

Solutions for revolving entrances

FAAC
Simply automatic.



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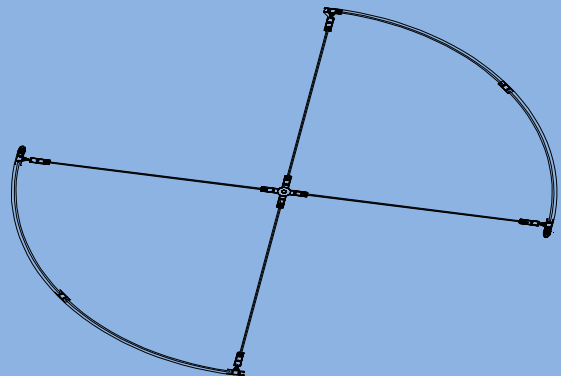
WELCOMING, COMFORTABLE, BEAUTIFUL, SAFE

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.

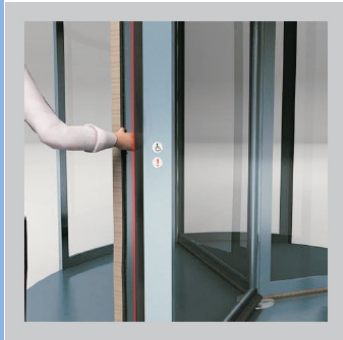
FAAC automated systems make automatic doors move ever more smoothly all over the world, thanks to modern technologies, and the superior quality of processes and materials, along with guaranteed on-going research. All this aimed at improving the "liveability" of offices, shops and buildings in general.

FAAC offer a range of revolving door types and designs to suit every application, environment and customer requirement. Our revolving doors are manufactured as standard designs with a choice of 2, 3 or 4 leaves and diameters from 1800mm to 5000mm. 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*)



MANUAL REVOLVING DOORS



A 30mm rubber buffer 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. This prevents hands and fingers being trapped between the door leaf and drum, whilst keeping a constant seal on the door.

Up to 6 Spotlights can be flush mounted in the ceiling panels, 220V, 18W.

All Manual Doors have a minimum 150mm canopy.



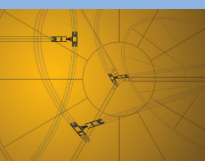
Each leaf has a Stainless Steel full height 40mm diameter pole handle, fixed to the top and bottom rails.

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.

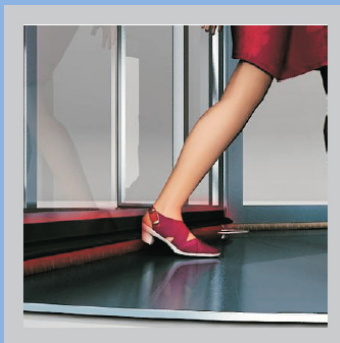


AUTOMATIC REVOLVING DOORS



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.

Up to 6 Spotlights can be flush mounted in the ceiling panels, 220V, 18W. All Automatic Doors have a minimum canopy of 300mm.



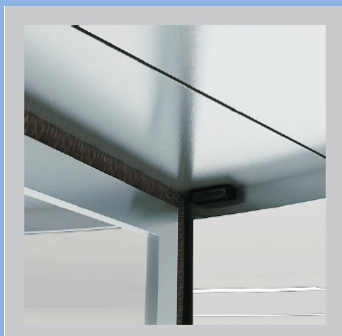
A Heel Sensor is fitted to the bottom rail of each door leaf. The door will stop rotating when the buffer is compressed and when the obstacle is removed the door will begin rotation as normal.

All glass is laminated with Polyvinyl Butural (PVB) at 1.52mm thick.

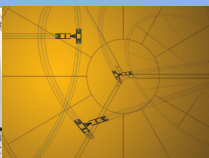
Door leaves are glazed with 4mm + 4mm laminated glass. Drum walls are glazed with 4mm + 4mm curved laminated glass.

Special Glass, coloured, tinted or mirrored can be used in leaves or drum walls.

The drum walls can also be constructed with solid panels



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



AUTOMATIC 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 7 defined functions: Continuous rotation, Automatic on approach, Exit only, Push and go, manual with safety, Manual and 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.





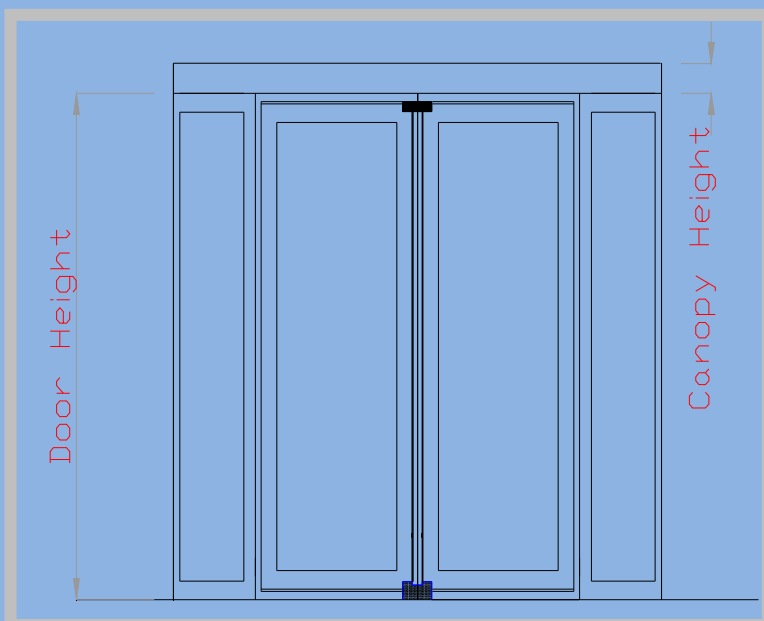
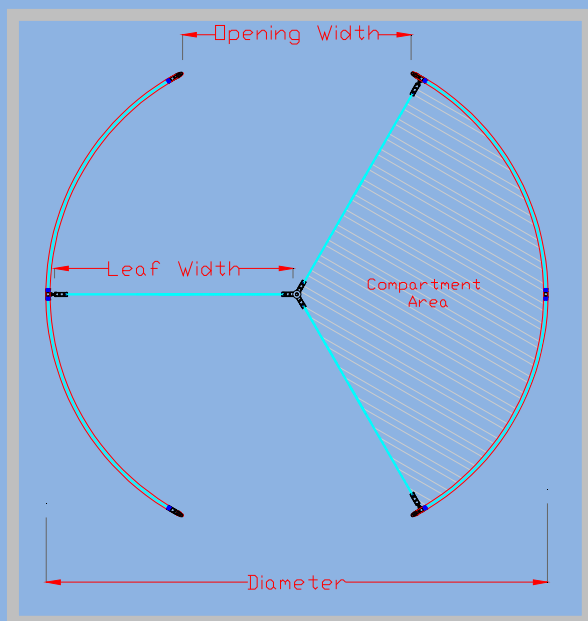
A push button is mounted on the door frame for disabled users. When pressed this slows the door rotation to suitable speed for elderly or frail users. After 1 revolution the door reverts back to normal speed.

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.






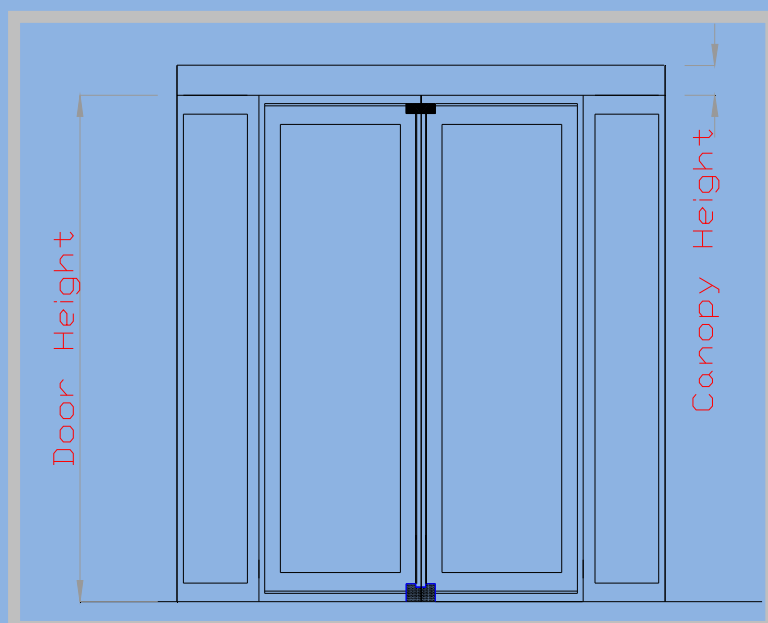
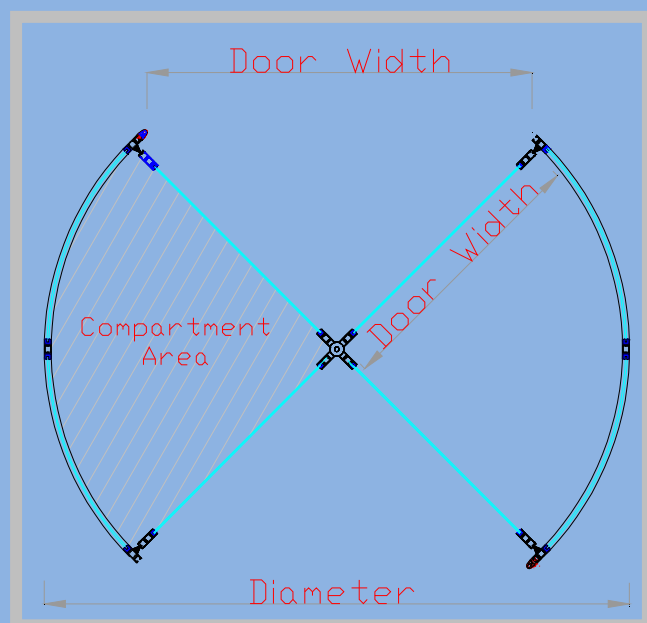
TECHNICAL DETAILS

Standard 3 Wing Revolving Doors							Capacity Passages per minute				
Part Number	Dia mm	Door Width mm	Opening Width mm	Compartment Area M ²	Door Height mm	Canopy Height mm					
FAAC03M18	1800	700	720	0.80	2000 - 2500	250 - 300	5 - 10				
FAAC03M20	2000	900	820	1.00	2000 - 2500	250 - 350					
FAAC03M22	2200	1000	920	1.25	2000 - 2500	250 - 350					
FAAC03M24	2400	1100	1020	1.50	2000 - 2500	250 - 350					
FAAC03M26	2600	1200	1120	1.75	2000 - 2800	250 - 450	10 - 20	5 - 10			
FAAC03M28	2800	1300	1220	2.00	2000 - 2800	250 - 450					
FAAC03M30	3000	1400	1320	2.35	2000 - 2800	250 - 450					
FAAC03M32	3200	1500	1420	2.65	2000 - 2800	250 - 450					
FAAC03M34	3400	1600	1520	3.00	2000 - 2800	250 - 450	20 - 25	10 - 20	3 - 6		
FAAC03M36	3600	1700	1620	3.40	2000 - 3000	250 - 800	25 - 40				
FAAC03M38	3800	1800	1720	3.75	2000 - 3000	250 - 800					
FAAC03M40	4000	1900	1820	4.15	2000 - 3000	250 - 800					



TECHNICAL DETAILS

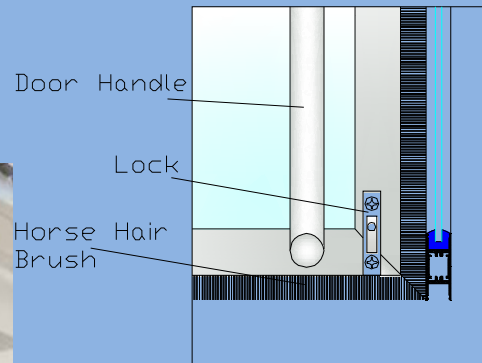
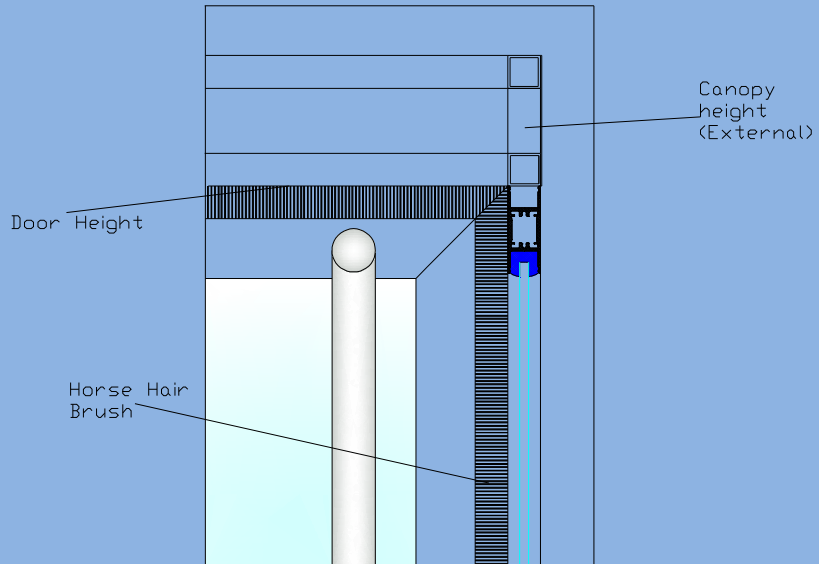
Standard 4 Wing Revolving Doors							Capacity Passages per minute		
Part number	Dia mm	Door Width mm	Opening Width mm	Compartment Area M ²	Door Height mm	Canopy Height mm			
FAAC04M20	2000	900	1250	0.75	2000 - 2500	250 - 350	10 - 20		
FAAC04M22	2200	1000	1390	0.95	2000 - 2500	250 - 350			
FAAC04M24	2400	1100	1530	1.1	2000 - 2500	250 - 350			
FAAC04M26	2600	1200	1670	1.3	2000 - 2800	250 - 450	20 - 30	10 - 20	
FAAC04M28	2800	1300	1810	1.5	2000 - 2800	250 - 450			
FAAC04M30	3000	1400	1950	1.75	2000 - 2800	250 - 450			
FAAC04M32	3200	1500	2090	1.95	2000 - 2800	250 - 450	35 - 50	20 - 40	5 - 10
FAAC04M34	3400	1600	2230	2.25	2000 - 2800	250 - 450			
FAAC04M36	3600	1700	2370	2.55	2000 - 3000	250 - 800			
FAAC04M38	3800	1800	2510	2.8	2000 - 3000	250 - 800	50 - 70		
FAAC04M40	4000	1900	2650	3.1	2000 - 3000	250 - 800			



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.



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