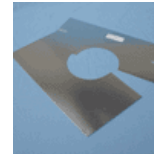
100Ø 10-4-51
125Ø 10-5-51
150Ø 10-6-51



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6
'A'	297	305	333

Roof Plate

100Ø 10-4-52
125Ø 10-5-52
150Ø 10-6-52



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	20	20	20

Wall Band 50mm Extension

100Ø 10-4-53
125Ø 10-5-53
150Ø 10-6-53



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6

Wall Band 275mm Adjustment

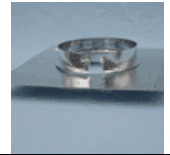
100Ø 10-4-54
125Ø 10-5-54
150Ø 10-6-54



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	1	1	1

Support Assembly

100Ø 10-4-55
125Ø 10-5-55
150Ø 10-6-55



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6
'A'	279	305	330

FLASHINGS

MI-Dek No. 1

100Ø 12-1
125Ø 12-1



Box Quantity	1
'A'	50
'B'	90
'C'	500

MI-Dek No. 2

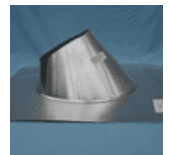
150Ø 12-2



Box Quantity	1
'A'	110
'B'	120
'C'	600

Roof Flashing 5° to 30°

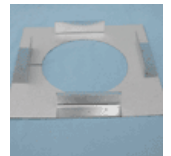
100Ø 10-4-60
125Ø 10-5-60
150Ø 10-6-60



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10

Roof Flashing 30° to 45°

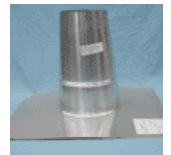
100Ø 10-4-61
125Ø 10-5-61
150Ø 10-6-61



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	5	5	5
'A'	610	610	610

Roof Flashing Flat

100Ø 10-4-62
125Ø 10-5-62
150Ø 10-6-62



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10