

G SERIES

HEAT EXCHANGER FOR EXHAUST GAS COOLING



The G series heat exchanger is a specially designed heat exchanger for thermal energy recovery from exhaust gases. Its design is based on the traditional K series but with dimensions optimized to exhaust gas cooling applications. The G series has corrugated inner tubes, ensuring higher heat transfer than smooth tube designs. This means that heat exchanger length and pressure drops can be kept to a minimum.

APPLICATIONS:

- Heat recovery from:
- Cogeneration exhaust gas.
 - Boiler exhaust gas.
 - Industrial exhaust gas / flue gas.

MATERIALS:

Shell side: AISI 304 stainless steel.
Tube side: AISI 316L stainless steel.

CONNECTIONS:

Shell side: DIN flange.
Tube side: Tubeplate-DIN flange.

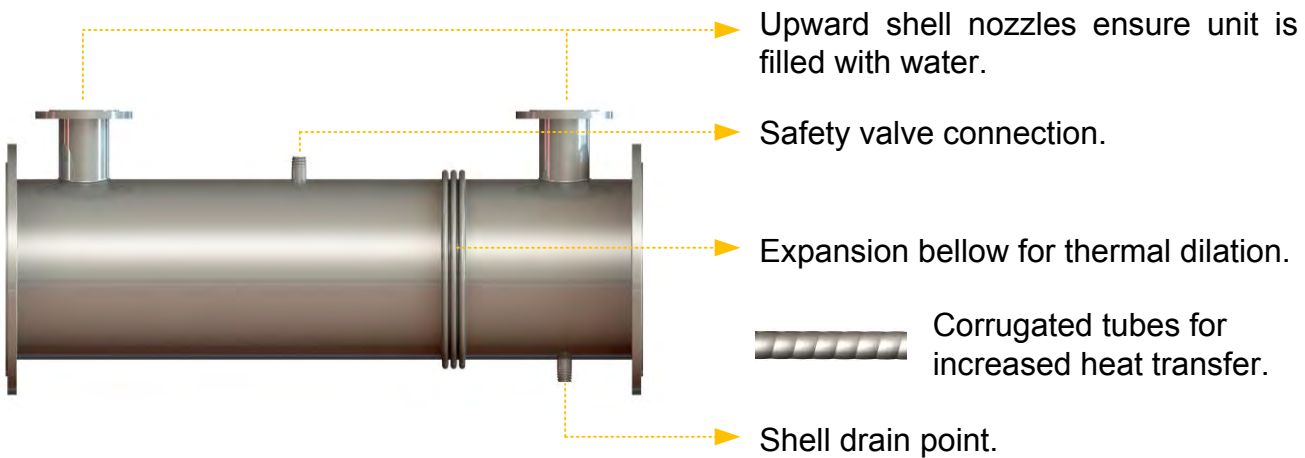
FINISHING:

Shell side: Matt.
Tube side: Matt.

DESIGN CONDITIONS:

Temp: 550 °C.
Press: 2/4 barg (tube/shell).

FEATURES:



RANGE:

Models:	Nr tubes	Lengths (m)	Surface area (m ²)	Shell side Connection	Tube side Connection	Max flow shell (m ³ /hr)	Volume shellside (L)	Volume tubeside (L)
G 31 272/34	31	1,5 – 3,0	9,7	DN65	DN250	45	82,8	73,3
G 42 323/34	42	1,5 – 3,0	13,2	DN80	DN300	55	121,1	99,3
G 73 406/34	73	1,5 – 3,0	22,9	DN100	DN400	85	176,6	172,6
G 90 457/34	90	1,5 – 3,0	28,3	DN100	DN450	85	231,3	212,7
G 114 508/34	114	1,5 – 3,0	35,8	DN125	DN500	130	280,5	269,5
G 168 609/34	168	1,5 – 3,0	52,7	DN150	DN600	180	395,3	397,1
G 270 762/34	270	1,5 – 3,0	85,8	DN200	DN750	320	606,2	638,2

Custom lengths between 1,5 and 3,0 m can be supplied.
The surface area and volumes shown are for 3,0 meter lengths models. Shell side nozzle volumes are included.

To find out more about HRS Heat Exchangers contact us at:

©2013 HRS Heat Exchangers.
All rights reserved.

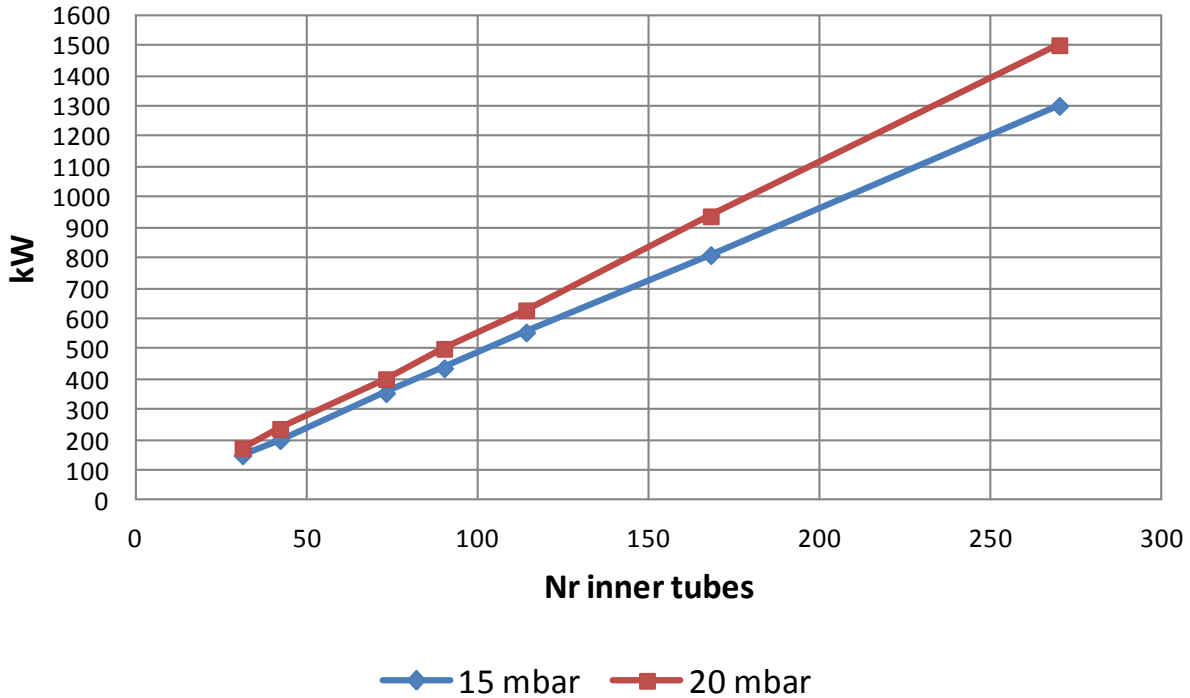
Tel: +44 1923 23232335 / +34 968 676 157

www.hrs-heatexchangers.com
info@hrs-heatexchangers.com

G SERIES

PERFORMANCE CHARTS

Tubes length: 1,5 m.
 Tube side: cooling cogeneration exhaust from 500 to 210 °C.
 Shell side: heating water from 80 to 90 °C.
 kW heat recovery for 15 and 20 mbar pressure drop on gas side.



Tubes length: 3,0 m.
 Tube side: cooling cogeneration exhaust from 500 to 120 °C.
 Shell side: heating water from 80 to 90 °C.
 kW heat recovery for 20 and 30 mbar pressure drop on gas side.

