

CC-T Series

L/L COALESCER CARTRIDGES
ULTRA LOW IFT LIQUIDS
DIAMETER 95 - 152 mm



CHARACTERISTICS:

- Two diameters available
- High separation efficiency even in presence of dispersed phases
With ultra low interfacial tension (IFT)
- Low initial Delta-P
- Flow direction in to out
- Coalescing media available in fluoropolymer, nylon or polyester
- Stainless steel or nylon hardware available
- Ideal for free water removal from liquid hydrocarbons
- Ideal for caustic solutions or amines removal from liquid hydrocarbons
- Suitable for free water removal from solvents
- Suitable for free water removal from cumene and phenol
- Suitable for free water removal from aromatic hydrocarbons
- Suitable for free hydrogen peroxide removal from working solution and vice versa
- Suitable for hydrocarbons removal from produced water
- Suitable for dispersed phases up to 50000 ppm (5%) without pre-separation device
- Dispersed phase separation efficiency from 99% to 99.9%
- Residual water ≤ 15 ppm even with fluids with extremely low IFT, interfacial tension (down to 0.5 dyne/cm)
- Three different end caps available
- Ideal alternative solution at Pall PhaseSep, AquaSep, AquaSepXS or Peco XtreamPhase 4T.

MAIN APPLICATIONS:

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

APPLICATION DETAILS:

- Caustic removal from hydrocarbons
- Amines removal from hydrocarbons
- Water removal from biodiesel
- Water removal from ultra low sulfur content diesel
- Py-gas removal from quench water in ethylene plants
- 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:

OD 95 mm 1.05 bar

OD 152 mm 1.00 bar

Max. allowable:

3.0 bar @ 25 °C

CONSTRUCTION MATERIAL

Coalescer media:

- Fluoropolymer
- Nylon
- Polyester

Support layers:

- Fluoropolymer
- Nylon
- Polyester
- Polyolefin

End caps:

- Stainless steel
- Nylon + 30% fiberglass

Perforated core:

- Stainless steel

Gaskets:

- Buna-n
- Viton
- FEP
- PTFE

DIMENSIONS

Diameter:

OD 95 mm

OD 152 mm

Length:

9.25": 235 mm

(DOE end caps)

20": 508 mm

(DOE - P - H end caps)

33" 842 mm

(DOE end caps)

40": 1016 mm

(DOE - P - H end caps)

56": 1422 mm

(DOE end caps)

60": 1524 mm

(DOE - H end caps)

Coalescence introduction

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

Coalescer elements are manufactured with several filter media layers in pleated configuration to provide the initial separation of the dispersed phase from the main stream. Separated drops are slowly carried to the outside surface of the cartridges where the external agglomeration layer provide to combine the separated liquid in larger droplet, now enough heavy 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-T series coalescing cartridges have been designed to provide high separation efficiencies in those applications where traditional fiberglass cartridges are inefficient.

The use of fluoropolymer, nylon or polyester coalescing media ensures high separation capacity even in the presence of amines, ammonia, caustic solutions, naphtha with a high content of aromatics (pyrolysis gasoline), solvents, hydrogen peroxide, etc.

Availability / characteristics:

Size	Coalescing media						End caps		
	TH	TM	TL	N	E	P	O	P	H
3 - OD 95 mm	X	X	X	X	X	X		X	
6 - OD 152 mm	X	X	X	X	X	X	X		X

Grade	Coalescing media	IFT	Max. temperature	
			with water	without water
TH	Fluoropolymer	≥ 0.5 dyne/cm	149 °C	149 °C
TM	Fluoropolymer	≥ 0.5 dyne/cm	149 °C	149 °C
TL	Fluoropolymer	≥ 0.5 dyne/cm	149 °C	149 °C
N	Nylon	≥ 15 dyne / cm	60 °C	120 °C
E	Polyester	≥ 3 dyne/cm	90 °C	120 °C
P	Polyolefin	≥ 0.5 dyne/cm	60 °C	60 °C

Contact us for any further information.

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

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