



TECHNICAL

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Effective	: NOV 01, 2023
Supersedes	: BAA:BVL(F)-919.8
Dated	

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AUTO LOADERS BVL (F)-SERIES FLOOR MOUNTED

**BVL (F)-SERIES CABINET-STYLE LOADERS
 ALL LOADER FLOOR-MOUNT CABINET-STYLE COMES STANDARD WITH :**

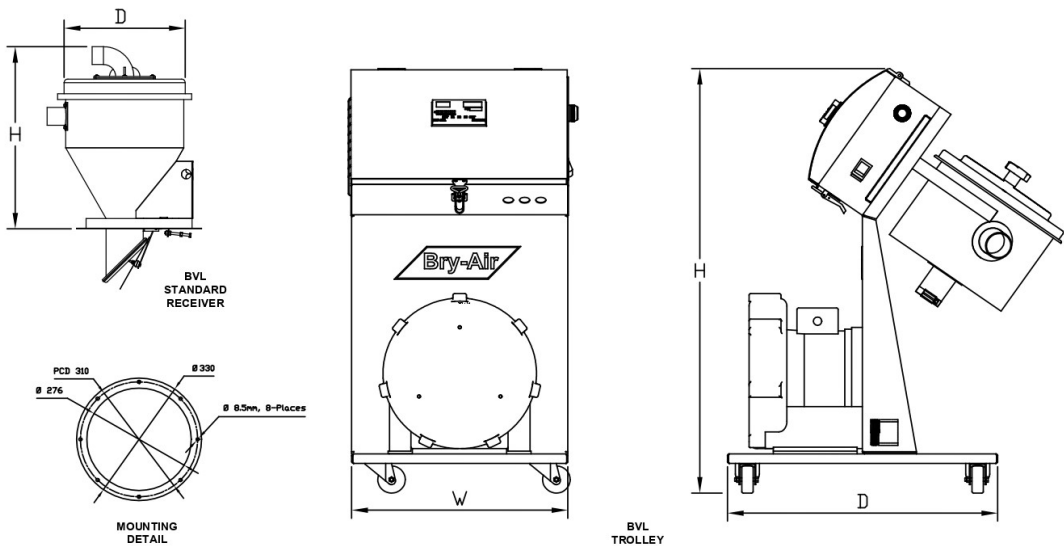
- CNC MANUFACTURED WITH POWDER COATED FINISH
- MICRO PLC CONTROLLER
- HEAVY DUTY REGENERATIVE VACUUM BLOWER
- CARTRIDGE TYPE DUST REPLANT HIGH EFFICIENCY PAPER FILTER
- UNIQUE SILICON PTFE COATED SS FLAPPER DESIGN
- CRS RECEIVER BELLY & SS AS OPTIONAL
- QUICK REMOVABLE CLAMPS FOR MATERAIL AND AIR HOSES
- OPTION AVAILABLE FOR PNUMATICALLY OPERATED RATIO LOADING
- AIR AND MATERIAL CONVEYING THROUGH HIGHLY FLEXIBLE PVC / PU HOSES
- TRANSPARENT HOSES FOR VISIBILITY OF CONVEYING MATERIAL
- CABINET STYLE, MOUNTED ON CASTER WHEEL FOR EASE OF MOVEMENT
- AUDIBLE ALARM FOR FAULTS
- MATERIAL PICK-UP TUBE WITH ADJUSTABLE AIR TO MATERIAL RATIO

SPECIFICATION SHEET FOR BVL - 50 TO 725 (F) LOADERS

MODEL	CONVEYING LINE SIZE DIA IN MM	VACUUM LINE SIZE DIA IN MM	FILTER TYPE	FULL LOAD AMP. 415/3/50	MOTOR KW	RECEIVER BELLY DIMENSION IN MM			TROLLY DIMENSION IN MM			APPROX. SHIPPING WEIGHT IN MM
						LTR	H	D	W	D	H	
BVL-50 (F)	32	50	CARTRIDGE	2.1	0.75	2	250	200	400	500	800	55
BVL-150 (F)	32	50	CARTRIDGE	2.1	0.75	6	385	200	400	500	800	58
BVL-250 (F)	32	50	CARTRIDGE	2.1	0.75	15	490	320	400	500	800	60
BVL-350 (F)	38	50	CARTRIDGE	3.0	1.3	15	490	320	400	500	800	65
BVL-450 (F)	38	50	CARTRIDGE	3.9	1.75	15	490	320	420	500	850	75
BVL-725 (F)	50	50	CARTRIDGE	8.2	4.0	30	700	320	500	500	940	95

*: Compressed Air required for Ratio loading.

UNIT LAYOUT



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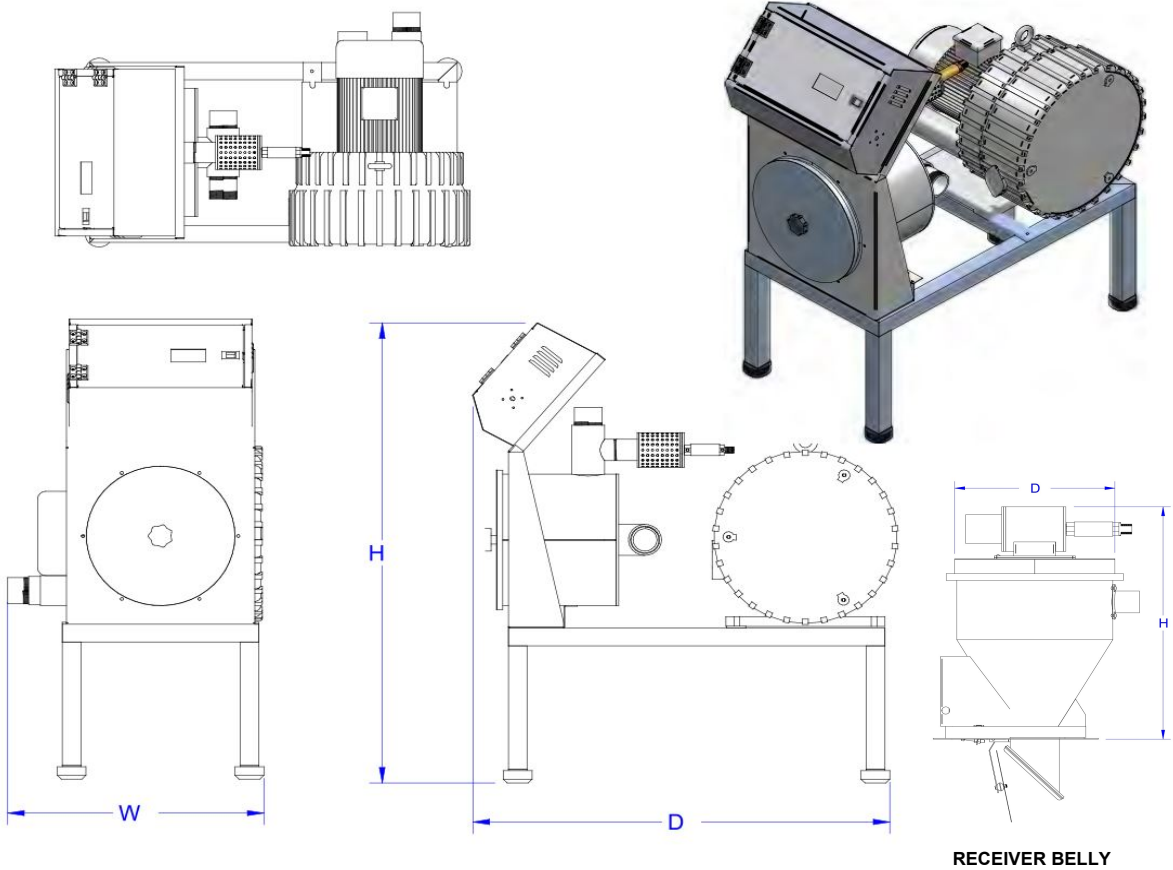


SPECIFICATION SHEET FOR BVL -1000 TO 2000 (F) LOADERS

MODEL	CONVEYING LINE SIZE DIA IN MM	VACUUM LINE SIZE DIA IN MM	FILTER TYPE	FULL LOAD AMP. 415/3/50	MOTOR KW	RECEIVER BELLY DIMENSION IN MM			TROLLY DIMENSION IN MM			APPROX. SHIPPING WEIGHT IN MM
						LTR	H	D	W	D	H	
BVL-1000 (F)	50	63.5	CARTRIDGE	8.0	4.0	30	695	320	680	1130	1290	140
BVL-1500 (F)	50	63.5	CARTRIDGE	12.0	5.5	60	1185	320	680	1130	1290	155
BVL-2000 (F)	63.5	63.5	CARTRIDGE	15.6	7.5	60	1185	320	680	1130	1290	190

Note: Compressed Air required for material loading.

UNIT LAYOUT



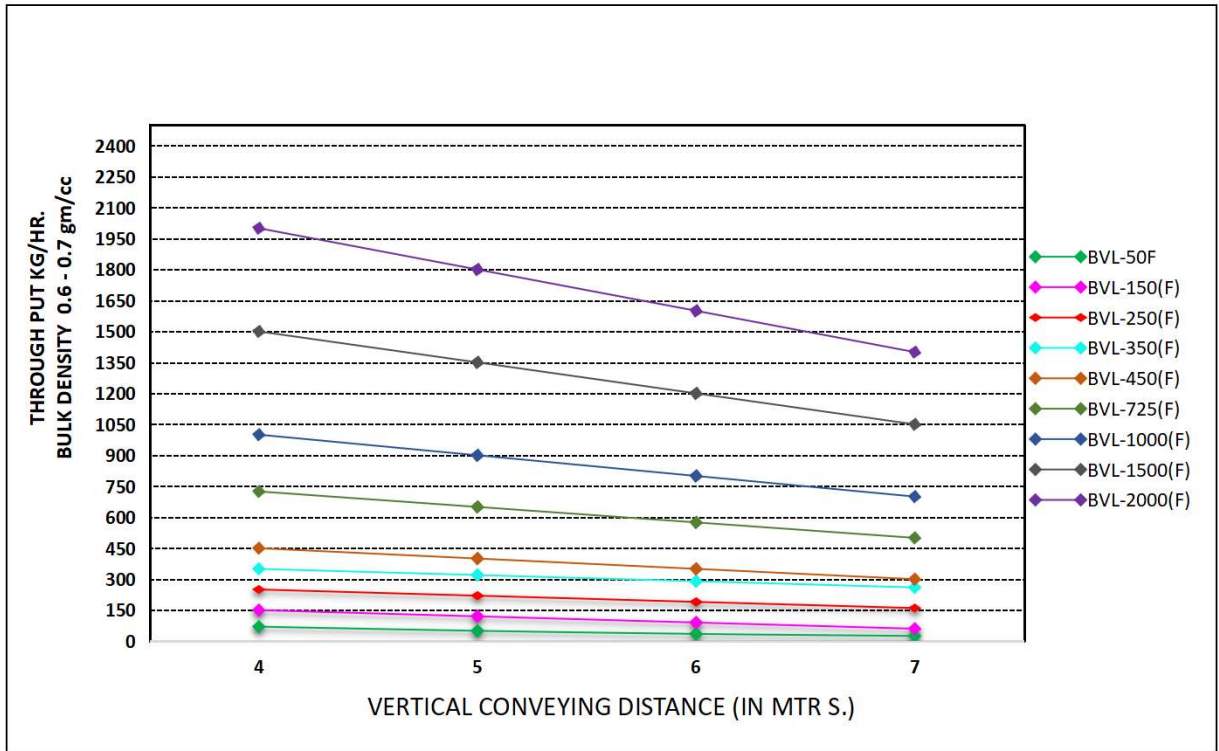
RECEIVER BELLY

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PERFORMANCE CURVE



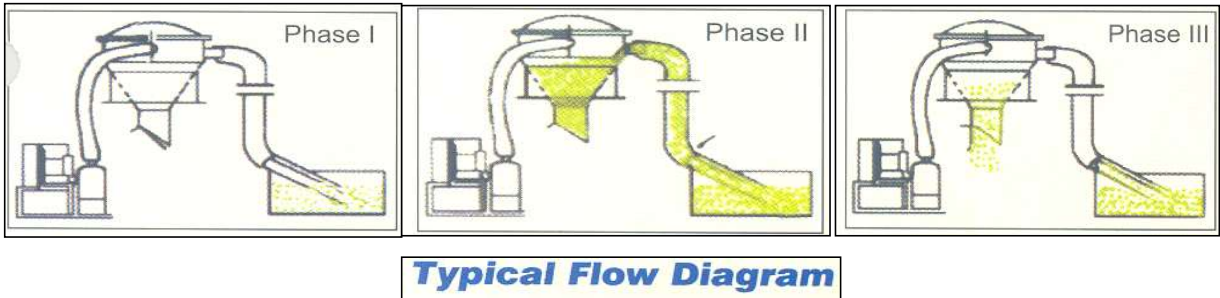
OPTION AVAILABILITY

DESCRIPTION	AVAILABILITY									
	BVL-50 (F)	BVL-150 (F)	BVL-250 (F)	BVL-350 (F)	BVL-450 (F)	BVL-725 (F)	BVL-1000 (F)	BVL-1500 (F)	BVL-2000 (F)	
MEGNETIC GRILL										
M/C HOPPER 6 & 15LTR CRC/SS	←			AVAILABLE	→					
M/C HOPPER CRC INSULATED										
CYCLONE SEPERATOR	←			AVAILABLE	→					
PU HOSE FOR HOT CONVEYING										
* P-VALVE FOR RATIO LOADING	←			AVAILABLE	→					
FILTER ON SUCTION PROBE										
TOWER LIGHT FOR FAULT	←			AVAILABLE	→					
JIT RECEIVER										

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WORKING PRINCIPLE:



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 10-12 seconds delay after which the pump starts.

Phase - II The vortex pump exhausts air from the receiver creating a vacuum. Due to the vacuum, material from the bin rises via the flexible pipe connecting the receiver to the material suction probe (the probe remains partly submerged in the bin containing resins/material). An efficient filter between the receiver and the blower filter the air to remove 'fines' and dust of the resin. The loading time is controlled by the PLC controller on the panel.

Phase- III (At the present time, the vortex blower stops beginning of phase -III). The material is unloaded from the receiver into the hopper via a flapper gate which opens under the weight of the material. Once the material is unloaded into the hopper and receiver is empty, the flapper gate closes and the cycle of suction of the material from the bin restarts again with 10-12 seconds delay (phase-1).

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