

# CC-M Series

L/L COALESCER CARTRIDGES

ULTRA LOW IFT LIQUIDS

DIAMETER 63.5 mm



## CHARACTERISTICS:

- Three proprietary polymeric coalescing media available
- High separation efficiency even in presence of disperses phases with ultra low interfacial tension (IFT)
- Designed to easy breaking of stable emulsion
- Flow direction in to out
- Reusable stainless steel or polymeric hardware
- Ideal for biodiesel processes
- Suitable for final oil removal from produced water
- Suitable for free water removal from solvents
- Suitable for free water removal from aromatic hydrocarbons
- Suitable for disperses phases up to 50000 ppm (5%)
- Residual free disperses phase 50 –300 ppm even with fluids with extremely low IFT (down to 0.5 dyne/cm)
- Ideal alternative solution at Pall PhaseSep A/S cartridges

## MAIN APPLICATIONS:

- OIL & GAS
- PETROCHEMICAL
- FINE CHEMICAL
- GENERAL INDUSTRY

## APPLICATION DETAILS:

- Caustic removal from hydrocarbons
- Amines removal from hydrocarbons
- Water removal from biodiesel
- Soap removal from biodiesel
- Glycerin and glycerol removal from methyl ester
- Water removal from ultra low sulfur content diesel
- Fatty acid or methyl ester removal from glycerin
- Oil removal from produced water
- Oil removal from ammonia
- Working solution removal from hydrogen peroxide
- Water removal from hydrogen peroxide

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## TECHNICAL DATA

### DIFFERENTIAL PRESSURE

**Cartridges replacement:**

1.05 bar

**Max. allowable:**

2.1 bar @ 25 °C

### MAX. WORKING TEMPERATURE

**Polyester:** 120 °C

**Polyolefin:** 50 °C

**Polyamide:** 60 °C

### CONSTRUCTION MATERIAL

**Coalescer media:**

- Polyester
- Polyolefin
- Polyamide

**Reusable hardware:**

- Stainless steel
- PTFE
- Polypropylene
- Polyester

### Coalescence introduction

Coalescent elements are designed to separate two liquid phases with different characteristics of density, viscosity and IFT (interfacial tension).

Coalescer elements CC-M series are available in three proprietary filter media to offer the optimal coalescing solution for every applications. The fine dispersed phase droplets are coalesced in the depth of the filter media matrix. The merged droplets are slowly carried to the outside surface of the cartridges where, after reaching the largest diameter, they became heavy enough to be separated from the main stream by gravity; consequently the separated phase can be collected on the filter bottom by settling.

The separation efficiency achievable depends on the type of coalescing media used but mostly from the characteristics of the main liquid and the dispersed phase to be separated. The CC-M series coalescing cartridges have been designed to provide high separation efficiencies in those applications where traditional fiberglass cartridges are inefficient.

The use of polyester, polyolefins or polyamide coalescing media ensures high separation capacity even in the presence of the stable emulsion generated by disperses phase like amine, ammonia, caustic solution, hydrogen peroxide, solvents, naphtha with a high content of aromatics (pyrolysis gasoline), etc.

### Chemical compatibility

The CC-M series coalescer elements are available in three different polymers to guarantee the highest level of chemical compatibility with the fluids handles.

### Installation

The preferred arrangement is in horizontal coalescer filter housing with specific reusable hardware.

### Availability / characteristics:

Series	Coalescing media	Grade		
		F	M	C
ME	Polyester	X	X	X
MP	Polyolefin	X	X	X
MN	Polyamide	X	X	X

Series	IFT	Max. temperature	
		with water	without water
ME	≥ 0.5 dyne/cm	120 °C	120 °C
MP	≥ 0.5 dyne/cm	50 °C	50 °C
MN	≥ 0.5 dyne / cm	60 °C	120 °C

**Contact us for any further information.**

We reserve the right to change the data of this specification without notice.

**ASCO Filtri S.p.A.**

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