

APPLICATION Spotlight

Derailed by wind? Get back on track with BPA air curtains.

When your manufacturing facility is located in the windswept plains of the Midwest, that wind plays havoc on door openings.

A leading manufacturer of passenger rail cars installed five BPA Big Powered Aire Curtains to reduce the infiltration of cold air in the winter, warm air in the summer, and help prevent dirt from entering their new facility when the five 16 ft. wide x 20 ft. high ground level doors are open.

In addition to the energy savings and employee comfort, the BPA's capability to keep dirt and insects out of the building was of paramount concern.

Since the BPAs weighed over a 1,000 lbs. each, custom factory welded standoff brackets were fabricated to assist with the installation.

The BPA-3-192 air curtain contains three 7.5 hp motors which generate an average of 4,000 FPM and 30,300 CFM of wind stopping air flow.

In most applications, a typical return on investment on a Powered Aire Curtain is under two years.



Unheated

Model	BPA-3-180	BPA-3-192	BPA-3-204	BPA-3-216	BPA-3-228	BPA-3-240	BPA-4-240
Door Width Feet	15	16	17	18	19	20	20
Nozzle Width Inches	180	192	204	216	228	240	240
Max. FPM at Nozzle	5950	5950	5950	5950	5950	5950	5950
Max. CFM at Nozzle	38703	39435	40448	41405	49055	51604	55067
Avg. FPM at Nozzle	4272	4063	3834	3803	4153	4056	4309
CFM at Nozzle	29905	30335	30420	31948	36827	37856	40217
Outlet Velocity Uniformity	94%	95%	94%	95%	94%	92%	95%
Number of Motors	3	3	3	3	3	3	4
Horse Power	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Weight (Lbs)	1343	1360	1372	1407	1460	1505	1800