

BIG Building, BIG Doors, GREAT Protection with Powered Aire Curtains

Wind measurements, temperature and site conditions were all important considerations when Powered Aire Inc. was selected to provide EHD model air curtains for the Red Deer Civic Yards in Alberta, Canada.

The city's transit line is one of several departments located at the Civic Yard, where it takes thousands of square feet to house, clean, wash and maintain a fleet



of city buses under one roof. The facility is heated to facilitate all these operations, since outside temperatures range from -40 to +30 F on a typical Red Deer fall, winter or spring day, with winds to match.

Powered Aire's engineering department utilized its state-of-the-art Computational Fluid Dynamics (CFD) design software to determine the specific feet per minute (FPM), cubic feet per minute (CFM) and nozzle width the air curtains would require for maximum all-season effectiveness.

Unheated

Model	EHD 3-156	EHD 3-168	EHD 3-180	EHD 3-192	EHD 3-204	EHD 3-216	EHD 4-228	EHD 4-240
Door Width Feet	13	14	15	16	17	18	19	20
Nozzle Width Inches	156	168	180	192	204	216	228	240
Max FPM at Nozzle	6572	6572	6572	6572	6572	6572	6572	6572
Max. CFM at Nozzle	25850	27812	29772	30355	31114	31850	37736	39696
Avg. FPM at Nozzle	4681	4520	4358	4842	4358	4600	4842	4358
CFM at Nozzle	20257	22825	23004	23335	23400	24570	28329	29120
Outlet Velocity Uniformity	94%	94%	94%	95%	94%	95%	94%	95%
Number of Motors	3	3	3	3	3	3	4	4
Horse Power	5	5	5	5	5	5	5	5
Weight (Lbs)	1145	1180	1210	1227	1248	1268	1615	1645

For units over 240 inches contact factory.