Installation Instructions: K-Vortex Air Blaster

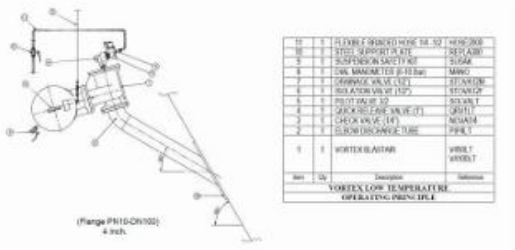
Kinder Australia Product:	K-Vortex Air Blaster
Product Category:	Cleaners and Scrapers
Issue Date:	01/04/2020
Revision:	1

Overview

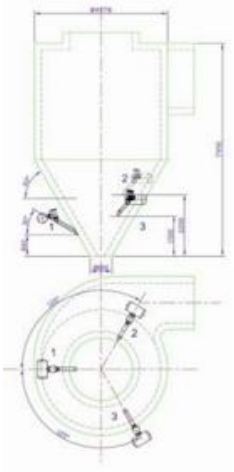
The function of the K-Vortex Air Blaster is to evacuate the material sticking to the walls as well as breaking potential bridging, so as to solve the problem of bridging, hanging, rat holing or clogging of the bulk material in the hopper. The principle is to instantly release the compressed air contained in the pressure vessel to achieve blast, or called the impact force to evacuate material.

Procedures

1. Turn off and lock out/tag our air supply and energy source before air blaster.
2. Locate and mark all the positions of installing the blaster on the vessel according to the recommended layout.
3. Cut the holes and weld on the 30o bend by blowing the pipes c/w flange which suits the dimension of the K-Vortex Air Blaster flange that is to be installed. The inclined angle of pipe should follow the recommended layout drawings. If vessel has a liner, drop-through blow pipe must be used. The blow pipe must be extended past liner so that liner is now damaged from air cannon blast.
4. Mount the blaster flange into the welded-on flange with bolts c/w nuts and washers and tighten. Mount and secure the safety suspension unit to support the blaster tank.
5. Connect compressed air supply to the blaster air tank connection. Before operation of the blaster, make sure air lines is purged.
6. Install all electrical control components and solenoid valves according to the layout drawings on instructions diagrams.



7. Before running the blaster for the first time, check and secure all connections to prohibit movement. Look over installation for proper welding and plumbing Eliminate all leaking problems if there are any. Remove tags, switch on power, and supply 5-8 bars filtered and regulated air to system.



Kinder Australia Pty Ltd
ABN 28 006 489 238
P: +61 3 8587 9111 | F: +61 3 8587 9101
conveyorsolutions@kinder.com.au
kinder.com.au

Installation Instructions: K-Vortex Air Blaster

8. Blast air cannon five times to ensure proper operation. Allow tank to fill after each blast. After approximately one hour of operation, check blaster fixtures or tightness. This check should be done once a month along with the air supply, mounting.
9. 9. Keep air cannon charged with air at all times so unit is always ready for use and so material cannot flow back into the air cannon.
10. 10. Replacement parts and accessories for the blaster are available from Kinder. You could place order by model, part number and description. If you have any questions concerning your blaster, contact Kinder or the dealer/distributer.

WARNING!

Make sure the air supply that the blaster will be connected to have been shut off before attempting the plumbing installation.

Caution should be taken to protect from eye and/or ear injuries.

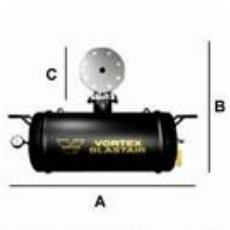
Kinder Australia Pty Ltd
ABN 28 006 489 238

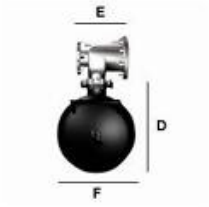
P: +61 3 8587 9111 | F: +61 3 8587 9101
conveyorsolutions@kinder.com.au
kinder.com.au

Installation Instructions: K-Vortex Air Blaster

Technical Information

Vortex Blastair® Dimensions The table below contains technical information on the different Vortex Blastair® models (DN 50, DN 100 and DN 150).





		OUTLET	DIMENSIONS						WEIGHT	
MODEL	LITRES	INCH	A	B	C	D	E	F	KG.	LBS.
Vortex 2	20	2"	390	680	240	435	265	310	25	56
Vortex 4	50	4"	720	720	280	435	310	310	55	123
Vortex 4	100	4"	1084	765	280	481	310	310	70	157
Vortex 6	100	6"	1084	880	385	481	465	355	96	213

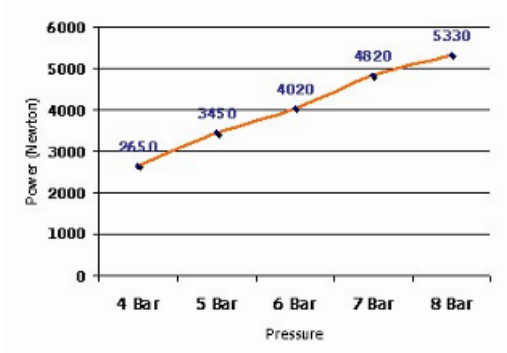
Notes: References not contractual and subject to modifications without prior notice. Dimensions in millimetres (mm.)

Vortex Blastair® Performance Figures

High Temperature Application

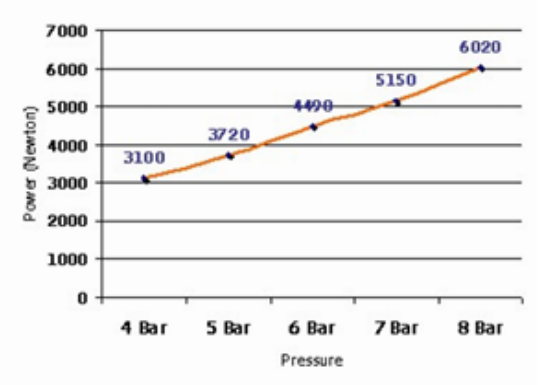
The table below contains sample performance figures (Power in Newton) of a Vortex Blastair® DN 100 in a high temperature environment and application (certified up to 1200oC). Examples of high temperature applications of Vortex Blastair® air are in kiln inlets, cyclones, coolers, riser ducts,

feeding chutes... etc.



High Temperature Application

The table below contains sample performance figures (Power in Newton) of a Vortex Blastair® DN 100 in a low temperature environment and application (below 80oC). Examples of low temperature applications are silos, hoppers and bins – usually in use for any powdery or granular material.



Kinder Australia Pty Ltd
ABN 28 006 489 238
P: +61 3 8587 9111 | F: +61 3 8587 9101
conveyorsolutions@kinder.com.au
kinder.com.au