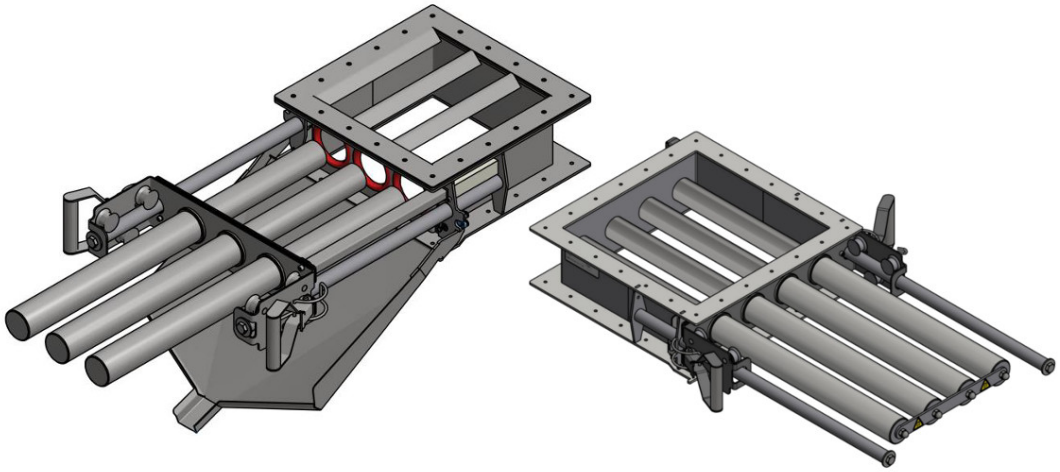
User Manual

Easy Clean Cleanflow magnet, series SECE



The descriptions in this manual may differ from your version.

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Please ensure that anyone working with the device has access to all the necessary documentation.

Manual SECE Cleanflow magnet, version 05/2020

Safety

General

The device is provided with safeguards where necessary. Make sure every person who comes in contact with the device, or enters the area around it, wears adequate personal protection (overalls, safety glasses, ear protectors, helmet, steel-toed safety shoes etc.). Areas of the device considered dangerous are marked with warning pictograms.
If the device remains easily accessible to persons, extra safety precautions (e.g. safeguards) must be installed. When safeguards are not possible, make sure clear instructions are given to people using the machine.

Safety regulations

- Read and observe the warnings and instructions given on stickers and labels on the device Do not ignore them.
  They are applied for your safety!
- The activities described in this manual can only be done by trained and competent personnel.
- Follow all safety and warning regulations provided in this manual!
- Always observe the locally applicable safety and environmental regulations.
- Follow local occupational safe weight limits when manually lifting the equipment.
- Remain a safe distance from rotating and moving components.
- Wear protective clothing, goggles and safety shoes when working on the device.
- Pregnant persons should maintain a minimum distance of 5 cm from the magnet bars.

Danger of magnetic field

The magnets generate a powerful magnetic field that strongly attracts ferromagnetic (Fe) materials. Always take into account that these materials may suddenly be powerfully drawn towards the magnet. This applies to steel workbenches and steel tools, but also to ferromagnetic materials carried on your person, such as coins in your wallet or your keys. Wherever possible make use of non-magnetic tools and workbenches fitted with a wooden worktop and preferably a non-ferromagnetic frame (for instance stainless steel).

Remember that ferromagnetic items, including personal items, will be attracted if you are closer than 0.3 metres to a magnet.

Danger - strong magnetic field!

People fitted with implanted active medical devices must stay at a distance of 1 metres from the equipment. The magnetic field could interfere with the functioning of such devices.

Prohibited for people with pacemakers!

Do not bring ferromagnetic objects, e.g. tools, watches, jewellery within a distance of 0.5 meter from the magnet pad. Sudden traction could result in injury and or the magnetic field could result in damage to sensitive devices.

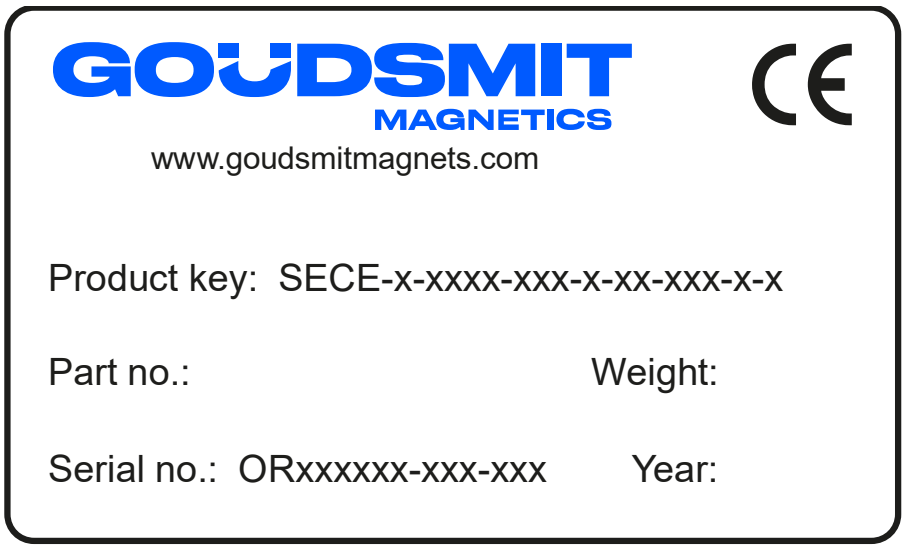
Attraction and projectile risk

Warning Pictograms
Ensure that all warning pictograms are legible. Replace if lost or damaged.

General Protection
Wear all the personal safety equipment necessary for safe operation or maintenance.
This may include; overalls, safety glasses, ear protection, helmet, safety shoes, etc.

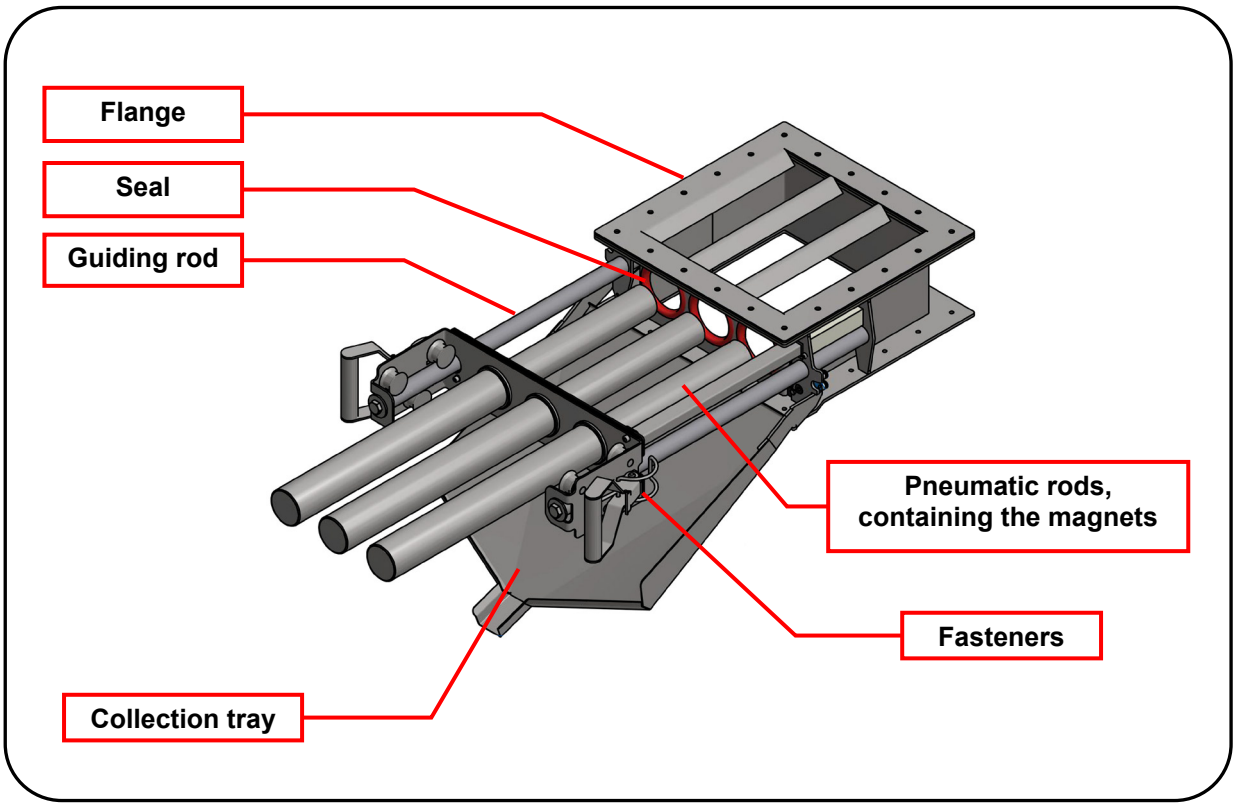
Keep all screens and safeguards in place

Identification plate



If you need to correspond about your device, make a note of the numbers on the identification plate. On smaller devices there may not be an identification plate but an etching.

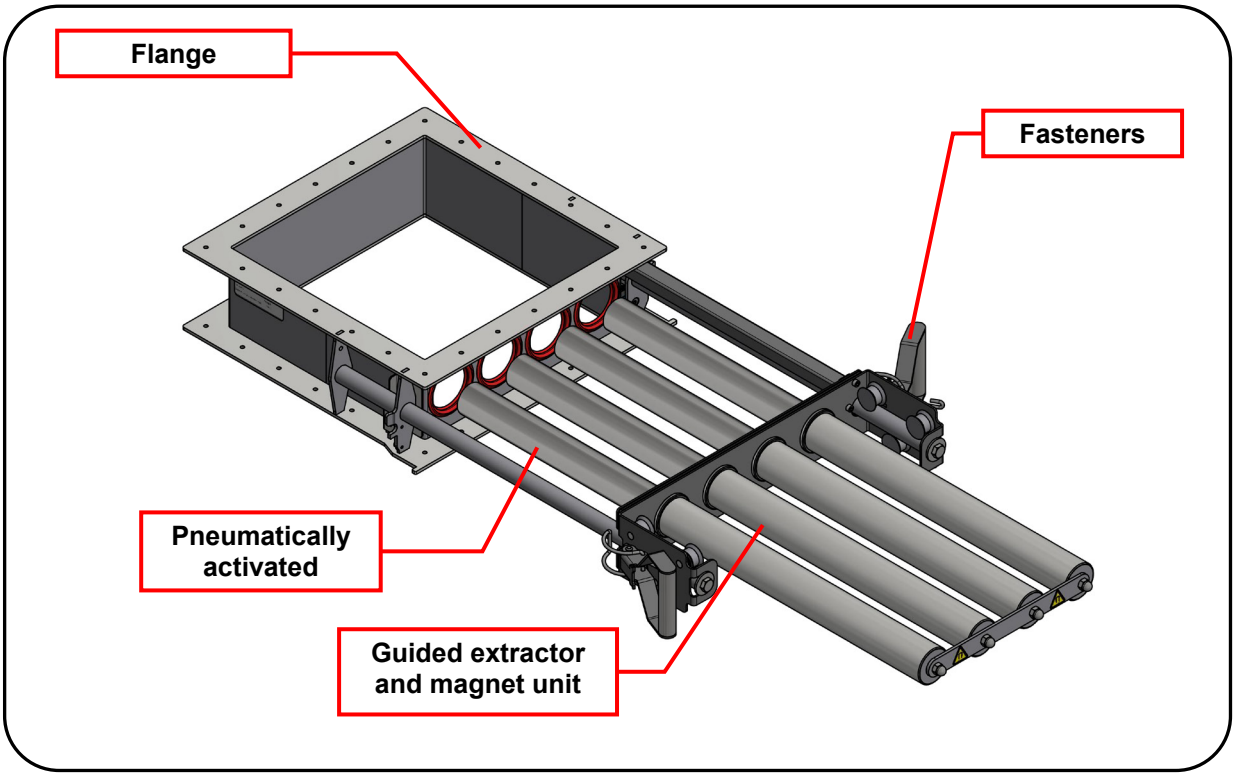
Removal of ferromagnetic particles in Easy Clean Cleanflow magnets



When cleaning the pneumatic Cleanflow magnets of ferromagnetic particles

1. Stop product flow.
2. Loosen the fasteners and slide the extractor unit out of the housing.
   The magnet unit inside the extractor will automatically slide out of the front section.
3. Clean the ferromagnetic particles from the extractor with a clean soft brush.
4. Dispose of ferromagnetic debris. Use the collection tray for sampling.
5. Slide the extractor unit back into the housing and refasten.
   The magnet unit will automatically slide back into the extractor unit.
6. Resume product flow.

Construction and functioning of Cleanflow magnet



Function

The function of the device is to capture ferromagnetic particles in the product stream.
The product flows through the pipe and around the magnets. These capture ferromagnetic particles.

Features

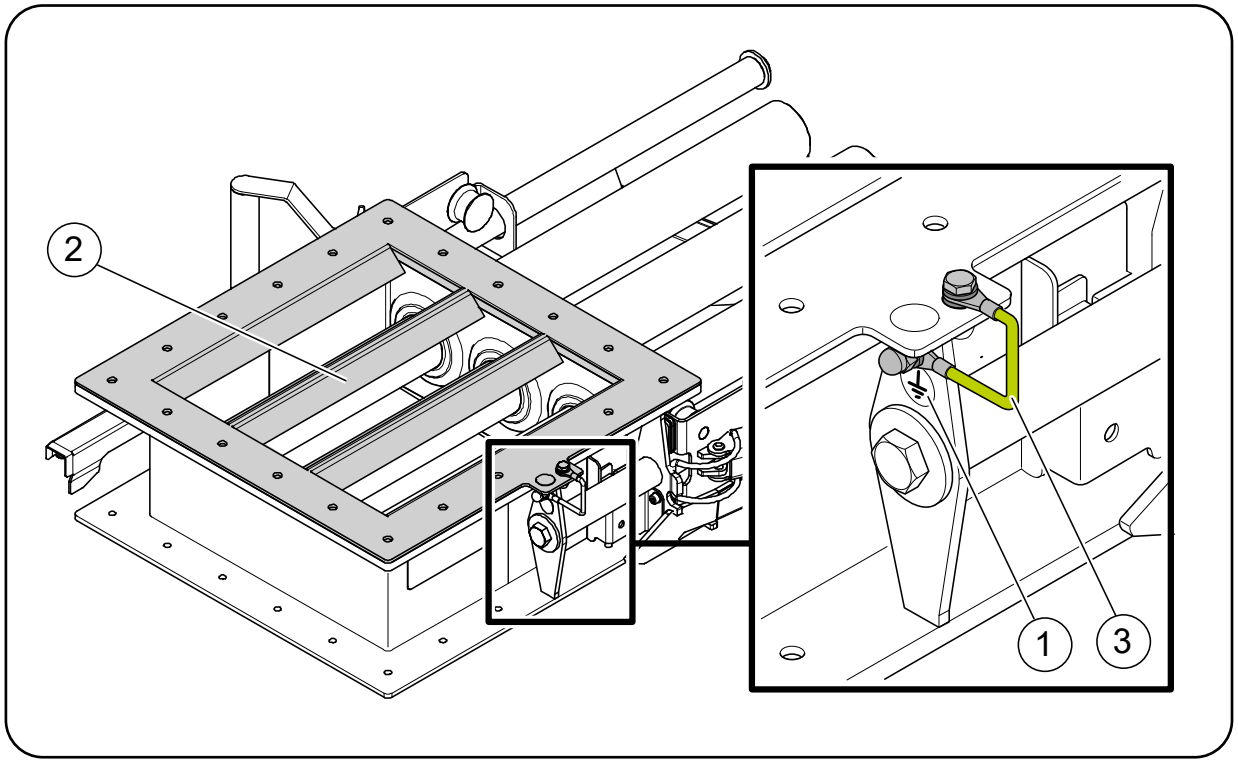
The manual pneumatic Cleanflow magnets have a telescopic assembly. Whereby the pneumatic components automatically move the magnet unit in and out of the front section of the extractor if it is pulled in or out of the housing.

Earthing

The standard Cleanflow magnet is not earthed. A provision has been made on the bracket to realise an earthing (see earthing symbol) [1].

To prevent the creation and build-up of static electricity, make sure there is a metal bridge between the magnetic device / product channel and the installation. The completed installation must also be earthed.

Deflector (option)

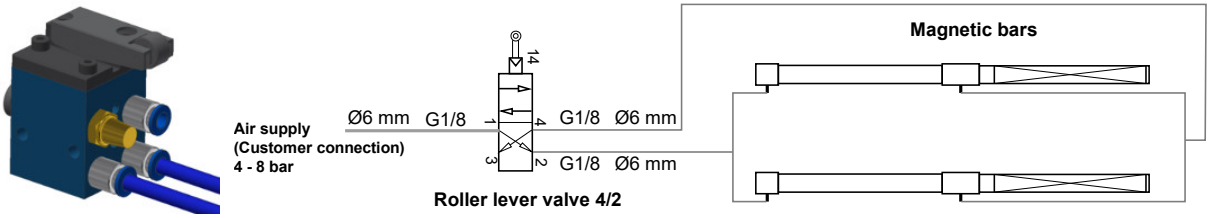


A deflector [2] is optionally available to ensure that all particles of the product stream touch the bars. The deflector is standard equipped with a earth wire [3].

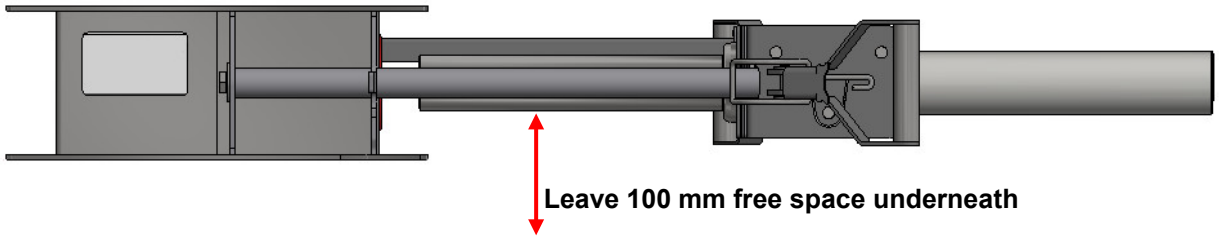
Installation, start-up and servicing

Installation

- Only allow qualified personnel to work on the installation.
- Handle the Cleanflow magnet with great care. The extractor tubes are very fragile.
- Remember that any ferromagnetic tools and components are attracted to the magnet and may damage it.
- Connect joints or flanges correctly to the inlet and outlet joint.
- Use a pressure of 4 bar on the pneumatic connection. Press connection hose in remaining connection.



- Install the Cleanflow magnet correctly and at the proper work height.



Start-up

Ensure that:

- the device has no damages or malfunctions. Test the pneumatic bar operation with a paperclip. It should react if the magnet is operated.
- all connections, whether mechanical or pneumatic, are made properly.

Servicing

If the extractor or magnetic bars are damaged or dented, check that they still operate correctly.

Spare parts include the pneumatic bar magnet and the seals. The seals must be replaced every year.

Goudsmit Magnetic Systems can offer a yearly inspection with a replacement of seals and magnetic inspection report and certificate.

Storage and dismantling

When recycling the device at the end of its technical life, dispose of correctly and according to local regulations.