

Twintour

AUTOMATIC REVOLVING DOORS



Boon Edam's Twintour defies simple description. More than a revolving door, the Twintour is a revolving door concept. A unique concept, the Twintour consists of two (or three) small revolving doors that are connected together. The Twintour offers many design possibilities.

Each revolving doorset in the Twintour has only two door wings. Even so, the Twintour still serves as an airlock because the two (or three) doorsets are

electronically synchronized to maintain a sealed compartment at all times.

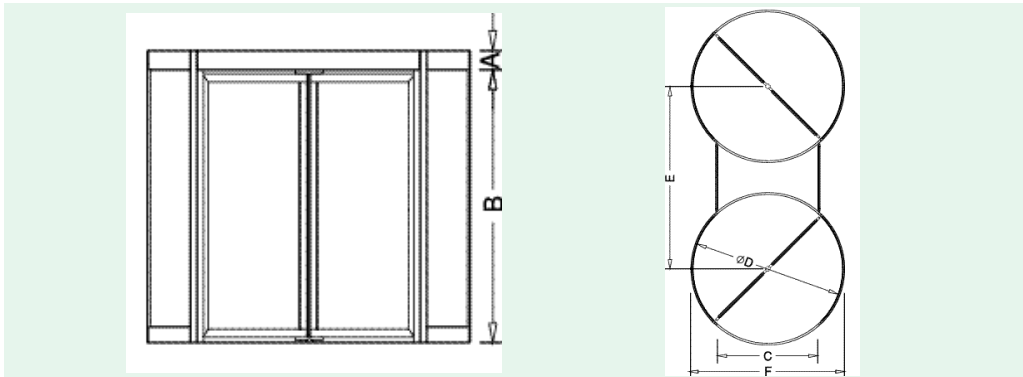
Thanks to a specially developed synchronous drive system, the doorsets rotate at right angles to one another. This ensures that the entrance remains "closed" to the outside elements.

The fact that each revolving door has only two compartments provides the maximum compartment size for an efficient traffic flow. Available in a variety of sizes

ranging from 8'0" to 12'0" in diameter, the Twintour can be customized for most applications.

The two-wing doorsets assure straight-line passage and an unprecedented traffic flow among revolving doors. The door's programming ensures that if one doorset is stopped by a person in the sensor zone, that the other doorset will continue to rotate, but at a slower speed.

Twintour



	Minimum		
	8' 0"	10' 0"	12' 0"
A	1' 0"	1' 0"	1' 0"
B	7' 0"	7' 0"	7' 0"
C	5' 4 1/2"	6' 7 3/8"	8' 1/4"
D	8' 0"	9' 9"	11' 9"
E	12' 3"	14' 10"	17' 10"
F	8' 3"	10' 0"	12' 0"

Basic Use

The Twintour Automatic Revolving Door provides an airlock which helps reduce drafts and the problems in buildings caused by air pressure differences between the inside and the outside. This helps building owners and managers maintain a comfortable interior climate and reduce energy costs.

Construction

The Twintour consists of two complete revolving doors manufactured from aluminum extrusions. The standard sidewall construction utilizes a vertical endpost on each side and one vertical midpost in the center. This maximizes the amount of curved glass utilized, and therefore, the visibility through and around the door. Connecting walls between the revolving doors can be supplied to match the structure, or existing building walls can be used instead.

The drive system consists of two AC motors with Frequency Controllers. 208V 3-phase electrical service is required. The Frequency Controller permits independent, digital settings for rotation speeds and motor torque. This allows the proper speed and torque to be set for each environment.

Standard glazing includes 1/4" clear tempered safety glass, both in the door wings and in the curved sidewalls. Tempered glass provides a tough surface strength which reduces the chance for glass breakage. As an option, 7/16" laminated safety glass is available in the curved sidewalls.

The Twintour can tie into the building fire alarm system and the door wing locking can release to allow for emergency egress.

A dust cover is included as a standard feature. Dust covers with matching finish or a water resistant covering are available as an option.

Sensor Systems

A combination of active infrared sensors are used to detect presence in front of each door wing (TRS) and in front of each curved sidewall (EBS). The EBS sensors are wired into the angle encoder within the motor, allowing them to be turned on when the doors approach the curved walls and then turned off after the door passes the curved wall to minimize unnecessary stops. The TRS and EBS sensors stop the door's rotation when actuated. Compression switches are also mounted on each door wing (SRD) and sidewall (SRB) which stop the door's rotation when contacted.

A handicap button is provided to slow the door's rotation when pressed and an emergency stop button will halt the door's rotation.