The Omnitek Model CNG175 high-pressure CNG coalescing filter is designed to meet the needs of all natural gas engines. A high strength aluminum housing and unique multiple layer filter element that combines both particulate and coalescing filtration make the Series CNG175 filter the ideal choice for the most demanding applications.

High Pressure Filtration – Gaseous fueled engines need protection from solid particulate matter and oil aerosols, both of which can damage fuel injectors, carburetors, and regulators. By combining both forms of filtration in one element, the CNG175 filter provides highly efficient and cost effective fuel system protection.

Filter Element – A custom three-layer element has been designed for Omnitek's family of filters. The first layer of the filter is a 10-micron cellulose pre-filter that traps any particulate matter before it can reach the coalescing element. The structure of the filter traps dirt as the gas moves through the entire depth, not just on the surface. The pre-filter protects and greatly extends the life of the coalescing element.

The second layer of the filter is a borosilicate fiber/microglass paper coalescing element. It removes more than 99.9 percent of the aerosols in the 0.3-0.6 micron range (higher efficiency filters, to 99.999 percent, are available by custom order).

The third layer of the filter is made of cellulose fiber that provides a drain layer for aerosols that have coalesced into oil droplets. The oil droplets migrate to the bottom of the filter and drop into the sump.

Filter Housing – The filter housing is made of high strength 6061 aluminum alloy and is ECE110R certified for 3600 psig pressure CNG systems. Burst pressure rating is 14,500 psig. The filter housing is clear anodized for corrosion resistance and is designed for undercarriage applications that are subject to dirt and debris encountered by working vehicles. A 2.5-inch clearance is required beneath the filter housing for servicing of the element.

The CNG175 filter will provide complete filtration and is suitable for use in the most demanding environments, typical of the rigors of fleet vehicles.
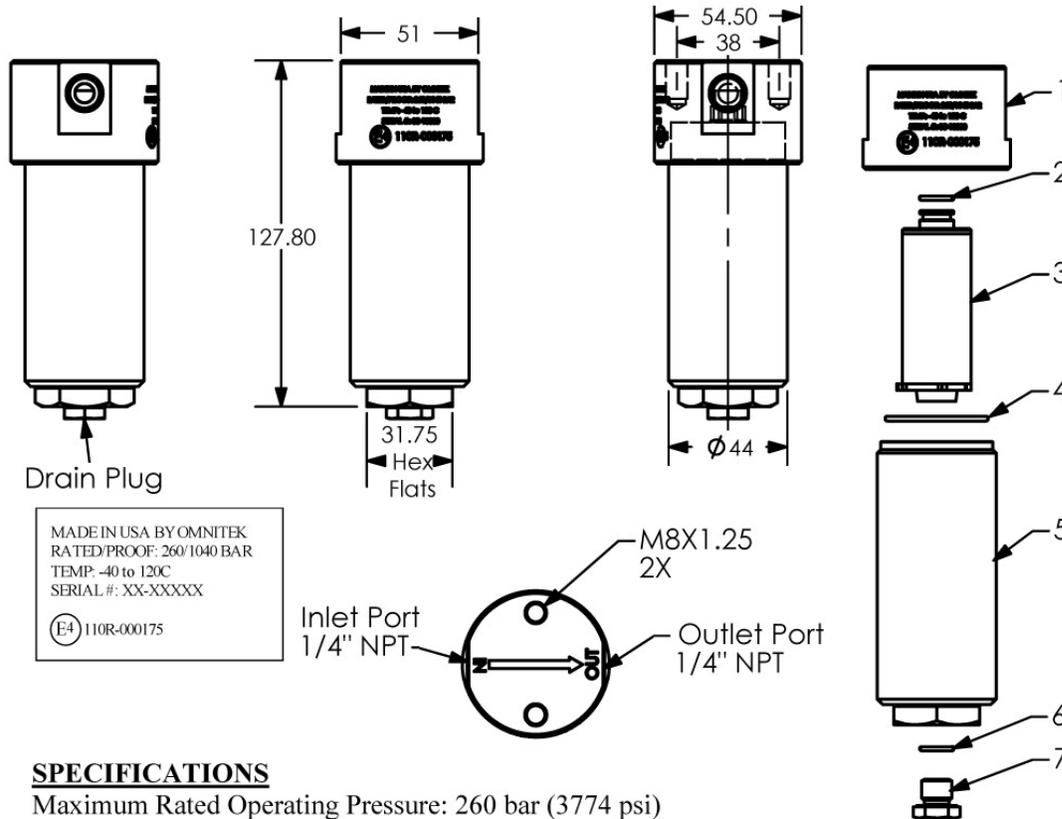
SERIES 175 COALESCING FILTER SPECIFICATION

Drain Plug

MADE IN USA BY OMNITEK
RATED/PROOF: 260/1040 BAR
TEMP: -40 to 120C
SERIAL #: XX-XXXXX

(E4) 110R-000175

51

127.80

31.75
Hex
Flats

54.50
38

Ø44

M8X1.25
2X

Inlet Port
1/4" NPT

Outlet Port
1/4" NPT

1
2
3
4
5
6
7

SPECIFICATIONS
Maximum Rated Operating Pressure: 260 bar (3774 psi)
Operating Temperature: -40 to 250° F
Inlet & Outlet Port: ¼" NPT-Female
Flow: Inside to Outside Element
Element: 10 micron pre-filter
Coalescing Element 99.99% Eff. @ .3 to .6 micron
O-Ring Seals: Buna-N
Burst pressure: 14,500 psi (1040 bar)
Sump Capacity: .8oz (24 ml)
Flow: 50 SCFM @ 100 psig
Certification: ECE110R-000175
110 mm Clearance required for housing Removal
Application: CNG/LNG
Tightening Torque for Filter Body Assembly: 5.5 Kg.m ± 0.3 Kg.m
Tightening Torque for Drain plug: 2.9 Kg.m ± 0.25 Kg.m
Tightening Torque for Both mounting Screws: 2.2 Kg.m ± 0.2 Kg.m
Weight: 0.42 Kg (420 grm ± 10 grm)

Bill Of Materials		
Part	Description	Qty.
1	Filter Head	1
2	O-Ring Filter Cartridge	1
3	Filter Cartrige Assembly	1
4	O-Ring Filter Body	1
5	Filter Body	1
6	O-Ring Drain Plug	1
7	Drain Plug	1

CAUTION!
Coalescing Filter works only
when it is installed in correct
direction of flow marked as
IN & OUT on the body