COMPEL RAIL a.s.

Nákladné nádražie
036 08 Martin 8
Slovakia

# Stationary Vacuum Units

Stationary Vacuum Units (SVU) **Compel Vac XXX SE (SD)** are designed for working on high vacuum, which is created by vacuum pump. Suctioned material goes through the suction hose, central pipes to the container with cyclone (the first filtration stage). In most of the dust free air passes to the filtration module (the second filtration stage) and then through the safety filter (the third filtration stage) – the stage filtration system – at last, in such a way the cleaned air goes through the vacuum pump to atmosphere. The filters are automatically cleaning every time the relief valve opens and there is a vacuum in the tank, without action of the crew.

**Compel Vac XXX SE (SD)**

- XXX – engine power, kW
- S – stationary,
- E – electric engine
- D – diesel engine,

Vacuum Units are used for cleaning and suction of all types of dust, dirt, grain, dry or wet products and material with high volume of a precious material for next separation and treating. Compel a.s. offers complete rate of the Vacuum Units (from 22 kW to 250 kW), which are able to suck the following materials: cement, lime, asbestos, coal, sand, gravel, grain, PVC material and all types of material, which can pass through suction hose. We use the hoses type with diameter DN 100, 75, 50 MM.

Vacuum Units have all advantages of a big Vacuum Units connected with central pipeline system according the customer request and condition, so they are working as a part this central Vacuum Unit, that suck from few places in the same time and very quickly move the material at big distance (depends from power to 60 – 80 m). Unit cleans effectively the places where the access of normal used machinery is very difficult or impossible on factories or mining and metallurgical companies. The sucked material can be separated and returned into production. Vacuum Unit can be partially used as a pneumatic conveyer for cleaning and continual transporting in processing systems and storage.

Vacuum Units confirm the costs returning by a cleaning time cut-down and repeated use of material which is able for a treating. Units improve the working conditions, safety and protect the working and environment.

**The main advantage of Vacuum Units is using where the access of normal used machinery is very difficult or impossible.**

**Stationary Vacuum Units comprise following main parts:**

1. **Power Unit** consists engine (diesel or electric) that powers vacuum pump (type ROOTS). Power unit module includes valves and all necessary equipment for operation and control. Operation control of engine and vacuum pump are located in control box.

2. **Filter Unit** consists filter cartridges, safety filter of vacuum pump and equipment for liquidation of dust and dirt from the module.

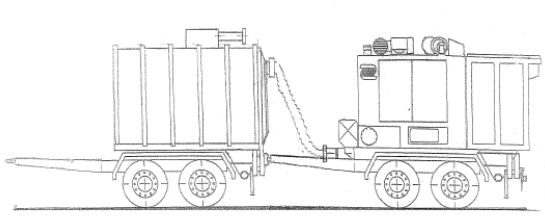
3. **Container** consists cyclone, loading area for the suctioned material and unloading equipment. The level of suctioned material in container is controlled by a level sensor that in the case of container full filling the level sensor switch off the Unit. Automatic switch off is in the cases of penetration of dust and dirt to safety filter, by exceeding of the limit temperature, ….

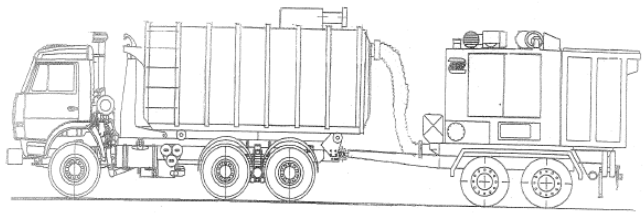
4. **Hose and pipeline system** is delivered according a customer request and depends on suction condition, suction distance and the type of material.

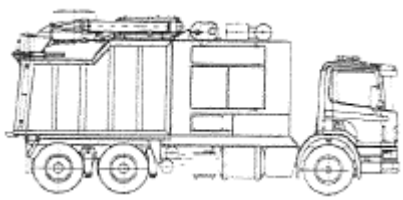
## VACUUM UNITS LIST

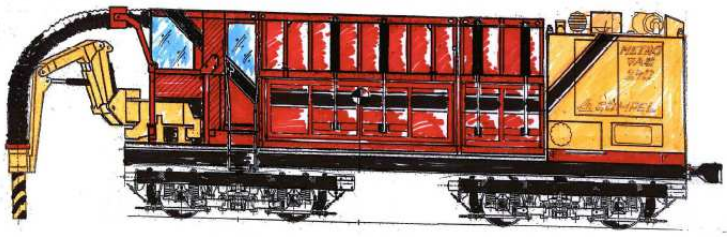
| Poz. | Description | Engine power, kW | Air flow volume, m3ph | Suction material average volume, m3ph |
|---|---|---|---|---|
| 1 | Compel Vac 22 SE | 22 | 1 032 | 1,4 – 2,1 |
| 2 | Compel Vac 37 SE | 37 | 1 644 | 2,3 – 3,4 |
| 3 | Compel Vac 55 SE | 55 | 2 436 | 3,4 – 5,1 |
| 4 | Compel Vac 75 SE | 75 | 3 684 | 5,2 – 7,8 |
| 5 | Compel Vac 132 SE | 132 | 7 680 | 10,9 – 15,7 |
| 6 | Compel Vac 75 SD | 75 | 3 684 | 5,2 – 7,8 |
| 7 | Compel Vac 132 SD | 132 | 7 680 | 10,9 – 15,7 |

**Vacuum Unit is designed modular, it means that according customer request and condition the Unit can be on one framework, on a special support framework, on a trailer, on a railway wagon or on a truck.**









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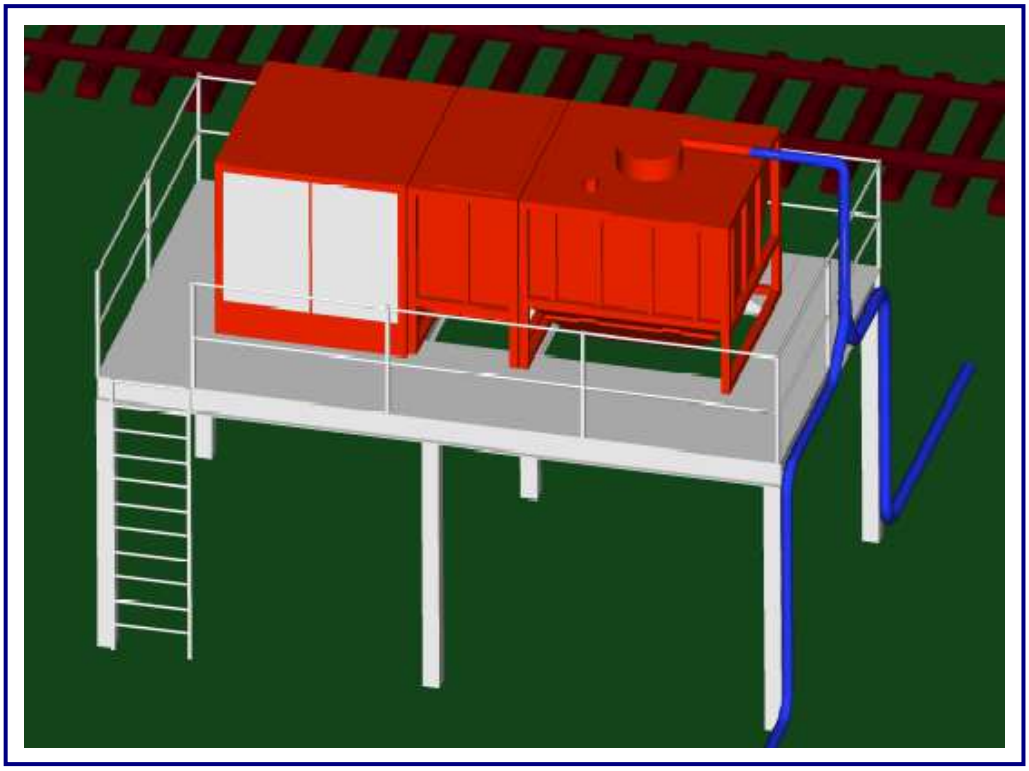
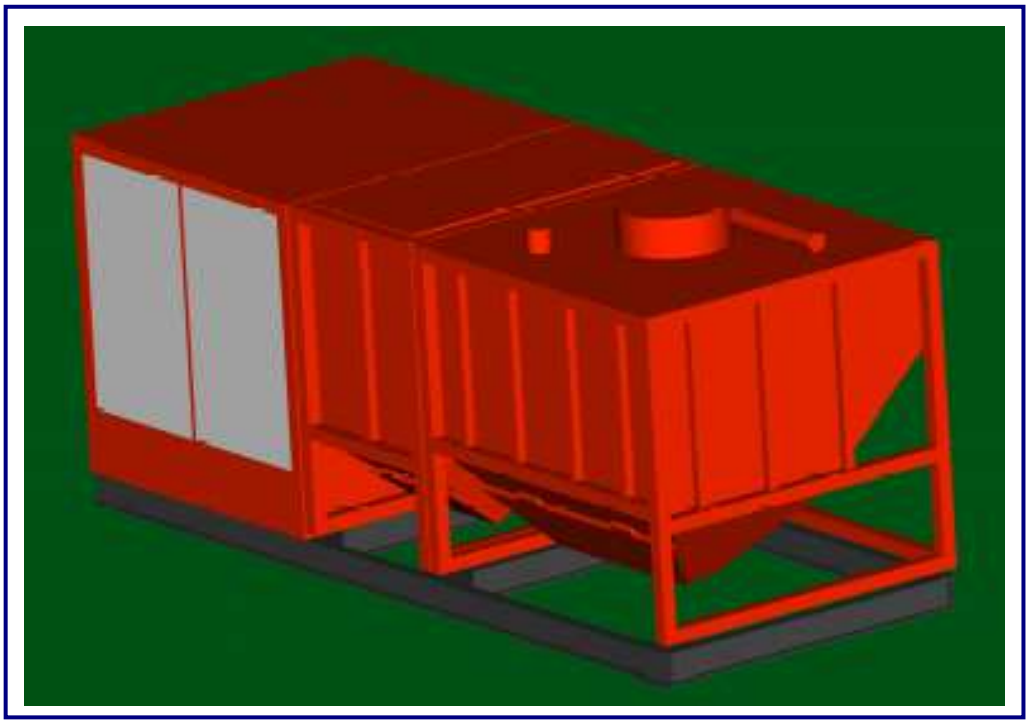
## Stationary Vacuum Unit designed on the special support framework



## Stationary Vacuum Unit designed on one framework



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