

TUBULAR HEAT EXCHANGER

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



Dimensions overview for type Ø129 & Ø209 - 40 bar[g]

Tubular heat exchangers 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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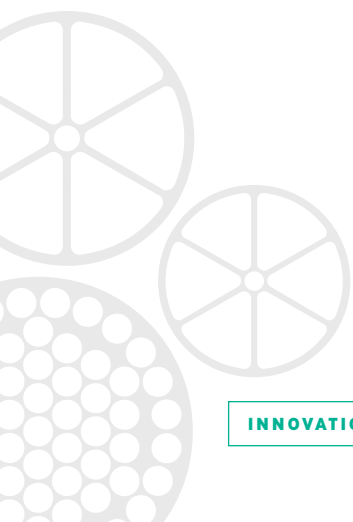
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Introduction

This overview is for Tubular Heat Exchangers manufactured by Wila A/S under the category "THEX" 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 outside surface roughness is $\leq 1,6\mu\text{m}$ and the internal tube side surface roughness is $\leq 0,8\mu\text{m}$. **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.

THEX-xx-xxx-40

THEX **Tubular Heat Exchanger** 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

THEX-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	DN100 - DN80	In accordance with DIN 32676-A
Ø129mm	4" (Ø101.6) - 3" (Ø76.1)	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:

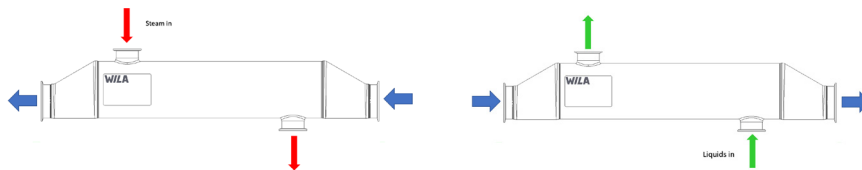
DN50 - DN40	in accordance with DIN 32676-A
2" (Ø51) - 1.5" (Ø38)	in accordance with ISO 2852-2

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 steam connections the outlet should always be at the lowest point. For liquids, the outlet should be at the highest point to ensure complete removal of air in the chamber.



Service side limits

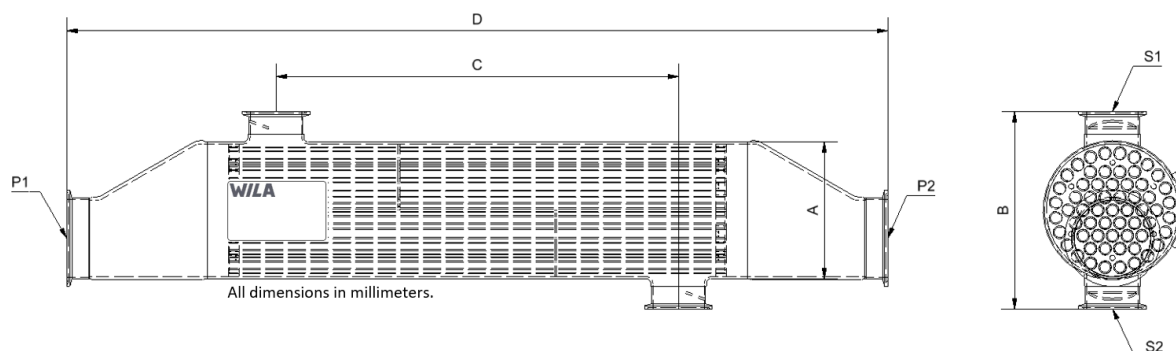
The heat exchanger's shell side maximum pressure and temperature limits are based on the maximum allowed steam pressure, which varies with the size of the heat exchanger:

1. For heat exchanger sizes 0.5m² and 1 m² these limits are respectively 10 bar[g] and 185°C
2. For heat exchanger size 2 m² these limits are respectively 8 bar[g] and 176°C
3. For heat exchanger size 3 m² these limits are respectively 6 bar[g] and 165°C
4. For heat exchanger sizes 4 m² and 6 m² these limits are respectively 3 bar[g] and 144°C
5. For heat exchanger size 8 m² these limits are respectively 2.3 bar[g] and 136°C

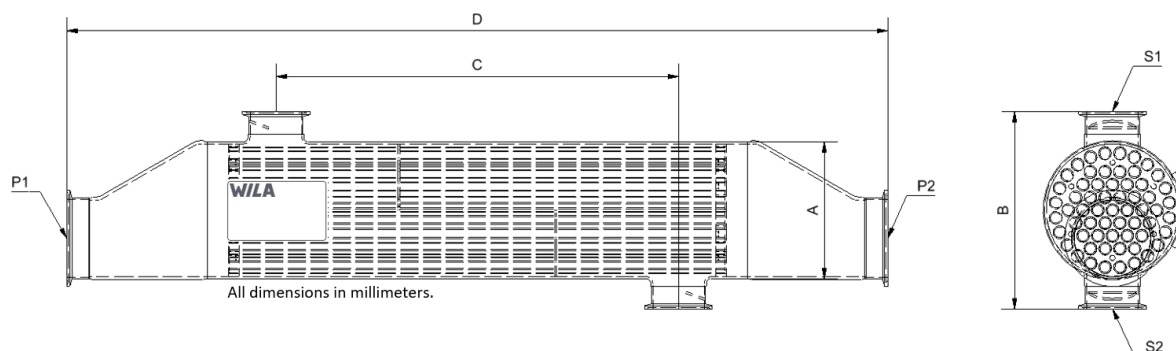
For pressure and temperature limits for other fluids than steam, see "Heat exchangers – pressure and temperature relations" document.

Note:

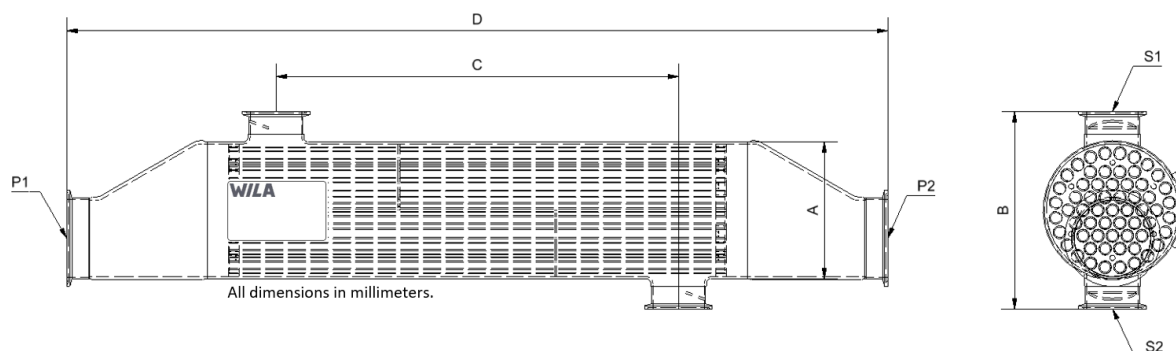
In the following group tables 'Tube bank' is data on the product tubes running paralell inside the shell.



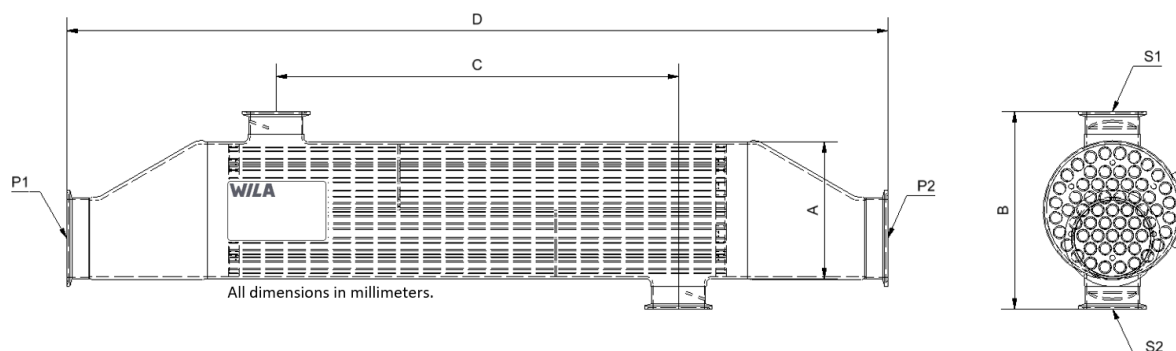
THEX-.5-I29-40		40 barg / 85°C		10 bar[g] / 185°C		Maximum pressure / Maximum temperature		
		Volume 4.5 liters		Volume 1 liters		316L Eccentric	Dry weight 9 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-.5-I29-100-51	W-015891	DN100	Ø129	Ø51	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-101-51	W-015890	Ø101.6	Ø129	Ø51	186	130	525	6l pc Ø12x1mm
THEX-.5-I29-080-51	W-015889	DN80	Ø129	Ø51	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-076-51	W-015888	Ø76.1	Ø129	Ø51	186	130	525	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-.5-I29-100-38	W-021448	DN100	Ø129	Ø38	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-101-38	W-021447	Ø101.6	Ø129	Ø38	186	130	525	6l pc Ø12x1mm
THEX-.5-I29-080-38	W-021446	DN80	Ø129	Ø38	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-076-38	W-021445	Ø76.1	Ø129	Ø38	186	130	525	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-.5-I29-100-50	W-021444	DN100	Ø129	DN50	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-101-50	W-021443	Ø101.6	Ø129	DN50	186	130	525	6l pc Ø12x1mm
THEX-.5-I29-080-50	W-021442	DN80	Ø129	DN50	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-076-50	W-021441	Ø76.1	Ø129	DN50	186	130	525	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-.5-I29-100-40	W-021440	DN100	Ø129	DN40	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-101-40	W-021439	Ø101.6	Ø129	DN40	186	130	525	6l pc Ø12x1mm
THEX-.5-I29-080-40	W-021438	DN80	Ø129	DN40	186	130	538	6l pc Ø12x1mm
THEX-.5-I29-076-40	W-021437	Ø76.1	Ø129	DN40	186	130	525	6l pc Ø12x1mm



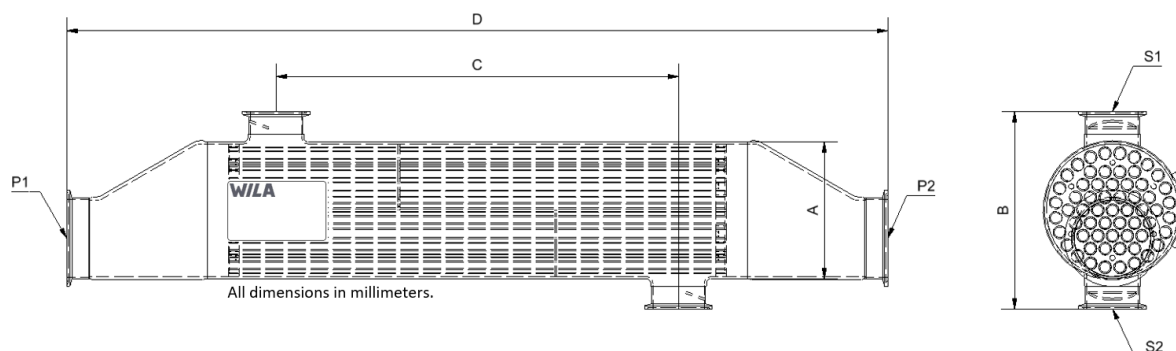
THEX-01-I29-40		40 barg / 85°C		10 bar[g] / 185°C		Maximum pressure / Maximum temperature		
		Volume 6 liters		Volume 2.5 liters		316L Eccentric		Dry weight 15 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-I29-100-51	W-015895	DN100	Ø129	Ø51	186	380	788	6l pc Ø12x1mm
THEX-01-I29-101-51	W-015894	Ø101.6	Ø129	Ø51	186	380	775	6l pc Ø12x1mm
THEX-01-I29-080-51	W-015893	DN80	Ø129	Ø51	186	380	788	6l pc Ø12x1mm
THEX-01-I29-076-51	W-015892	Ø76.1	Ø129	Ø51	186	380	775	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-I29-100-38	W-021436	DN100	Ø129	Ø38	186	380	788	6l pc Ø12x1mm
THEX-01-I29-101-38	W-021435	Ø101.6	Ø129	Ø38	186	380	775	6l pc Ø12x1mm
THEX-01-I29-080-38	W-021434	DN80	Ø129	Ø38	186	380	788	6l pc Ø12x1mm
THEX-01-I29-076-38	W-021433	Ø76.1	Ø129	Ø38	186	380	775	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-I29-100-50	W-021432	DN100	Ø129	DN50	186	380	788	6l pc Ø12x1mm
THEX-01-I29-101-50	W-021431	Ø101.6	Ø129	DN50	186	380	775	6l pc Ø12x1mm
THEX-01-I29-080-50	W-021430	DN80	Ø129	DN50	186	380	788	6l pc Ø12x1mm
THEX-01-I29-076-50	W-021429	Ø76.1	Ø129	DN50	186	380	775	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-I29-100-40	W-021428	DN100	Ø129	DN40	186	380	788	6l pc Ø12x1mm
THEX-01-I29-101-40	W-021427	Ø101.6	Ø129	DN40	186	380	775	6l pc Ø12x1mm
THEX-01-I29-080-40	W-021426	DN80	Ø129	DN40	186	380	788	6l pc Ø12x1mm
THEX-01-I29-076-40	W-021425	Ø76.1	Ø129	DN40	186	380	775	6l pc Ø12x1mm



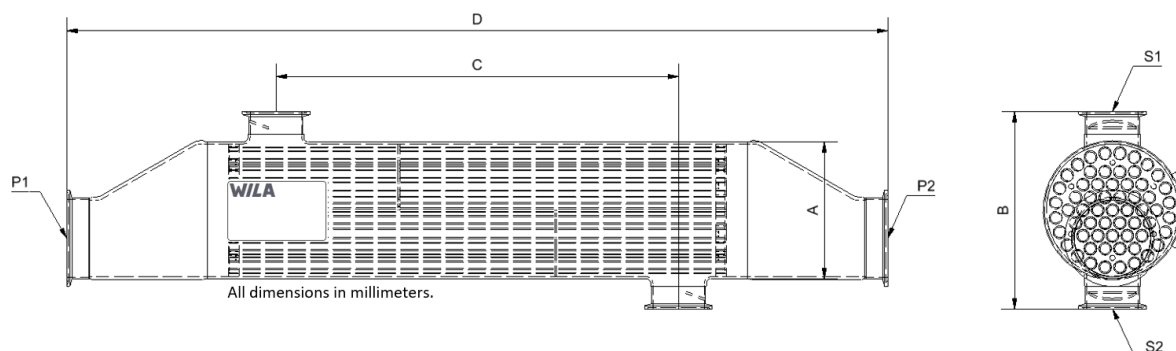
THEX-02-I29-40		40 barg / 85°C		8 bar[g] / 176°C		Maximum pressure / Maximum temperature		
		Volume 8.5 liters		Volume 5 liters		316L Eccentric		Dry weight 26 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-I29-I00-51	W-015899	DN100	Ø129	Ø51	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-I01-51	W-015898	Ø101.6	Ø129	Ø51	186	870	1255	6l pc Ø12x1mm
THEX-02-I29-080-51	W-015897	DN80	Ø129	Ø51	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-076-51	W-015896	Ø76.1	Ø129	Ø51	186	870	1255	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-I29-I00-38	W-021424	DN100	Ø129	Ø38	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-I01-38	W-018635	Ø101.6	Ø129	Ø38	186	870	1255	6l pc Ø12x1mm
THEX-02-I29-080-38	W-021422	DN80	Ø129	Ø38	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-076-38	W-018335	Ø76.1	Ø129	Ø38	186	870	1255	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-I29-I00-50	W-021420	DN100	Ø129	DN50	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-I01-50	W-021419	Ø101.6	Ø129	DN50	186	870	1255	6l pc Ø12x1mm
THEX-02-I29-080-50	W-021418	DN80	Ø129	DN50	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-076-50	W-021417	Ø76.1	Ø129	DN50	186	870	1255	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-I29-I00-40	W-021416	DN100	Ø129	DN40	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-I01-40	W-021415	Ø101.6	Ø129	DN40	186	870	1255	6l pc Ø12x1mm
THEX-02-I29-080-40	W-021414	DN80	Ø129	DN40	186	870	1268	6l pc Ø12x1mm
THEX-02-I29-076-40	W-021413	Ø76.1	Ø129	DN40	186	870	1255	6l pc Ø12x1mm



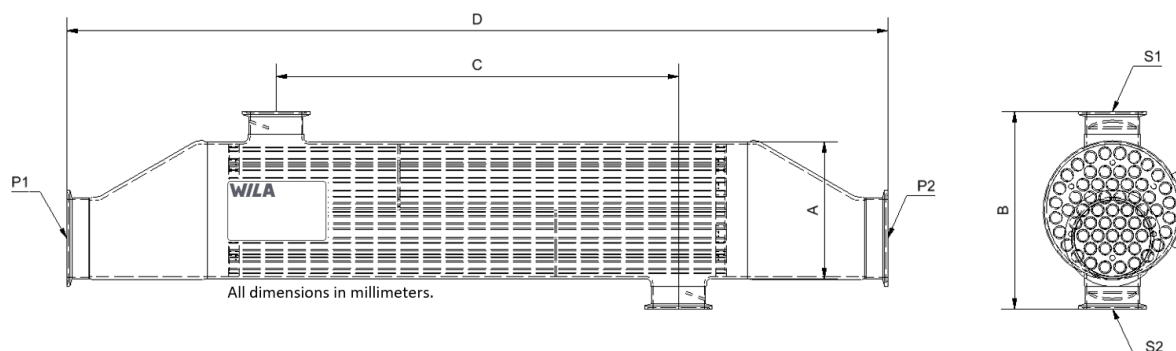
THEX-03-I29-40		40 barg / 85°C		6 bar[g] / 165°C		Maximum pressure / Maximum temperature		
		Volume 10 liters		Volume 7.5 liters		316L Eccentric		Dry weight 38 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-I29-100-51	W-015903	DN100	Ø129	Ø51	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-101-51	W-015902	Ø101.6	Ø129	Ø51	186	1360	1755	6l pc Ø12x1mm
THEX-03-I29-080-51	W-015901	DN80	Ø129	Ø51	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-076-51	W-015900	Ø76.1	Ø129	Ø51	186	1360	1755	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-I29-100-38	W-021412	DN100	Ø129	Ø38	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-101-38	W-021411	Ø101.6	Ø129	Ø38	186	1360	1755	6l pc Ø12x1mm
THEX-03-I29-080-38	W-021410	DN80	Ø129	Ø38	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-076-38	W-021409	Ø76.1	Ø129	Ø38	186	1360	1755	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-I29-100-50	W-021408	DN100	Ø129	DN50	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-101-50	W-021407	Ø101.6	Ø129	DN50	186	1360	1755	6l pc Ø12x1mm
THEX-03-I29-080-50	W-021406	DN80	Ø129	DN50	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-076-50	W-021405	Ø76.1	Ø129	DN50	186	1360	1755	6l pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-I29-100-40	W-021404	DN100	Ø129	DN40	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-101-40	W-021403	Ø101.6	Ø129	DN40	186	1360	1755	6l pc Ø12x1mm
THEX-03-I29-080-40	W-021402	DN80	Ø129	DN40	186	1360	1768	6l pc Ø12x1mm
THEX-03-I29-076-40	W-021401	Ø76.1	Ø129	DN40	186	1360	1755	6l pc Ø12x1mm



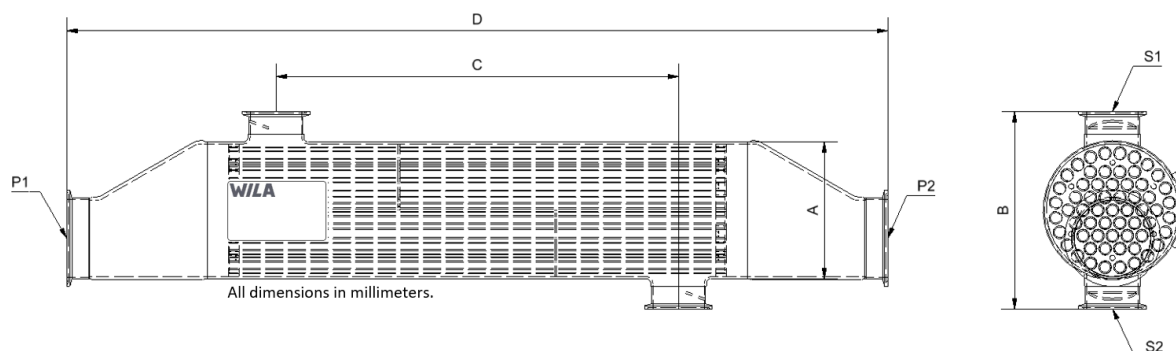
THEX-01-209-40		40 barg / 85°C		10 bar[g] / 185°C		Maximum pressure / Maximum temperature		
		Volume 13 liters		Volume 3 liters		316L Eccentric	Dry weight 22 kg	
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-209-150-51	W-015907	DN150	Ø209	Ø51	266	100	603	163 pc Ø12x1mm
THEX-01-209-125-51	W-015906	DN125	Ø209	Ø51	266	100	603	163 pc Ø12x1mm
THEX-01-209-100-51	W-015905	DN100	Ø209	Ø51	266	100	603	163 pc Ø12x1mm
THEX-01-209-101-51	W-015904	Ø101.6	Ø209	Ø51	266	100	590	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-209-150-38	W-021520	DN150	Ø209	Ø38	266	100	603	163 pc Ø12x1mm
THEX-01-209-125-38	W-021519	DN125	Ø209	Ø38	266	100	603	163 pc Ø12x1mm
THEX-01-209-100-38	W-021518	DN100	Ø209	Ø38	266	100	603	163 pc Ø12x1mm
THEX-01-209-101-38	W-019184	Ø101.6	Ø209	Ø38	266	100	590	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-209-150-50	W-021516	DN150	Ø209	DN50	266	100	603	163 pc Ø12x1mm
THEX-01-209-125-50	W-021515	DN125	Ø209	DN50	266	100	603	163 pc Ø12x1mm
THEX-01-209-100-50	W-021514	DN100	Ø209	DN50	266	100	603	163 pc Ø12x1mm
THEX-01-209-101-50	W-021513	Ø101.6	Ø209	DN50	266	100	590	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-01-209-150-40	W-021512	DN150	Ø209	DN40	266	100	603	163 pc Ø12x1mm
THEX-01-209-125-40	W-021511	DN125	Ø209	DN40	266	100	603	163 pc Ø12x1mm
THEX-01-209-100-40	W-021510	DN100	Ø209	DN40	266	100	603	163 pc Ø12x1mm
THEX-01-209-101-40	W-021509	Ø101.6	Ø209	DN40	266	100	590	163 pc Ø12x1mm



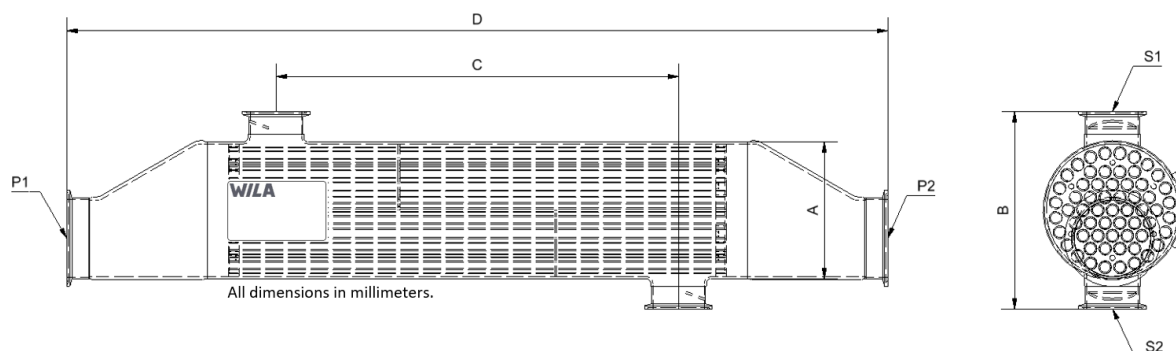
THEX-02-209-40		40 barg / 85°C		8 bar[g] / 176°C		Maximum pressure / Maximum temperature		
		Volume 13.5 liters		Volume 5.5 liters		316L Eccentric		Dry weight 32 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-209-150-51	W-015911	DNI50	Ø209	Ø51	266	290	788	163 pc Ø12x1mm
THEX-02-209-125-51	W-015910	DNI25	Ø209	Ø51	266	290	788	163 pc Ø12x1mm
THEX-02-209-100-51	W-015909	DNI00	Ø209	Ø51	266	290	788	163 pc Ø12x1mm
THEX-02-209-101-51	W-015908	Ø101.6	Ø209	Ø51	266	290	775	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-209-150-38	W-021508	DNI50	Ø209	Ø38	266	290	788	163 pc Ø12x1mm
THEX-02-209-125-38	W-021507	DNI25	Ø209	Ø38	266	290	788	163 pc Ø12x1mm
THEX-02-209-100-38	W-021506	DNI00	Ø209	Ø38	266	290	788	163 pc Ø12x1mm
THEX-02-209-101-38	W-021505	Ø101.6	Ø209	Ø38	266	290	775	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-209-150-50	W-021504	DNI50	Ø209	DN50	266	290	788	163 pc Ø12x1mm
THEX-02-209-125-50	W-021503	DNI25	Ø209	DN50	266	290	788	163 pc Ø12x1mm
THEX-02-209-100-50	W-021502	DNI00	Ø209	DN50	266	290	788	163 pc Ø12x1mm
THEX-02-209-101-50	W-021501	Ø101.6	Ø209	DN50	266	290	775	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-02-209-150-40	W-021500	DNI50	Ø209	DN40	266	290	788	163 pc Ø12x1mm
THEX-02-209-125-40	W-021499	DNI25	Ø209	DN40	266	290	788	163 pc Ø12x1mm
THEX-02-209-100-40	W-021498	DNI00	Ø209	DN40	266	290	788	163 pc Ø12x1mm
THEX-02-209-101-40	W-021497	Ø101.6	Ø209	DN40	266	290	775	163 pc Ø12x1mm



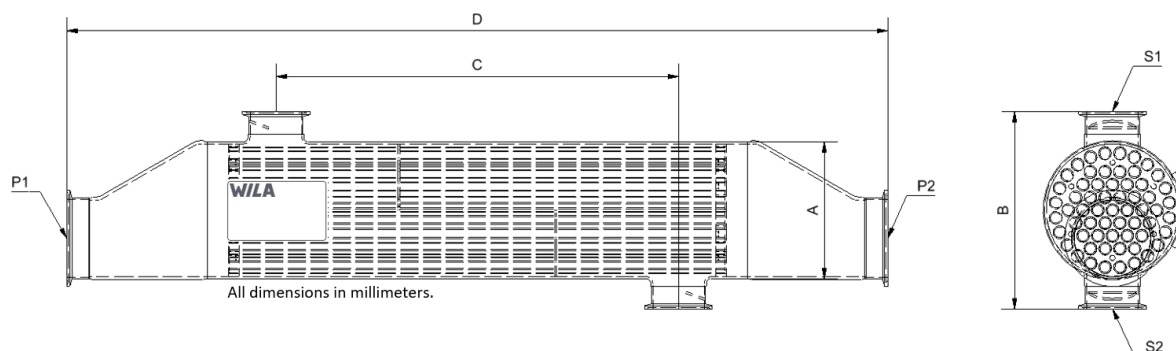
THEX-03-209-40		40 barg / 85°C		6 bar[g] / 165°C		Maximum pressure / Maximum temperature		
		Volume 17 liters		Volume 8.3 liters		316L Eccentric		Dry weight 46 kg
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-209-150-51	W-015915	DNI50	Ø209	Ø51	266	510	1008	163 pc Ø12x1mm
THEX-03-209-125-51	W-015914	DNI25	Ø209	Ø51	266	510	1008	163 pc Ø12x1mm
THEX-03-209-100-51	W-015913	DNI00	Ø209	Ø51	266	510	1008	163 pc Ø12x1mm
THEX-03-209-101-51	W-015912	Ø101.6	Ø209	Ø51	266	510	995	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-209-150-38	W-021496	DNI50	Ø209	Ø38	266	510	1008	163 pc Ø12x1mm
THEX-03-209-125-38	W-021495	DNI25	Ø209	Ø38	266	510	1008	163 pc Ø12x1mm
THEX-03-209-100-38	W-021494	DNI00	Ø209	Ø38	266	510	1008	163 pc Ø12x1mm
THEX-03-209-101-38	W-019194	Ø101.6	Ø209	Ø38	266	510	995	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-209-150-50	W-021492	DNI50	Ø209	DN50	266	510	1008	163 pc Ø12x1mm
THEX-03-209-125-50	W-021491	DNI25	Ø209	DN50	266	510	1008	163 pc Ø12x1mm
THEX-03-209-100-50	W-021490	DNI00	Ø209	DN50	266	510	1008	163 pc Ø12x1mm
THEX-03-209-101-50	W-021489	Ø101.6	Ø209	DN50	266	510	995	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-03-209-150-40	W-021488	DNI50	Ø209	DN40	266	510	1008	163 pc Ø12x1mm
THEX-03-209-125-40	W-021487	DNI25	Ø209	DN40	266	510	1008	163 pc Ø12x1mm
THEX-03-209-100-40	W-021486	DNI00	Ø209	DN40	266	510	1008	163 pc Ø12x1mm
THEX-03-209-101-40	W-021485	Ø101.6	Ø209	DN40	266	510	995	163 pc Ø12x1mm



THEX-04-209-40		40 barg / 85°C		3 bar[g] / 144°C		Maximum pressure / Maximum 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
THEX-04-209-150-51	W-015919	DN150	Ø209	Ø51	266	650	1155	163 pc Ø12x1mm
THEX-04-209-125-51	W-015918	DN125	Ø209	Ø51	266	650	1155	163 pc Ø12x1mm
THEX-04-209-100-51	W-015917	DN100	Ø209	Ø51	266	650	1155	163 pc Ø12x1mm
THEX-04-209-101-51	W-015916	Ø101.6	Ø209	Ø51	266	650	1142	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-04-209-150-38	W-021484	DN150	Ø209	Ø38	266	650	1155	163 pc Ø12x1mm
THEX-04-209-125-38	W-019642	DN125	Ø209	Ø38	266	650	1155	163 pc Ø12x1mm
THEX-04-209-100-38	W-021482	DN100	Ø209	Ø38	266	650	1155	163 pc Ø12x1mm
THEX-04-209-101-38	W-021481	Ø101.6	Ø209	Ø38	266	650	1142	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-04-209-150-50	W-021480	DN150	Ø209	DN50	266	650	1155	163 pc Ø12x1mm
THEX-04-209-125-50	W-021479	DN125	Ø209	DN50	266	650	1155	163 pc Ø12x1mm
THEX-04-209-100-50	W-021478	DN100	Ø209	DN50	266	650	1155	163 pc Ø12x1mm
THEX-04-209-101-50	W-021477	Ø101.6	Ø209	DN50	266	650	1142	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-04-209-150-40	W-021476	DN150	Ø209	DN40	266	650	1155	163 pc Ø12x1mm
THEX-04-209-125-40	W-021475	DN125	Ø209	DN40	266	650	1155	163 pc Ø12x1mm
THEX-04-209-100-40	W-021474	DN100	Ø209	DN40	266	650	1155	163 pc Ø12x1mm
THEX-04-209-101-40	W-021473	Ø101.6	Ø209	DN40	266	650	1142	163 pc Ø12x1mm



THEX-06-209-40		40 barg / 85°C		3 bar[g] / 144°C		Maximum pressure / Maximum 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
THEX-06-209-150-51	W-015923	DN150	Ø209	Ø51	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-125-51	W-015922	DN125	Ø209	Ø51	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-100-51	W-015921	DN100	Ø209	Ø51	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-101-51	W-015920	Ø101.6	Ø209	Ø51	266	1030	1522	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-06-209-150-38	W-021472	DN150	Ø209	Ø38	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-125-38	W-021471	DN125	Ø209	Ø38	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-100-38	W-021470	DN100	Ø209	Ø38	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-101-38	W-021469	Ø101.6	Ø209	Ø38	266	1030	1522	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-06-209-150-50	W-021468	DN150	Ø209	DN50	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-125-50	W-021467	DN125	Ø209	DN50	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-100-50	W-021466	DN100	Ø209	DN50	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-101-50	W-021465	Ø101.6	Ø209	DN50	266	1030	1522	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-06-209-150-40	W-021464	DN150	Ø209	DN40	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-125-40	W-021463	DN125	Ø209	DN40	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-100-40	W-021462	DN100	Ø209	DN40	266	1030	1535	163 pc Ø12x1mm
THEX-06-209-101-40	W-021461	Ø101.6	Ø209	DN40	266	1030	1522	163 pc Ø12x1mm



THEX-08-209-40		40 barg / 85°C		2.3 bar[g] / 136°C		Maximum pressure / Maximum 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
THEX-08-209-150-51	W-015927	DN150	Ø209	Ø51	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-125-51	W-015926	DN125	Ø209	Ø51	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-100-51	W-015925	DN100	Ø209	Ø51	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-101-51	W-015924	Ø101.6	Ø209	Ø51	266	1450	1937	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-08-209-150-38	W-021460	DN150	Ø209	Ø38	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-125-38	W-021459	DN125	Ø209	Ø38	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-100-38	W-021458	DN100	Ø209	Ø38	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-101-38	W-018954	Ø101.6	Ø209	Ø38	266	1450	1937	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-08-209-150-50	W-021456	DN150	Ø209	DN50	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-125-50	W-021455	DN125	Ø209	DN50	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-100-50	W-021454	DN100	Ø209	DN50	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-101-50	W-021453	Ø101.6	Ø209	DN50	266	1450	1937	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1/S2	B	C	D	Tube bank
THEX-08-209-150-40	W-021452	DN150	Ø209	DN40	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-125-40	W-021451	DN125	Ø209	DN40	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-100-40	W-021450	DN100	Ø209	DN40	266	1450	1950	163 pc Ø12x1mm
THEX-08-209-101-40	W-021449	Ø101.6	Ø209	DN40	266	1450	1937	163 pc Ø12x1mm