

TUBULAR LIQUID COOLER

DETAILED OVERVIEW FOR TYPE 'TLCX'
MEDIUM PRESSURE - 40 BAR



Dimensions overview for type Ø129 & ø209 - 40 bar[g]

Tubular Liquid coolers are highly used in the food and beverage industry and in connection with many applications such as CIP units. In the food and beverage industry tubular heat exchangers are often used in systems to reduce or eliminate microbials to make products safe for consumption and to extend their shelf life. A tubular heat exchanger may also be used to heat or cool products prior to filling, drying, concentration or other processes.

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Introduction

This overview is for Tubular Liquid Coolers manufactured by Wila A/S under the category "TLCX" hereinafter referred to as "Heat Exchanger". A Tubular Heat Exchanger is by design, two Pressure chambers in a combined housing.

The inner chamber consists of both ends and the insides of all tubes in the tube bundle, hereinafter referred to as "Tube side" or "Product side".

The outer pressure chamber consists of the outside of the tube bundle, and the inside of the exchangers outer shell, hereinafter referred to as "Shell side" or "Service side".

The Heat Exchanger is intended for a fluid to fluid heat transfer, **either** cooling or heating and is made from EN.1.4404 (AISI 316L) stainless steel with a sanitary surface finish. The tube side is suitable for food stuff fluids, such as dairy products and juices. The entire inside surface roughness is $\leq 0.8 \mu\text{m}$ and the outside surface roughness is $\leq 1.6 \mu\text{m}$. **All fluid media in use with the Heat exchanger, must be compatible with EN.1.4404 (AISI 316L) Stainless Steel.**

The 40 BAR (580 PSI), maximum product side pressure, heat exchanger design is based on either a $\varnothing 129 \times 2\text{mm}$ shell or a $\varnothing 209 \times 3\text{mm}$ shell. Other sizes and pressure ratings are also available.

Regulations and Directives

The heat exchanger is designed and manufactured in accordance with

- the European Commission regulation No. 2023/2006 (Good Manufacturing Practices)
- the European Parliament directive No. EN 1935/2004 (Food Contact Materials).
- the European Parliament directive No. EN 1907/2006 (Chemical Restrictions (REACH)).
- PED - Article 4.3 (SEP) in the European Parliament directive No. 2014/68/EU (Pressure Equipment Directive). The Heat Exchanger is only designed for fluid group 2 (non-dangerous fluids).

Documentation

1. Customer drawing with description and design data table
2. Declaration of conformity
3. Pressure test certificate
4. User Manual

As Supplement the following can be provided:

5. 3.1 material certificates according to EN 10204
6. Weld-logs with associated welding certificates according to DS/EN ISO 9601-1.

Group specifications

Group ordering codes and specifications are as listed below. A more detailed group tables with unit codes and main dimensions can be found on the following pages.

TLCX-xx-xxx-40

TLCX **T**ubular **L**iquid **C**ooler with eccentric product side reducer.
 xx .5, 01, 02, 03, 04, 06, 08 * Indicates the heat transfer surface area in m².
 xxx Either 129 or 209 * Indicates the heat exchanger shell diameter in mm.
 40 The heat exchanger is designed for pressures up to 40 bar

* Other versions are available

TLCX-xx-xxx-yyy-zz

xx See above
 xxx See above
 yyy See below Indicates tube side clamp ferrule connection.
 zz See below Indicates shell side clamp ferrule connection.

Tube side (P1 and P2) connections are:

Shell size's	Tube side connection size's	
Ø129mm	DN125 – DN100 – DN80 – DN65	in accordance with DIN 32676-A
Ø129mm	4" (Ø101.6) – 3" (Ø76.1) – 2.5" (Ø63.5)	In accordance with ISO 2852-2
Ø209mm	DN150 – DN125 – DN100	in accordance with DIN 32676-A
Ø209mm	4" (Ø101.6)	in accordance with ISO 2852-2

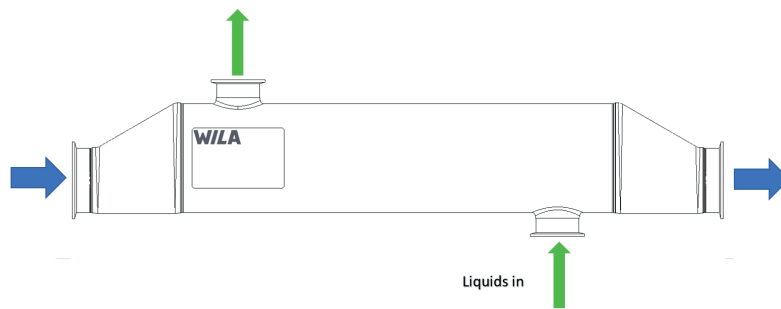
Shell side (S1 and S2) connections, both Ø129 and Ø209 are:

DN20 - DN25 - DN40 - DN50 - DN65 in accordance with DIN 32676-A
 3/4" (Ø20) - 1" (Ø25) - 1.5" (Ø38) - 2" (Ø51) - 2.5" (Ø63.5) in accordance with ISO 2852-2

For both tube and shell sides other connection types and sizes are available.

Connections

Always follow your fitting supplier guidelines and local legislations. Depending on the connection size either SH or SSH clamping rings (or similar) are recommended. For liquids, the outlet should be at the highest point to ensure complete removal of air in the chamber.



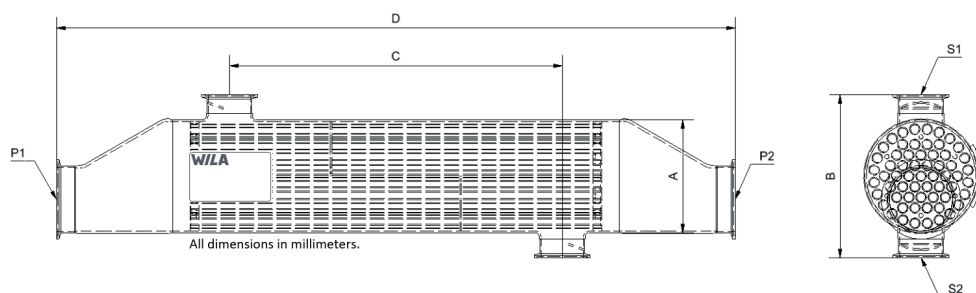
Shell side workflow

The liquid cooler shell side recommended workflow limits are based on the most optimal placement of our baffle plates in the tube bundle, which varies with the size of the liquid cooler:

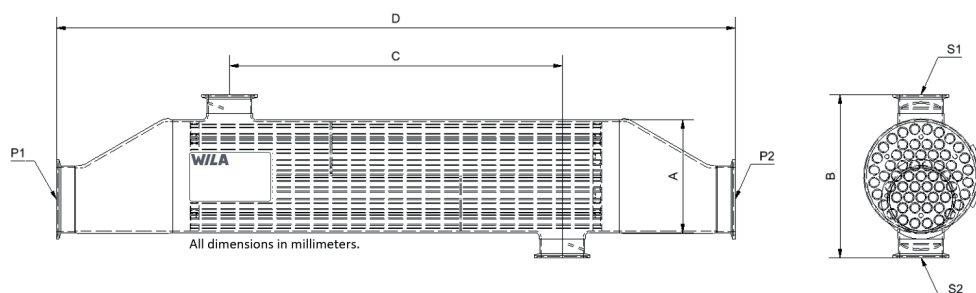
- For liquid cooler size 0.5m² the recommended maximum shell side workflow is 3 m³/h
- For liquid cooler size 1 m² the recommended maximum shell side workflow is 3 m³/h
- For liquid cooler size 2 m² the recommended maximum shell side workflow is 7 m³/h
- For liquid cooler size 3 m² the recommended maximum shell side workflow is 12 m³/h
- For liquid cooler size 4 m² the recommended maximum shell side workflow is 14 m³/h
- For liquid cooler size 6 m² the recommended maximum shell side workflow is 21 m³/h
- For liquid cooler size 8 m² the recommended maximum shell side workflow is 28 m³/h

Note:

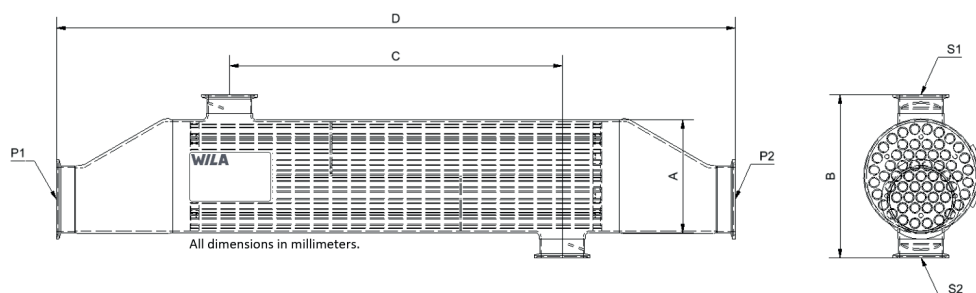
In the following group tables 'Tube bank' is data on the product tubes running paralell inside the shell.



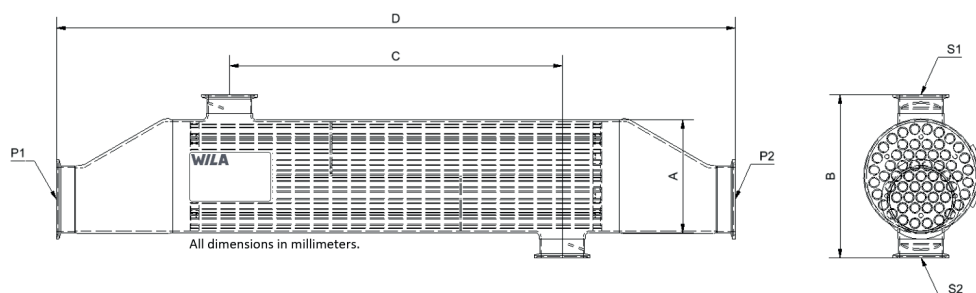
TLCX-.5-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 4.5 liters		Volume 1 liters		316L Eccentric		Dry weight 9 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-.5-129-100-25	W-036140	DN100	Ø129	Ø25	186	160	540	61 pc Ø12x1mm
TLCX-.5-129-101-25	W-036141	Ø101.6	Ø129	Ø25	186	160	527	61 pc Ø12x1mm
TLCX-.5-129-080-25	W-036142	DN80	Ø129	Ø25	186	160	540	61 pc Ø12x1mm
TLCX-.5-129-076-25	W-036143	Ø76.1	Ø129	Ø25	186	160	527	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-.5-129-100-21	W-036144	DN100	Ø129	Ø21.3	179	160	540	61 pc Ø12x1mm
TLCX-.5-129-101-21	W-036145	Ø101.6	Ø129	Ø21.3	179	160	527	61 pc Ø12x1mm
TLCX-.5-129-080-21	W-036146	DN80	Ø129	Ø21.3	179	160	540	61 pc Ø12x1mm
TLCX-.5-129-076-21	W-036147	Ø76.1	Ø129	Ø21.3	179	160	527	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-.5-129-100-26	W-036148	DN100	Ø129	DN25	186	160	540	61 pc Ø12x1mm
TLCX-.5-129-101-26	W-036149	Ø101.6	Ø129	DN25	186	160	527	61 pc Ø12x1mm
TLCX-.5-129-080-26	W-036150	DN80	Ø129	DN25	186	160	540	61 pc Ø12x1mm
TLCX-.5-129-076-26	W-036151	Ø76.1	Ø129	DN25	186	160	527	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-.5-129-100-20	W-036152	DN100	Ø129	DN20	179	160	540	61 pc Ø12x1mm
TLCX-.5-129-101-20	W-036153	Ø101.6	Ø129	DN20	179	160	527	61 pc Ø12x1mm
TLCX-.5-129-080-20	W-036154	DN80	Ø129	DN20	179	160	540	61 pc Ø12x1mm
TLCX-.5-129-076-20	W-036155	Ø76.1	Ø129	DN20	179	160	527	61 pc Ø12x1mm



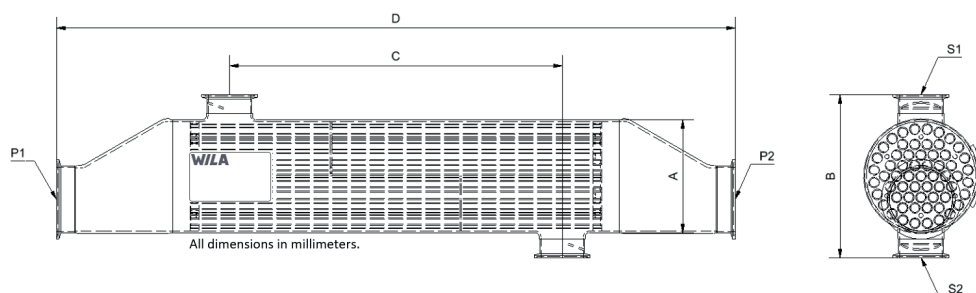
TLCX-01-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 6 liters		Volume 2.5 liters		316L Eccentric		Dry weight 15 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-129-100-25	W-036156	DN100	Ø129	Ø25	186	408	790	61 pc Ø12x1mm
TLCX-01-129-101-25	W-036157	Ø101.6	Ø129	Ø25	186	408	777	61 pc Ø12x1mm
TLCX-01-129-080-25	W-036158	DN80	Ø129	Ø25	186	408	790	61 pc Ø12x1mm
TLCX-01-129-076-25	W-036159	Ø76.1	Ø129	Ø25	186	408	777	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-129-100-21	W-036160	DN100	Ø129	Ø21.3	179	408	790	61 pc Ø12x1mm
TLCX-01-129-101-21	W-036161	Ø101.6	Ø129	Ø21.3	179	408	777	61 pc Ø12x1mm
TLCX-01-129-080-21	W-036162	DN80	Ø129	Ø21.3	179	408	790	61 pc Ø12x1mm
TLCX-01-129-076-21	W-036163	Ø76.1	Ø129	Ø21.3	179	408	777	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-129-100-26	W-036164	DN100	Ø129	DN25	186	408	790	61 pc Ø12x1mm
TLCX-01-129-101-26	W-036165	Ø101.6	Ø129	DN25	186	408	777	61 pc Ø12x1mm
TLCX-01-129-080-26	W-036166	DN80	Ø129	DN25	186	408	790	61 pc Ø12x1mm
TLCX-01-129-076-26	W-036167	Ø76.1	Ø129	DN25	186	408	777	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-129-100-20	W-036168	DN100	Ø129	DN20	179	408	790	61 pc Ø12x1mm
TLCX-01-129-101-20	W-036169	Ø101.6	Ø129	DN20	179	408	777	61 pc Ø12x1mm
TLCX-01-129-080-20	W-036170	DN80	Ø129	DN20	179	408	790	61 pc Ø12x1mm
TLCX-01-129-076-20	W-036171	Ø76.1	Ø129	DN20	179	408	777	61 pc Ø12x1mm



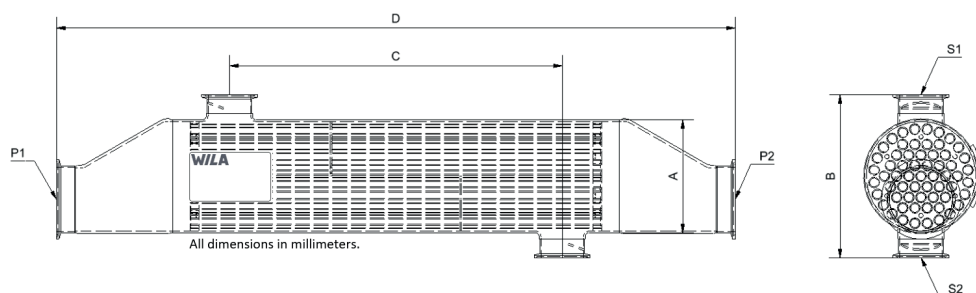
TLCX-02-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 2.5 liters		Volume 5 liters		316L Eccentric		Dry weight 26 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-129-100-51	W-036172	DN100	Ø129	Ø51	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-101-51	W-036173	Ø101.6	Ø129	Ø51	186	886	1257	61 pc Ø12x1mm
TLCX-02-129-080-51	W-036174	DN80	Ø129	Ø51	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-076-51	W-036175	Ø76.1	Ø129	Ø51	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-129-100-38	W-036176	DN100	Ø129	Ø38	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-101-38	W-036177	Ø101.6	Ø129	Ø38	186	886	1257	61 pc Ø12x1mm
TLCX-02-129-080-38	W-036178	DN80	Ø129	Ø38	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-076-38	W-036179	Ø76.1	Ø129	Ø38	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-129-100-50	W-036180	DN100	Ø129	DN50	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-101-50	W-036181	Ø101.6	Ø129	DN50	186	886	1257	61 pc Ø12x1mm
TLCX-02-129-080-50	W-036182	DN80	Ø129	DN50	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-076-50	W-036183	Ø76.1	Ø129	DN50	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-129-100-40	W-036184	DN100	Ø129	DN40	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-101-40	W-036185	Ø101.6	Ø129	DN40	186	886	1257	61 pc Ø12x1mm
TLCX-02-129-080-40	W-036186	DN80	Ø129	DN40	186	886	1270	61 pc Ø12x1mm
TLCX-02-129-076-40	W-036187	Ø76.1	Ø129	DN40	186	886	1257	61 pc Ø12x1mm



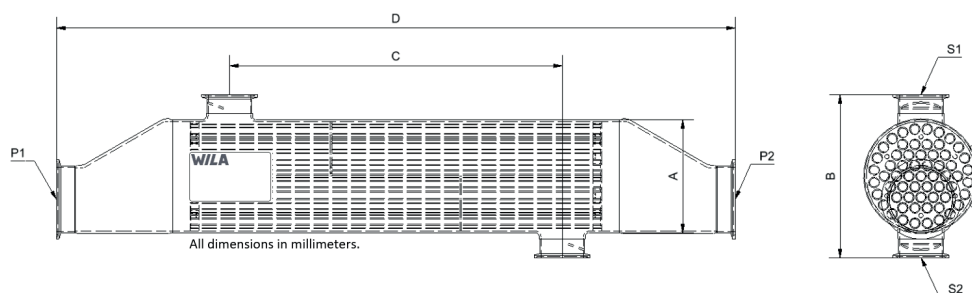
TLCX-03-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 10 liters		Volume 7.5 liters		316L Eccentric		Dry weight 38 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-63	W-036188	DN100	Ø129	Ø63.5	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-63	W-036189	Ø101.6	Ø129	Ø63.5	186	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-63	W-036190	DN80	Ø129	Ø63.5	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-63	W-036191	Ø76.1	Ø129	Ø63.5	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-51	W-036192	DN100	Ø129	Ø51	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-51	W-036193	Ø101.6	Ø129	Ø51	186	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-51	W-036194	DN80	Ø129	Ø51	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-51	W-036195	Ø76.1	Ø129	Ø51	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-38	W-036196	DN100	Ø129	Ø38	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-38	W-036197	Ø101.6	Ø129	Ø38	186	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-38	W-036198	DN80	Ø129	Ø38	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-38	W-036199	Ø76.1	Ø129	Ø38	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-65	W-036200	DN100	Ø129	DN65	199	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-65	W-036201	Ø101.6	Ø129	DN65	199	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-65	W-036202	DN80	Ø129	DN65	199	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-65	W-036203	Ø76.1	Ø129	DN65	199	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-50	W-036204	DN100	Ø129	DN50	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-50	W-036205	Ø101.6	Ø129	DN50	186	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-50	W-036206	DN80	Ø129	DN50	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-50	W-036207	Ø76.1	Ø129	DN50	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-129-100-50	W-036208	DN100	Ø129	DN40	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-101-50	W-036209	Ø101.6	Ø129	DN40	186	1360	1757	61 pc Ø12x1mm
TLCX-03-129-080-50	W-036210	DN80	Ø129	DN40	186	1360	1770	61 pc Ø12x1mm
TLCX-03-129-076-50	W-036211	Ø76.1	Ø129	DN40	186	1360	1757	61 pc Ø12x1mm



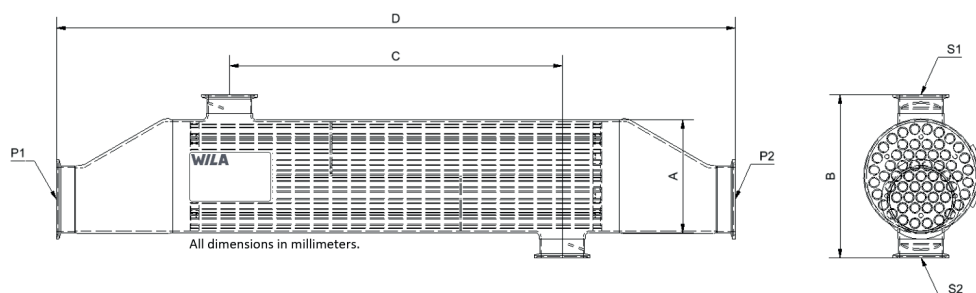
TLCX-01-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 13 liters		Volume 3 liters		316L Eccentric		Dry weight 22 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-209-150-38	W-036212	DN150	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCX-01-209-125-38	W-036213	DN125	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCX-01-209-100-38	W-036214	DN100	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCX-01-209-101-38	W-036215	Ø101.6	Ø209	Ø38	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-209-150-25	W-036216	DN150	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-125-25	W-036217	DN125	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-100-25	W-036218	DN100	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-101-25	W-036219	Ø101.6	Ø209	Ø25	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-209-150-40	W-036220	DN150	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCX-01-209-125-40	W-036221	DN125	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCX-01-209-100-40	W-036222	DN100	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCX-01-209-101-40	W-036223	Ø101.6	Ø209	DN40	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-01-209-150-26	W-036224	DN150	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-125-26	W-036225	DN125	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-100-26	W-036226	DN100	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCX-01-209-101-26	W-036227	Ø101.6	Ø209	DN25	266	122	592	163 pc Ø12x1mm



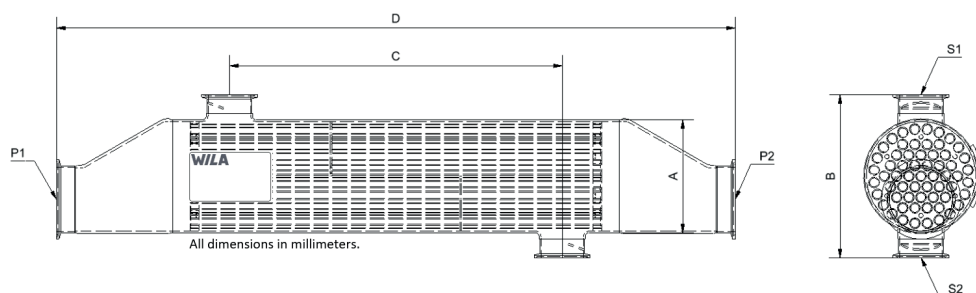
TLCX-02-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 13.5 liters		Volume 5.5 liters		316L Eccentric		Dry weight 32 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-209-150-51	W-036228	DN150	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCX-02-209-125-51	W-036229	DN125	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCX-02-209-100-51	W-036230	DN100	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCX-02-209-101-51	W-036231	Ø101.6	Ø209	Ø51	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-209-150-38	W-036232	DN150	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCX-02-209-125-38	W-036233	DN125	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCX-02-209-100-38	W-036234	DN100	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCX-02-209-101-38	W-036235	Ø101.6	Ø209	Ø38	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-209-150-50	W-036236	DN150	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCX-02-209-125-50	W-036237	DN125	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCX-02-209-100-50	W-036238	DN100	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCX-02-209-101-50	W-036239	Ø101.6	Ø209	DN50	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-02-209-150-40	W-036240	DN150	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCX-02-209-125-40	W-036241	DN125	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCX-02-209-100-40	W-036242	DN100	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCX-02-209-101-40	W-036243	Ø101.6	Ø209	DN40	266	302	777	163 pc Ø12x1mm



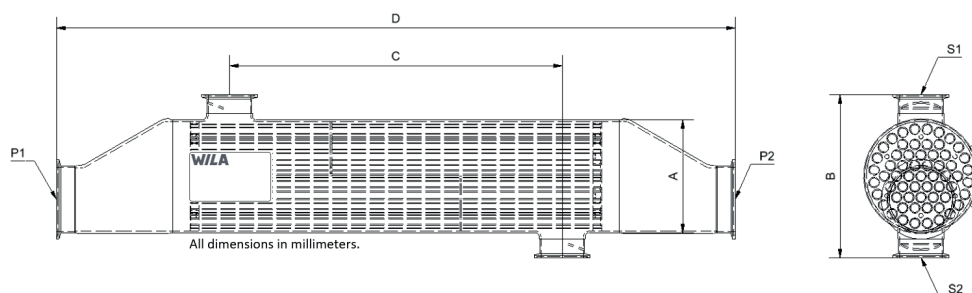
TLCX-03-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 17 liters		Volume 8.3 liters		316L Eccentric		Dry weight 46 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-209-150-51	W-036244	DN150	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-125-51	W-036245	DN125	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-100-51	W-036246	DN100	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-101-51	W-036247	Ø101.6	Ø209	Ø51	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-209-150-38	W-036248	DN150	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-125-38	W-036249	DN125	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-100-38	W-036250	DN100	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-101-38	W-036251	Ø101.6	Ø209	Ø38	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-209-150-50	W-036252	DN150	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-125-50	W-036253	DN125	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-100-50	W-036254	DN100	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCX-02-209-101-50	W-036255	Ø101.6	Ø209	DN50	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-03-209-150-40	W-036256	DN150	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-125-40	W-036257	DN125	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-100-40	W-036258	DN100	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCX-03-209-101-40	W-036259	Ø101.6	Ø209	DN40	266	514	997	163 pc Ø12x1mm



TLCX-04-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 20 liters		Volume 10.5 liters		316L Eccentric		Dry weight 56 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-63	W-036260	DN150	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-63	W-036261	DN125	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-63	W-036262	DN100	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-63	W-036263	Ø101.6	Ø209	Ø63.5	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-51	W-036264	DN150	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-51	W-036265	DN125	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-51	W-036266	DN100	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-51	W-036267	Ø101.6	Ø209	Ø51	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-38	W-036268	DN150	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-38	W-036269	DN125	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-38	W-036270	DN100	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-38	W-036271	Ø101.6	Ø209	Ø38	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-65	W-036272	DN150	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-65	W-036273	DN125	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-65	W-036274	DN100	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-65	W-036275	Ø101.6	Ø209	DN65	279	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-50	W-036276	DN150	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-50	W-036277	DN125	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-50	W-036278	DN100	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-50	W-036279	Ø101.6	Ø209	DN50	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-04-209-150-40	W-036280	DN150	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-125-40	W-036281	DN125	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-100-40	W-036282	DN100	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCX-04-209-101-40	W-036283	Ø101.6	Ø209	DN40	266	656	1144	163 pc Ø12x1mm



TLCX-06-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 25 liters		Volume 15.5 liters		316L Eccentric		Dry weight 79 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-63	W-036284	DN150	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-63	W-036285	DN125	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-63	W-036286	DN100	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-63	W-036287	Ø101.6	Ø209	Ø63.5	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-51	W-036288	DN150	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-51	W-036289	DN125	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-51	W-036290	DN100	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-51	W-036291	Ø101.6	Ø209	Ø51	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-38	W-036292	DN150	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-38	W-036293	DN125	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-38	W-036294	DN100	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-38	W-036295	Ø101.6	Ø209	Ø38	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-65	W-036296	DN150	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-65	W-036297	DN125	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-65	W-036298	DN100	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-65	W-036299	Ø101.6	Ø209	DN65	279	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-50	W-036300	DN150	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-50	W-036301	DN125	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-50	W-036302	DN100	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-50	W-036303	Ø101.6	Ø209	DN50	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-06-209-150-40	W-036304	DN150	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-125-40	W-036305	DN125	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-100-40	W-036306	DN100	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCX-06-209-101-40	W-036307	Ø101.6	Ø209	DN40	266	1020	1524	163 pc Ø12x1mm



TLCX-08-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 28.5 liters		Volume 21.5 liters		316L Eccentric		Dry weight 103 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-63	W-036308	DN150	Ø209	Ø63.5	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-63	W-036309	DN125	Ø209	Ø63.5	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-63	W-036310	DN100	Ø209	Ø63.5	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-63	W-036311	Ø101.6	Ø209	Ø63.5	279	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-51	W-036312	DN150	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-51	W-036313	DN125	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-51	W-036314	DN100	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-51	W-036315	Ø101.6	Ø209	Ø51	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-38	W-036316	DN150	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-38	W-036317	DN125	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-38	W-036318	DN100	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-38	W-036319	Ø101.6	Ø209	Ø38	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-65	W-036320	DN150	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-65	W-036321	DN125	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-65	W-036322	DN100	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-65	W-036323	Ø101.6	Ø209	DN65	279	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-50	W-036324	DN150	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-50	W-036325	DN125	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-50	W-036326	DN100	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-50	W-036327	Ø101.6	Ø209	DN50	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCX-08-209-150-40	W-036328	DN150	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-125-40	W-036329	DN125	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-100-40	W-036330	DN100	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCX-08-209-101-40	W-036331	Ø101.6	Ø209	DN40	266	1426	1939	163 pc Ø12x1mm