

ECO-FRIENDLY

HEAT EXCHANGERS HWT-V

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

Heat exchangers, vertical 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 vertical design enables short system lengths
- The removable tube plate guarantees easy repairs after an extensive period of operation
- Customised design with free nozzle position, selectable gas rail axis, etc.
- The easily removable tube plate minimises the costs of recurring monitoring
- 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

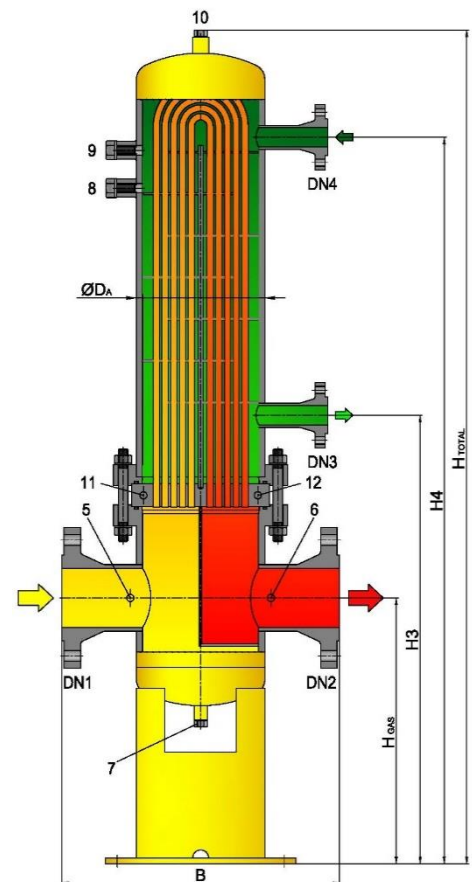
- Design in accordance with PED2014/68/EU, EN13445, AD2000; with CE marking
- Optional design in accordance with ASME Section VIII, with/without U-stamp, further specific country codes
- Continuous application of ISO9001 with regularly audited quality system
- TEMA design applicable as standard
- NACE 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 for gas and water, blanking discs, insulation
- Temperature control of the natural gas outlet temperature, also with control cabinet
- Bypass damper control with EEx actuator for low differential pressures
- Special coating for corrosive atmosphere possible as an option

Technical data

HWT-V Type	Heating area m ²	ØD _A	Connection		installation B	H _{total}	H _{Gas}	H3	H4
			DN 1,2	DN 3,4					
100	V1	0,22	114,3	25	350	1490	600	870	1270
	V2	0,32				1740			1520
	V3	0,42				1990			1770
125	V1	0,39	139,7	50	400	1510	600	880	1280
	V2	0,56				1760			1530
	V3	0,74				2010			1780
	V4	0,91				2260			2030
150	V1	0,71	168,3	80	450	1560	600	920	1329
	V2	1,04				1810			1570
	V3	1,37				2060			1820
	V4	1,70				2310			2070
	V5	2,02				2560			2320
200	V1	1,42	219,1	80	540	1600	600	950	1320
	V2	2,07				1850			1570
	V3	2,73				2100			1820
	V4	3,38				2350			2070
	V5	4,03				2600			2320
250	V1	2,50	273,0	100	620	1740	700	1100	1470
	V2	3,66				1990			1720
	V3	4,82				2240			1970
	V4	5,97				2490			2220
	V5	7,13				2740			2470
300	V1	3,81	323,9	150	700	1820	700	1160	1510
	V2	5,59				2070			1760
	V3	7,38				2320			2010
	V4	9,16				2570			2260
	V5	10,95				2820			2510
400	V1	6,26	406,4	200	850	2040	700	1320	1690
	V2	9,30				2290			1940
	V3	12,35				2540			2190
	V4	15,39				2790			2440
	V5	18,43				3040			2690
500	V1	10,72	508,0	250	950	2140	700	1400	1770
	V2	16,05				2390			2020
	V3	21,38				2640			2270
	V4	26,70				2890			2520
	V5	32,03				3140			2770
600	V1	16,10	610,0	300	1200	2400	800	1550	1950
	V2	24,30				2600			2150
	V3	32,50				2800			2350
	V4	40,70				3000			2550
	V5	48,90				3200			2750
700	V1	19,60	711,0	300	1300	2550	900	1800	2200
	V2	29,80				2750			2400
	V3	40,00				2950			2600
	V4	50,20				3150			2800
	V5	60,40				3350			3000



DN 1, 2 Gas flanges also in different nominal widths
 DN 3, 4 Hot water flange lengths according to insulation
 Connections 5, 6, 7 + 10,11,12 optional G ½" internal
 Connections 8, 9 from Ø Da 200 G ½" internal/pipe 12 mm

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

HEAT

GAS AND OIL EQUIPMENT

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