



INDUSTRIAL SOLUTIONS

BOILER FLEX

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GENERAL FEATURES

The corrugation creates a turbulent flow in the hose, which has a growing impact on the transfer of heat. An assessment of the laminar flow, the temperature stratification is reversed and the flow rate with inside the middle of the hose is decreased. These outcomes significantly enhance the exchanger performance, with extra than 50% extra performance as compared to the traditional tube.

With the engineering skills, Ayvaz is in a role to develop and produce the hose coil and housing as a unit. The platforms are uniquely customized to the most complex consumer needs and purposes. The heat exchangers are scalable in length and can be supplied with metal housings as well as with a wide range of connections.

Excellent Performance



Ayvaz, the market leader in the field of flexible, metallic elements, also offers creative solutions for heat exchangers. Due to its structure, the metal hose provides high heat exchanger performance. The thin-walled and flexible metal hoses are extremely robust and, thanks to their wave profile, offer an enlarged heat transfer surface.

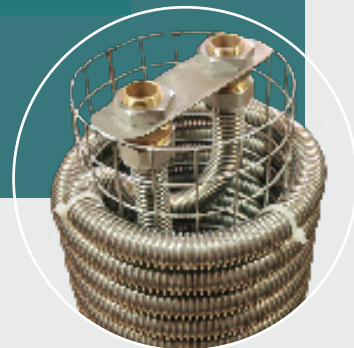
Compared to classic, smooth-surfaced versions, corrugated hoses provide a greater surface area with negligibly higher performance and likewise higher reliability. This means that even in fast installation situations, powerful, compact, and lightweight exchangers can be installed.

- AISI 316L-1.4404
- Three Types of hose pitch
- Standard, AGA Type, V-Type
- Various type of connection
- From DN 12- DN 50
- With or without cage on demand
- Min. cage diameter 200 mm. for wider size can be manufactured on customer request.
- Min. height of the cage 500 mm. for higher size can be manufactured on customer request.





Optimal Safety, Productivity and Cleanliness



ADVANTAGES

- Parallel corrugated structure of the hose provides almost doubled surface area in comparison with rigid pipe applications. Greater surface area means better heat transfer capacity and higher efficiency. Spiral corrugation is also available.
- Boiler-flex systems are economical, energy saving applications.
- Hose corrugations keep moving as a result of constant thermal expansion and compression, this movement prevents the lime and residue formation on the hose surface and provides longer service life.
- Stainless steel (AISI 316L) hose is suitable for drinking water application and highly resistant to corrosion.
- With the help of flexibility and low bending radius, the hose can be formed in any form required for various applications.

ALL TYPES

STANDART - NORMAL PITCH - AS TYPE									
Diameter	Wall Thick-ness	D	d	Tolerans (D-d)	rmin (mm)	rn (mm)	PN Bar	Internal Diameter	External Diameter
DN 12	0,15	16,2	12,2	±0,2	20	140	16	0,160 dm ³	0,079 m ²
DN 16	0,20	20,8	15,6	±0,2	28	160	16	0,252 dm ³	0,107 m ²
DN 20	0,20	24,9	18,8	±0,2	32	170	12	0,366 dm ³	0,126 m ²
DN 25	0,20	31,3	24,6	±0,2	40	190	10	0,599 dm ³	0,201 m ²
DN 32	0,22	41,1	33,7	±0,3	50	260	10	1,089 dm ³	0,260 m ² v
DN40	0,40	49,8	40,8	±0,3	58	290	10	1,575 dm ³	0,241 m ²
DN 50	0,50	60,8	50,5	±0,3	68	300	8	2,421 dm ³	0,319 m ²



OPEN PITCH - AGA TYPE									
Diameter	Wall Thick-ness	D	d	Tolerans (D-d)	rmin (mm)	rn (mm)	PN Bar	Internal Diameter	External Diameter
DN 12	0,20	15,8	11,6	±0,2	20	165	16	0,142 dm ³	0,068 m ²
DN 16	0,18	21,3	16,6	±0,2	25	195	16	0,274 dm ³	0,086 m ²
DN 20	0,18	26,4	20,9	±0,2	30	225	12	0,442 dm ³	0,112 m ²
DN 25	0,30	30,7	24	±0,2	35	260	12	0,575 dm ³	0,160 m ²
DN 25	0,20	31,25	24,5	±0,2	35	260	10	0,598 dm ³	0,147 m ²
DN 32	0,30	39,8	32,7	±0,3	40	300	10	1,018 dm ³	0,192 m ²



WIDE OPEN PITCH - V TYPE									
Diameter	Wall Thickness	D	d	Tolerans (D-d)	rmin (mm)	PN Bar	Internal Diameter	External Diameter	External Diameter
DN 25	0,20	31,7	27,2	±0,2	45	10	0,673 dm ³	0,128 m ²	
DN 25	0,30	24,8	24,8	±0,2	45	12	0,578 dm ³	0,143 m ²	
DN 32	0,30	35,1	35,1	±0,3	60	10	1,093 dm ³	0,167 m ²	
DN 40	0,40	42	42	±0,3	75	10	1,623 dm ³	0,208 m ²	





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