



CeraQ™ CERAMIC FILTER

QUA's CeraQ™ ceramic membrane modules are designed for challenging water and wastewater applications. The CeraQ™ modules consist of 3.5 mm ID ceramic tubular elements potted into bundles for various surface area requirements. The module is capable of removing virus, bacteria, colloidal matter, submicron or micron sized suspended particles, oil and organics from a wide range of fluids, including drinking water and industrial wastewater to economically meet variety of treatment objectives or to recycle and reuse wastewater.

Standard SS CeraQ™ Module

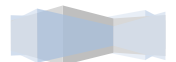


Standard Features

- Well defined pore size distribution in comparison with polymeric membranes, resulting in high degree of particulate removal at higher flux.
- Alumina based ceramic membranes with proprietary coating ensures long service life and a high degree of permeance recovery.
- Material stability in harsh environments and compatible with aggressive cleaning chemicals (if necessary).
- Various pore sizes address diverse applications covering Micro and Ultrafiltration range.

Applications

- Surface water filtration
- Drinking water filtration for removal of bacteria/virus. Achieves 10-log bacteria and 4-log virus removal.
- RO pretreatment to replace existing chemical pretreatment for the production of industrial process water.
- Recycle & reuse of challenging Industrial and oily wastewater applications where polymeric membranes fail due to heavy fouling.





Product Specifications

Model	Membrane Area Ft ² (M ²)	Module Diameter (A)	Feed/Reject Connection
CQ-5	5.4 (0.5)	2"OD	2" 150# Flange
CQ-10	10.8 (1.0)	3"OD	3" 150# Flange
CQ-20	21.6 (2.0)	4"OD	4" 150# Flange
CQ-50	50.5 (4.7)	6"OD	6" 150# Flange

On request customized sizes are available

Material of Construction

Filter Media: Inorganic alumina based tubular membranes with proprietary coating
 Housing: PVC/CPVC, Steel, SS
 Seals: Buna or Viton O-rings
 Pore size: 0.4, 0.05, 0.01, 0.005 µm
 Operating mode: Dead-end or cross flow
 Mounting: Horizontal or vertical

Operating Conditions

Operating Pressure: 30 to 60 psi
 ΔP terminal: 20 to 60 psi
 Operating Temperature: up to 90°C (194°F)
 Maximum Temperature: 110°C (230°F)
 pH: 2 to 11

