

HRS G SERIES

GAS COOLING HEAT EXCHANGER



The HRS G Series is a complete stainless steel shell and tube heat exchanger designed specifically for exhaust gas cooling and thermal recovery applications. Similar to the HRS K Series, the exhaust gases flow through the interior tubes and the media fluid flows through the surrounding shell. Using our corrugation technology, heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition potential fouling is minimised.

MATERIALS OF CONSTRUCTION

Shell Side: AISI 304 Stainless Steel
 Tube Side: AISI 316L Stainless Steel

STANDARD CONNECTIONS

Shell Side: Flange
 Tube Side: Tubeplate Flange

SURFACE FINISH

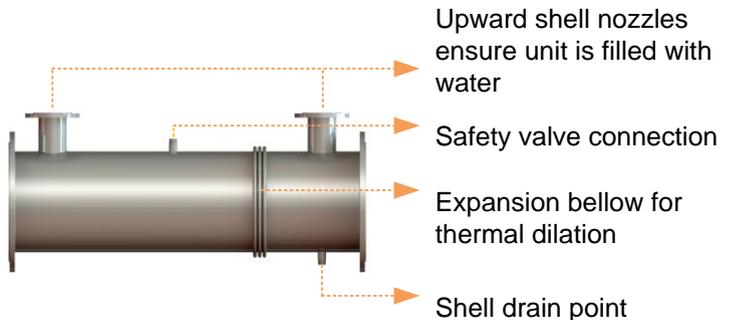
External: Matt
 Product Side: Descaled

STANDARD DESIGN CONDITIONS

Shell Side: 4 barg/550° C
 Tube Side: 1 barg/550° C

APPLICATIONS

Heat Recovery From:
 Cogeneration Exhaust Gas
 Boiler Exhaust Gas
 Industrial Exhaust Gas/Flue Gas



FEATURES

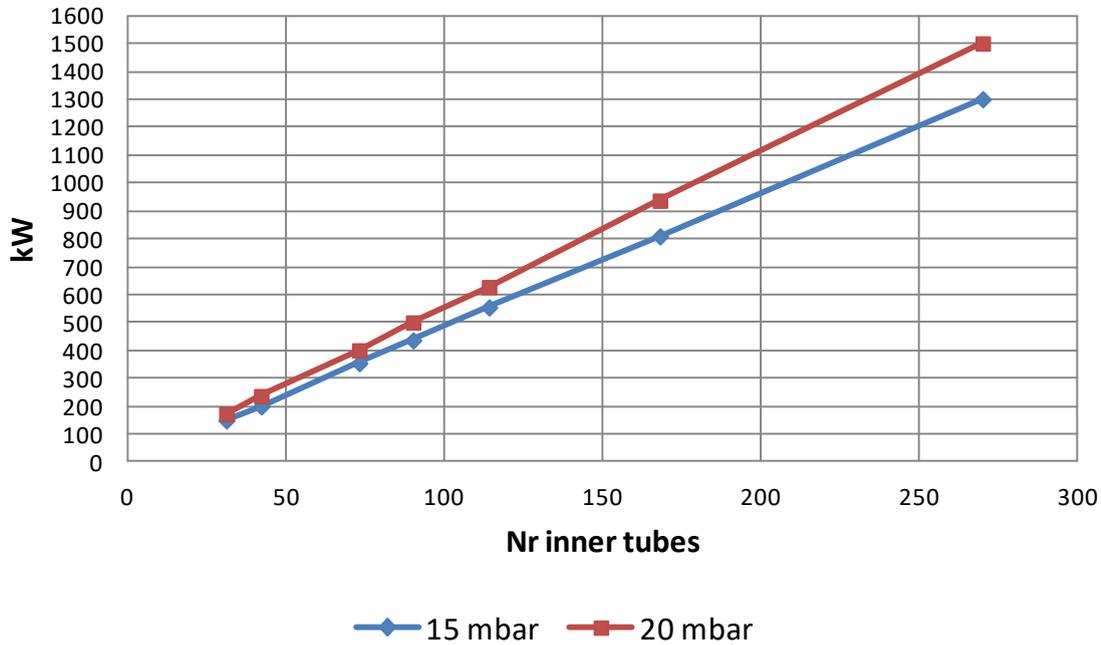
Corrugated tubes for increased heat transfer

RANGE

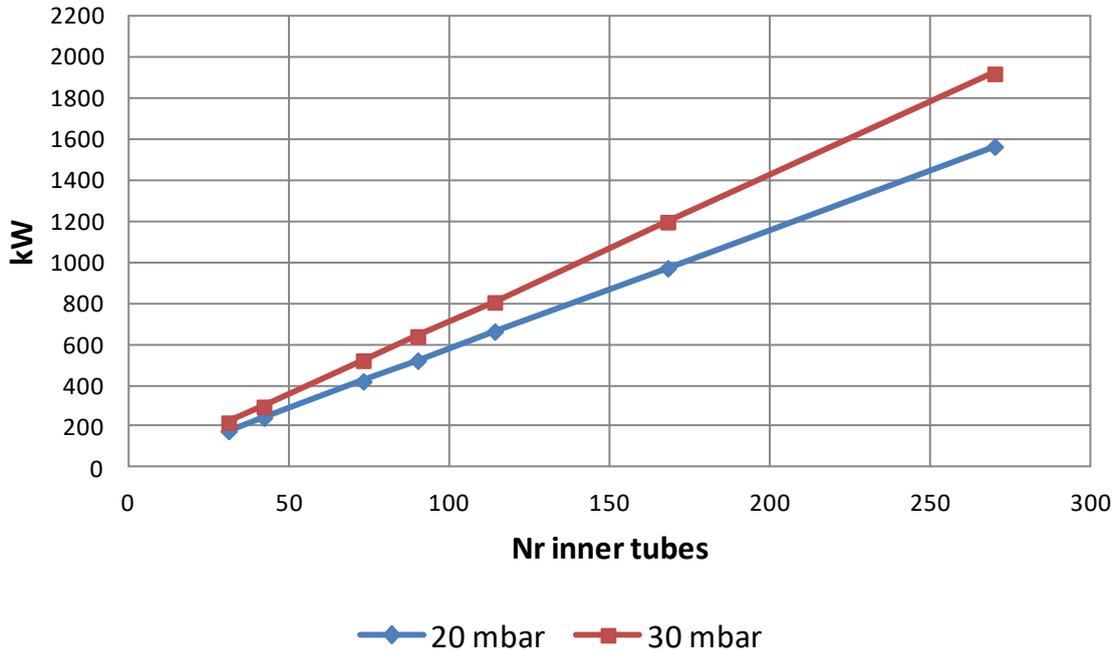
Models:	No. of Tubes	Lengths (m)	Surface Area (m ²)	Shell Side Connection	Tube Side Connection	Max Flow Shell (m ³ /hr)	Volume Shell Side (L)	Volume Tube Side (L)
G 31 272/34	31	1.5 – 3.0	9,7	DN65	DN250	45	82.8	73.3
G 42 323/34	42	1.5 – 3.0	13,2	DN80	DN300	55	121.1	99.3
G 73 406/34	73	1.5 – 3.0	22,9	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 length models. Shell side nozzle volumes are included.

PERFORMANCE CHARTS



Tube Length: 1.5m
 Tube Side: Cooling Cogeneration Exhaust from 500° C to 120° C
 Shell Side: Heating Water from 80° C to 90° C
 kW Heat Recovery for 15mbar and 20mbar Pressure Drop on Gas Side



Tube Length: 3.0m
 Tube Side: Cooling Cogeneration Exhaust from 500° C to 120° C
 Shell Side: Heating Water from 80° C to 90° C
 kW Heat Recovery for 20mbar and 30mbar Pressure Drop on Gas Side