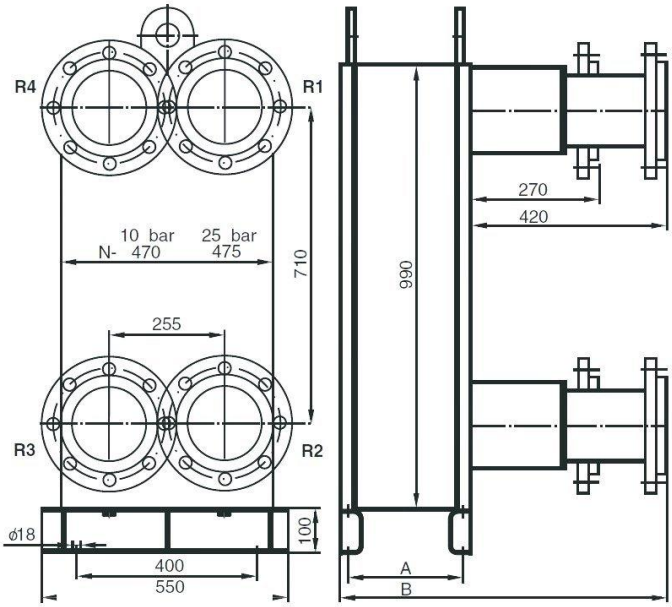
# WELDED PLATE HEAT EXCHANGER WST 30

- It can be used for all liquids and vapors in the fields of chemical and pharmaceutical industries and in all other applications outside the operating limits of gasketed PHE's
- Welded stainless steel frame and bolt-in version
- Chevron corrugation patterns
  - H - plate of High heat transfer
  - W- plate of Low pressure drop
  - HW – mixing H and W plate
- Approval : PED97/23EC, ASME




| | |
|---|---|
| Length A | 150 to770 mm |
| Length B | 410 to 1260 mm |

| Operating and Technical parameters | |
|---|---|
| Temperature | -40°C up to 250°C |
| Pressure | up to 25 bar and higher |
| Flow | up to 450 m³/h |
| Heat Transfer Surface | up to 60,8 m² |
| Connection Sizes | DN 100 (4"), DN 150 (6")*<br>* – welded frame only |
| | Stud Bolts |
| | Aseptic Connections |
| | Flange |

| Plate Material | |
|---|---|
| Standard | 1.4301 (AISI 304) |
| | 1.4404 (AISI 316 L) |
| | 1.4571 (AISI 316 Ti) |
| Special | 1.4539 (AISI 904 L) |
| | 1.4547 (SMO 254) |
| | Nickel Alloys |
| | Titan |
| | Titan-Pd |

| Frame | |
|---|---|
| | Painted Carbon Steel |
| | Stainless Steel |

| Connections | |
|---|---|
| Standard | 1.4571 (AISI 316 Ti) |
| Special | Nickel Alloys |
| | Titan |
| | Titan-PD |

For the calculation of Heat Exchanger type, for the given application is a comprehensive software available. If necessary, Design of Heat Exchanger will be calculate immediatelly for a given application, available to be performed with high accuracy using our calculation tools, based on extensive thermodynamic and hydrodynamic measurements.
Calculation is based on these parameters :

- Operating Temperature program
- Flow rate or Heatload
- Operating pressure, Allowable Pressure drop
- Flow medium or Physical properties

DN 100 (150)

WST 30

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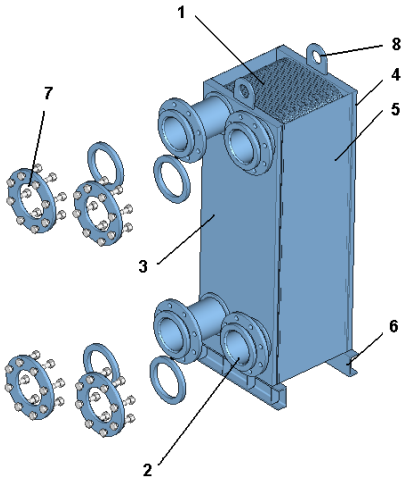
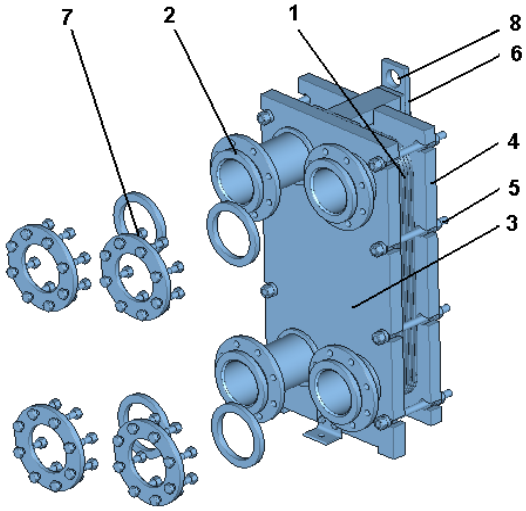



## Complete Welded design

1. - Welded heat transfer plate packet
2. - Connections (DN 100 or DN 150)
3. - Front cover plate
4. - Back cover plate
5. - Side plate
6. - Mounting bracket
7. - Counterflange (supplied on request)
8. - Hanger (handling eye)




## Frame-bolt design

1. - Welded heat transfer plate packet
2. - Connections (DN 100 only)
3. - Front cover plate
4. - Back cover plate
5. - Tightening bar
6. - Mounting bracket
7. - Counterflange (supplied on request)
8. - Hanger (handling eye)

Note:
Variants of shell and connecting is possible combine.

## MARKING – CODES (Example)

Marking of **Welded design** **WST30-80-1/1-VOHYC01**

*1 2 3 4 5*

1. **WST** - type of heat exchanger
2. **30** - size of plate
3. **80** - number of heat transfer plate
4. **1/1** - number of passes (channel 1 / channel 2)
5. Technical Design

   1.pos. Pressure level
   - **A** - up to 6 bara
   - **N** - up to 10 bara
   - **C** - up to 25 bara
   - **V** - more than 25 bara

   2.pos. and 5.pos. Material of shell
   - **.O..N** – shell of Stainless steel (shot blasting - surface is polished with glass beads)
   - **.O..C** – shell of Carbon steel - painted

   3.pos and 4.pos Channel type
   - **H** – plate of High heat transfer
   - **Y** – plate of Low pressure drop
   - **HY** – mixing H and W plate

   5.pos. Additional information about Heat Exchanger (welded neck flanges, rings with grooves,

Marking of **Frame-bolt design** **WST30-80-1/1-TBL**

*1 2 3 4 5*

1. **WST** - type of heat exchanger
2. **30** - size of plate
3. **80** - number of heat transfer plate
4. **1/1** - number of passes (channel 1 / channel 2)
5. 1.pos. Technical Design
   - **T** – with gasket ring

   2.pos. Pressure level
   - **A** - up to 6 bara
   - **B** - up to 10 bara
   - **C** - up to 16 bara
   - **D** - up to 25 bara

   3.pos Material of shell
   - **L** – shell of Carbon steel - painted
   - **N** – shell of Austenitic Stainless steel (shot blasting - surface is polished with glass beads)

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