

# Martin<sup>®</sup> XHV Air Cannon 6-inch Valve



#### Benefits

- Effective Boost to Solids Flow
   High-velocity discharge of stored air enhances material movement.
- Minimum Maintenance
   Short piston stroke reduces wear and holds down maintenance costs.
- Withstands High Temperatures
   Designed for use on cement kiln pre-heaters and other "hot" applications.
- 200,000 Firings Guarantee!

#### Martin® XHV Air Cannons

supply a quiet but powerful discharge of plant compressed air to dislodge material buildups and enhance the flow of bulk solids.

Martin® XHV Air Cannons provide effective performance on high-temperature applications and the most challenging materials. Low maintenance requirements and high-velocity discharge.

Martin® XHV Air Cannons are designed for severe-duty applications where exposure to elevated service temperatures and harsh gases can affect performance. They have proven successful in applications outside cement kiln pre-heaters where interior temperatures reach up to 2500°F (1371°C).

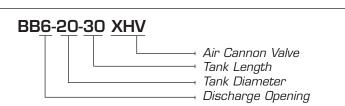
### Performance Data

			NOISE * * *				
Madal	Fill Time *	Discharge Time **	@ 80 psi (5.5 bar)	, ,	@ 100 psi (6.9 bar)		
Model	seconds	seconds	db	db	db		
BB6-20-30	114.44	0.14	90	93	94		
BB6-24-48	272.00	0.36	92	94	95		
BB6-30-60	531.57	0.69	93	95	96		

- \* Standard fill time to fully charge to supply pressure at 90 psi (6.2 bar) with minimum of 50 cfm (1461 I/min) delivery.
- \*\* Length of time to fully discharge tank pressure at 90 psi (6.2 bar).
- \*\*\* Noise measure at a distance of 4 feet (1.2 meters) for discharge into 6 tons (5442 kg) of material with bulk density of 105 lb per cubic foot (1,680 kg per cubic meter).

#### Nomenclature

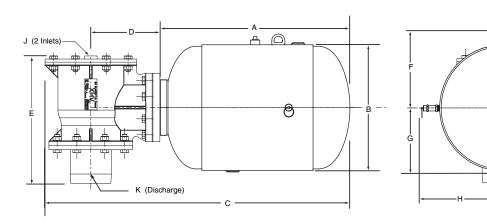
Model numbers are composed of the prefix BB, followed by three numbers representing critical dimensions (in inches) of the unit. The first number is the diameter of the discharge, the second number is tank diameter, and the third set of numbers specifies the tank length.



## Dimensions—in. (mm)

Model	P/N	Α	В	С	D	Е	F	G	Н	I	J*	К
BB6-20-30	36260-2030	30 (762)	20 (508)	48 (1219)	8 (203)	20.5 (521)	10.75 (273)	10.25 (267)	12.25 (371)	10.5 (254)	1	6
BB6-24-48	36260-2448	48 (1219)	24 (610)	66 (1676)	8 (203)	20.5 (521)	12.75 (324)	12.25 (317)	14.25 (422)	12.5 (305)	1	6
BB6-30-60	36260-3060	60 (1524)	30 (762)	78 (1981)	8 (203)	20.5 (521)	15.75 (400)	15.75 (394)	17.25 (498)	15.5 (381)	1	6

<sup>\*</sup> NPT—National Pipe Thread



# Air Volume In Cubic Feet (Liters) Free Air

Air Pressure psi (bar)		BB6-20-30 XHV		BB6-24	I-48 XHV	BB6-30-60 XHV		
0	(O)	4.48	(137)	11.51	(326)	22.49	(637)	
40	(2.8)	13.17	(373)	31.32	(887)	61.20	(1733)	
50	(3.4)	16.46	(466)	39.15	(1109)	76.50	(2166)	
60	(4.1)	19.76	(560)	46.98	(1330)	91.80	(2600)	
70	(4.8)	23.03	(652)	54.81	(1552)	107.10	(3033)	
75	(5.2)	24.69	(699)	58.72	(1663)	114.75	(3250)	
80	(5.5)	26.34	(746)	62.64	(1774)	122.40	(3466)	
85	(5.9)	27.99	(793)	66.55	(1885)	130.00	(3683)	
90	(6.2)	29.63	(839)	70.47	(1996)	137.70	(3900)	
95	(6.5)	31.28	(886)	74.38	(2107)	145.34	(4116)	
100	(6.9)	32.93	(933)	78.30	(2121)	153.00	(4333)	
110	(7.6)	36.22	(1026)	86.13	(2439)	168.30	(4766)	
120	(8.3)	39.51	(1119)	93.96	(2661)	183.60	(5200)	

Guaranteed engineering and installation of Martin® XHV Air Cannon Systems is available from Martin Services. Maintenance is also available from Martin Service Technicians.

Certified drawings of air cannon system installations are available from the Engineering Department at Martin Engineering.

Martin Engineering recommends the walls of all storage vessels be cleaned prior to the installation of any Martin® Air Cannon System.

For further information, contact Martin Engineering at 1-800-544-2947 or visit our website at www.martin-eng.com.



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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =