Hexonic | HEAT EXCHANGERS

HAD

SHELL & COIL HEAT EXCHANGERS

HAD
HEAT EXCHANGERS

HAD shell and coil exchanger is a fully equipped, installation-ready kit consisting of an exchanger, mount and insulation.

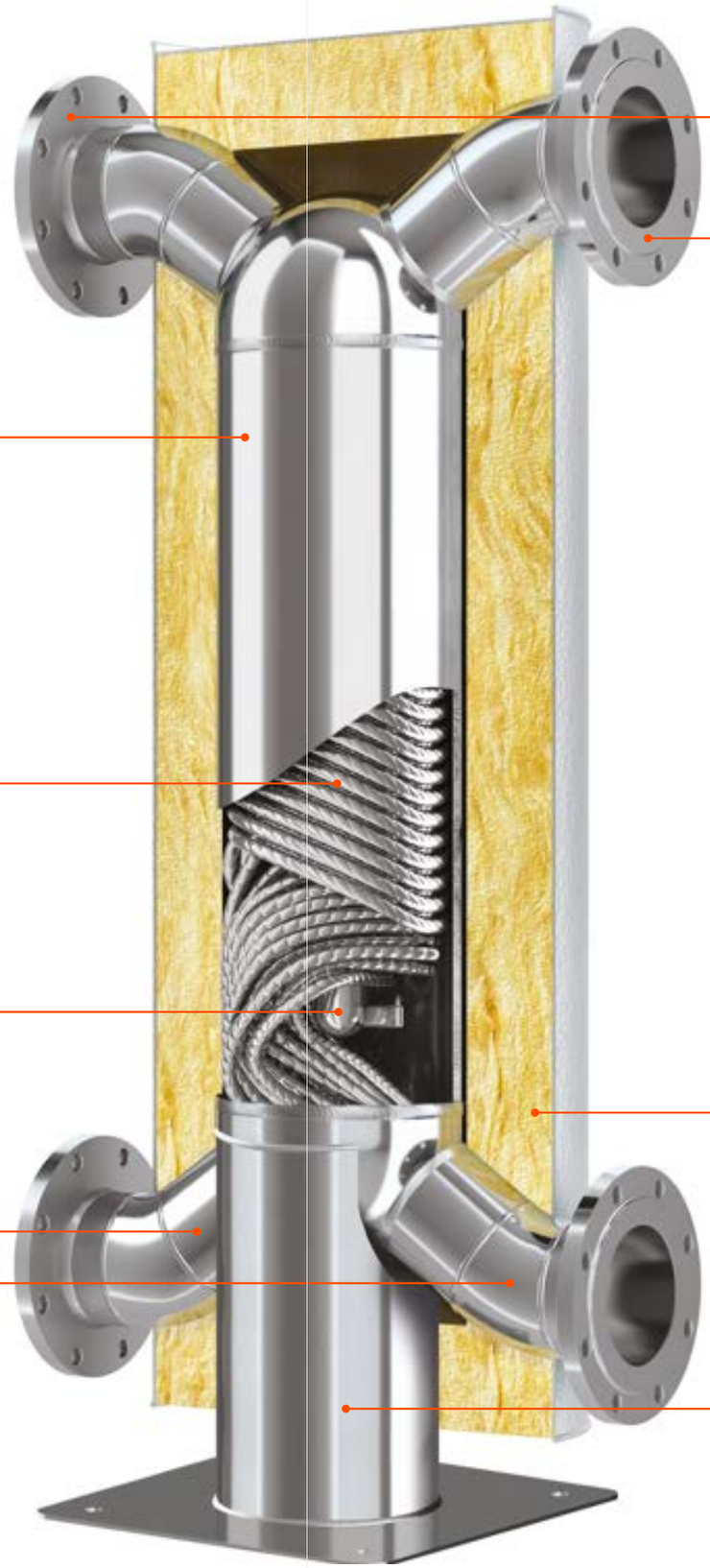
As a result of advanced design works, HAD has all the benefits of the shell and coil exchangers plus new solutions such as the horizontal position of the connections; it also comes with an insulation and a mount.

The new HAD features facilitate mounting it to a horizontal installation and shorten the whole process. Additionally HAD is a perfect solution in terms of economy, ensuring a cost-efficient solution.

WHY CHOOSE HEXONIC HAD SHELL & COIL HEAT EXCHANGERS?

- COMPACT SIZE
- LARGE HEAT EXCHANGE AREA
- LOW MAINTENANCE COSTS
- RESISTANCE TO HIGH TEMPERATURE AND PRESSURE
- HIGH PERFORMANCE
- FACTORY-INSTALLED INSULATION
- TURBULENT FLOW PROMOTED BY CORRUGATION OF TUBES
- VERTICAL INSTALLATION REDUCES SPACE REQUIREMENTS
- MANUFACTURED IN ACCORDANCE WITH ASME BPVC SECTION VIII, DIV. 1
- CAIRO USER-FRIENDLY CAIRO SELECTION SOFTWARE MAKES THE SELECTION PROCESS EASY
- WIDE RANGE OF PRODUCTS

HAD CONSTRUCTION



FLANGES

SHELL

MADE OF HIGH-ALLOY
AUSTENITIC STAINLESS STEEL

COUNTER-CURRENT
FLOW DEVICE

COIL MADE OF
CORRUGATED OR
SMOOTH TUBES

MOUNT WITH
A SMALL FOOTPRINT

CORE

INSULATION WITH PERFECT
PARAMETERS CONSISTS OF
TWO PARTS COMBINED WITH
FASTENERS, FACILITATING
INSTALLATION

HORIZONTAL
CONNECTIONS
FACILITATE
INSTALLATION

FACTORY-INSTALLED MOUNT

APPLICATION

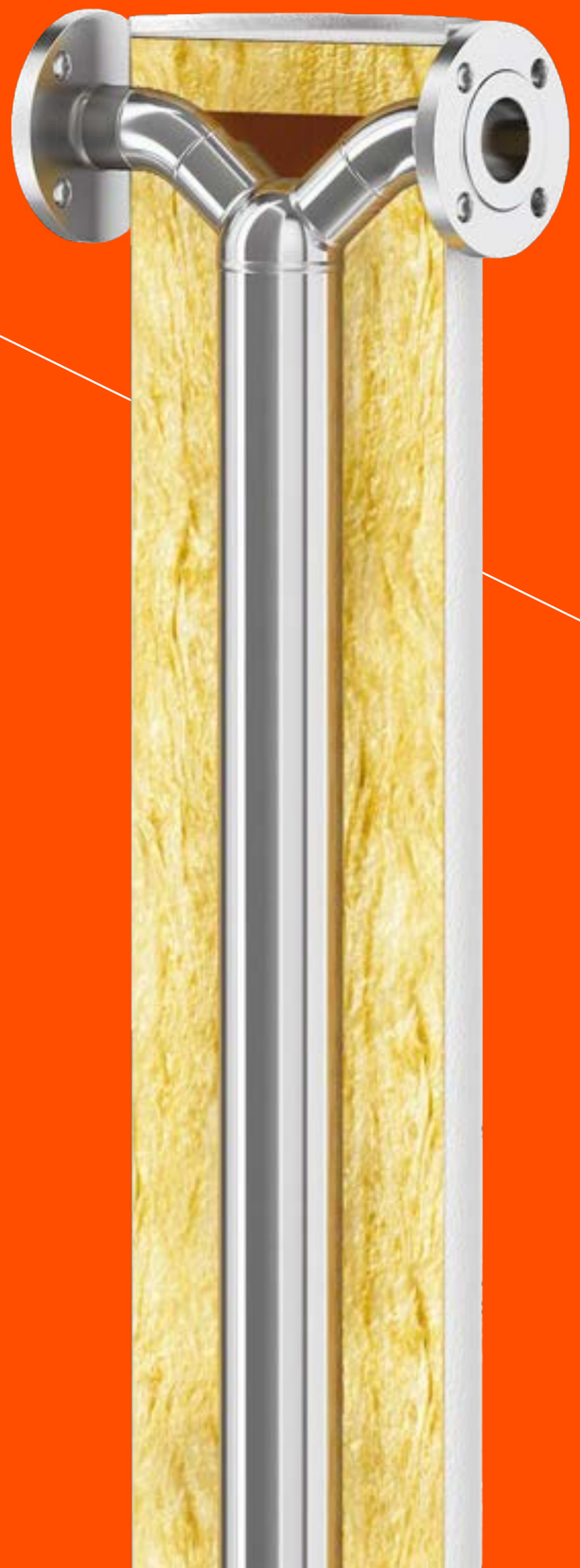
HVAC SYSTEMS

STEAM
APPLICATIONS

HEATING AND
COOLING SYSTEMS

HEAT TRANSFER
IN INDUSTRIAL
PROCESSES

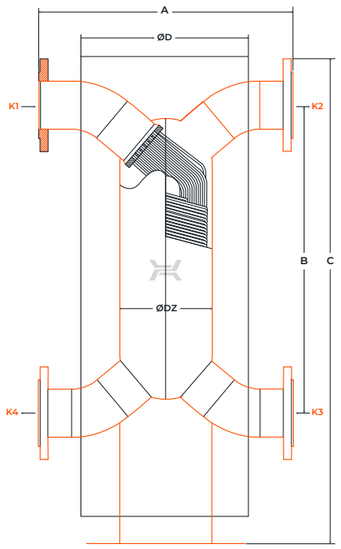
OIL COOLERS



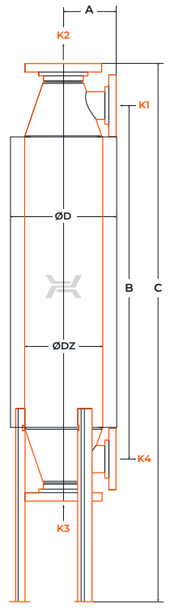
TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

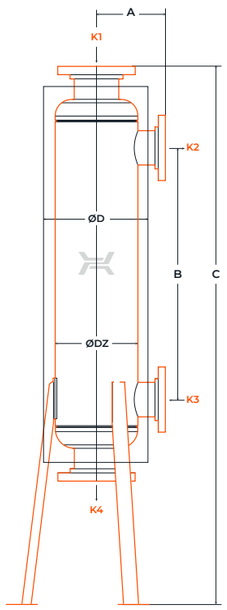
K1 / **K4** — inlet / outlet hot side
K3 / **K2** — inlet / outlet cold side



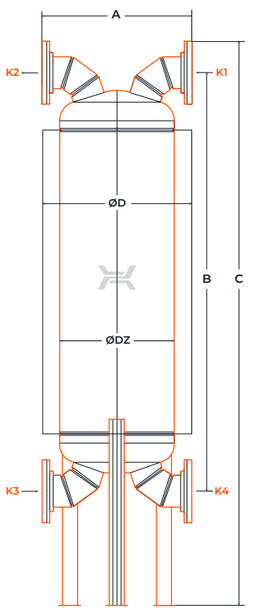
HAD 2.11.08.68 UM
HAD 2.11 UM
HAD 3.18.08.75 UM
HAD 3.18 UM
HAD 5.38.08.71 UM
HAD 5.38 UM
HAD 6.50.08.72 UM
HAD 6.50 UM
HAD 9.88.08.65 UM
HAD 9.88.08.85 UM
HAD 9.88 UM
HAD 12.114.08.50 UM
HAD 12.114.08.60 UM
HAD 12.114.08.75 UM
HAD 12.114 UM



HAD 14.163.UM



HAD 15.177.10.U
HAD 15.177.10.75.UM
HAD 15.177.10.100.U



HAD 17.217.U

MATERIALS

— TUBES AND SHELL – STAINLESS STEEL 316L
— FLANGES – STAINLESS STEEL 304L

EXEMPLARY MEDIA

— WATER
— STEAM
— OTHER

WORKING PARAMETERS

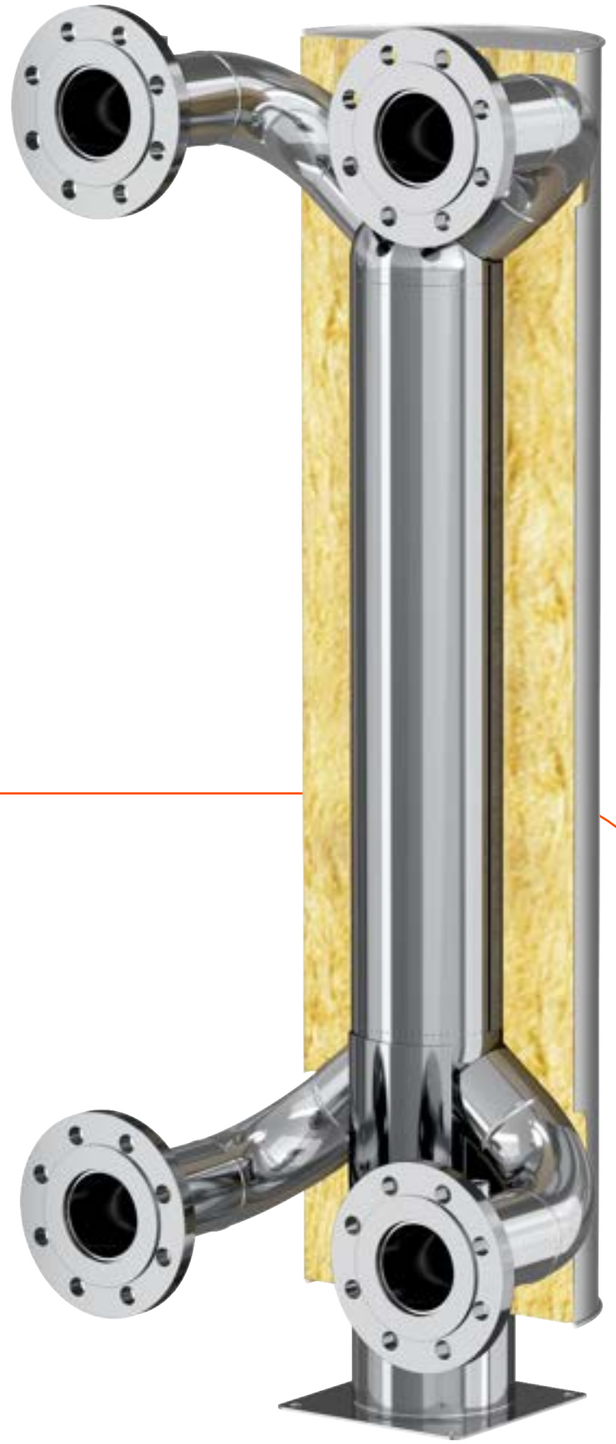
MAX. TEMPERATURE — 482°F
MIN. TEMPERATURE — -4°F

MAX. PRESSURE — 363 PSI

TECHNICAL PARAMETERS

Type	Dimensions					Heat exchange area	Tube diameter	Weight	Tube side capacity	Shell side capacity
	A	B	C	D	ØDz					
	in	in	in	in	in	ft²	in	lb	gal	gal
HAD 2.11.08.68 UM	13.7	33.9	43.1	10	3.1	6.5	0.3	47	0.4	0.4
HAD 2.11 UM	13.7	60.4	69.6	10	3.1	12.9	0.3	60	0.8	0.8
HAD 3.18.08.75 UM	15.1	37.3	47.7	10.4	4	12.9	0.3	66	0.8	0.8
HAD 3.18 UM	15.1	60.6	71	10.4	4	21.5	0.3	86	1.5	1.5
HAD 5.38.08.71 UM	17.7	37.1	49.5	12	5.6	24.7	0.3	101	1.3	2.1
HAD 5.38 UM	17.7	60.8	73.2	12	5.6	43	0.3	134	2	3.3
HAD 6.50.08.72 UM	19.5	37.8	52.2	12.6	6.3	33.4	0.3	141	1.7	3.1
HAD 6.50 UM	19.5	60.8	75.2	12.6	6.3	57	0.3	181	2.11	5.5
HAD 9.88.08.65 UM	23.8	37.7	54.9	15.2	8.6	52.7	0.3	240	2.6	6.4
HAD 9.88.08.85 UM	23.8	45.5	62.8	15.2	8.6	66.7	0.3	269	3	7.5
HAD 9.88 UM	23.8	61.1	78.3	15.2	8.6	115.1	0.3	344	5.1	8.6
HAD 12.114.08.50 UM	26.4	32.9	50.6	17.5	10.7	67.8	0.3	313	3.1	9.1
HAD 12.114.08.60 UM	26.4	36.8	54.6	17.5	10.7	69.9	0.3	324	3.4	10.5
HAD 12.114.08.75 UM	26.4	42.8	60.5	17.5	10.7	94.7	0.3	362	3.6	11.7
HAD 12.114 UM	26.4	68.3	86	17.5	10.7	198	0.3	518	6.3	15.9
HAD 14.163.UM	8.66	57.76	88.11	17.99	12.75	258	0.315	452	10.4	12.84
HAD 15.177.10.U	13.39	48.62	103.9	20.02	16	382	0.394	1135	21.42	34.03
HAD 15.177.10.75.UM	13.39	19.09	74.41	20.02	16	177	0.394	705	13.68	17.17
HAD 15.177.10.100.U	13.39	28.94	84.25	20.02	16	242	0.394	848	17.3	24.04
HAD 17.217.U	26.38	73.03	98.48	26.73	20	628	0.315	987	22.48	63.4

All dimensions and technical data are approximate only and may be changed without further notice.



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STANDARD LOCATION OF CONNECTIONS

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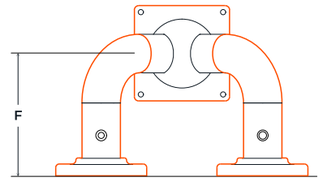

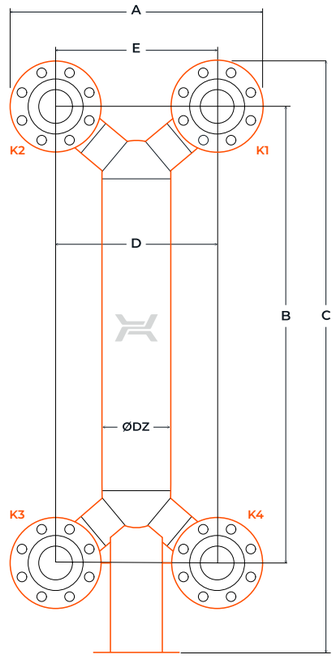

TECHNICAL PARAMETERS

Type	Dimensions							Heat exchange area	Tube diameter	Weight	Tube side capacity	Shell side capacity
	A	B	C	D	E	F	ØDz					
	in	in	in	in	in	in	in	ft²	in	lb	gal	gal
HAD 2.11.08.68.AF.UM	11.34	37.41	44.85	9.65	17.45	12.41	3.15	6.50	0.30	68.34	0.40	0.40
HAD 2.11.AF.UM	11.34	63.86	71.30	9.65	17.45	12.41	3.15	12.90	0.30	90.39	0.80	0.80
HAD 3.18.08.75.AF.UM	12.29	40.75	49.45	10.44	18.78	13.59	4.00	12.90	0.30	88.18	0.80	0.80
HAD 3.18.AF.UM	12.29	64.10	72.76	10.44	18.78	13.59	4.00	21.50	0.30	121.30	1.50	1.50
HAD 5.38.08.71.AF.UM	13.00	40.00	50.95	12.01	20.48	14.57	5.50	24.80	0.30	112.40	1.30	2.10
HAD 5.38.AF.UM	13.00	63.71	74.61	12.01	20.48	14.57	5.50	43.10	0.30	149.90	2.00	3.20
HAD 6.50.08.72.AF.UM	14.69	41.50	53.74	12.60	22.96	15.56	6.26	33.40	0.30	174.20	1.60	3.00
HAD 6.50.AF.UM	14.69	64.53	76.78	12.60	22.96	15.56	6.26	57.00	0.30	224.90	2.10	5.40
HAD 9.88.08.65.AF.UM	19.14	42.60	57.41	15.16	29.18	18.08	8.63	52.70	0.30	277.80	2.50	6.30
HAD 9.88.08.85.AF.UM	19.14	50.48	65.28	15.16	29.18	18.08	8.63	66.70	0.30	317.50	3.00	7.40
HAD 9.88.AF.UM	19.14	60.03	80.79	15.16	29.18	18.08	8.63	115.20	0.30	396.80	5.00	8.50
HAD 12.114.08.50.AF.UM	24.18	38.19	53.98	17.13	36.68	20.08	10.75	67.80	0.30	348.30	3.10	9.10
HAD 12.114.08.60.AF.UM	24.18	42.13	58.19	17.13	36.68	20.08	10.75	70.00	0.30	363.80	3.30	10.40
HAD 12.114.08.75.AF.UM	24.18	48.04	63.86	17.13	36.68	20.08	10.75	94.70	0.30	407.90	3.60	11.60
HAD 12.114.AF.UM	24.18	73.63	90.12	17.13	36.68	20.08	10.75	198.10	0.30	588.60	6.30	15.70

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CONNECTIONS

Type	Connection
HAD 2.11.08.68 UM	1 ½''
HAD 2.11 UM	1 ½''
HAD 3.18.08.75 UM	2''
HAD 3.18 UM	2''
HAD 5.38.08.71 UM	2 ½''
HAD 5.38 UM	2 ½''
HAD 6.50.08.72 UM	3''
HAD 6.50 UM	3''
HAD 9.88.08.65 UM	4''
HAD 9.88.08.85 UM	4''
HAD 9.88 UM	4''
HAD 12.114.08.50 UM	5''
HAD 12.114.08.60 UM	5''
HAD 12.114.08.75 UM	5''
HAD 12.114 UM	5''
HAD 14.163.UM	K1/K4: 4" CL 300 SORF; K2/K3: 6" CL 300 SORF
HAD 15.177.10.U	K1/K4: 8" CL 300 SORF; K2/K3: 6" CL 300 SORF
HAD 15.177.10.75.UM	K1/K4: 8" CL 300 SORF; K2/K3: 6" CL 300 SORF
HAD 15.177.10.100.U	K1/K4: 8" CL 300 SORF; K2/K3: 6" CL 300 SORF
HAD 17.217.U	K1/K4: 5" CL 300 SORF; K2/K3: 5" CL 300 SORF

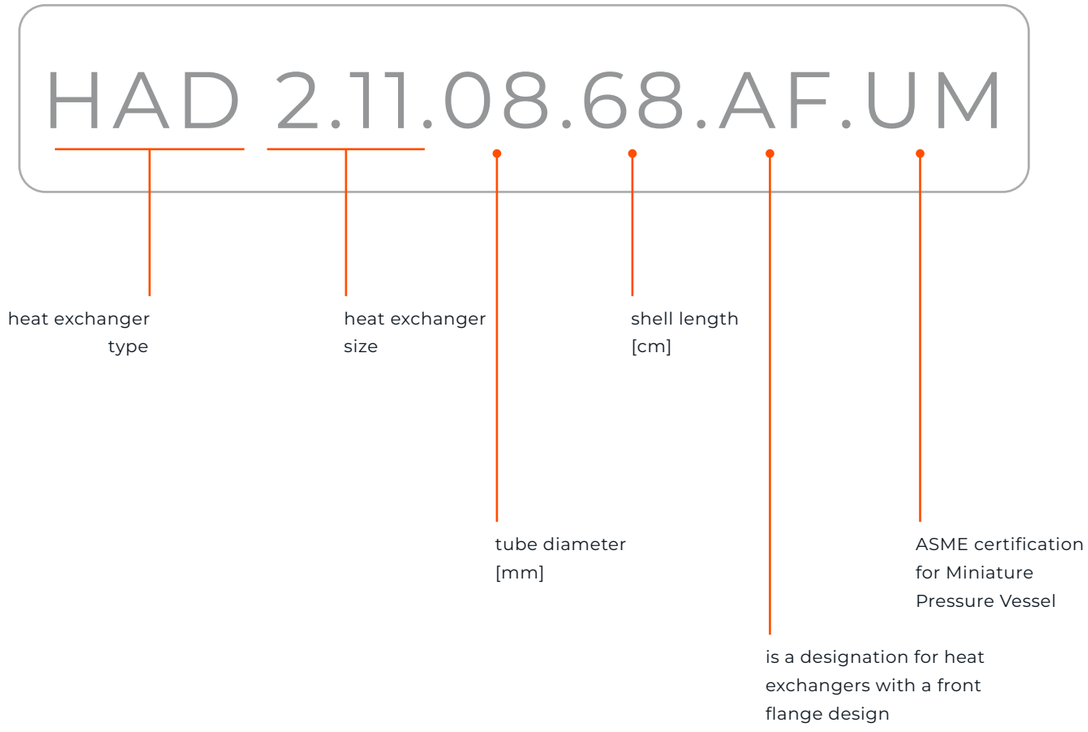
Flanges: ASME B 16.5

INSULATION AMWI

MINERAL WOOL INSULATION COVERED WITH ALUMINIUM

- MAX. WORKING TEMPERATURE: 482°F
- THICKNESS: 3.15 IN
- THERMAL CONDUCTIVITY AT MAX. TEMPERATURE: 0.474 BTU/FT

EXEMPLAR DESIGNATION



PRODUCT LINE

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US.ver.1.2026