

Powder Hopper Loader

Designed to convey free-flowing and non-free-flowing powders.

Comet's CAL-UGP series single vacuum powder loader offers quiet, efficient operation, heavy-duty construction, and a stainless steel hopper receiver to eliminate material contamination. It is designed to convey a mixture of plastic granules and powder, or only powder, using a motor-generated vacuum that forms a pressure gap within the hopper. It is ideally suited for 30% and 100% powder loading.

A high pressure blower is the core of the machine while a double-stage blower is available as an option. Different ranges of hoppers are available depending on your output capacity requirements.

Standard Features

- Contamination-free stainless steel hopper receiver eliminates material contamination.
- Based on your requirements, there are two types of filters available; **bag for 30%** powder conveying or **plate for 100%** powder conveying.
- LCD display and microprocessor controller for easy operation.
- Dust collection chamber has a cyclone dust separator and dust collection bin to reduce the load on the filter and ensure convenient cleaning.
- Central filter for the hopper is equipped with an air accumulator and self-cleaning device for maximum filter cleaning.
- Equipped with an audible and visual alarm.
- The main unit works with a single- or a double-stage blower (3HP and above).
- Vacuum breaking valve to protect blower.
- In case of power failure, data stored on EPROM does not require a backup battery.
- Equipped with RS485 communication interface.

Options

- Set regrind mix ratio function via an optional Comet CPV-U and shut-off box.
- When conveying very dusty material, the main unit can be equipped with an air accumulator for auto purging to reduce maintenance to reduce dust and fines.
- Double-stage blower.
- Heat-insulated hopper and material pipe.
- Cyclone dust separator for CAL-2HP-UGP.



CAL-5HP-UGP
(Main Unit)



Plate Filter



Bag Filter

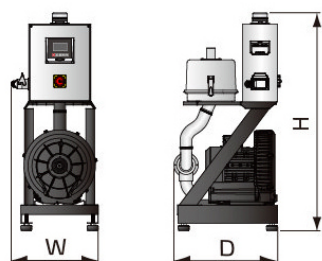


CHR-P-60U

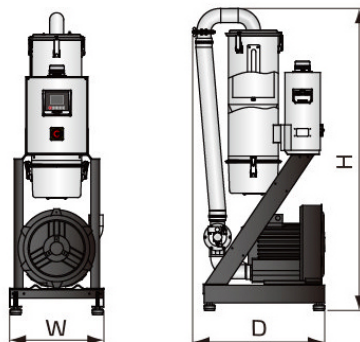


**Storage
Collection
Hopper**

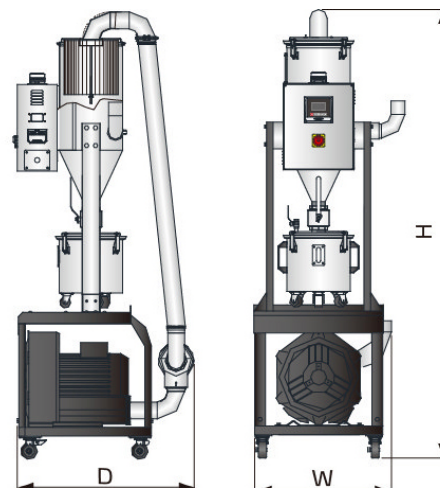
CAL-UGP Dimensional Specifications



CAL-UGP (1~3HP)
(Main Unit)



CAL-5HP-UGP
(Main Unit)



CAL-10HP-UGP
(Main Unit)

Specifications with Bag Filter

(with cloth filter – conveying materials containing 30% powder)

MAIN UNIT				POWDER RECEIVER								Cloth Filter Qty.
Model	Motor Power (kW) 50/60Hz	Dimensions H x W x D		Applicable Model	Material & Vacuum Pipe Dia. (inch)	Hopper Capacity		Hopper Dia.		Conveying Capacity		
		mm	inch			L	Gal	mm	inch	kg/hr	lbs/hr	
CAL-1HP-UGP	.75 / .85	1000 x 400 x 500	39 x 16 x 20	CHR-P-12U	1.5	12	3	φ270	φ10.6	300	661	3
CAL-2HP-UGP	1.5 / 1.8	1000 x 400 x 500	39 x 16 x 20	CHR-P-30U		30	8	φ380	φ15	400	882	7
CAL-3HP-UGP	1.85 / 2.0	1000 x 400 x 500	39 x 16 x 20	CHR-P-60U	2	60	16	φ440	φ17.3	650	1433	10
CAL-5HP-UGP	3.75 / 4.2	1380 x 470 x 600	54 x 19 x 23							1200	2646	
CAL-5HP-UGP-D	3.4 / 4.2	1380 x 670 x 600	54 x 26 x 23							1350	2976	
CAL-10HP-UG	7.5 / 8.6	2015 x 620 x 795	79 x 24 x 31	CHR-P-90U	2.5	90	24	φ550	φ21.7	2000	4409	19
CAL-10HP-UG-D		2015 x 790 x 795	79 x 31 x 31									

We reserve the right to change specifications without prior notice.

Specifications with Bag Filter

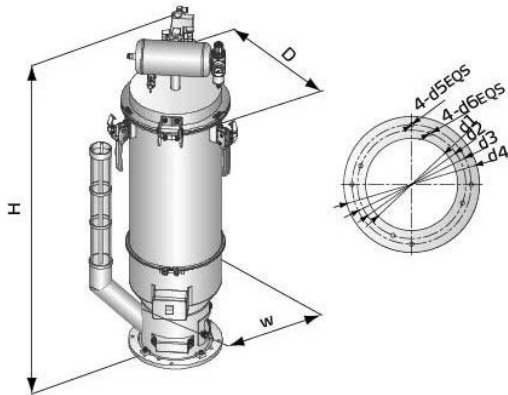
(with plate filter – conveying materials containing 100% powder)

MAIN UNIT				POWDER RECEIVER								Plate Filter Qty.
Model	Motor Power (kW) 50/60Hz	Dimensions H x W x D		Applicable Model	Material & Vacuum Pipe Dia. (inch)	Hopper Capacity		Hopper Dia.		Conveying Capacity		
		mm	inch			L	Gal	mm	inch	kg/hr	lbs/hr	
CAL-1HP-UGP	.75 / .85	1000 x 400 x 500	39 x 16 x 20	CHR-P-30U-1	1.5	12	3	φ270	φ11	300	661	1
CAL-2HP-UGP	1.5 / 1.8	1000 x 400 x 500	39 x 16 x 20	CHR-P-30U-2		30	8	φ380	φ15	400	882	2
CAL-3HP-UGP	1.85 / 2.0	1000 x 400 x 500	39 x 16 x 20	CHR-P-60U-3	2	60	16	φ440	φ17	650	1433	3
CAL-5HP-UGP	3.75 / 4.2	1380 x 470 x 600	54 x 19 x 23							1200	2646	
CAL-5HP-UGP-D		1380 x 670 x 600	54 x 26 x 23							1350	2976	
CAL-10HP-UG	7.5 / 8.6	2015 x 620 x 795	79 x 24 x 31	CHR-P-90U-5	2.5	90	24	φ550	φ22	2000	4409	5
CAL-10HP-UG-D		2015 x 790 x 795	79 x 31 x 31									

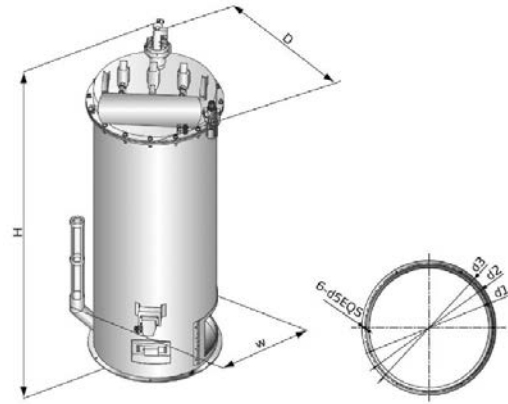
Notes: 1. Conveying capacity test condition:
Using dry powder plastic material
without viscosity: 5.5lb/gal (0.6kg/L)
Vertical conveying height: 13.1 ft. (4m)
Horizontal conveying distance: 16.4 ft. (5m)
2. Power supply: 3Ø, 230/400/460/575V, 50/60Hz

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Installation Dimensions of Powder Receiver



CHR-P-12U
(Powder Receiver)



CHR-P-30U ~ CHR-P-90U
(Powder Receiver)

5		SHR-P-12U	SHR-P-30U	SHR-P-30U-1	SHR-P-30U-2	SHR-P-60U	SHR-P-60U-3	SHR-P-90U	SHR-P-90U-5
Capacity	L	12	30	30	30	60	60	90	90
H	inch	37	52	52	52	59	59	65	65
	mm	940	1325	1325	1325	1500	1500	1640	1640
W	inch	21	29	29	29	31	31	31	31
	mm	535	730	730	730	780	780	780	780
D	inch	15	19	19	19	20	20	25	25
	mm	380	470	470	470	500	500	635	635
d1	inch	Φ8	Φ15	Φ15	Φ15	Φ17	Φ17	Φ22	Φ22
	mm	Φ197	Φ383	Φ383	Φ383	Φ440	Φ440	Φ550	Φ550
d2	inch	Φ9	Φ16	Φ16	Φ16	Φ19	Φ19	Φ23	Φ23
	mm	Φ231.5	Φ413	Φ413	Φ413	Φ475	Φ475	Φ583	Φ583
d3	inch	Φ10	Φ17	Φ17	Φ17	Φ19	Φ19	Φ24	Φ24
	mm	Φ254.6	Φ430	Φ430	Φ430	Φ490	Φ490	Φ600	Φ600
d4	inch	Φ11	—	—	—	—	—	—	—
	mm	Φ271	—	—	—	—	—	—	—
d5	inch	Φ0.35	Φ0.3	Φ0.3	Φ0.3	Φ0.3	Φ0.3	Φ0.4	Φ0.4
	mm	Φ9	Φ7	Φ7	Φ7	Φ7	Φ7	Φ9	Φ9
d6	inch	Φ0.35	—	—	—	—	—	—	—
	mm	Φ9	—	—	—	—	—	—	—
d7	inch	—	Φ4	Φ4	Φ4	Φ5	Φ5	Φ6	Φ6
	mm	—	Φ100	Φ100	Φ100	Φ127	Φ127	Φ152.4	Φ152.4
d8	inch	—	Φ0.4	Φ0.4	Φ0.4	Φ0.4	Φ0.4	Φ0.4	Φ0.4
	mm	—	Φ11	Φ11	Φ11	Φ11	Φ11	Φ11	Φ11