

Standard Construction for Glycol / Amine Filtration

"C" Series

The "C" Series filters are designed for low pressure charcoal treatment of triethylene glycol and amine, natural gas dehydrators and sweeteners. These units are constructed from welded carbon steel. Internal canister support, screw and seal washer are plated carbon steel. The flat top closure uses four 3/4" diameter bolts attached to the vessel wall which swing

away from the top during canister removal. The closure seal is a standard size, commercially available, Buna O-Ring. 1" internal pipe thread inlet and outlet connections are standard. Internal pipe thread vessel drain and vent are also provided.

"C" Series Optional Construction

Materials of Construction

The "C" Series housing is constructed of all carbon steel with plated carbon steel internals.

Seal Material

The Standard Buna O-Ring seal will operate to 250°F. Viton and Ethylene Propylene seals are available for special service. For best charcoal operation efficiency, the operating temperature should be held below 120°F.

Connections

Inlet and outlet connections are available in smaller than standard sizes to fit customer requirements. 150# RF ANSI flanges are available by special order. Internal pipe thread drain and vent connections are standard. Flanged or external pipe thread, and non-standard sizes are available by special order. Special purpose connections such as relief valve fittings and pressure taps are available to meet a customer's specific requirements. Nonstandard connection location, unusual mounting heights or dimensions are also available.

ASME Code Construction

The "C" Series filters are designed in accordance with the Pressure Vessel Code of the American Society of Mechanical Engineers. When required, each unit can be stamped with the "UM" or "U" symbol, denoting fabrication and testing

performed by specific procedures. "U" symbol vessels are registered with the National Board of Boiler and Pressure Vessel Inspectors.

Dimensional Information

Model	Max. Working Pressure PSI	Shipping Weight	No. of Canisters	Glycol/Amine Flow Rate
C1N15N1C	150	255	1	1.5 GPM / 90 GPH
C2N15N1C	150	325	2	3 GPM / 180 GPH

Charcoal Canister Design

The all steel charcoal canister is 11" O.D. x 22" long. The granulated charcoal is held in place by a fabric outer sleeve just inside the perforated steel shell. The charcoal will not migrate downstream due to a cloth inner seal and perforated rigid metal core. Each cartridge has gaskets attached to each end and lifting handles on the top for ease of replacement. The canister contains 34 pounds of granulated charcoal. Charcoal adsorbers operate most efficiently when the operating temperature is less than 120°F. Operation at a temperature greater than 220°F is not recommended. The Nowata Model 11NC22 replacement canisters are shipped in individual cardboard boxes which can be used for handling and disposal of spent canisters. The Nowata 11NC22 is a replacement for industry standard activated charcoal elements that are 11" O.D. x 22" long.

