



## Chip Vac



# Chip Vac™

QUIET only 77 dBA

## Vacuums chips directly into an open-top drum with no moving parts!

### What Is The Chip Vac?

EXAIR's Chip Vac picks up dry or wet chips and delivers them directly to an ordinary open-top drum. The Chip Vac is used to clean chips from fixtures, floors and work surfaces of machining centers, lathes, saws, mills and other industrial equipment. The powerful suction is ideal for fast and efficient cleaning.

EXAIR's Mini Chip Vac System delivers the same cleaning power for small jobs. It comes complete with a 5 gallon drum and all the tools.



### Why The Chip Vac?

The compressed air operated Chip Vac is an industrial duty vacuum designed specifically for vacuuming chips. It creates a powerful direct flow action that vacuums metal, wood or plastic chips into an ordinary drum. Designed for occasional use with dusty materials, the included filter bag keeps the surrounding air clean.



The Chip Vac removes abrasive stainless steel chips from a CNC.

Electrically operated "all purpose" vacuums aren't designed for use in industrial environments. As a result, motors wear out quickly and impellers clog. The Chip Vac has no moving parts to wear out or break which ensures long life. Sound level is half that of electric vacs.

The Chip Vac Systems include a drum lid with a locking ring that fits an open top drum. In less than a minute, the Chip Vac can be removed and easily placed onto another drum to keep different materials separate for recycling. Constant heavy lifting and dumping of the vacuum cleaner tanks is eliminated since all chips are vacuumed directly into the drum.



110 Gallon Chip Vac offers maximum capacity cleanup on a large machining operation.

### Applications

- CNC's
- Lathes
- Saws
- Mills
- Drills
- Grinders
- Routers
- Molding machines
- Absorbent pick-up

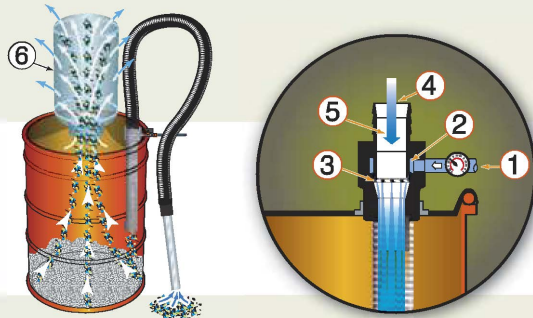
### Advantages

- No moving parts
- Low cost
- No motors to clog or wear out
- No electricity
- Chips go directly into a drum
- Powerful direct flow action
- Includes accessories
- 50% quieter than electric vacs



The Mini Chip Vac allows for easy clean up of small messes.

### How The Chip Vac Works



Compressed air, normally 80-100 PSIG (5.5 - 6.9 BAR), flows through the inlet (1) into an annular plenum chamber (2). It is then injected into the throat through directed nozzles (3). These jets of air create a vacuum at the intake (4) which draws material in, accelerates it through the unit (5), and directs it to the bottom of the drum. The airflow exhausts through the port in the drum lid. Airborne particles are trapped by the filter bag (6).

The Chip Vac System can be used with an open head steel, fiber or plastic drum that is in good condition (ANSI Standard #MH2-2004). To prevent material contamination, a poly drum liner can be inserted into the drum.

**Warning:** Do not use with combustible dust.



Deluxe and Premium Chip Vac Systems include a drum dolly.

### Chip Vac System Specifications

| Size                | Pressure Supply |     | Air Consumption |       | INLET   | Sound Level |
|---------------------|-----------------|-----|-----------------|-------|---------|-------------|
|                     | PSIG            | BAR | SCFM            | SLPM  |         |             |
| 110, 55 & 30 Gallon | 80              | 5.5 | 40              | 1,132 | 3/8 NPT | 77 dBA      |
| 5 Gallon            | 80              | 5.5 | 33              | 934   | 3/8 NPT |             |

Air consumption has been minimized by using the appropriate amount of air required for vacuuming chips.



The Model 6193 Chip Vac System includes a vacuum hose, chip wand and plastic tools.



The Model 6193-5 Mini Chip Vac System includes a vacuum hose, 5 gallon drum, chip wand and plastic tools.



Premium Chip Vac Systems include the drum, drum dolly, an upgrade to static resistant hose, heavy duty aluminum tools, tool holder, air hose and quick connects fittings. (Model 6393 shown.)

### Chip Vac Systems

| Model #  | Description  |
|----------|--|
| 6193     | 55 Gallon Chip Vac System includes the Chip Vac, lever lock drum lid, shutoff valve, filter bag, 10' (3m) flexible vacuum hose (1-1/2"/38mm I.D.), chip wand, (2) extension wands, crevice tool, brush, skimmer and floortool (drum not included).                             |
| 6193-30  | 30 Gallon Chip Vac System - same as Model 6193 except fits a 30 gallon drum (drum not included).   |
| 6193-5   | 5 Gallon Mini Chip Vac System - includes the Chip Vac (3/8 NPT), shutoff valve, filter bag, 5 gallon container with lid and lock ring, 10' (3m) flexible vacuum hose (1-1/2"/38mm I.D.), aluminum chip wand, (2) extension wands, crevice tool, brush, skimmer and floor tool. |
| 6293     | 55 Gallon Deluxe Chip Vac System - same as Model 6193 and adds drum dolly and tool holder (drum not included).   |
| 6293-30  | 30 Gallon Deluxe Chip Vac System - same as Model 6293 except fits 30 gallon drum (drum not included).  |
| 6293-5   | 5 Gallon Deluxe Chip Vac System - same as Model 6193-5 and adds drum dolly.  |
| 6393     | 55 Gallon Premium Chip Vac System - same as Model 6193 and adds a 55 gallon drum, drum dolly, an upgrade to static resistant hose, an upgrade to heavy duty aluminum tools, 20' (6.1m) air hose, tool holder and quick connects fittings.                                      |
| 6393-30  | 30 Gallon Premium Chip Vac System - same as Model 6393 except includes 30 gallon drum.   |
| 6393-110 | 110 Gallon Premium Chip Vac System - same as Model 6393 except includes a 110 gallon drum.   |
| 6093     | Chip Vac Only - included in all 30 gallon through 110 gallon systems listed above.   |
| 6093-5   | Mini Chip Vac Only - included with 6193-5 and 6293-5 5 gallon systems.   |

### Accessories

| Model # | Description  | Model #  | Description           |
|---------|--|----------|-----------------------|
| 6804    | Replacement Filter Bag                               | 9041-5   | 5 Gallon Drum Dolly   |
| 901176  | Tool Holder  | 9041-30  | 30 Gallon Drum Dolly  |
| 901071  | Heavy Duty Aluminum Tools plus Tool Holder           | 9041     | 55 Gallon Drum Dolly  |
| 6569-20 | 20' (6.1m) Flexible Vacuum Hose (1-1/2" / 38mm I.D.) | 9041-110 | 110 Gallon Drum Dolly |



## Heavy Duty Dry Vac



# Heavy Duty Dry Vac™

QUIET, only **82** dBA

**Vacuum more material in less time!**

**Industrial duty vacuum has a rugged construction to resist wear!**

### What Is The Heavy Duty Dry Vac?

EXAIR's Heavy Duty Dry Vac attaches to an ordinary 30, 55 or 110 gallon open-top drum to turn it into a powerful, industrial duty vacuum cleaner. The Heavy Duty Dry Vac has been engineered to vacuum more dry materials in less time with less wear.

Designed for tough industrial environments, the hardened alloy construction resists premature wear while the increased power handles difficult jobs and harsh conditions. The quiet operation makes it suitable for a wide variety of applications including the clean up of abrasive materials like steel shot, garnet, metal chips and sand while also useful for general purpose applications like vacuuming floors, machines, work stations, industrial machinery and equipment.

### Why The Heavy Duty Dry Vac?

Electrically operated vacuums have motors and impellers that clog and wear out quickly. There's also a potential shock hazard when electric vacs are used in standing liquids. The Heavy Duty Dry Vac is compressed air powered which eliminates the shock hazard. It has no moving parts to wear out or break, to assure long life. It is quiet with a sound level that is half that of electric vacs. A static resistant hose prevents painful shocks when vacuuming dry materials.



The Heavy Duty Dry Vac cleans up a spill of tumbling media.



110 Gallon Heavy Duty Dry Vac provides maximum capacity cleanup for a large, dusty walnut shell blasting application.



Sand that covers the floor around a sand blaster is quickly vacuumed into the drum using the rugged floor tool.

#### Vacuuming Rate Comparison

|                          | 1/4 NPT Pipe Plugs<br>bulk density is<br>250 lb/ft <sup>3</sup> (4005 kg/m <sup>3</sup> ) | Plastic Pellets<br>(tumbling media)<br>bulk density is<br>69.3 lb/ft <sup>3</sup> (1110 kg/m <sup>3</sup> ) | Steel Shot<br>(blasting media)<br>bulk density is<br>317.7 lb/ft <sup>3</sup> (5089 kg/m <sup>3</sup> ) |
|--------------------------|---|---|---|
| <b>Standard Chip Vac</b> | 11.1 lbs/min (5 kg/min)   | 27.4 lbs/min (12.4 kg/min)  | 13 lbs/min (5.9 kg/min)   |
| <b>HD Dry Vac</b>        | 26.9 lbs/min (12.2 kg/min)  | 51.6 lbs/min (23.4 kg/min)  | 32 lbs/min (14.5 kg/min)  |
| <b>% Increase</b>        | 142%  | 88%   | 146%  |

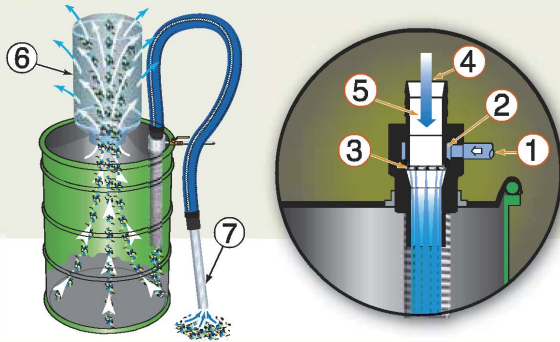
#### Applications

- Work surfaces
- Abrasive tumbling media
- Industrial machinery
- Shop floors
- Sand blasting equipment
- Grinders
- Punch presses
- Absorbent pick-up
- Building maintenance/remodeling
- Saws
- Gravel

#### Advantages

- Moves more material in less time
- Hardened construction resists wear
- No moving parts - maintenance free
- No motors to clog or wear out
- No electricity
- Continuous duty with high capacity
- Static resistant hose
- Quiet
- Powerful direct flow action
- Heavy duty accessories

## How The Heavy Duty Dry Vac Works



Compressed air, normally 80-100 PSIG (5.5 - 6.9 BAR), flows through the inlet (1) into an annular plenum chamber (2). It is then injected into the throat through directed nozzles (3). These jets of air create a vacuum at the intake (4) which draws material in, accelerates it through the unit (5), and directs it to the bottom of the drum. The airflow exhausts through the port in the drum lid. Airborne particles are trapped by the filter bag (6). The Heavy Duty Dry Vac unit (5) and vacuum tools (7) are built to withstand rugged use.

The Heavy Duty Dry Vac's lever lock drum lid fits any open top drum. Moving it from one drum to another can be done quickly, making it easy to keep different materials separate for recycling. All materials are vacuumed directly into the drum, eliminating the heavy lifting that is common with electrically powered vacuums. The Heavy Duty Dry Vac can be used with an open head steel, fiber or plastic drum that is in good condition (ANSI Standard #MH2-2004). To prevent material contamination, a poly drum liner can be inserted into the drum.

**Warning:** Do not use with combustible dust.

## Heavy Duty Dry Vac System Specifications

| Model | Pressure Supply |     | Air Consumption |       | INLET   | Sound Level |
|-------|-----------------|-----|-----------------|-------|---------|-------------|
|       | PSIG            | BAR | SCFM            | SLPM  |         |             |
| ALL   | 80              | 5.5 | 68              | 1,924 | 3/8 NPT | 82 dBA      |



The Model 6197 Heavy Duty Dry Vac System includes 10' (3m) static resistant hose, 20' (6.1m) compressed air hose, filter bag, aluminum chip wand, shutoff valve and gauge.



The Model 6297 Deluxe Heavy Duty Dry Vac System comes complete with a 10' (3m) static resistant hose, 20' (6.1m) compressed air hose, filter bag, shutoff valve, gauge, heavy duty tools, tool holder and drum dolly.

Premium Heavy Duty Dry Vac Systems are the same as Model 6297 and add either a 30, 55 or 110 gallon drum.

### Heavy Duty Dry Vac Systems

| Model #  | Description  |
|----------|--|
| 6197     | 55 Gallon Heavy Duty Dry Vac System includes the Heavy Duty Dry Vac, lever lock drum lid, shutoff valve, filter bag, 10' (3m) polyethylene static resistant hose (1-1/2"/38mm I.D.), hose hanger, 1/2 NPT quick connect couplings, 20' (6.1m) air hose with swivel fitting, pressure gauge, and aluminum chip wand (drum not included).  |
| 6197-30  | 30 Gallon Heavy Duty Dry Vac System - same as the Model 6197 excepts fits a 30 gallon drum (drum not included).  |
| 6297     | 55 Gallon Deluxe Heavy Duty Dry Vac System- same as Model 6197 plus drum dolly and heavy duty aluminium tools. Additional tools include 2 piece double bend wand, 12" (305mm) floor tool, 11" (279mm) crevice tool, 24" (610mm) crevice tool, skimmer tool with detachable brush, tool holder, and a 3-1/2" (89mm) diameter dust brush with conductive bristles (drum not included). |
| 6297-30  | 30 Gallon Deluxe Heavy Duty Dry Vac System - same as the Model 6297 except fits a 30 gallon drum (drum not included).  |
| 6397     | 55 Gallon Premium Heavy Duty Dry Vac System - same as the Model 6297 and adds a 55 gallon drum.  |
| 6397-30  | 30 Gallon Premium Heavy Duty Dry Vac System - same as the Model 6397 except includes a 30 gallon drum.   |
| 6397-110 | 110 Gallon Premium Heavy Duty Dry Vac System - same as the Model 6397 except includes a 110 gallon drum.   |
| 6097     | Heavy Duty Dry Vac only - included in all systems listed above.  |

### Accessories

| Model # | Description                                | Model #    | Description           |
|---------|--|------------|-----------------------|
| 6804    | Replacement Filter Bag                     | 9041-30    | 30 Gallon Drum Dolly  |
| 901176  | Tool Holder                                | 9041-110   | 110 Gallon Drum Dolly |
| 901071  | Heavy Duty Aluminum Tools plus Tool Holder | 901069     | 55 Gallon Drum Only   |
| 6580-20 | 20' (6.1m) Static Resistant Vacuum Hose    | 901069-30  | 30 Gallon Drum Only   |
| 9041    | 55 Gallon Drum Dolly                       | 901069-110 | 110 Gallon Drum Only  |