The descriptions in this manual may differ from your version
The information we supply may only be used for service or operation of the product. It may not be disclosed to any third parties without our prior written permission.

Our products and the data in our documentation may be subject to later amendment without any obligation to previously supplied equipment.

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

SFN filter manual version 07 2016
Safety

Dangers of strong magnetic fields
Ferromagnetic objects will be attracted, if you are closer than 30 cm to the magnet. Any ferromagnetic tools or components may be attracted and damage the device.

Danger to people fitted with implanted medical devices
People fitted with pacemakers should not enter the magnetic field of the device.

Danger to electronic and mechanical devices
Magnetic information carriers or electronic and mechanical devices, etc, may be destroyed if they enter the magnetic field.

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.
When cleaning the SFN and SFND filters of ferromagnetic particles:

Stop product flow.
Loosen clamps and remove extractor with magnets unit, from the housing.
Loosen the fasteners and remove the magnet unit from the extractor.
Place the magnet unit away from the extractor.
Clean the ferromagnetic particles from the extractor with a clean soft cloth or brush.
Dispose of ferromagnetic debris.
Replace magnet unit in extractor and refasten.
Replace extractor and magnet unit in housing and refasten.
Resume product flow.
Removal of ferromagnetic particles in SFNG filters

When cleaning the SFNG filters of ferromagnetic particles:

Stop product flow.
Loosen clamps and slide extractor unit out of the housing.
Slide the magnet unit out of the extractor unit.
In the pneumatic version this will happen automatically.
Clean the ferromagnetic particles from the extractor with a clean soft brush.
Dispose of ferromagnetic debris.
Slide the extractor unit back into the housing and refasten.
Slide the magnet unit back into the extractor unit.
In the pneumatic version this will happen automatically.
Resume product flow
Construction and functioning of magnetic filter

**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 and these capture ferromagnetic particles.

**Features**

The SFND filter has a double wall that can be pumped with warm water. It includes several pipe connections.

The SFNG guided filters have a telescopic assembly. Whereby the pneumatic version automatically moves the magnet unit in and out if the extractor is pulled out of the housing.
**Installation, start-up and servicing**

**Installation**
Only allow qualified personnel to work on the installation.
Handle the filter with great care.
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.
Install the filter correctly and at the proper work height. Always mount the SFNG filters with the extractor and magnet units in a horizontal position!

**Start-up**
Ensure that;
The device has no damages or malfunctions. On the pneumatic SFNG version, Test the pneumatic bar operation with a paperclip; it should react when the magnet is operated.
All connections, whether mechanical or pneumatic, are made properly.

**Servicing**
If the extractor or magnet 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.