

The new EVY Compact Vacuum Cleaner

**Fresh Thinking, Smart Cleaning**





## EVY, the cleanest, the leanest, the meanest!

Hencon is continuously developing new improvements and sustainable solutions that focus on efficiency, safety, maintainability, lowering cost of ownership as well as the environmental impact of our products.

Keeping the potroom clean is a highly important, harsh job. A special vehicle is required, performing dust free with a high output. The latest development in this area is Hencon's first serial-produced, compact vacuum cleaner EVY with just one specification. The EVY guarantees the proven Hencon quality at a competitive price.

### Easy to manoeuvre

The compact size and small turning radius provides most optimal manoeuvrability and create optimal flexibility in your operations. The reach in between structural pillars goes up to 500 mm side shift right side. Performance is also optimal. When using the main nozzle, a 1600 mm strip covered with 3 mm thick layer of dry alumina will be cleaned in one go, at a drive speed of 4 km/h.

### In every way a Hencon

Based on proven designs and components, the EVY will excel in the dry, dusty and hot environment of prebaked and Söderberg potrooms. It has excellent resistance to the magnetic field and abrasive atmosphere. The lay-out and suction tools therefore, have been specially adapted for operation in the potrooms and cast houses of primary aluminium smelters. The sucking nozzle can be fully adjusted for optimal performance. The nozzle sealing flaps provide the perfect sealing, even on bad uneven floors. This technical concept assures dust-free cleaning and eliminates the use of more conventional rotating brushes (which tend to create dust clouds).

### Cleaner, healthier and environmentally friendly

EVY contributes to a cleaner, healthier and a more environmentally friendly workplace. The most challenging dust to clean is the fine dust you can barely see. But it is exactly this kind of dust that is most dangerous for human health. EVY gets the job done without leaving any harmful residue. On top of that, it cleans without creating dust clouds, and causes less emission.

Dust is collected and separated with the utmost efficiency and safety. Thanks to very fine filtration, this valuable dust is ready for re-use.

### Always in progress

Hencon is continuously developing new improvements and sustainable solutions. We focus on efficiency, safety, maintainability, lowering cost of ownership and the environmental impact. For this task we have developed a line of special and well proven vacuum machines, now expanded with the compact EVY.

### Available from stock

The EVY will only be offered as a one-model Hencon stock unit. This very complete, compact and cost-efficient package with a sophisticated selection of options can be delivered in a short term.

## Specifications

### Performance

- 10 & 4 km/h adjustable
- 10% gradient (fully loaded)
- Noise level: Inside cabin: max. 75 dB(A) according to ISO/DIN 5128
- Outside cabin: max. 80 dB(A) according to ISO 362

### Powerpack

- A-brand engine Tier 3
- Upgrade stage V possible
- Automotive RPM control for optimal fuel economy
- Engine fully protected against intruding dust

### Vacuum

- 1600 mm nozzle width
- 1.2 m<sup>3</sup> hopper capacity
- Suction working pressure: -0.3 bar
- Optimised blower capacities
- Partical size (max.): 40 mm
- Dust filter separation level 99.9% particle size 0.2-2µm
- Material allowable temperature: approx. 100 °C
- Developed for non-combustable materials
- 3 vertical placed filters
- Automated filter cleaning pulsation system, 2 filters constantly active

### Cabin

- Optimised ergonomics
- Cabin heating (Optionally)
- Filtered cabin for optimal health
- No need to leave the cabin for all vehicle operations
- One pedal drive
- Optimised visibility
- Easy three-point entry

### Electronic

- Blue spot front & rear
- Working lights on the operational area
- Full LED lighting
- Beacon light front and rear
- Audible reverse alarm
- 24 Volt system lay-out

### Drive axle

- Hydro-static drive
- Dual hydraulic motor
- Hydraulic park brake (fail-safe)

### Front axle

- Pendulum front axle
- 70 degree front steering axle for optimal manoeuvrability
- Hydraulic (orbitrol) steering
- Turning radius incl. main nozzle: ~5000mm

### Ambient conditions

- Total Particulate loading : 4.0 mg/m<sup>3</sup>
- 500 Gauss max (Magnetic strength)
- Developed for inside use
- Ambient working temperature: -10°C to 60°C
- Storage/start-up temperature: 10°C to 50°C
- Optimal performance up to 500m above sea level

### Accessories

- Rear Camera

### Maintainability optimised by

- Diagnostics screen on the Human Machine Interface in cabin
- All engine filters concentrated on one side of the machine
- Closed hydraulic system with quick connector hydr. filling point
- Fail-safe system on both the engine, compressor & vacuum system (self protective)

Hencon policy is one of continuous improvement and therefore reserves the right to change technical specifications at any time.

# Optional:

Polymer protection rollers over the total width of the main nozzle to protect the main nozzle in case of uneven floors.

Additional polymer insulation on the right side of the main nozzle.

Manual suction installation: On the front of the machine, a 3" hose point with quick-connector is installed.

Standard toolkit included in the delivery:

- 3" Suction hose. L = 5 metres
- Suction tube, aluminium, 3" connection
- Suction nozzle, aluminium, 500 mm wide, 3" connection

Cabin heating, using engine cooling water.

Windows with foil on the outside to prevent Fluor attack (no film on wiped windows).

Windows with sun reflection foil on the inside.

Window wiper, with washer, on front window.

DAB+ Radio with Bluetooth connectivity, including an antenna.

Instruction plates, in local language or symbols, to clarify operator controls.

Ventilation / filter box with additional active coal filter.

55/56 kW, 4-cylinder water-cooled diesel engine, Stage IIIA or Stage V, suiting local emission standards.

Hydraulic oil, suitable temperature range:

- Shell Tellus 46 Temperature range: -10°C (start-up) up to 75°C (max. working temperature)
- Shell Tellus 68 Temperature range: -5°C (start-up) up to 85°C (max. working temperature)

Connector, 12VDC/6A, cigarette lighter plug in arm rest for auxiliary equipment such as tablet/phone charger or CB-radio.

All-round visibility system. An intelligent camera system designed to provide a real-time surround bird's eye view of the vehicle in one single image.

High-visibility markings on the vehicle.

Company/Smelter-logo decal, incorporated in the Hencon design.

Technical Maintenance Manual in local language.

Mobile Telemetric Unit to feed live vehicle data (VDC) such as engine running hours, hydraulic oil temperature, engine coolant temperature etcetera to the Hencon Customer Portal.

The new EVY compact vacuum cleaner

## **Fresh Thinking, Smart Cleaning**

### **The cleanest**

- Filters even the finest dust:  
2 - 0,2 micron
- Cleans without creating dust clouds
- Sustainable: better for men & machine

### **The leanest**

- Compact, highly manoeuvrable model
- Reduces your Total Cost of Ownership
- Single out of stock model

### **The meanest**

- Collects all dust, ready to re-use & re-market
- It's all about Serving Progress!

### **Hencon B.V.**

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