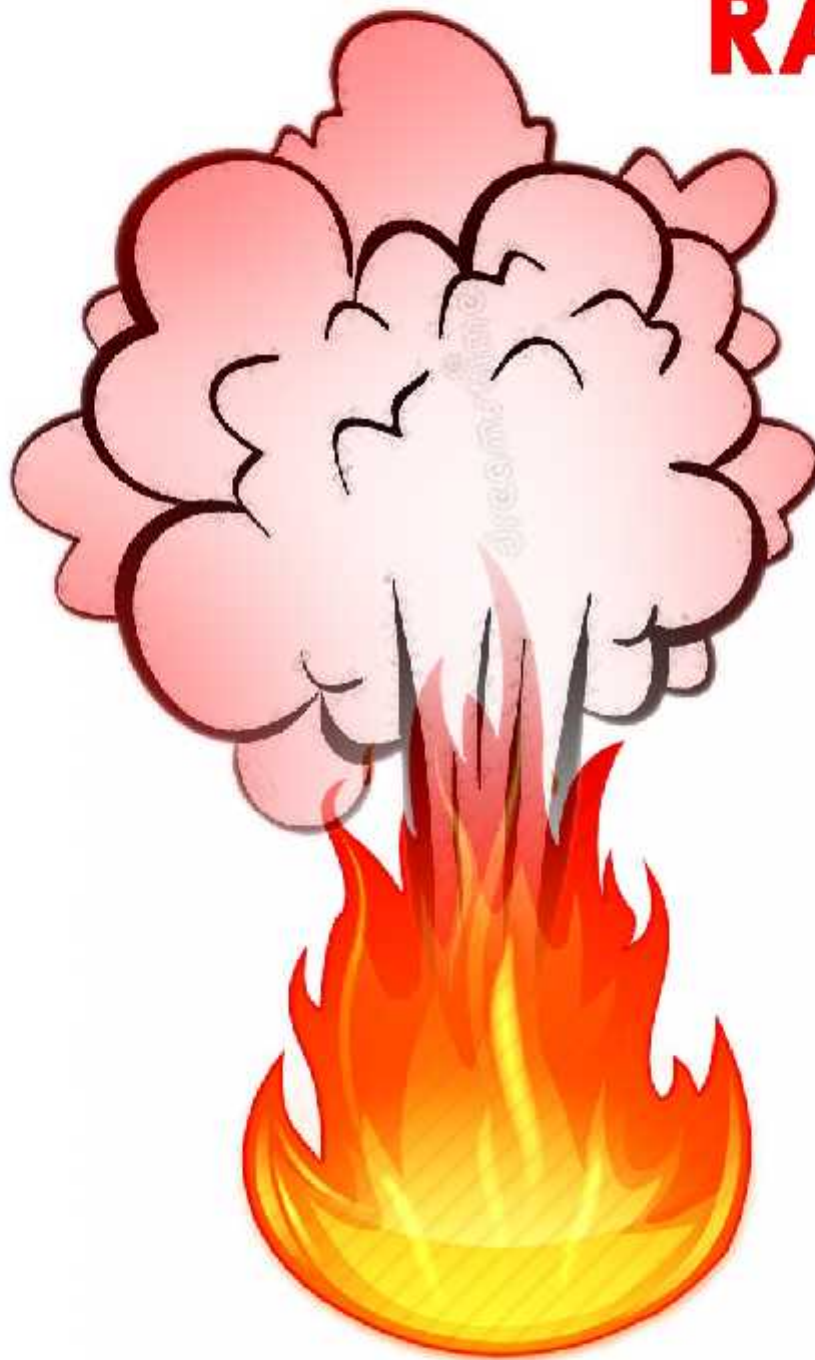


THE VAPORMAX RANGE



Steam Generators
since 1974

ADVANTAGE  GUARANTEED

GRESHAM'S

    THE ENERGY-ENVIRO SPECIALISTS

THE GRESHAM'S STORY

Gresham's started boiler manufacturing in 1971 in an association with Karachi Shipyard & Engineering Works Limited as a pioneering project for Pakistan. To date, we have manufactured over 1200 boilers of various designs for customers ranging from food processors to power plant boilers. We have been the first in Co-Generation and EPC Projects. Notable installations include the Finance & Trade Centre at Karachi, The MCB Towers, the SNGPL Head Office Building and many others.

Gresham's Boilers exported to France, Italy, Algeria, Iraq, UAE, Saudi Arabia, Sri Lanka, Bangladesh, Myanmar and Afghanistan are a testimony of our quality.

Quality Inspiration.



William Edwards Deming was an American engineer, statistician, professor, author, lecturer, Quality Expert. Mr. Deming inspired Toyota to quality manufacture in 1954.

Boilers of Firetube, Watertube, Forced circulation Steam Generators, Waste Heat Recovery Units, Power plant boilers, Themic oil Boilers, Hot air generators, RO & Water Treatment Plants, Heat Exchangers, Equipment for oil and gas industries, Portable accomodation systems, Filtration Plants are manufactured under licence agreements from world renowned brands such as Powermaster, Keeler, Wanson, Ygnis, Alpha boilers..... to give you a highly engineered, safe & efficient products built to ASME Standards and Inspected by Germanischer Lloyds, TUV, SGS....

In 1982 we originated the idea of energy conservation and were behind the Boilers in Pakistan study done by the Ministry of Production which study led to the creation of ENERCON.

Gresham's -- dedicated to boiler manufacture since 1971, -- commitment to energy conservation, -- commitment to deliver a safe reliable product.



ASME Codes used for manufacturing all Boilers.

1947-2047
100

Innovation | Integrity | Value



SGS



TUV

The OD range coil steam generator

Model	VP	150	250	400	600	900	1200	1800	2500	3500	5000
Kg/hr of steam at 2.7 MJ/kg (640 kcal/kg)		150	250	400	600	900	1200	1800	2500	3500	5000
Equivalent in kw		111.6	186	297.7	446.6	670	893.2	1340	1860	2605	3722
Width A-	MM	455	455	640	640	850	1020	1250	1450	1750	1920
Length B-	MM	690	790	975	975	1280	1450	1690	1890	2510	2860
Height D-	MM	990	990	1275	1275	1520	1635	2760	2835	2835	4900
Chimney area-	m	0.03	0.03	0.05	0.05	0.05	0.07	0.095	0.16	0.02	0.24
Water content-	liters	10	10	18	24	61	91	200	356	553	1032

The blue noted models do not require registration with boiler authorities.

The VAPORMAX series OD is a forced circulation, once through boiler, answering industry's requirement for low cost steam generation.

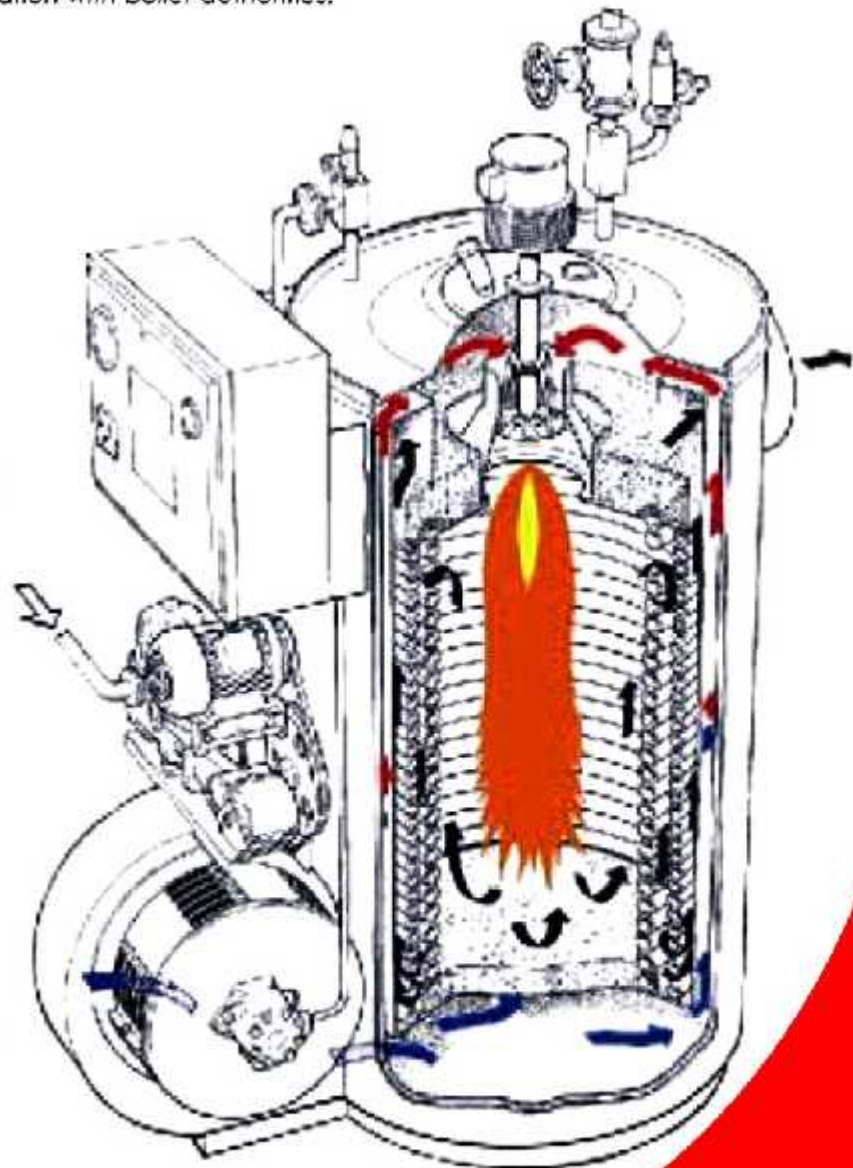
Three Gas Passes: High Efficiency – Good Heat Transfer. Residual heat is used for pre-heating combustion air which aids complete combustion.

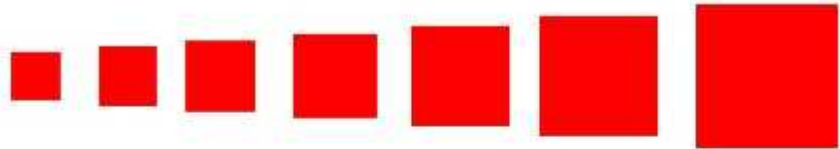
Heavy gauge tubes of high quality (DIN 17.175) The absence of a water level, the high flow velocity and the heavy gauge tubes are three important factors contributing to the exceptional resistance of VAPORMAX to corrosion. The absence of large capacity vessel & the very small water content eliminates explosion hazards. VAPORMAX is frequently installed in working areas.

No flame impingement. Flames do not impinge on the coil which is swept only by hot gases at high velocity. The maintaining clean surfaces. The absence of joints with lube plates eliminates the risk of leaks.

Negligible radiation & convection losses (0.1%) Between the outer shell and the path of combustion gases. An inner steel casing is scrubbed by the combustion air. This inner space is separated by a radiation screen. The out shell is therefore kept cool, & the overall efficiency gains at least 2%.

Instant start-up only a few minutes is required to obtain steam at the desired pressure, thus resulting in saving of time & money. Simple and effective controls permit automatic starting, or even full remote control. the water pump unit is a piston type slow operating & silent running.





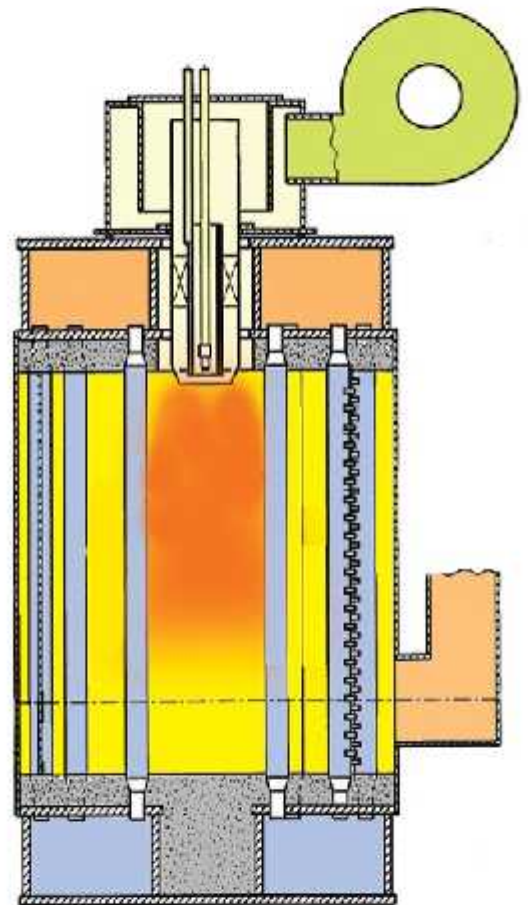
SURGE:

A Phenomenal floating header watertube vertical coil steam generator. 5 minutes to steam generation

ASME code design floating header construction
 Swaged tubes inserted in headers.
 Studs welded on tubes for fast heat transfer Natural gas,
 Diesel & HFO burner (only on models above 2000 kg/hr
 PLC controls systems high pressure reciprocating pumps
 Easy accessibility for pressure vessel maintenance Plug
 caps for easy internal cleaning of tubes Small Footprint :
 Capacity: 200 – 5,000 Kg.hr.
 Working pressures upto: 15 Bar.
 Standard feed water system with SS pump.
 Standard oil storage system when oil fired.
 Full instrumentation package with HMI readout.
 Reverse flue, 4 pass design - the only one in the world.
 Optional RO/water softener.
 87% efficiency on LCV.

Ideal for applications such as:

- Pharmaceuticals & Laundry's.
- Garment & Home Textiles.
- Paper Converters & Small Oil Mills.
- Leather & Small Chemical Factories.



Model	Steam Capacity
SB-25	250
SB-50	500
SB-100	1000
SB-150	1500
SB-200	2000
SB-250	2500
SB-350	3500
SB-500	5000

Model: VTB (Vertical Tubeless Boilers)

Gresham's vertical tubeless manufactured to ASME code sec I one performance oriented, designed with high efficiency combustion principles of Reverse flue principles and deal for application where water condition are not disciplined as per ABMA.

VT BOILER	STEAM kg/hr
VT 60	600
VI-90	900
VI-120	1200
VI-200	2000
VI-300	3000

Emax: Electric boiler

Above 30 kW, the Emax has a 3 phase direct chromium elements vertically placed elements working on boiler conductivity to generate the heat needed for steam generation.

Elements: Individual flanged and bolted chromium finished 3 phase elements with built in temperature & short circuit fuses for sizes upto 30 kW.

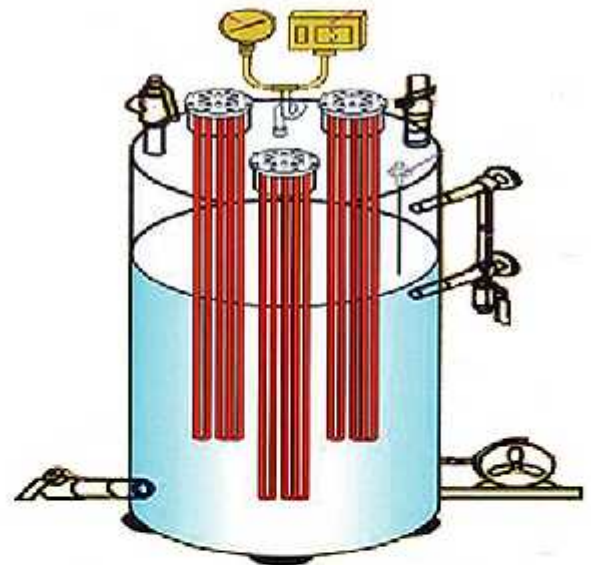
Fully packaged: with feed water pump mounted with boiler cabinet, all integrally piped and wired, ready for immediate steam generation.

Where small steam needs and fuel non-availability or fire hazards do not allow fossil fuel operation.

Capacity:

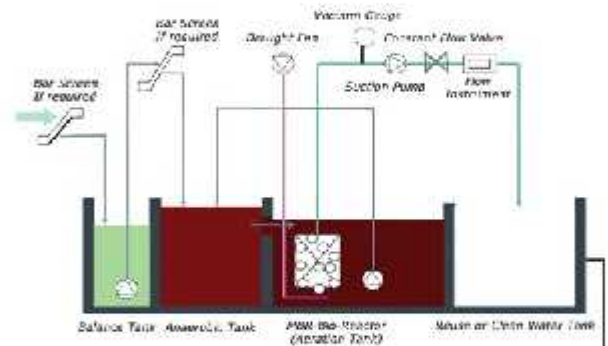
50 kg.hr upto 1,000 Kg.hr
 Pressure upto: 10 Bar(g.)

Model	Steam Capacity
Em 50	50 kg/hr
Em 70	70 kg/hr
Em 100	100 kg/hr
Em 150	150 kg/hr
Em 200	200 kg/hr
Em 300	300 kg/hr
Em 500	500 kg/hr
Em 750	750 kg/hr
Em 1000	1000 kg/hr



A range of quality boiler room accessories

PUMPS



**New Technology
 RO Plants.**

VALVES



MAGNETIC LEVEL GUAGES



DEAERATOR

