

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.
- 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 error alarm light.
- 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.

Options

- Set regrind mix ratio function via an optional Comet CPV-U.
- Main unit can be equipped with air accumulator auto washing unit to reduce material contamination.
- Heat-insulated hopper.
- Heat-resistant material pipe.
- Cyclone dust separator for CAL-2HP-UGP.
- Buzzer alarm.



CAL-5HP-UGP
(Main Unit)



Plate Filter



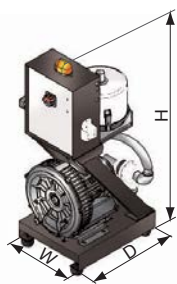
Bag Filter



CHR-P-60U



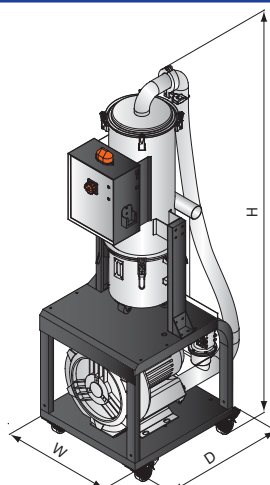
**Storage
Collection
Hopper**



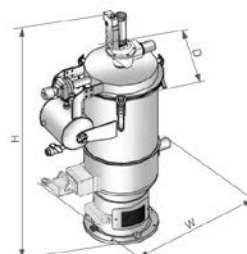
CAL-UGP (1~3HP)
(Main Unit)



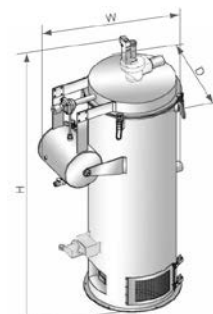
CAL-5HP-UGP
(Main Unit)



CAL-10HP-UGP
(Main Unit)



CHR-P-12U
(Powder Receiver)



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

Specifications with Bag Filter

(conveying materials containing 30% powder)

| Model | Motor Power (kW) 50/60Hz | Specifi- cation | MAIN UNIT | | | | POWDER RECEIVER | | | | | | | | | Filter Cloth Qty. |
|---------------|--------------------------------|--------------------|-------------------------|----------------|--------|-----|------------------|-----------------|------|-------------------------|----------------|-------------|-------|--------------------|--------|-------------------|
| | | | Dimensions H x W x D | | Weight | | Applicable Model | Hopper Capacity | | Dimensions H x W x D | | Hopper Dia. | | Conveying Capacity | | |
| | | | mm | inch | kg | lb | | L | Gal | mm | inch | mm | inch | kg/hr | lbs/hr | |
| CAL-1HP-UGP | .75 / .85 | 3φ | 1000x400x500 | 39.4x15.7x19.7 | 50 | 110 | CHR-P-12U | 12 | 3.2 | 940x535x380 | 76.4x21x15 | φ270 | φ10.6 | 300 | 661 | 3 |
| CAL-2HP-UGP | 1.5 / 1.8 | | 1000x400x500 | 39.4x15.7x19.7 | 54 | 119 | CHR-P-30U | 30 | 8 | 1325x730x470 | 52.2x28.7x18.5 | φ380 | φ15 | 400 | 882 | 7 |
| CAL-3HP-UGP | 1.85 / 2.0 | | 1000x400x500 | 39.4x15.7x19.7 | 60 | 132 | CHR-P-60U | 60 | 15.9 | 1500x780x500 | 59x30.7x19.7 | φ440 | φ17.3 | 650 | 1433 | 10 |
| CAL-5HP-UGP | 3.75 / 4.2 | | 1380x490x590 | 54.3x19.3x23.2 | 74 | 163 | | | | | | | | 1200 | 2646 | |
| CAL-5HP-UGP-D | | | 1380x690x590 | 54.3x27x23.2 | 76 | 168 | | | | | | | | | | |
| CAL-10HP-UG | 7.5 / 8.6 | | 1830x585x675 | 72x23x26.6 | 160 | 353 | CHR-P-90U | 90 | 23.8 | 1640x890x635 | 64.5x35x25 | φ550 | φ21.7 | 2000 | 4409 | 19 |
| CAL-10HP-UG-D | | | 1830x740x675 | 72x29x26.6 | 162 | 357 | | | | | | | | | | |

We reserve the right to change specifications without prior notice.

Specifications with Plate Filter

(conveying materials containing 100% powder)

| Model | Motor Power (kW) 50/60Hz | Specifi- cation | MAIN UNIT | | | | POWDER RECEIVER | | | | | | | | Filter Cloth Qty. | |
|---------------|--------------------------------|--------------------|-------------------------|----------------|--------|-----|------------------|-----------------|------|-------------------------|----------------|-------------|-------|--------------------|-------------------|--------|
| | | | Dimensions H x W x D | | Weight | | Applicable Model | Hopper Capacity | | Dimensions H x W x D | | Hopper Dia. | | Conveying Capacity | | |
| | | | mm | inch | kg | lb | | L | Gal | mm | inch | mm | inch | kg/hr | | lbs/hr |
| CAL-1HP-UGP | .75 / .85 | 3φ | 1000x400x500 | 39.4x15.7x19.7 | 50 | 110 | CHR-P-30U-1 | 30 | 7.9 | 1325x730x470 | 52.2x28.7x18.5 | φ270 | φ10.6 | 300 | 661 | 1 |
| CAL-2HP-UGP | 1.5 / 1.8 | | 1000x400x500 | 39.4x15.7x19.7 | 54 | 119 | CHR-P-30U-2 | 30 | 7.9 | | | φ380 | φ15 | 400 | 882 | 2 |
| CAL-3HP-UGP | 1.85 / 2.0 | | 1000x400x500 | 39.4x15.7x19.7 | 60 | 132 | CHR-P-60U-3 | 60 | 15.9 | 1500x780x500 | 59x30.7x19.7 | φ440 | φ17.3 | 650 | 1433 | 3 |
| CAL-5HP-UGP | 3.75 / 4.2 | | 1380x490x570 | 54.3x19.3x22.4 | 74 | 163 | | | | | | | | 1200 | 2646 | |
| CAL-5HP-UGP-D | | | 1380x690x570 | 54.3x27x22.4 | 76 | 168 | | | | | | | | | | |
| CAL-10HP-UG | 7.5 / 8.6 | | 1830x585x675 | 72x23x26.6 | 160 | 353 | CHR-P-90U-5 | 90 | 23.8 | 1640x890x635 | 64.5x35x25 | φ550 | φ21.7 | 2000 | 4409 | 5 |
| CAL-10HP-UG-D | | | 1830x740x675 | 72x29x26.6 | 162 | 357 | | | | | | | | | | |

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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