Industrial Vacuum Cleaners (Class H for Dust)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Extraction & Ventilation

Photo: Photo: User:FA2010 — Public domain — via Wikimedia Commons (Electrolux_vacuum_cleaner_Model_30_DMA.jpg)

Class H industrial vacuums meet the highest dust-class filtration standard (H) for hazardous dusts like silica, wood dust and particles from machining, with HEPA filters that contain the dangerous fine fraction. They are the safe choice for cleaning up after cutting and sanding of hazardous materials.

Key Features

- HEPA H13 or H14 filtration
- Class H marked with containment certification
- High suction motors for fine dust
- Antistatic and explosion-protected versions
- Large capacities with tool ports

Typical Uses in the Workshop

- Vacuum fine and hazardous workshop dusts
- Clean CNC, laser and sanding stations
- Comply with dust exposure regulations
- Contain dust from breakout and cutting work

Safe Operation

1. Check the filters and seals before use
2. Use the correct hose and tool port
3. Vacuum steadily and empty the bag carefully
4. Seal full bags before removal
5. Clean the filter after heavy use

SAFETY NOTES

- Class H is required for hazardous dusts
- Wear a mask when emptying the vacuum
- Do not vacuum hot ash or liquids unless rated
- Change filters with the machine off
- Dispose of hazardous dust bags correctly

Maintenance & Consumables

- Check and replace HEPA filters on schedule
- Inspect hose and seals for leaks
- Clean the motor filter
- Check the antistatic continuity
- Log the filter changes

Specification & Buying Notes

Buy a certified Class H vacuum for the machine areas generating fine dust. Match hose size to the tool ports. Extra filters and bag stock are key consumables to budget.