



# The tubular heat exchanger series from Alfa Laval

## ViscoLine™ CIP Unit

### Applications

The ViscoLine™ CIP unit is ideal for heating of water or CIP solutions by means of steam, less demanding applications to process low and average viscosity products. Products can contain fibres and small particulates. Also suitable for general heating and cooling applications.

### Working principle

The heat exchanger is formed by a tube bundle (welded at both ends onto flat tube plates) inside a shell.

Product medium flows inside the tubes of the bundle and the service medium between and around these tubes.

This makes it compact and easy to install.

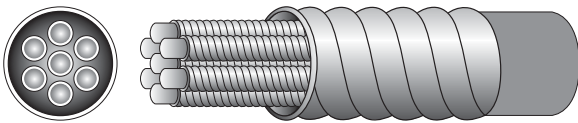
All tubes are connected in parallel and in counter-current flow to the service medium. The product tubes are corrugated. The service media shell is smooth.

### Standard materials

Product side (tubes): . . . . . AISI 316

Service side (shell): . . . . . AISI 304

Vertical installation is recommended for steam to water heating



TD 911-001

Graphic representation of the flow pattern in the ViscoLine CIP Unit.

### Standard design

ViscoLine CIP and water heater is available in 4 sizes.

### Technical data

#### Mechanical design pressure

10 bar on tubes and shell side. Complies with the European Pressure Equipment Directive (PED).

Design temperature 150°C.

#### Connections

Product side (tubes): . . . . . DIN standard flanges

Service side (shell): . . . . . DIN standard flanges

### Designation

VLC19x18/129-2.0-316/304-H

VLC: ViscoLine CIP  
 19 Number of tubes  
 18 Outer diameter of product tubes (mm)  
 129 Outer diameter of service shell (mm)  
 2.0 Module length (m)  
 316 Material tube side  
 304 Material shell side  
 H Tubes are hard corrugated

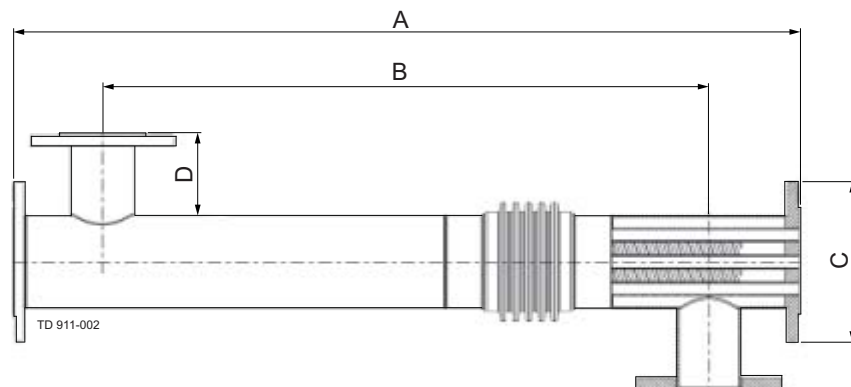


Welded flat tube plate at both ends

### Designation

Type	Nr. of tubes	Tube ø mm [mm]	Shell ø mm [mm]	Module length [mm]	Volume tubes [liters]	Article nr.
VLC13x18/104-2,0	13	18	104	2.0	5.20	10060404
VLC19x18/129-2,0	19	18	129	2.0	7.60	10060403
VLC37x18/168-2,0	37	18	168	2.0	14.9	10060406
VLC37x18/168-3,0	37	18	168	3.0	22.3	10060409

Type	A [mm]	B [mm]	C [mm]	D [mm]	Shell side	Tube side
VLC13x18/104-2,0	1939	1690	200	114	DN65	DN80
VLC19x18/129-2,0	1939	1690	220	115	DN80	DN100
VLC37x18/168-2,0	1939	1677	285	115	DN80	DN150
VLC37x18/168-3,0	2939	2677	285	115	DN100	DN150



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