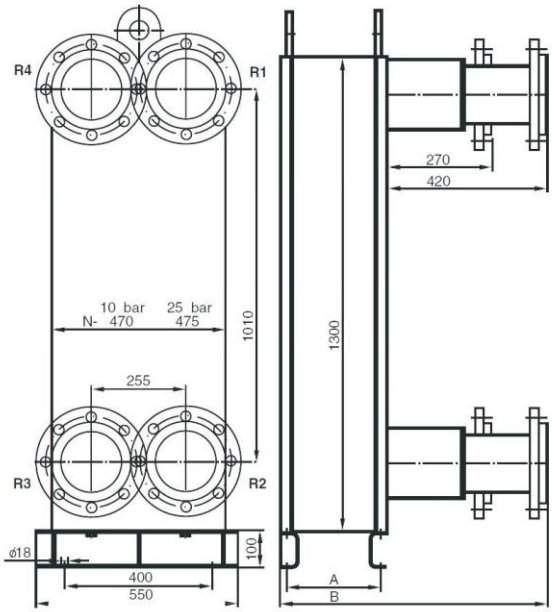
WELDED PLATE HEAT EXCHANGER WST 40

- 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 to 770 mm
Length B	410 to 1260 mm

Operating and Technical parameters	
Temperature	-40°C up to 250°C
Pressure	up to 25 and higher
Flow	up to 450 m³/h
Heat Transfer Surface	up to 91,6 m²
Connection Sizes	DN 100 (4"), DN 150 (6")* * – 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 :

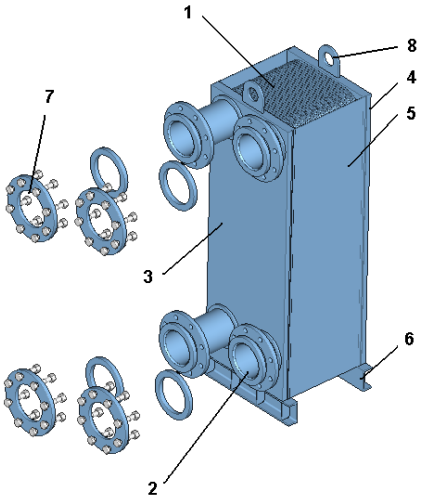
- Operating Temperature program
- Flow rate or Heatload
- Operating pressure, Allowable Pressure drop
- Flow medium or Physical properties

DN 100 (150)

WST 40

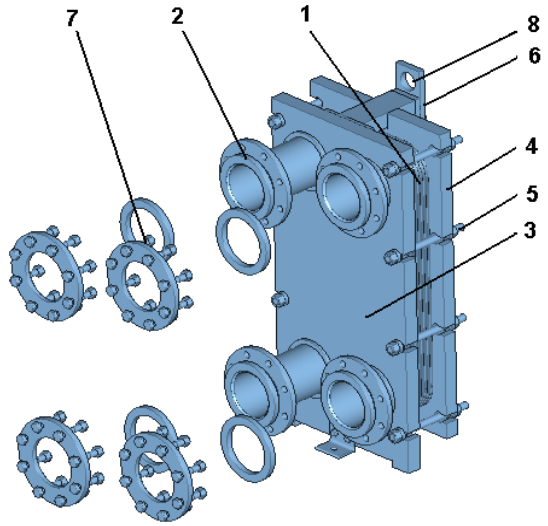
VOSMIK E&C
Makovskeho 1227/15
163 00 PRAHA 6 , Czech Republic

Tel. : +420 211 140 101
Mob. : +420 736 462 770
www.vosmik-vymeniky.cz
info@vosmik-vymeniky.cz



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: **WST40-80-1/1-VOHYC01**
1 2 3 4 5

1. **WST** - type of heat exchanger
2. **40** - 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: **WST40-80-1/1-TBL**
1 2 3 4 5

1. **WST** - type of heat exchanger
2. **40** - 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
   E - more than 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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Mob. : +420 736 462 770
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