



شوفاژکار
Chauffagekar
Industrial Co.



Super 400 Cast Iron Boilers

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Boiler Materials

Boiler is made of fire resistance cast iron which in addition to proper heat transfer has high resistance against oxidation and effective chemical substances on the surface. It is resistance against natural elements such as humidity and liquidity of combustion, it can be said that Super 400 boilers of Chauffageekar Industrial Company is exploitable in consecutive generation.

Body Resistance and Work Pressure

Boiler's thickness is about 6m. and special sealing lets the boiler to stand 10 bars pressure. By general sealing, the Super400 boiler can easily stands for 13floors pressure that is equal to 40m. This boiler in burst test can stands against 40bars.

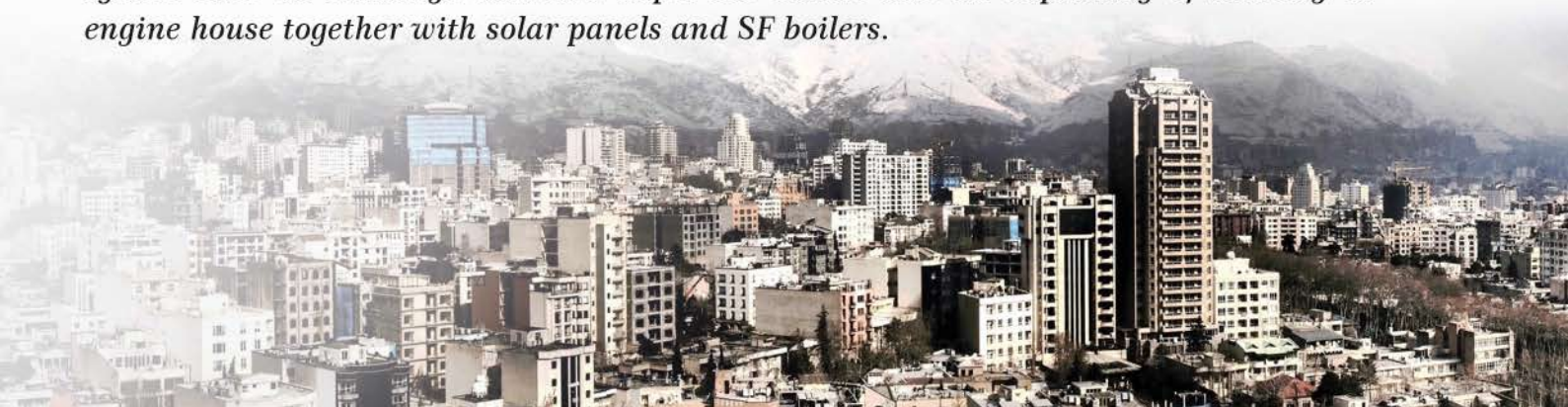
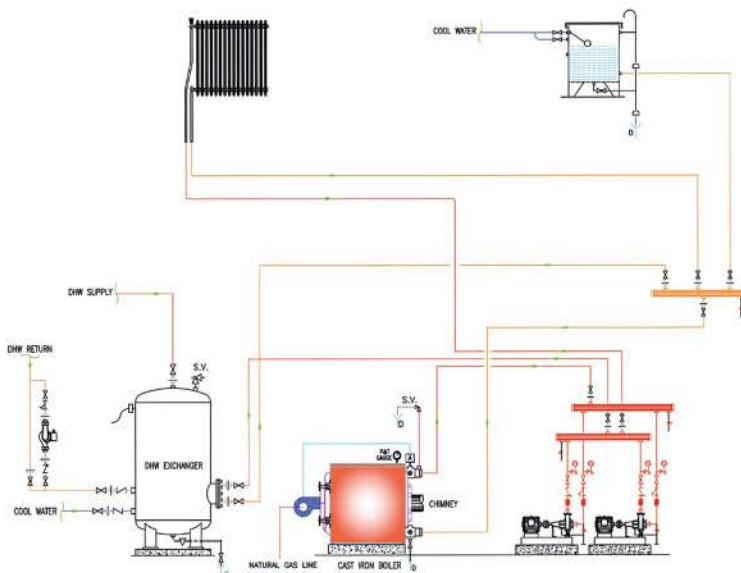
Boiler Function

Boiler used in central heating engine house for producing space heating and hot water and also feeding of uni-efficient absorbing chiller generator.

Using of several Super400 Boilers equally in engine house represent stage strategy in producing suitable effect in efficiency for large space.

Utilization

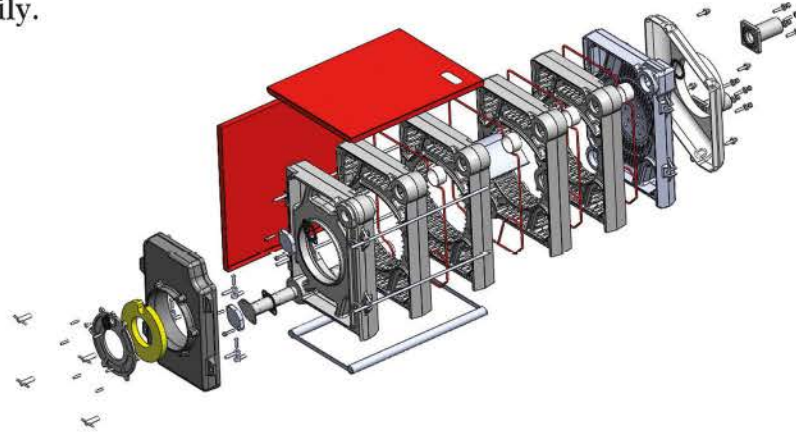
Super400 Boilers of Chauffageekar Industrial Company is for production of heating hot water and sanitary hot water. These boilers are compatible with energy management system BMS in buildings and also Super400 Boilers has the capability of locating in engine house together with solar panels and SF boilers.



Transportation

These boilers easily can be transport by one or two people and due to this capability, installation of boilers can be done after termination of the buildings operation.

Also regarding to the annual repairing of opening doors for clearing waste combustion from all surfaces is applicable easily and also parts changing and transporting situated parts performed easily.



Cyclic Checking

Super400 Boilers of Chauffagekar Industrial Company should be checked annually. Waste combustion, in the case of sticking to the internal surfaces, can highly reduce thermal efficiency therefore in order to energy optimization it is required that necessary actions has been taken for the surfaces which are against fire and smoke, and due to existing suitable doors in front of boilers and also available cleared combustion from the surface of thermal transporting, capability of Super400 Boilers will be more than accrete boilers. Also these boilers should be checked annually in order to lacking of existing of sediments in water's channels that it will be possible by opening of blocked connections. Sediments existing in the channels of water can be created due to using of open expansion source of two valves.

Design of Super 400 Boiler

- Passage of flame and smoke through three passes of boiler, lets the maximum thermal transport during combustion.
- Rear section of S400boiler is WET-Back and became cool by circular water.
- Water distribution tube equally distributes water in boiler and prevents different temperature.
- Using ceramic yarn on the edge of sections, make the boiler smoke tight and prevent leakage of smoke.
- The combustion chamber and smoke passes are covered by raised fins for increasing the heating level in comparison with one- piece boilers.
- Water internal channel surfaces are denticulate for increasing the heating level.
- Boilers isolated cover will minimize heat wasting.

Quality certificate and Guarantee



S400 cast iron boilers are under mandatory standard of 4472, 4473, ISO9001:2008 , European standard –CE-and SGS quality certificate and 10 years guaranty for all cast iron parts.

NO. SECTIONS	PCs	5	6	7	8	9	10	11	12	13	14
HEATING OUTPUT	Kw	138	170	203	235	267	300	332	365	397	430
	KCal/hr	118,700	146,200	174,500	202,100	229,600	258,000	285,500	313,800	341,400	369,700
	btu/hr	471,000	580,000	693,000	802,000	911,000	1,024,000	1,133,000	1,245,000	1,355,000	1,467,000
WATER CONTENT	Litres	55.2	65.9	76.5	87.1	97.8	108.4	119	129.7	140.3	151
EXHUAST DIAMETER	mm	307									
COMBUSTION CHAMBER CAPACITY	m3	0.0663	0.0791	0.0919	0.105	0.1175	0.1303	0.1431	0.1559	0.1687	0.1815
INLET/OUTLET CONNECTION SIZE	DN(")	2 1/2"									
BURNER FLANG DIAMETER	mm	127									
LENGTH	mm	918	1,035	1,152	1,269	1,386	1,503	1,620	1,737	1,854	1,971
NET WEIGHT	Kg	370	427	481	535	597	651	709	765	825	879
MAX. TEMPERATURE	°C	105									
MAX. WORK PRESSURE	Bar	4									
GAS FUEL KIND	Nutral Gas										
LIQUID FUEL KIND	Gas Oil										

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