

TUBULAR LIQUID COOLER

DETAILED OVERVIEW FOR TYPE 'TLCXA'
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 "TLCXA" 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).
- 3-A Sanitary Standards 00-01 / 12-08

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.

TLCXA-xx-xxx-40

TLCXA **T**ubular **L**iquid **C**ooler with eccentric product side reducer with **3A** certificate.
 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

TLCXA-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

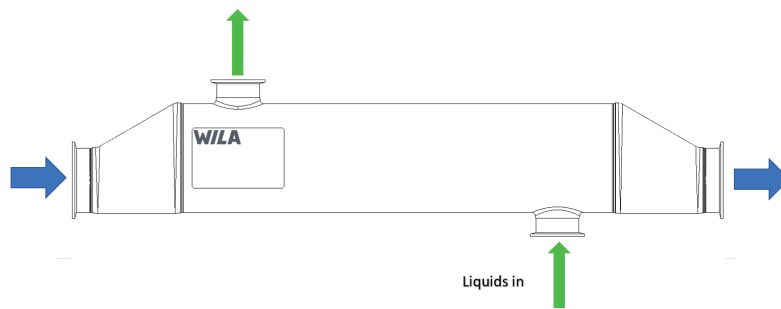
Shell side (S1 and S2) connections, both Ø129 and Ø209 are:

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.



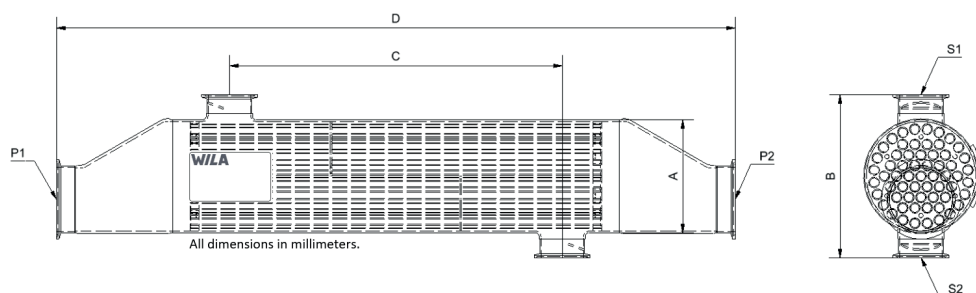
Shell side workflow

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:

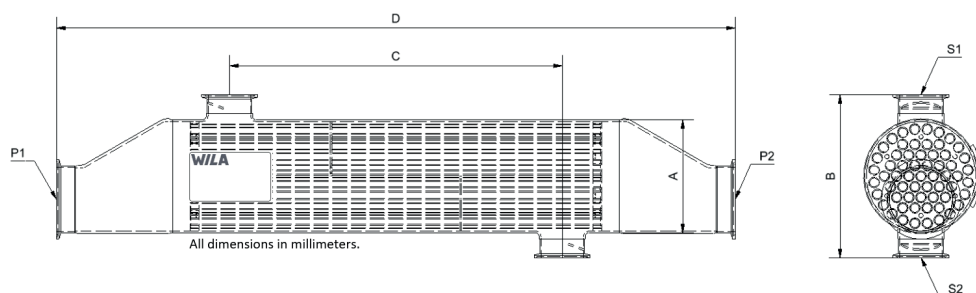
- For liquid cooler size 0.5m² the recommended maximum shell side workflow is 3 m³/h
- For liquid cooler size 1 m² the recommended maximum shell side workflow is 3 m³/h
- For liquid cooler size 2 m² the recommended maximum shell side workflow is 7 m³/h
- For liquid cooler size 3 m² the recommended maximum 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:

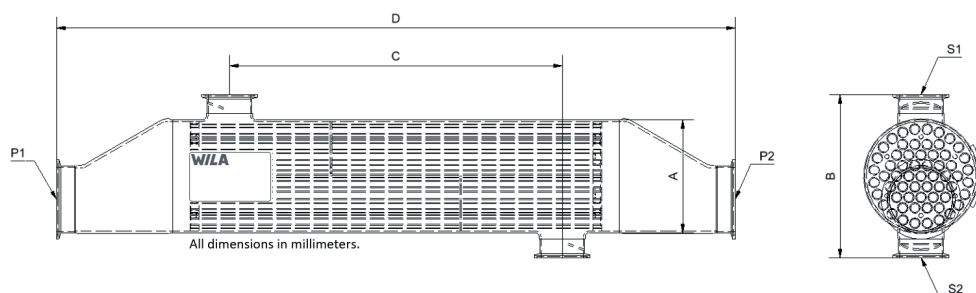
In the following group tables 'Tube bank' is data on the product tubes running paralell inside the shell.



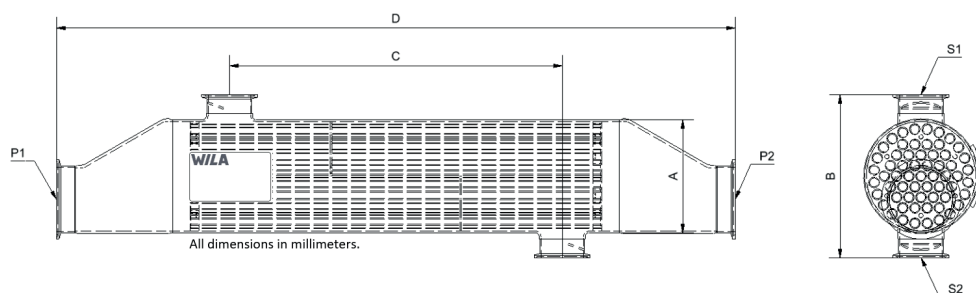
TLCXA-5-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 4.5 liters		Volume 1 liters		316L Eccentric		Dry weight 9 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-5-129-100-25	W-036707	DN100	Ø129	Ø25	186	160	540	61 pc Ø12x1mm
TLCXA-5-129-101-25	W-036708	Ø101.6	Ø129	Ø25	186	160	527	61 pc Ø12x1mm
TLCXA-5-129-080-25	W-036709	DN80	Ø129	Ø25	186	160	540	61 pc Ø12x1mm
TLCXA-5-129-076-25	W-036710	Ø76.1	Ø129	Ø25	186	160	527	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-5-129-100-21	W-036711	DN100	Ø129	Ø21.3	179	160	540	61 pc Ø12x1mm
TLCXA-5-129-101-21	W-036712	Ø101.6	Ø129	Ø21.3	179	160	527	61 pc Ø12x1mm
TLCXA-5-129-080-21	W-036713	DN80	Ø129	Ø21.3	179	160	540	61 pc Ø12x1mm
TLCXA-5-129-076-21	W-036714	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
TLCXA-5-129-100-26	W-036715	DN100	Ø129	DN25	186	160	540	61 pc Ø12x1mm
TLCXA-5-129-101-26	W-036716	Ø101.6	Ø129	DN25	186	160	527	61 pc Ø12x1mm
TLCXA-5-129-080-26	W-036717	DN80	Ø129	DN25	186	160	540	61 pc Ø12x1mm
TLCXA-5-129-076-26	W-036718	Ø76.1	Ø129	DN25	186	160	527	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-5-129-100-20	W-036719	DN100	Ø129	DN20	179	160	540	61 pc Ø12x1mm
TLCXA-5-129-101-20	W-036720	Ø101.6	Ø129	DN20	179	160	527	61 pc Ø12x1mm
TLCXA-5-129-080-20	W-036721	DN80	Ø129	DN20	179	160	540	61 pc Ø12x1mm
TLCXA-5-129-076-20	W-036722	Ø76.1	Ø129	DN20	179	160	527	61 pc Ø12x1mm



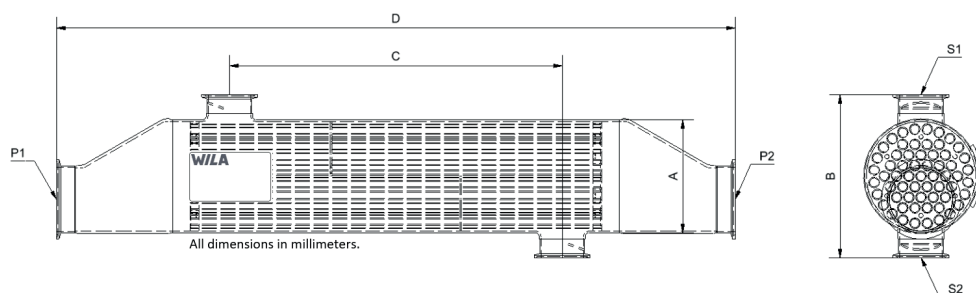
TLCXA-01-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 6 liters		Volume 2.5 liters		316L Eccentric		Dry weight 15 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-129-100-25	W-036725	DN100	Ø129	Ø25	186	408	790	61 pc Ø12x1mm
TLCXA-01-129-101-25	W-036726	Ø101.6	Ø129	Ø25	186	408	777	61 pc Ø12x1mm
TLCXA-01-129-080-25	W-036727	DN80	Ø129	Ø25	186	408	790	61 pc Ø12x1mm
TLCXA-01-129-076-25	W-036728	Ø76.1	Ø129	Ø25	186	408	777	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-129-100-21	W-036729	DN100	Ø129	Ø21.3	179	408	790	61 pc Ø12x1mm
TLCXA-01-129-101-21	W-036730	Ø101.6	Ø129	Ø21.3	179	408	777	61 pc Ø12x1mm
TLCXA-01-129-080-21	W-036731	DN80	Ø129	Ø21.3	179	408	790	61 pc Ø12x1mm
TLCXA-01-129-076-21	W-036732	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
TLCXA-01-129-100-26	W-036733	DN100	Ø129	DN25	186	408	790	61 pc Ø12x1mm
TLCXA-01-129-101-26	W-036734	Ø101.6	Ø129	DN25	186	408	777	61 pc Ø12x1mm
TLCXA-01-129-080-26	W-036735	DN80	Ø129	DN25	186	408	790	61 pc Ø12x1mm
TLCXA-01-129-076-26	W-036736	Ø76.1	Ø129	DN25	186	408	777	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-129-100-20	W-036737	DN100	Ø129	DN20	179	408	790	61 pc Ø12x1mm
TLCXA-01-129-101-20	W-036738	Ø101.6	Ø129	DN20	179	408	777	61 pc Ø12x1mm
TLCXA-01-129-080-20	W-036739	DN80	Ø129	DN20	179	408	790	61 pc Ø12x1mm
TLCXA-01-129-076-20	W-036740	Ø76.1	Ø129	DN20	179	408	777	61 pc Ø12x1mm



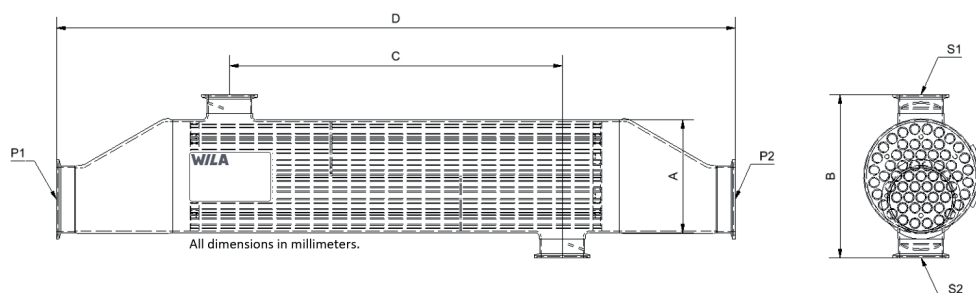
TLCXA-02-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 2.5 liters		Volume 5 liters		316L Eccentric	Dry weight 26 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-129-100-51	W-036743	DN100	Ø129	Ø51	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-101-51	W-036744	Ø101.6	Ø129	Ø51	186	886	1257	61 pc Ø12x1mm
TLCXA-02-129-080-51	W-036745	DN80	Ø129	Ø51	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-076-51	W-036746	Ø76.1	Ø129	Ø51	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-129-100-38	W-036747	DN100	Ø129	Ø38	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-101-38	W-036748	Ø101.6	Ø129	Ø38	186	886	1257	61 pc Ø12x1mm
TLCXA-02-129-080-38	W-036749	DN80	Ø129	Ø38	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-076-38	W-036750	Ø76.1	Ø129	Ø38	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-129-100-50	W-036751	DN100	Ø129	DN50	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-101-50	W-036752	Ø101.6	Ø129	DN50	186	886	1257	61 pc Ø12x1mm
TLCXA-02-129-080-50	W-036753	DN80	Ø129	DN50	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-076-50	W-036754	Ø76.1	Ø129	DN50	186	886	1257	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-129-100-40	W-036755	DN100	Ø129	DN40	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-101-40	W-036756	Ø101.6	Ø129	DN40	186	886	1257	61 pc Ø12x1mm
TLCXA-02-129-080-40	W-036757	DN80	Ø129	DN40	186	886	1270	61 pc Ø12x1mm
TLCXA-02-129-076-40	W-036758	Ø76.1	Ø129	DN40	186	886	1257	61 pc Ø12x1mm



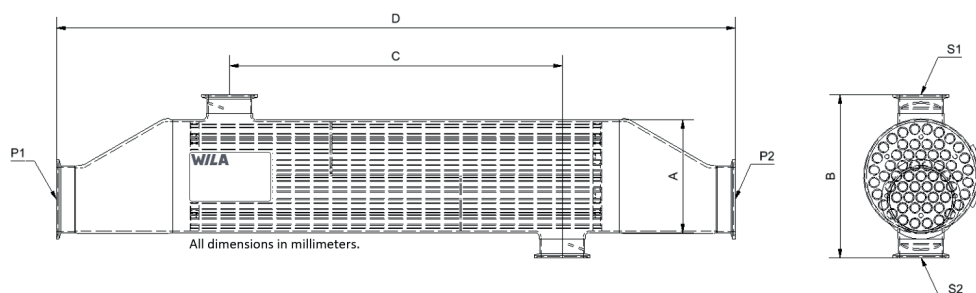
TLCXA-03-129-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 10 liters		Volume 7.5 liters		316L Eccentric	Dry weight 38 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-129-100-63	W-036763	DN100	Ø129	Ø63.5	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-63	W-036764	Ø101.6	Ø129	Ø63.5	186	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-63	W-036765	DN80	Ø129	Ø63.5	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-63	W-036766	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
TLCXA-03-129-100-51	W-036767	DN100	Ø129	Ø51	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-51	W-036768	Ø101.6	Ø129	Ø51	186	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-51	W-036769	DN80	Ø129	Ø51	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-51	W-036770	Ø76.1	Ø129	Ø51	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-129-100-38	W-036771	DN100	Ø129	Ø38	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-38	W-036772	Ø101.6	Ø129	Ø38	186	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-38	W-036773	DN80	Ø129	Ø38	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-38	W-036774	Ø76.1	Ø129	Ø38	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-129-100-65	W-036775	DN100	Ø129	DN65	199	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-65	W-036776	Ø101.6	Ø129	DN65	199	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-65	W-036777	DN80	Ø129	DN65	199	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-65	W-036778	Ø76.1	Ø129	DN65	199	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-129-100-50	W-036779	DN100	Ø129	DN50	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-50	W-036780	Ø101.6	Ø129	DN50	186	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-50	W-036781	DN80	Ø129	DN50	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-50	W-036782	Ø76.1	Ø129	DN50	186	1360	1757	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-129-100-50	W-036783	DN100	Ø129	DN40	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-101-50	W-036784	Ø101.6	Ø129	DN40	186	1360	1757	61 pc Ø12x1mm
TLCXA-03-129-080-50	W-036785	DN80	Ø129	DN40	186	1360	1770	61 pc Ø12x1mm
TLCXA-03-129-076-50	W-036786	Ø76.1	Ø129	DN40	186	1360	1757	61 pc Ø12x1mm



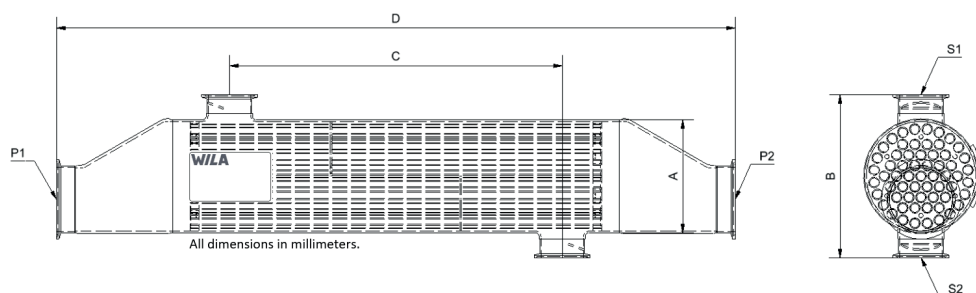
TLCXA-01-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 13 liters		Volume 3 liters		316L Eccentric		Dry weight 22 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-209-150-38	W-036793	DN150	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-125-38	W-036794	DN125	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-100-38	W-036795	DN100	Ø209	Ø38	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-101-38	W-036796	Ø101.6	Ø209	Ø38	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-209-150-25	W-036797	DN150	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-125-25	W-036798	DN125	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-100-25	W-036799	DN100	Ø209	Ø25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-101-25	W-036800	Ø101.6	Ø209	Ø25	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-209-150-40	W-036801	DN150	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-125-40	W-036802	DN125	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-100-40	W-036803	DN100	Ø209	DN40	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-101-40	W-036804	Ø101.6	Ø209	DN40	266	122	592	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-01-209-150-26	W-036805	DN150	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-125-26	W-036806	DN125	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-100-26	W-036807	DN100	Ø209	DN25	266	122	605	163 pc Ø12x1mm
TLCXA-01-209-101-26	W-036808	Ø101.6	Ø209	DN25	266	122	592	163 pc Ø12x1mm



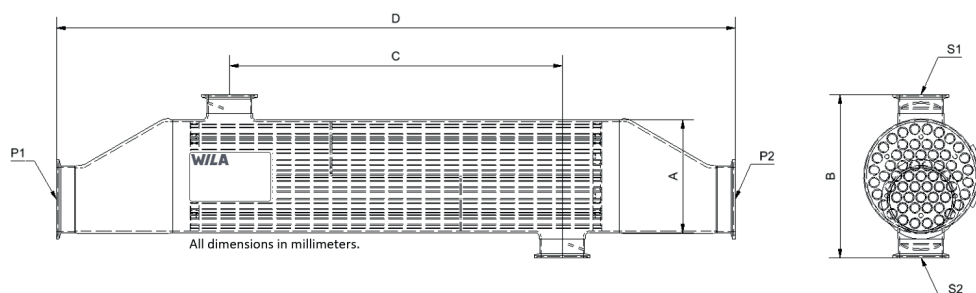
TLCXA-02-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 13.5 liters		Volume 5.5 liters		316L Eccentric	Dry weight 32 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-209-150-51	W-036815	DN150	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-125-51	W-036816	DN125	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-100-51	W-036817	DN100	Ø209	Ø51	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-101-51	W-036818	Ø101.6	Ø209	Ø51	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-209-150-38	W-036819	DN150	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-125-38	W-036820	DN125	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-100-38	W-036821	DN100	Ø209	Ø38	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-101-38	W-036822	Ø101.6	Ø209	Ø38	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-209-150-50	W-036823	DN150	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-125-50	W-036824	DN125	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-100-50	W-036825	DN100	Ø209	DN50	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-101-50	W-036826	Ø101.6	Ø209	DN50	266	302	777	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-02-209-150-40	W-036827	DN150	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-125-40	W-036828	DN125	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-100-40	W-036829	DN100	Ø209	DN40	266	302	790	163 pc Ø12x1mm
TLCXA-02-209-101-40	W-036830	Ø101.6	Ø209	DN40	266	302	777	163 pc Ø12x1mm



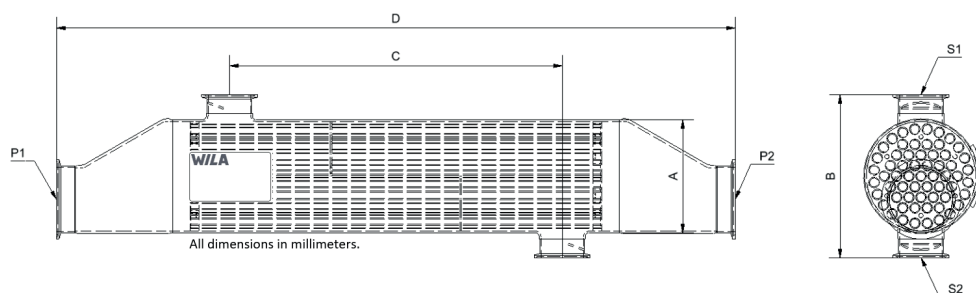
TLCXA-03-209-40		40 barg / 85°C		16 bar[g] / 95°C		Maximum pressure / temperature		
		Volume 17 liters		Volume 8.3 liters		316L Eccentric	Dry weight 46 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-209-150-51	W-036837	DN150	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-125-51	W-036838	DN125	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-100-51	W-036839	DN100	Ø209	Ø51	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-101-51	W-036840	Ø101.6	Ø209	Ø51	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-209-150-38	W-036841	DN150	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-125-38	W-036842	DN125	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-100-38	W-036843	DN100	Ø209	Ø38	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-101-38	W-036844	Ø101.6	Ø209	Ø38	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-209-150-50	W-036845	DN150	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-125-50	W-036846	DN125	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-100-50	W-036847	DN100	Ø209	DN50	266	514	1010	163 pc Ø12x1mm
TLCXA-02-209-101-50	W-036848	Ø101.6	Ø209	DN50	266	514	997	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-03-209-150-40	W-036849	DN150	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-125-40	W-036850	DN125	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-100-40	W-036851	DN100	Ø209	DN40	266	514	1010	163 pc Ø12x1mm
TLCXA-03-209-101-40	W-036852	Ø101.6	Ø209	DN40	266	514	997	163 pc Ø12x1mm



TLCXA-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
TLCXA-04-209-150-63	W-036859	DN150	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-63	W-036860	DN125	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-63	W-036861	DN100	Ø209	Ø63.5	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-63	W-036862	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
TLCXA-04-209-150-51	W-036863	DN150	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-51	W-036864	DN125	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-51	W-036865	DN100	Ø209	Ø51	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-51	W-036866	Ø101.6	Ø209	Ø51	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-04-209-150-38	W-036867	DN150	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-38	W-036868	DN125	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-38	W-036869	DN100	Ø209	Ø38	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-38	W-036870	Ø101.6	Ø209	Ø38	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-04-209-150-65	W-036871	DN150	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-65	W-036872	DN125	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-65	W-036873	DN100	Ø209	DN65	279	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-65	W-036874	Ø101.6	Ø209	DN65	279	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-04-209-150-50	W-036875	DN150	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-50	W-036876	DN125	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-50	W-036877	DN100	Ø209	DN50	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-50	W-036878	Ø101.6	Ø209	DN50	266	656	1144	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-04-209-150-40	W-036879	DN150	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-125-40	W-036880	DN125	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-100-40	W-036881	DN100	Ø209	DN40	266	656	1157	163 pc Ø12x1mm
TLCXA-04-209-101-40	W-036882	Ø101.6	Ø209	DN40	266	656	1144	163 pc Ø12x1mm



TLCXA-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
TLCXA-06-209-150-63	W-036892	DN150	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-63	W-036893	DN125	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-63	W-036894	DN100	Ø209	Ø63.5	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-63	W-036895	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
TLCXA-06-209-150-51	W-036896	DN150	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-51	W-036897	DN125	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-51	W-036898	DN100	Ø209	Ø51	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-51	W-036899	Ø101.6	Ø209	Ø51	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-06-209-150-38	W-036900	DN150	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-38	W-036901	DN125	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-38	W-036902	DN100	Ø209	Ø38	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-38	W-036903	Ø101.6	Ø209	Ø38	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-06-209-150-65	W-036904	DN150	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-65	W-036905	DN125	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-65	W-036906	DN100	Ø209	DN65	279	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-65	W-036907	Ø101.6	Ø209	DN65	279	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-06-209-150-50	W-036908	DN150	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-50	W-036909	DN125	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-50	W-036910	DN100	Ø209	DN50	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-50	W-036911	Ø101.6	Ø209	DN50	266	1020	1524	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-06-209-150-40	W-036912	DN150	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-125-40	W-036913	DN125	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-100-40	W-036914	DN100	Ø209	DN40	266	1020	1537	163 pc Ø12x1mm
TLCXA-06-209-101-40	W-036915	Ø101.6	Ø209	DN40	266	1020	1524	163 pc Ø12x1mm



TLCXA-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
TLCXA-08-209-150-63	W-036925	DN150	Ø209	Ø63.5	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-63	W-036926	DN125	Ø209	Ø63.5	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-63	W-036927	DN100	Ø209	Ø63.5	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-63	W-036928	Ø101.6	Ø209	Ø63.5	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-08-209-150-51	W-036929	DN150	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-51	W-036930	DN125	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-51	W-036931	DN100	Ø209	Ø51	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-51	W-036932	Ø101.6	Ø209	Ø51	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-08-209-150-38	W-036933	DN150	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-38	W-036934	DN125	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-38	W-036935	DN100	Ø209	Ø38	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-38	W-036936	Ø101.6	Ø209	Ø38	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-08-209-150-65	W-036937	DN150	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-65	W-036938	DN125	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-65	W-036939	DN100	Ø209	DN65	279	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-65	W-036940	Ø101.6	Ø209	DN65	279	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-08-209-150-50	W-036941	DN150	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-50	W-036942	DN125	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-50	W-036943	DN100	Ø209	DN50	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-50	W-036944	Ø101.6	Ø209	DN50	266	1426	1939	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
TLCXA-08-209-150-40	W-036945	DN150	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-125-40	W-036946	DN125	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-100-40	W-036947	DN100	Ø209	DN40	266	1426	1952	163 pc Ø12x1mm
TLCXA-08-209-101-40	W-036948	Ø101.6	Ø209	DN40	266	1426	1939	163 pc Ø12x1mm