

TECHNICAL SPECIFICATION

AUTO LOADERS (BVL-F Series)

Bulletin : BAA:BVL(F)-919.7
Effective : NOV. 23, 2018
Supersedes : BAA:BVL(F)-919.6
Dated : AUG. 05, 2016

All Loader Floor-Mount Cabinet-style comes standard with:

- CNC manufactured with powder coated finish
- Micro PLC controller
- Heavy duty regenerative vacuum pump
- Cartridge type dust replant high efficiency paper filter
- Unique silicon & SS flapper design
- CRS receiver belly & SS as optional
- Quick removable clamps for material and vacuum hoses
- Option available for pneumatically operated ratio loading*
- Air and material conveying through highly flexible PVC/PU hoses
- Transparent thunder hoses for visibility of conveying material
- Novel style, mounted on caster wheel for ease of movement
- Audible alarm with message for faults like material shortage & pump tripped
- Material pick-up tube with adjustable air to material ratio
- Option available for pneumatically operated vacuum take off box*
- Password protected to avoid any kind of unauthorized handling
- SS Mesh Filter of 530 microns separates the resin from the air in the receiver belly
- Integrated limit-switch activates material demand
- C-Clamp for easy removal of top hood in the receiver belly for easy cleaning
- World wide proved Siemens make electrical switchgears for safety & reliability

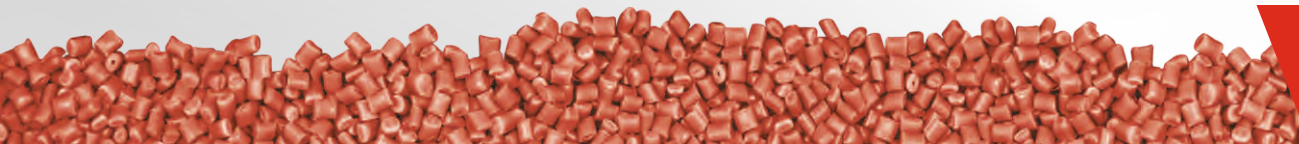


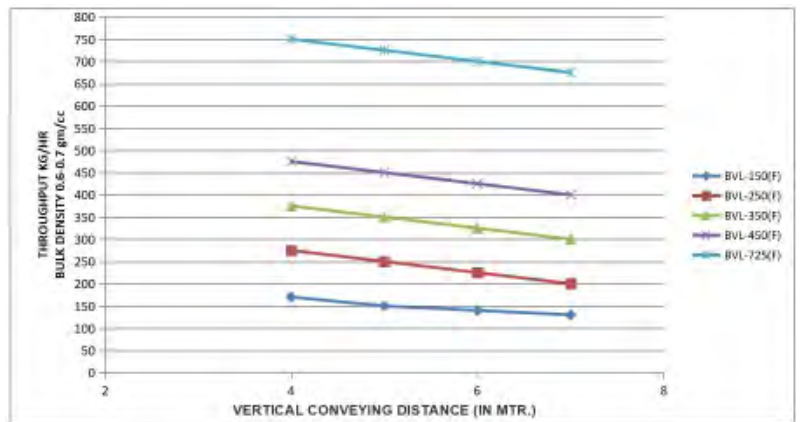
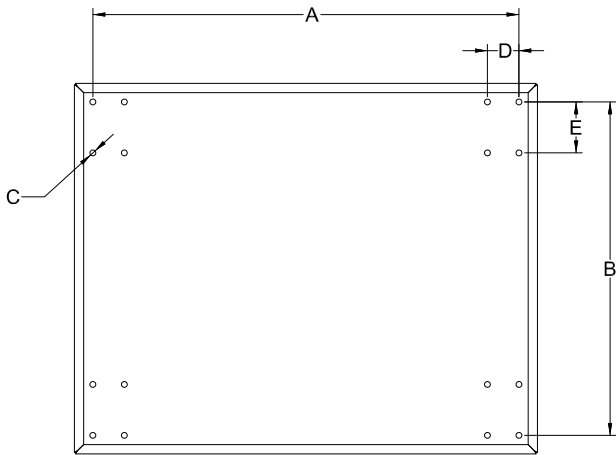
* Compressed Air required 5 to 6 bar.

Specifications for BVL (F) Series Auto Loaders

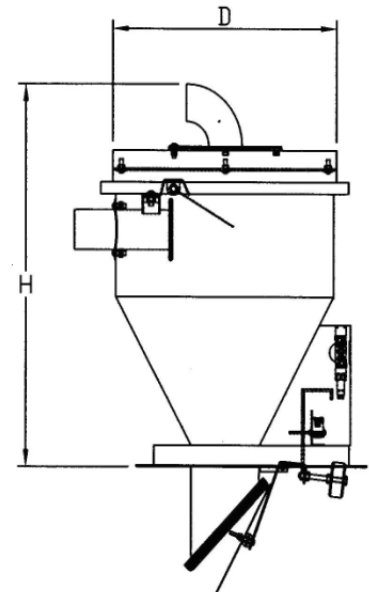
MODEL	CONVEYING LINE SIZE DIA IN MM	VACUUM LINE SIZE DIA IN MM	FILTER TYPE	FULL LOAD AMP. at 415/3/50	BLOWER KW	RECEIVER BELLY DIMENSIONS IN MM			TROLLEY DIMENSIONS IN MM			APPROX. SHIPPING WEIGHT IN KG.
						LTR.	H	D	W	D	H	
BVL-150 (F)	32	50	CARTRIDGE	2.14	0.75	6	385	200	400	500	800	55
BVL-250 (F)	32	50	CARTRIDGE	2.14	0.75	15	480	314	400	500	800	55
BVL-350 (F)	38	50	CARTRIDGE	2.65	1.3	15	480	314	400	500	800	60
BVL-450 (F)	38	50	CARTRIDGE	3.9	1.75	15	480	314	420	500	860	75
BVL-725 (F)	50	50	CARTRIDGE	8.0	4	30	695	314	500	510	940	100

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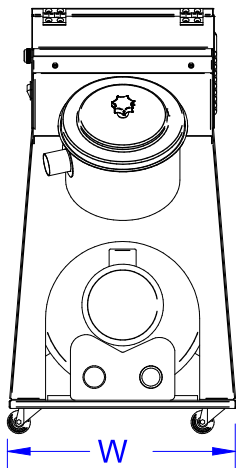




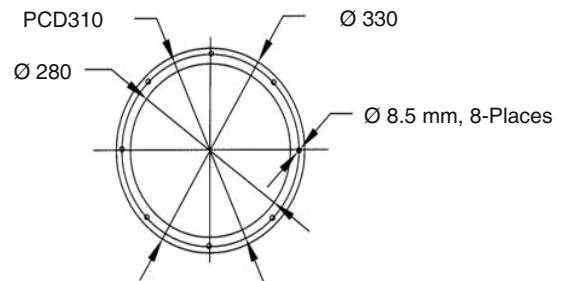
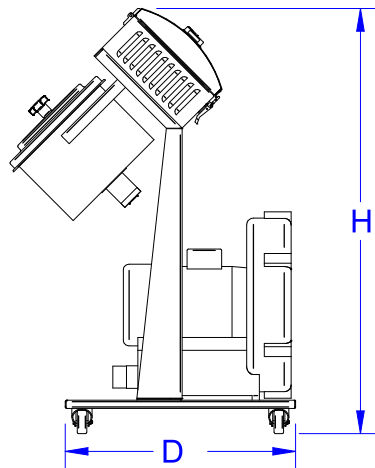
MODEL	A	B	C	D	E
BVL-150/250/350	460	360	6.35	34	55
BVL-450	460	380	6.35	34	55
BVL-725	470	460	6.35	34	55



BVL STANDARD RECEIVER



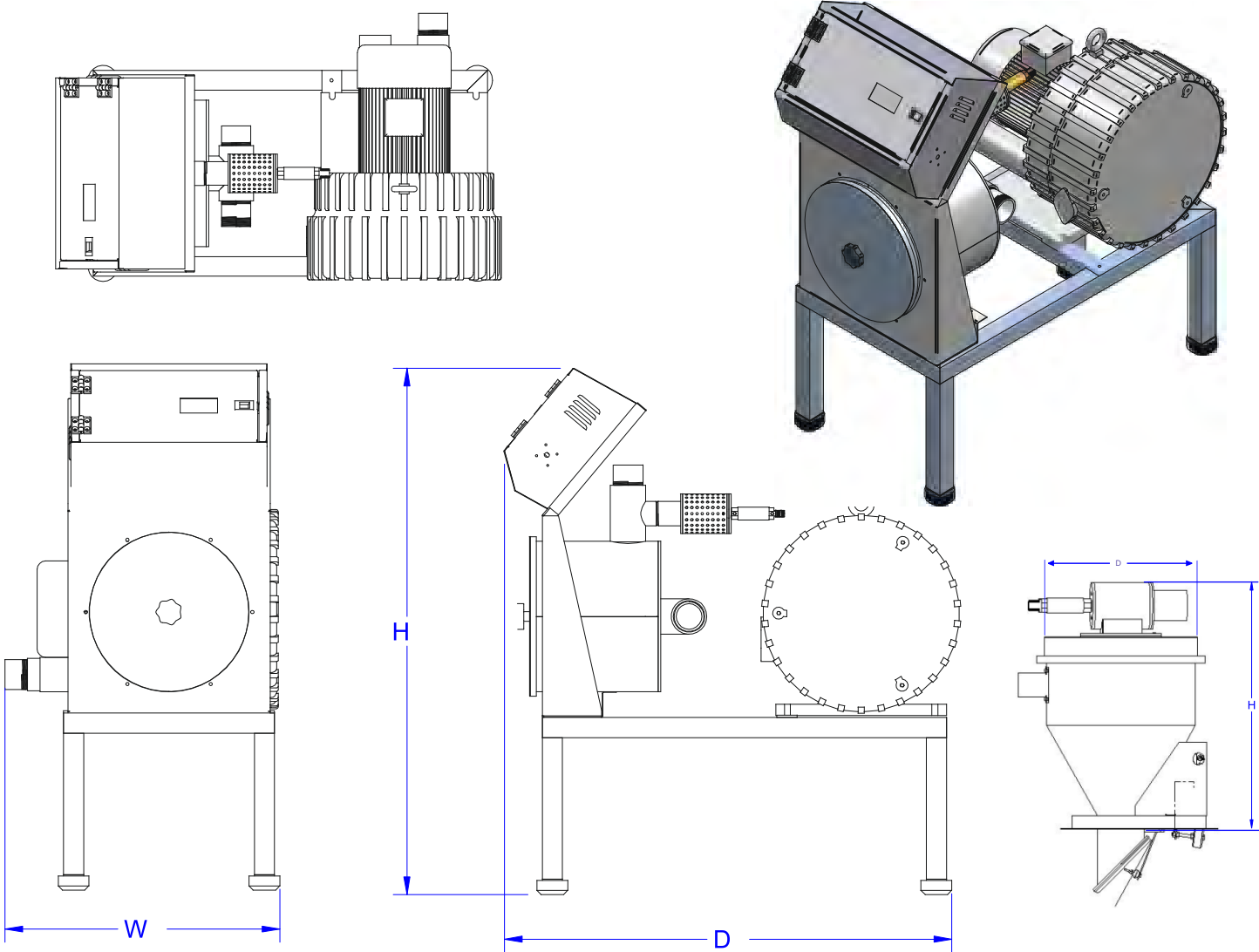
BVL-TROLLEY



RECEIVER MOUNTING DETAIL

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Specifications for BVL (F) Series Auto Loaders

MODEL	CONVEYING LINE SIZE DIA IN MM	VACUUM LINE SIZE DIA IN MM	FILTER TYPE	FULL LOAD AMP. 415/3/50	BLOWER KW	RECEIVER BELLY DIMENSIONS IN MM			TROLLEY DIMENSIONS IN MM			APPROX. SHIPPING WEIGHT IN KG.
						LTR.	H	D	W	D	H	
BVL-1000 (F)*	50	63.5	CARTRIDGE	8.3	4	30	695	314	680	1130	1270	150
BVL-1500 (F)*	50	63.5	CARTRIDGE	12	5.5	60	1085	314	680	1130	1270	165
BVL-2000 (F)*	63.5	63.5	CARTRIDGE	15.6	7.5	60	1085	314	680	1130	1270	200

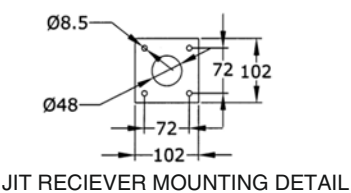
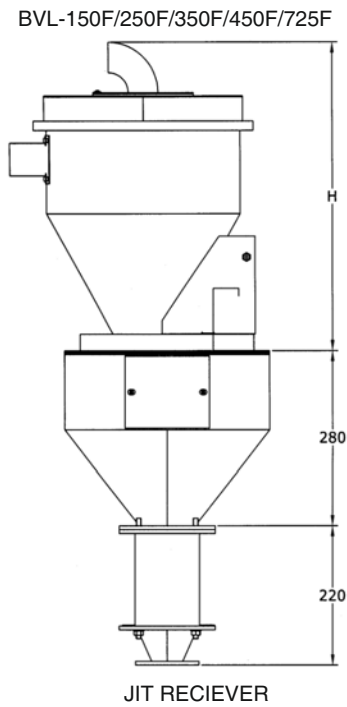
*Compressed air required 5 to 6 bar

BVL-1000 (F) / 1500 (F) / 2000 (F) — Without caster wheels



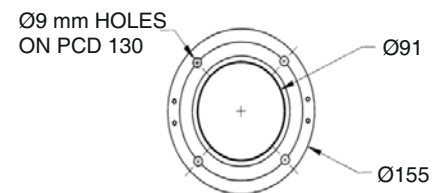
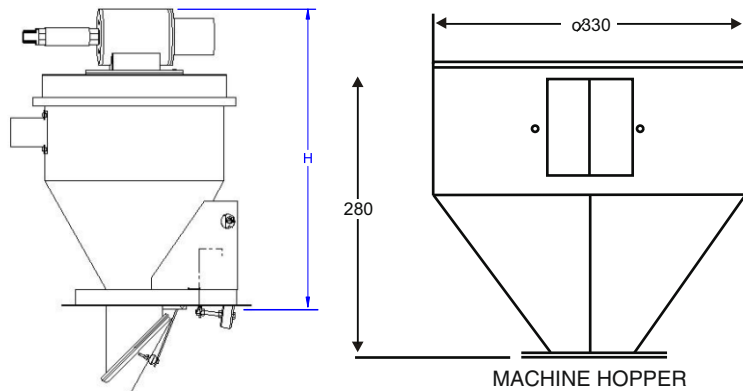
Option Availability:

DESCRIPTION	AVAILABILITY							
	BVL-150(F)	BVL-250 (F)	BVL-350 (F)	BVL-450 (F)	BVL-725 (F)	BVL-1000 (F)*	BVL-1500 (F)*	BVL-2000 (F)*
MAGNETIC GRILL FOR REMOVAL OF FERROUS IMPURITIES	← AVAILABLE →							
RATIO LOADING FOR VIRGIN & REGRIND MATERIAL	← AVAILABLE →							
MATERIAL LINE & VACUUM LINE IN PU OR ALSI PIPE OR SS PIPE	← AVAILABLE →							
VTOB-P FOR DRIED MATERIAL & MASTERBATCH MIXED CONVEYING	← AVAILABLE →							
DAY BIN FOR MATERIAL STORAGE	← AVAILABLE →							
MACHINE HOPPER SS- INSULATED NON- INSULATED	← AVAILABLE →							
JIT RECEIVER	← AVAILABLE →							



(All units are in MM)

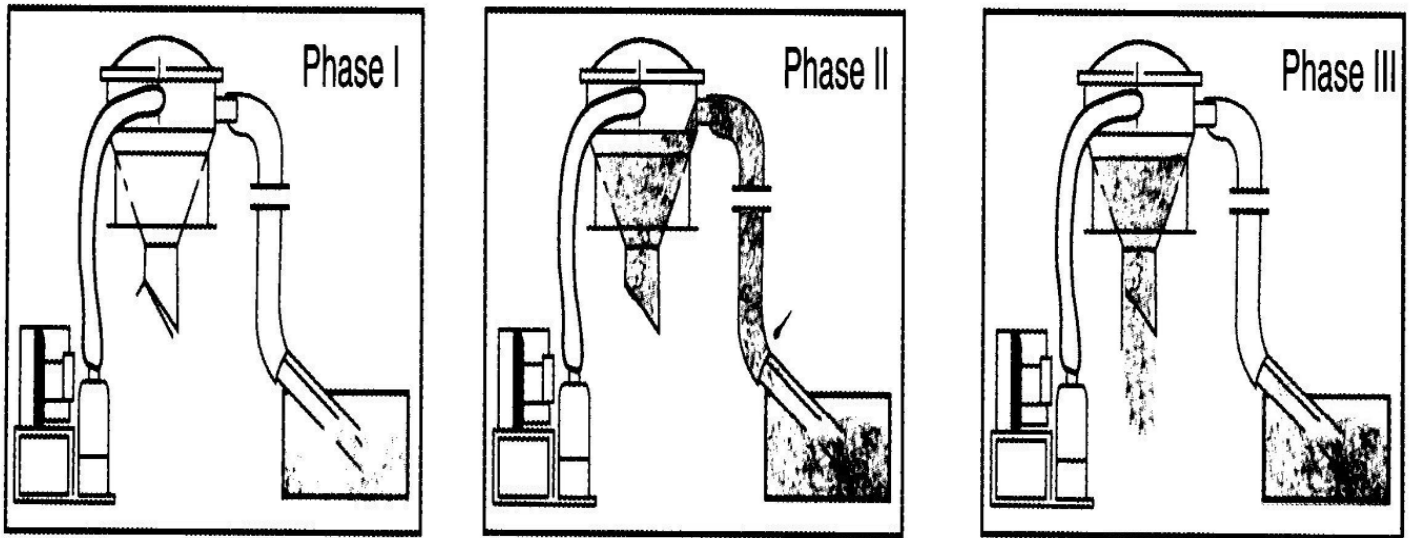
BVL-1000F/1500F/2000F



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Working Principle:



Typical Flow Diagram

MODEL	STANDARD ACCESSORY		
	MATERIAL LINE	VACUUM LINE	SUCTION PROBE
BVL-150 (F)	4 Mtr.	4 Mtr.	1 No.
BVL-250 (F)	4 Mtr.	4 Mtr.	1 No.
BVL-350 (F)	4 Mtr.	4 Mtr.	1 No.
BVL-450 (F)	5 Mtr.	5 Mtr.	1 No.
BVL-725 (F)*	5 Mtr.	5 Mtr.	1 No.
BVL-1000 (F)*	5 Mtr.	5 Mtr.	1 No.
BVL-1500 (F)*	5 Mtr.	5 Mtr.	1 No.
BVL-2000 (F)*	5 Mtr.	5 Mtr.	1 No.

The Bry-Air Auto-Loader ensures that the hopper is always full. The loader stops loading material once the hopper is full and automatically restarts the loading as soon as the material level inside the hopper falls.

The working principle of loader is divided into three phases.

Phase-I When the material in the receiver belly falls below the flapper, the flapper in the receiver belly closes. This triggers the input signal to the controller & after 10-12 second delay, pumps starts.

Phase - II The regenerative vacuum pump sucks air from the receiver belly creating a vacuum. Due to the vacuum, material from the bin raises via the flexible pipe connecting the receiver & the material suction probe (the probe remains partly submerged in the bin containing resin/material). An efficient filter between the receiver and the blower filter the air.

The loading time is controlled by the controller.

Phase- III (At the preset time, the regenerative vacuum pump stops (beginning of phase -III). Due to the weight of the resin, the flapper in the receiver belly opens and the material is unloaded. Once the material is unloaded in to the hopper and receiver is empty the flapper gets closed and cycle of suction of the material from bin restart again with 10-12 seconds delay (phase-1).



AUTOMOBILES • MEDICAL • WOVEN SACKS • WIRES & CABLES • BLOWN FILMS
• ELECTRICALS • PET • EXTRUSION • WHITE GOODS

DRYING

New



BWD series
BrySmart Wheel Dryer
30 CMH to 3500 CMH
Engineered Above 3500 CMH



BHD series
Honeycomb Resin Dryer
30 CMH to 3500 CMH
Engineered Above 3500 CMH



BWD/BHD Combo series
Honeycomb Resin Dryer
30 CMH to 3500 CMH
Engineered Above 3500 CMH



HP series
Drying Hopper
6 kg to 3600 kg
Engineered Above 3600 kg



HAD series
Hot Air Dryer
13 kg to 400 kg
Engineered Above 3600 kg



HAD HP series
Hot Air Dryer
13 kg to 400 kg
Engineered Above 3600 kg



Combo Dryer
30 CMH to 60 CMH

CONVEYING



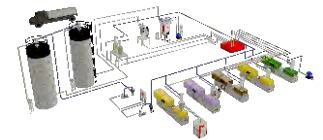
BVL (F) series
Auto Loader
150 kg/hr to 1000 kg/hr
Engineered Above 1000 kg/hr



BVL (T) series
Auto Loader Twin
100 kg/hr to 500 kg/hr
Engineered Above 500 kg/hr



BVL Tetra series
Auto Loader Tetra
Engineered up to 2000 kg/hr



Bry-Air Conveying System
BCS series

BLENDING



BGD series
Gravimetric Blending
160 kg/hr to 2150 kg/hr
Engineered Above 2150 kg/hr



BVD series
Volumetric Doser
Dosing Screw Throughput
0.2 kg/hr to 26 kg/hr

HEATING & COOLING



BTC series
Mould Temperature Controller
50 °C - 140 °C with Water &
150 °C - 200 °C with Oil



CHA series
Chiller
3.5 TR, 7.5 TR & 10.5 TR

MOULD DEHUMIDIFICATION



MDS series
Mould Dehumidification System
500 CMH to 2500 CMH
Engineered Above 2500 CMH

INLINE MOISTURE MEASUREMENT



MOISTURE MINDER
SWISS + MADE



Leaders in Dehumidification... Worldwide

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