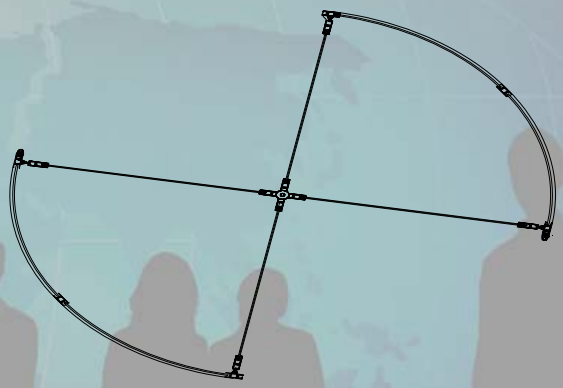
Solutions for revolving entrances

FAAC

Simply automatic.

WELCOMING, COMFORTABLE, BEAUTIFUL, SAFE

Revolving Doors are ideal for maintaining a steady temperature, respecting the environment through low energy usage, and providing an aesthetic entrance to any building. A revolving door is becoming a choice for architects and end users alike when considering new entrances.



FAAC automated systems make automatic doors move ever more smoothly all over the world, thanks to modern technologies, and the superior quality of processes and materials, along with guaranteed on-going research. All this aimed at improving the “liveability” of offices, shops and buildings in general.

Maxi revolving doors are ideal for entrances of buildings where people traffic is dense. They can have triangular or rectangular displays in the centre which may be used for product display and advertising purposes. Non-display options are also available.

In addition to our standard range, FAAC manufacturing doors to suit many styles or environments can be designed to the customer’s specification.

“A single person walking through a revolving door in February saves enough energy to light a 60-watt light bulb for 23 minutes," said Wesolowski, a fourth-year Ph.D. candidate in materials science and engineering at Massachusetts Institute of Technology *(source MIT)*

Maxi Revolving Doors

A 30mm Passive rubber buffer safety device is fitted to both entry sides of the drum wall and a 30mm Horse Hair brush strip is mounted within the nose of the door to seal the door leaf against the drum wall. The door will stop rotating when the buffer is compressed and when the obstacle is removed the door will begin rotation as normal.

Spotlights can be flush mounted in the ceiling panels, 220V, 18W. All Automatic Doors have a minimum canopy of 300mm.

A Heel Sensor is fitted to the bottom rail of each door leaf. The door will stop rotating when the buffer is compressed and when the obstacle is removed the door will begin rotation as normal.

All glass is laminated with Polyvinyl Butural (PVB) at 1.52mm thick.
Door leaves are glazed with 4mm + 4mm laminated glass. Drum walls are glazed with 4mm + 4mm curved laminated glass.
Special Glass, coloured, tinted or mirrored can be used in leaves or drum walls.
The drum walls can also be constructed with solid panels to match the aluminium sections.

The internal ceiling is constructed with separate Silver Anodised Aluminium wedge shaped panels. These can be finished to match the door colour.

Maxi Revolving Doors

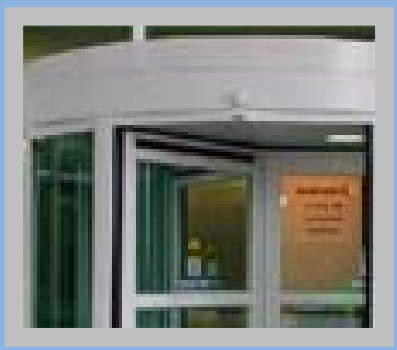
The operator is controlled by a Siemens noiseless servomotor and incorporates an ABS type electronic adjustable braking system. A programmable PLC microprocessor controls the activators, safety devices and optional accessories as fitted. Connections can be made to external Access Control, and Fire protection systems. The drive is fitted on a modular designed frame mounted within the canopy.

A push button digital control panel can be mounted within 15mts of the revolving door, giving user 5 defined functions: Continuous rotation, Automatic on approach, Exit only, Disabled rotation, Manual and/or Closed. (This is normally mounted to the right hand inner drum post) The door rotation is adjustable between 1-4 r.p.m. (British Standard regulations apply)

The PLC has an automatic diagnostic feature, which constantly checks all the installed components and reports for the service engineer a history of faults or errors with the door operation or use. The control panel will indicate the next service to be carried out by an authorised service technician.

A push button is mounted on the door frame for disabled users. When pressed this slows the door rotation to a programmable speed for elderly or frail users. After 1 revolution the door reverts back to normal speed.

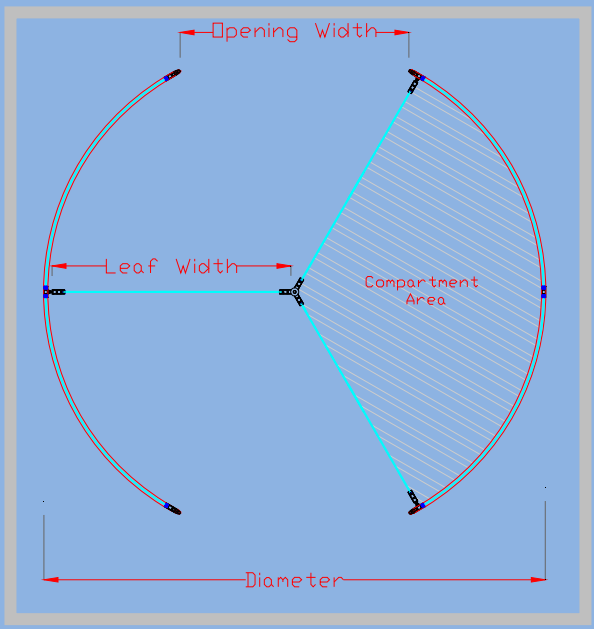
Top rail Infra-red safety sensors actively prevent the moving door leaf making contact with a pedestrian. The infra-red light field projects in front of the door and stops the rotation if the field is broken. Moving out of the field starts the door rotation again.

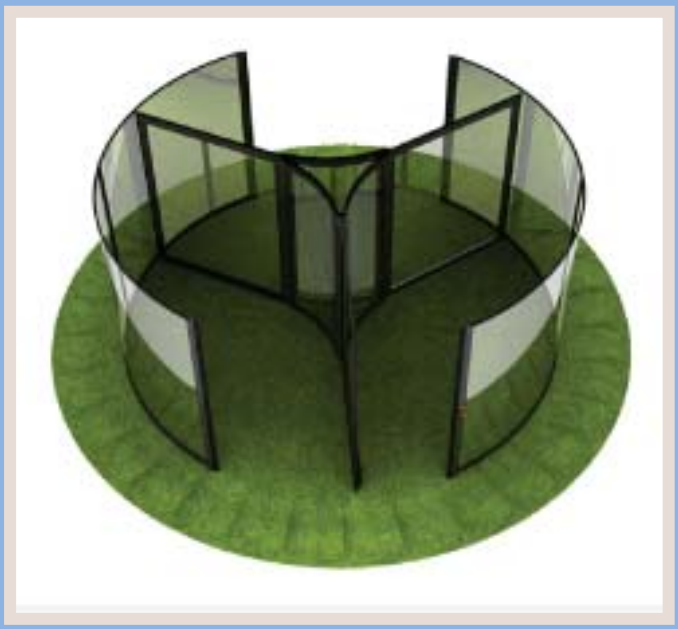


TECHNICAL DETAILS

3 Wing Triangular Shop Window						Capacity Passages per minute		
Part Number	Outside Diameter mm	Inside Diameter mm	Opening Width mm	Compartment Area M²	Leaf Width mm			
	4000	3940	1800	3.80	1270	30 - 35		
	4500	4440	2050	4.80	1520	40 - 45		
	5000	4940	2300	6.10	1770	50 - 55		

3 Wing Without Shop Window						Capacity Passages per minute		
Part Number	Outside Diameter mm	Inside Diameter mm	Opening Width mm	Compartment Area M²	Leaf Width mm			
	4000	3940	1800	4.00	1840	30 - 35		
	4500	4440	2050	5.00	1990	40 - 45		
	5000	4940	2300	6.30	2200	50 - 55		

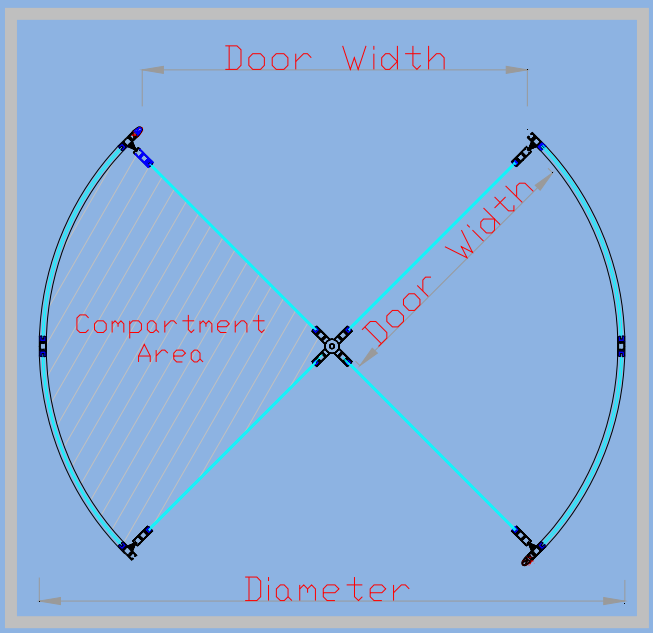


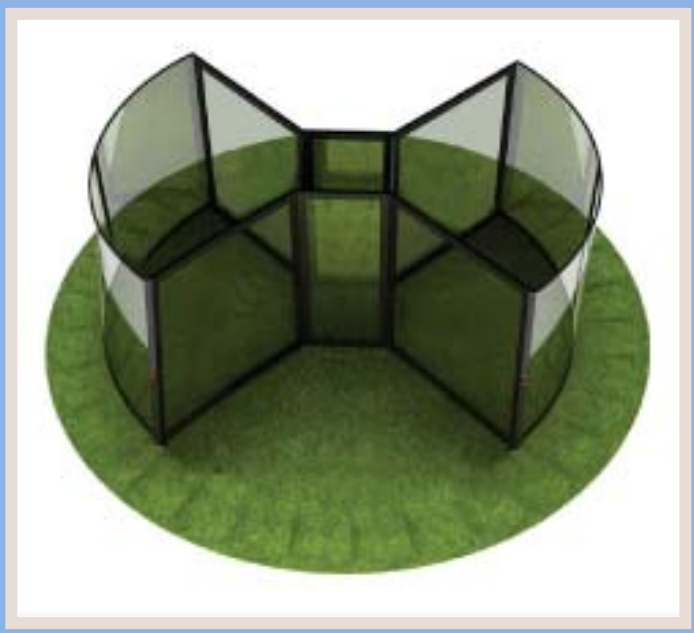


TECHNICAL DETAILS

4 Wing Rectangular Shop Window						Capacity Passages per minute		
Part Number	Outside Diameter mm	Inside Diameter mm	Opening Width mm	Compartment Area M²	Leaf Width mm			
	4000	3940	2700	2.70	1320	38 - 43		
	4500	4440	3000	3.50	1570	48 - 53		
	5000	4940	3400	4.50	1850	58 - 63		

4 Wing Without Shop Window						Capacity Passages per minute		
Part Number	Outside Diameter mm	Inside Diameter mm	Opening Width mm	Compartment Area M²	Leaf Width mm			
	4000	3940	2700	3.00	1840	40 - 45		
	4500	4440	3000	3.50	1570	50 - 55		
	5000	4940	3400	4.70	2200	60 - 65		

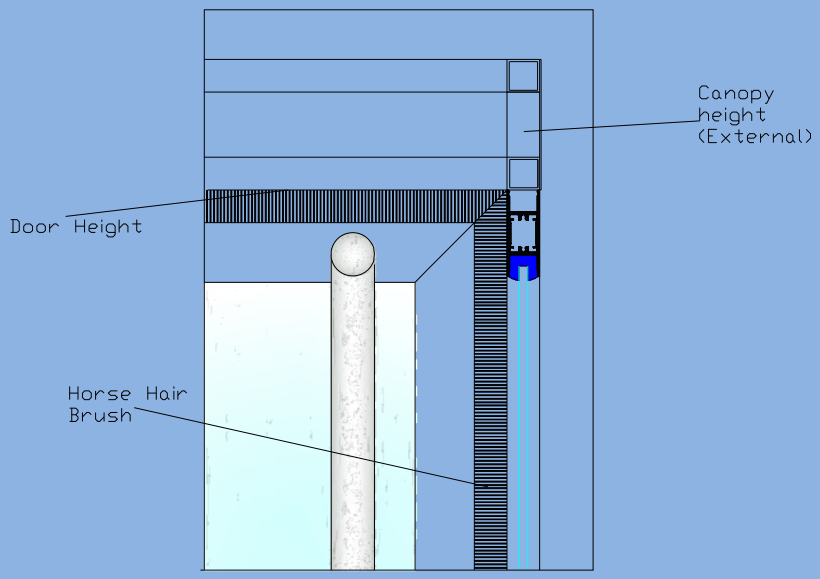


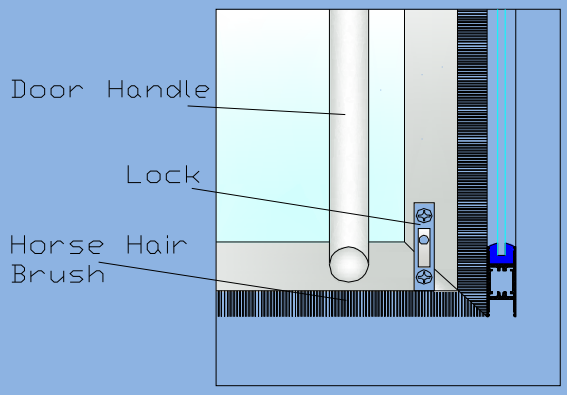


AUTOMATIC DOORS

ENERGY SAVING

On average **8x** as much air is exchanged when a swing door is opened as opposed to a revolving door. That's 8x as much new air that needs to be heated or cooled and that's why using the revolving door is a great way to reduce energy requirements for any building.





Mirror Yellow Stainless Steel

Wood Effect

FAAC

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FAAC
ENTRANCES & AUTOMATIC DOORS

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