

Compressed Natural Gas (CNG) Assemblies – Racor FFC Series | #FFC-110-10 (for CNG)

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Racor FFC CNG Filter / Service Elements protect alternative fuel system injectors and components by removing aerosol contaminants in CNG as small as 0.3 – 0.6 micron with up to 99.97% efficiency.

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Technical Specifications

Maximum Working Pressure (Bar):

55

Flow Capacity (CFM):

112 @ 500 psig

Port Connection:

1/4" NPT x2

Flow Capacity (m3/h):

190 @ 3447 kPa

Media:

Coalescer grade 10

Maximum Working Pressure (psi):

800

Material:

Powder Painted Chromated Aluminum

Product Series:

Cartridge CNG Fuel Filter, FFC Series

Brand:

Racor

For Fluid Type:

CNG

Mounting Type:

(Top) 3/8"-16 UNC-2B X2

Compatible Element:

CLS110-10

Operating Features:

5.1 oz. sump capacity

Height:

7.9 inch, 18.3 cm

Diameter:

3.1 inch, 7.9 cm

Weight:

1.5 lb, 0.68 kg

Application:

Onboard CNG powered vehicles

Maximum Operating Temperature:

-40 to 221 °F, -40 to 105 °C

Seal Material:

Item Information

Efficient operation of CNG vehicles and equipment requires protection of the fuel system to prevent premature failing of injectors and precision components. During processing and handling, contaminants can enter CNG fuel streams in a number of ways (e.g., lube oil carryover from compressors, condensation in fuel tanks, solids build-up during handling). This leads to component damage, engine downtime, and increased maintenance costs. Designed for use with Racor CNG filter housings (110, 110L, 112, 113, 116N), FFC Series Replacement (Type C) Coalescer Elements protect critical engine components in CNG powered vehicles and equipment by removing 99.97% of all aerosols in the 0.3 - 0.6 micron range.

The service elements are available in two media grades:

Grade 6 - Grade 6 filter elements are used when total removal of liquid aerosols and suspended fines is required. Because of its overall performance characteristics, this grade is recommended for CNG applications below 500 PSIG.

Grade 10 - Grade 10 filters are used as pre-filters or as coarse coalescers. They are designed to remove gross amounts of aerosols or tenacious aerosols, which are difficult to drain.

For more information on FFC Series CNG filter elements, consult the CNG High Pressure Filtration brochure in the "Product Support" tab.

How they work:

FFC coalescer elements are specially designed for the removal of liquid contaminants from gaseous flows. They are manufactured using a patented process where micro-glass fibers are arranged into a tubular form. During operation, dirty, wet CNG is forced through the coalescing media from the inside of a cartridge through a tubular wall to the outside, where large droplets fall to the bottom of the housing. Clean CNG gas exits the housing through the outlet port. Oil and water removed from the gas stream accumulates until drained, while dirt particles are trapped and retained on the surfaces of the fibers

Markets:

- Construction
- Power Generation
- Oil and Gas
- Transportation

Applications:

- Alternative Fuel Systems (CNG)

Features and Benefits:

- Patented coalescing filter removes 95 - 99.97% of all aerosols in the 0.3 - 0.6 micron range (actual removal efficiency depends on media grade)
- Prevents costly injector damage and increases operational life of precision engine components.
- Saves time and money by eliminating unplanned maintenance and unscheduled downtime from system component failure.
- Available in a wide range of configurations to meet the unique requirements of customers' engines.

CAD Drawings + Files

No CAD files available



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