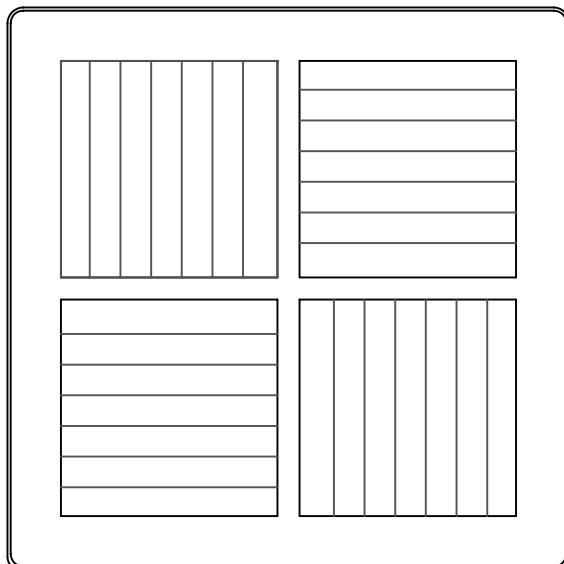
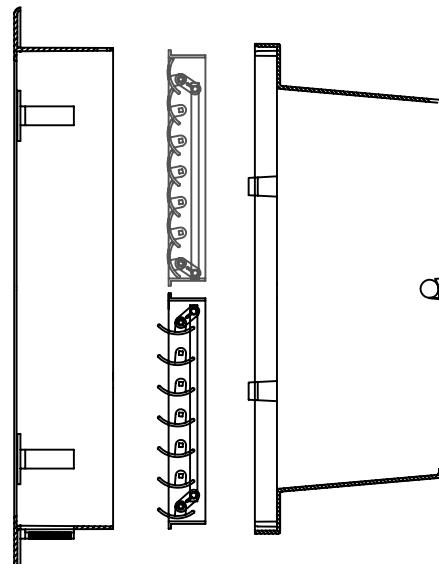


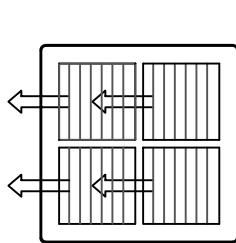
## Engineering Data



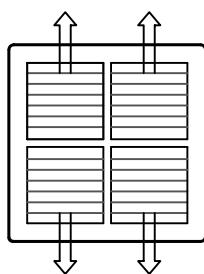
Air flow configurations



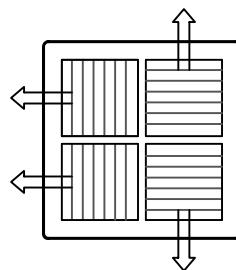
Air flow pattern options



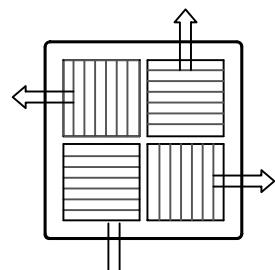
1 way blow



2 way blow



3 way blow



4 way blow

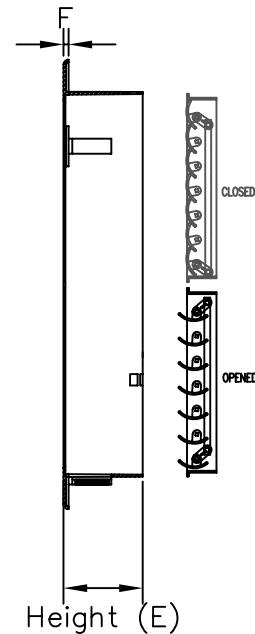
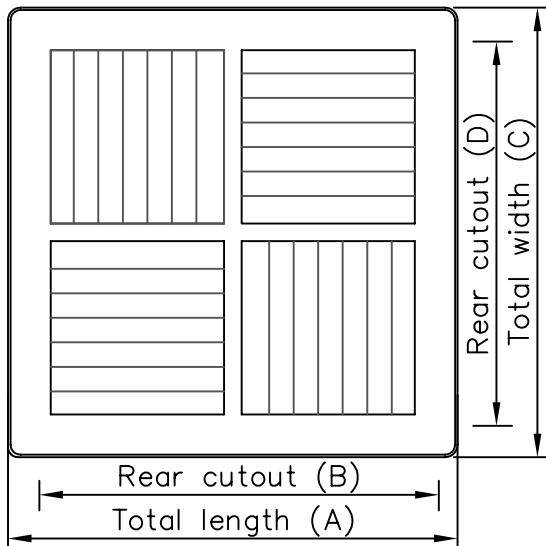
**Description:** Multi Directional Outlets suitable for ceiling mounted heating, cooling or ventilation applications. Six sizes are available.

**Construction:** All models are constructed from A.B.S polymers providing long term strength and rigidity. The A.B.S blend has a softening point well above that required for heating applications. Both square or rectangular models are available. The outlets consist of an outer face, into which a number of square or rectangular frames (referred to as biscuits) are positioned, each of which contain a series of adjustable louvres. Each biscuit can be individually removed and rotated to direct air in a number of directions. The external exposed surfaces have an etched finish. The outlets require an accompanying adaptor in order to be connected to duct. The adaptors are constructed from polypropylene. A number of different adaptors are available for each outlet, corresponding to different duct sizes. The outlets are supplied with mounting clips, in position, allowing fitment to a range of board type and thicknesses.

**Performance:** The outlets provide a large outlet area with minimum obstruction to airflow, thereby providing a relatively low static pressure drop. This makes the vents particularly suitable for high airflow applications such as evaporative cooling and air conditioning. The low-obstruction design ensures minimal high pressure points in the airflow, thereby avoiding condensation in evaporative cooling applications. The adjustable directivity makes the outlets suitable for heating, particularly in reverse cycle applications, where the louvres can be adjusted differently for winter and summer. The biscuits can be positioned in a variety of ways, allowing for, generally, 1 way, 2 way or 4 way blow.

**Finish:** Standard finish is off-white. The surface has an etched face, which lowers light reflections, and ensures an unobtrusive finish.

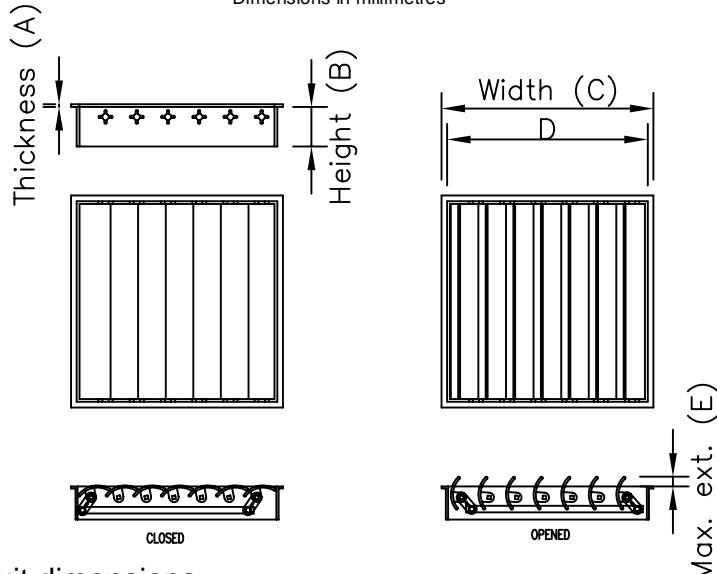
## Engineering Data



MDO face dimensions

Model	A	B	C	D	E	F
601/2	270	220	270	220	63	4
610/1	358	307	358	307	63	4
621	408	358	408	358	63	4
631	442	392	442	392	63	4
641	636	586	442	392	63	4
651	585	535	408	358	63	4

Dimensions in millimetres



MDO biscuit dimensions

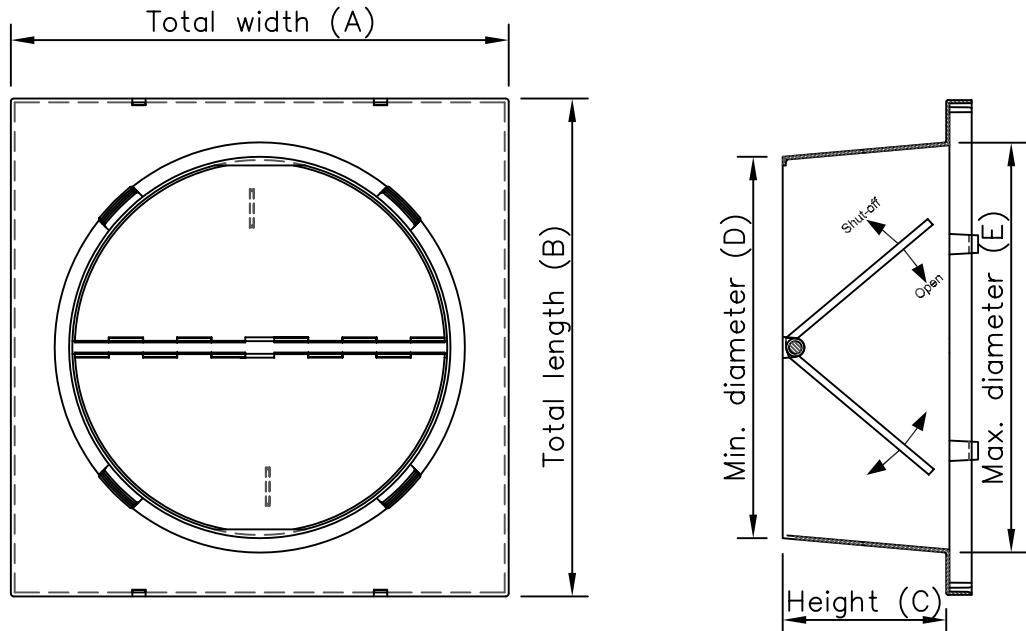
Model	A	B	C	D	E
601	2.5	27	105	97	9
602	2.5	23	* 210x98	* 206x94	9
610 #	2.0	20	N/A	142	0
611	2.0	28	150	142	9
621/651	2.0	28	175	167	9
631/641	1.7	28	191	183	9

Dimensions in millimetres

\* Model 602 uses a pair of complimentary rectangular biscuits, one of which carries the centre bar portion of the MDO.

# Model 610 is a fixed blade model, which carries reversible biscuits to optimise airflow for heating or cooling.

## Engineering Data



MDO adaptor dimensions

Model	A	B	C	D	E	Dampers
603	226	226	78	140	160	No
604	226	226	83	190	210	No
605	226	226	78	140	160	Yes
606	226	226	83	190	210	Yes
612	315	315	83	190	210	No
613	315	315	104	240	260	No
614	315	315	123	290	310	No
615	315	315	83	190	210	Yes
616	315	315	104	240	260	Yes
617	315	315	123	290	310	Yes
622	365	365	80	290	310	No
623	365	365	80	340	360	No
624	365	365	80	390	410	No
632	399	399	80	340	360	No
633	399	399	80	390	410	No
642	397	590	80	390	410	No
643	397	590	80	440	460	No
644	397	590	80	490	510	No
652	365	542	80	390	410	No
653	365	542	80	440	460	No

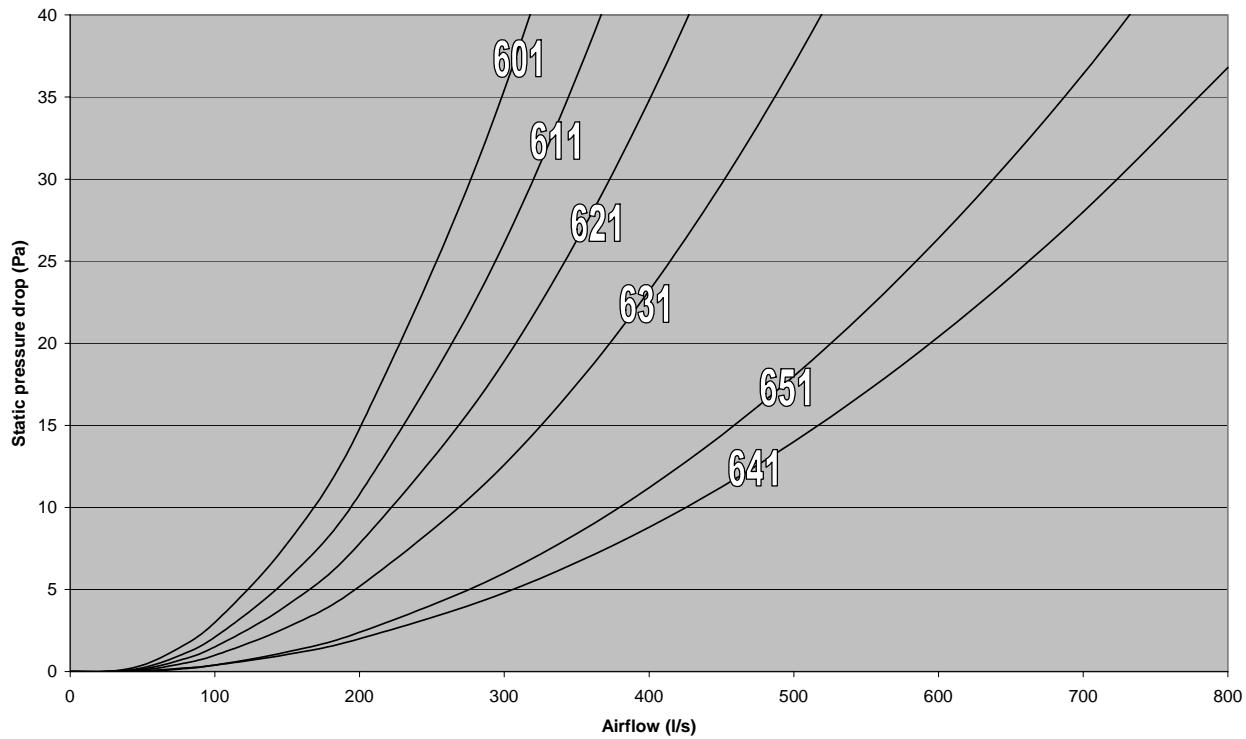
Dimensions in millimetres

## Summary of MDO/adaptor combinations

MDO Model	Duct size (mm)							
	150	200	250	300	350	400	450	500
600/1/2	603/5	604/6						
610/1		612/5	613/6	614/7				
621				622	623	624		
631					632	633		
641						642	643	644
651						652	653	

## Engineering Data

### 1 & 2 way blow



### 4 way blow

