

# Mi-Flues

UK's No.1 Flue & Chimney Specialist

## **MF14**

## **OIL VENT**

***twin wall insulated oil vent system  
for Kerosene appliances***



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# MF14 twin wall insulated Oil Vent System

MF14 Oil Vent is designed for use on oil fired 26 sec kerosene appliances with continuous operating temperatures up to 300°C and zero or negative pressure at the appliance.

It is also used for gas fired appliances, especially on external runs over three metres to minimise cooling.

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

MF14 Oil Vent has been approved and tested to BS715: 1993, ULCS605, and UL 441.

MF14 is manufactured under an ISO 9001:2000 Quality System.

## DESIGN & SPECIFICATION

Constructed with two walls with a 12.5mm blanket of high grade insulation, the outer casing is aluzinc (zalutite), and the inner liner is made from 304 grade stainless steel which has a high corrosion resistance.

Designed for both internal and external use MF14 Oil 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.

Fit only approved terminals as supplied with the product. The fitting of a non-approved terminal could effect the safe extraction of the flue gases and present a serious danger.

## 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. 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 MF14 Oil 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 Oil 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 oil 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 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

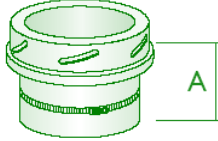
### Appliance Connector



100Ø 14-4-01  
125Ø 14-5-01  
150Ø 14-6-01

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

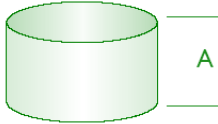
### Flex to Gas/Oil Vent Connector



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

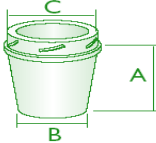
### Gas/Oil Vent to Flex Connector



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

### Increaser



100Ø 14-4-05  
125Ø 14-5-05

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

## 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 100Ø 14-4-03  
Pipe 125Ø 14-5-03  
150Ø 14-6-03

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	2
Effective Length	1474	1474	1474

900mm 100Ø 14-4-04  
Pipe 125Ø 14-5-04  
150Ø 14-6-04

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

450mm 100Ø 14-4-05  
Pipe 125Ø 14-5-05  
150Ø 14-6-05

IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Effective Length	424	424	424

300mm 100Ø 14-4-06  
Pipe 125Ø 14-5-06  
150Ø 14-6-06

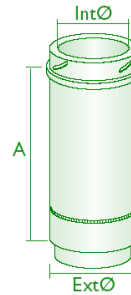
IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	4	4	4
Effective Length	274	274	274

150mm 100Ø 14-4-07  
Pipe 125Ø 14-5-07  
150Ø 14-6-07

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 100Ø 14-4-08  
Adjustable Pipe 125Ø 14-5-08  
150Ø 14-6-08

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

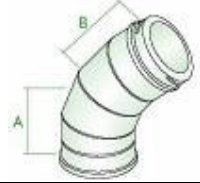
300mm 100Ø 14-4-09  
Adjustable Pipe 125Ø 14-5-09  
150Ø 14-6-09

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

### 45° Elbow

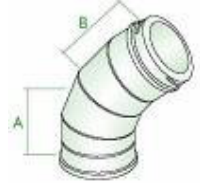
100Ø 14-4-10  
125Ø 14-5-10  
150Ø 14-6-10



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

### 30° Elbow

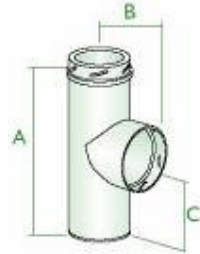
100Ø 14-4-11  
125Ø 14-5-11  
150Ø 14-6-11



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

### 90° Tee

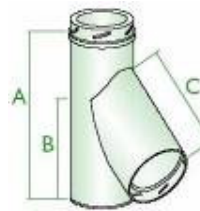
100Ø 14-4-12  
125Ø 14-5-12  
150Ø 14-6-12



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

### 135° Tee

100Ø 14-4-13  
125Ø 14-5-13  
150Ø 14-6-13



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

### Tee Cap

100Ø 14-4-14  
125Ø 14-5-14  
150Ø 14-6-14

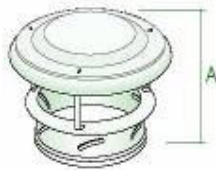


IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	10	10	10

## TERMINALS

### Rain Cap

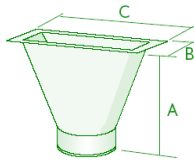
100Ø 14-4-16  
125Ø 14-5-16  
150Ø 14-5-16



IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	1	1	1
'A'	127	130	178

### Ridge Tile Adapter (Stainless Steel)

100Ø 14-4-17  
125Ø 14-5-17

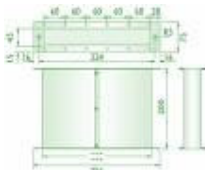


IntØ (mm)	100	125
ExtØ (mm)	127	152
Box Quantity	5	5
'A'	182	182
'B'	78	78
'C'	356	356

### RTA

#### Extension Box (Stainless Steel)

100Ø 14-4-18  
125Ø 14-5-18

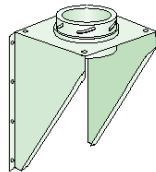


IntØ (mm)	100	125
Box Quantity	5	5
Height	200	200
Width	356	356

## SUPPORT COMPONENTS

### Wall Support

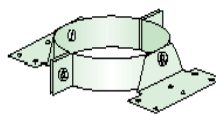
100Ø 14-4-19  
125Ø 14-5-19  
150Ø 14-6-19



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

### Roof Support

100Ø 14-4-20  
125Ø 14-5-20  
150Ø 14-6-20



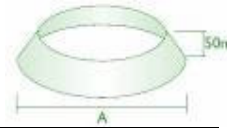
IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	5	5	5

## 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

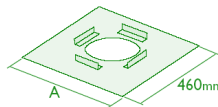
100Ø 10-4-50  
125Ø 10-5-50  
150Ø 10-6-50



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

### Firestop Plate

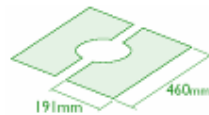
100Ø 10-4-51  
125Ø 10-5-51  
150Ø 10-6-51



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



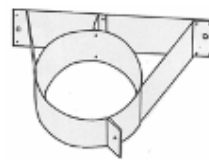
IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	20	20	20

### Wall Band

#### 50mm

#### Extension

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



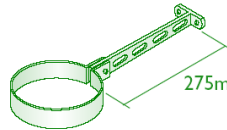
IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6

### Wall Band

#### 275mm

#### Adjustment

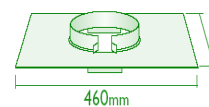
100Ø 10-4-54  
125Ø 10-5-54  
150Ø 10-6-54



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

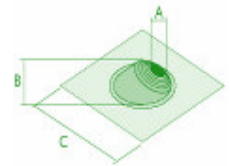


IntØ (mm)	100	125	150
ExtØ (mm)	127	152	178
Box Quantity	6	6	6
'A'	279	305	330

## FLASHINGS

### MI-Dek No. 1

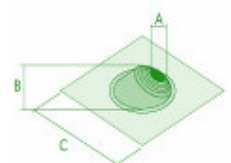
100Ø 12-1  
125Ø 12-1



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

### MI-Dek No. 2

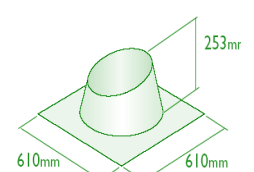
150Ø 12-2



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

### Roof Flashing 5° to 30°

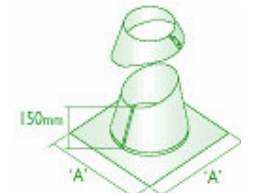
100Ø 10-4-60  
125Ø 10-5-60  
150Ø 10-6-60



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

### Roof Flashing 30° to 45°

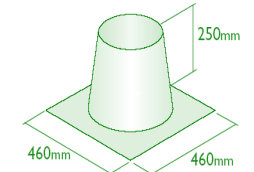
100Ø 10-4-61  
125Ø 10-5-61  
150Ø 10-6-61



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