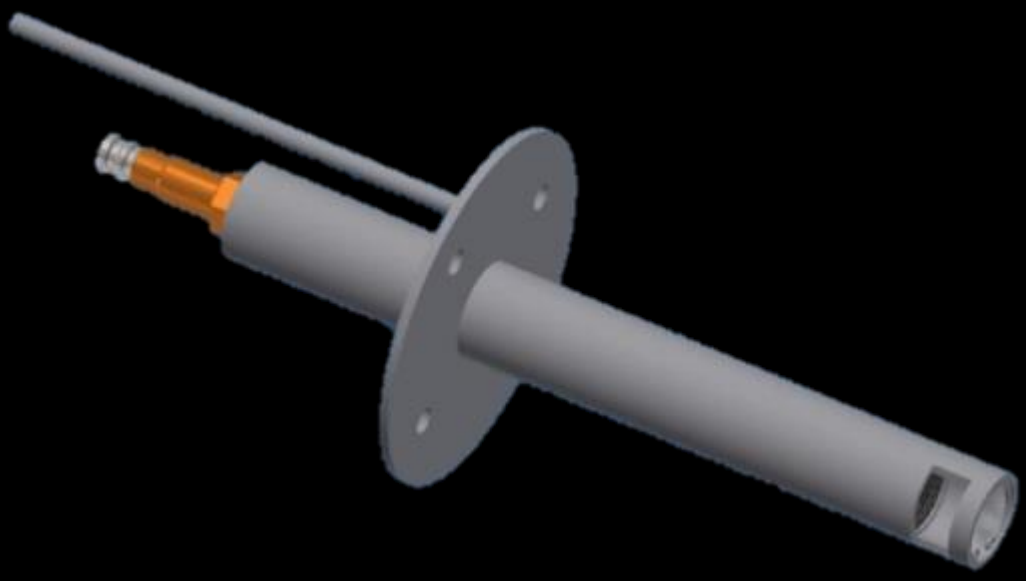
SCAN TRONIC
COMBUSTION OPTIMIZING

FLUE-GAS GUIDE TUBE MANUAL

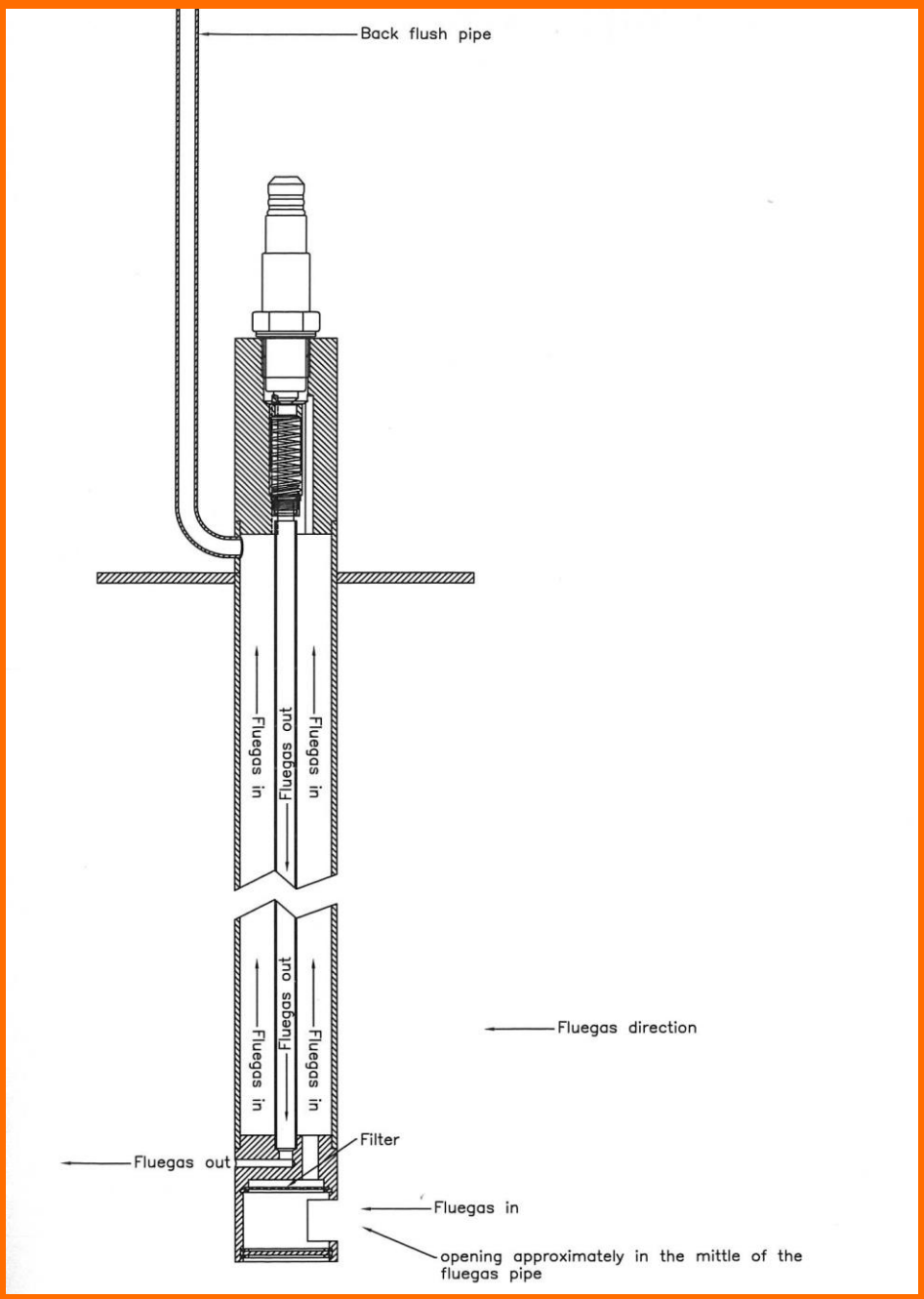


PART NUMBER 104.130

Scan Tronic ApS
Sverigesvej 14
DK-8700
info@scan-tronic.dk
www.scan-tronic.dk

Description

Flue-gas guide tube part number 104.130 is an accessory to Wide band lambda sensor OS 2014.
The flue-gas tube has two functions. The first one is to direct the flow of flue-gas directly, through the sensor the way it is described by the producer of the sensor. To obtain this, the design has changed from the previous 104.120. It is recommended to replace all old designs to the new version. For further information please contact Scan Tronic.
The second function is to protect the sensitive parts inside the sensor from dust from the combustion. This protection will increase the life time of the sensor .



Specifications:

Filter cleaning: The filter can be cleaned manually or automatically using pressured air, 6 Bar.
Installation site: Top side of the flue channel.
Installation method: Flange mounted directly on the surface of the flue channel wall. Fig. 1.
Flange dimension: Outer diameter: Ø140 mm.
Fitting: 4 pcs M10 free holes Ø95 mm.
Cutout Insulation: A free hole minimum Ø200 mm is cut in the insulation layer.
The edge is covered with a suitable material.
Holes, Fig.2: One Ø 42 mm center hole and 4 pcs. 6,8 mm holes at a center diameter of 95 mm.
Gasket: d=47 mm. D=88 mm. h = 3 mm Reinzit 34 or silicone rubber.
Guide tube: Ø 38 tube 450 long.
Connections: M 18 x 1,5 thread for OS 2014 sensor.
Cleaning: 8 mm. tube fitting for filter cleaning with pressurized air (6 Bar 500 mS every 30 mi - nutes)
Materials: Stainless acid proof steel ASIS 316
Temperatures:
Flue-gas temp. max 400°C.
Ambient temp. max 100°C
Standard accessories: Supplied with 1 pc. Reinzit 34 gasket and 4 pcs. M10 x 20 self-tapping bolts.

Installation:

The installation is best performed on the top side of the flue-gas channel. This way any dust deposit around the sensor is avoided.

Procedure:
1. Cut a minimum 200 mm. diameter hole in the insulation of the flue-gas channel.
2. Clean the metal surface carefully. In case of a cylindrical flue channel a flange adapter is available.
3. Cut and drill 5 holes as illustrated. (a stencil 1:1 is present in the package)
4. Fit the gasket. With care a small amount of silicone rubber can be used, but the rubber must!!!! be complete hardened before the sensor are fitted. (silicone is poison for the sensor).
5. Place the flue-gas guide tube in the hole with the “nose” upstream the gas flow. Fig. 1.
6. Fit the self tapping screws and tighten them carefully.
7. Fit the sensor as shown fig. 1 Tighten 35-40 Nm.
8. Before operation, ensure that the service pipe is closed.

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+45 21 66 00 85



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