



ECO-FRIENDLY
HEAT EXCHANGERS
HWT-H

SUITABLE FOR UP TO 30% H₂ FEED INTO THE GAS NETWORK

Heat exchangers, horizontal version

- Heat exchanger in welded steel construction combined into one pressure device
- For the preheating of gases in various systems
- Standard device in reducer stations upstream of gas pressure regulators
- Suitable for natural gas, related combustible gases, hydrogen and non-aggressive gases
- Pipe bundle tubes made of seamless carbon steel tubes
- Also available as a cooler according to the intended use

Benefits

- Suitable for up to 30% H₂ feed into the gas network
- The horizontal welded design allows for cost-efficient tube and shell heat exchangers
- Easy siting without overall height problems
- Welded or flanged tube bundles available
- Customised design with free nozzle position, selectable gas rail axis, etc.
- Optional pre-pressure-resistant water chamber design – also with hot water SSV
- Tube bundle complete or heat exchanger tubes only optionally available in stainless steel
- Standard bundle sealing on the tube plate with O-ring, optionally available with flat seal
- Version also for hot water, steam and high gas temperatures

Functional description

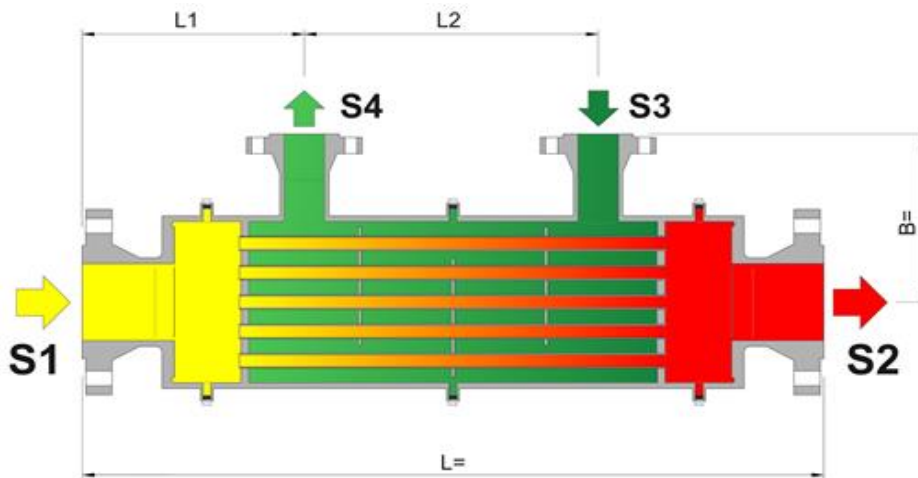
- Compensation for the Joule/Thompson effect by the heat exchanger – upstream of the gas pressure regulator
- Optimised heat transfer with adapted baffles
- Automated welding in of the bundle tubes

Design and calculation

- Design in accordance with PED2014/68/EU, EN13445, AD2000; with CE marking
- Optional design in accordance with ASME Section VIII, with/without U-stamp, further specific country codes
- Continuous application of ISO9001 with regularly audited quality system
- TEMA design applicable as standard
- NACE design possible as an option
- Process-engineering design in accordance with own adapted calculation programmes
- Optimised design of the diameters of the pipe bundle tubes according to the intended use
- Low temperature and maximum pressure design available according to customer requirements
- Preliminary examination/construction testing, material testing, non-destructive material testing in accordance with the standard
- Customer-specific acceptance requirements optionally selectable, e.g. helium leak test
- Acceptance by experts such as TÜV, Lloyd, etc., also by a customer expert

Optional accessories

- Hot water SSV SV422 in conjunction with the pre-pressure-resistant water jacket
- Pressure safety valves for gas and water, pressure gauges, thermometers
- Drain and vent cocks G1/2" for gas and water
- Temperature control of the natural gas outlet temperature, also with control cabinet
- Bypass damper control with EEx actuator for lowest possible differential pressures
- Blanking discs, insulation
- Special coating for corrosive atmosphere possible as an option



DN 1, 2 DN gas flanges may also differ; DN 3, 4 WW flange lengths variable
 Connections 5, 6, 7, 8, 9, 10 optional G ½" internal Connections 11, 12, PSV>as required

Standard sizes Customised solutions available – detailed design always in accordance with quote

HWT-H Type	heating area m ²	øD _A	DN 1,2	DN 3,4	L	B	L1	L2			
100	H500	0,41	114,3	25	850	180	220	410			
	H750	0,62			1100				640		
	H1000	0,83			1350					230	870
125	H500	0,64	139,7	80	850	210	240	370			
	H750	0,97			1100				620		
	H1000	1,30			1350					870	
150	H500	1,00	168,3	80	900	230	250	400			
	H750	1,52			1150				650		
	H1000	2,04			1400					900	
200	H500	1,75	219,1	100	950	250	290	370			
	H750	2,66			1200				620		
	H1000	3,56			1450					870	
250	H500	2,97	273,0	150	950	300	310	330			
	H750	4,51			1200				580		
	H1000	6,05			1450					810	
300	H500	4,62	323,9	200	1000	350	330	340			
	H750	7,00			1250				590		
	H1000	9,39			1500					820	
	H1250	11,77			1750						1070
	H1500	14,15			2000						
350	H500	4,80	355,6	200	1250	380	420	410			
	H750	7,30			1500				600		
	H1000	9,80			1750					850	
	H1250	12,30			2000						1100
	H1500	14,80			2500						
400	H500	6,50	406,4	250	1350	400	480	390			
	H750	9,90			1600				600		
	H1000	13,20			1850					850	
	H1250	16,60			2100						1060
	H1500	20,00			2350						
500	H500	10,20	508,0	300	1400	450	520	360			
	H750	15,50			1650				610		
	H1000	20,80			1900					820	
	H1250	26,10			2150						1030
	H1500	31,40			2400						
600	H500	15,80	610,0	400	1550	500	600	360			
	H750	23,90			1800				610		
	H1000	32,10			2050					810	
	H1250	40,20			2300						1000
	H1500	48,40			2550						
700	H500	21,60	711,0	400	1650	550	650	350			
	H750	32,20			1900				680		
	H1000	43,20			2150					710	
	H1250	54,20			2400						960
	H1500	65,20			2650						

HEAT

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