

# CERTUSS

## Steam Generators

CERTUSS steam generators range from 6 Hp to 128 Hp and pressures up to 420 psi within a minimal footprint. Various fuel types from lpg, natural gas, #2 oil or dual fuel. CVE unit offers all necessary water treatment in one compact body. Package container units come pre-piped, pre-wired and factory tested.



German engineering



Expert team



Global company



Energy efficiency



Cross-industry experience



Aftersales Support



By using the water tube boiler principle, the CERTUSS technology for generating steam offers maximum safety, reliability and instant availability of high quality steam.

### ADVANTAGES

- **Virtually INSTANTANEOUS:** Cold start to **100% steam in 3 -5 minutes!**
- **SPACE SAVINGS:** Less than **HALF** the size of traditional steam boilers
- **HIGHLY EFFICIENT:** Up to **90%** thermal efficiency with the economizer option
- **PARTS AVAILABILITY:** Common wear parts for **YOUR** Certuss boiler stocked and sold through J Lorber's 3 convenient locations. Parts availability guaranteed for **20 years!**
- **FULLY AUTOMATED!** Unmanned operations capability
- **Virtually NO WATER CONTENT!**
- **AIR-INSULATED!** No insulation to break down. Mildly warm to the touch at 100% full fire
- **NON-HAZARDOUS OPERATION:** Place in work areas, warehouses, or outdoors in a containerized steam plant
- **FACTORY SUPPORT & SYSTEM MONITORING:** 24/7/365 days a year
- **REMOTELY OPERABLE** by WiFi, Ethernet, or GSI (Cellular). I-Phone or I-Pad
- **ENVIRONMENTALLY FRIENDLY:** Less water usage, less blowdown, less pollution
- **CVE UNIT:** The entire boiler plant **SKID-MOUNTED** and **CUSTOMIZED** for **YOUR** application
- **PROVEN STRESS-FREE RELIABILITY!**
- J Lorber in business since **1918**
- Certuss since **1957**
- **More than 13,000 Certuss boilers currently in operation in over 127 countries!**



Junior TC



Universal TC



Supply Unit CVE



Container Unit

	Junior TC								Universal TC							
Model number	80	120	150	200	250	300	350	400	500	600	700	850	1000	1300	1500	2000
Steam output (lb/h)	176	265	331	400	551	661	772	882	1102	1322	1543	1874	2204	2866	3307	4409
Heating Capacity (BHP)	6	8	10	13	16	20	23	26	32	39	45	55	64	83	96	128
MBH at 212°F	171.33	256.69	320.87	427.82	534.78	641.74	748.69	855.65	1,069.56	1,283.47	1,497.39	1,818.25	2,139.12	2,780.86	3,850.42	4,278.25
Fuels	Natural Gas / LPG / #2 Oil															
Time to Steam	3 minutes								5 minutes							
Working Pressures (psi)	10 – 421															
Height x Width x Depth (inch)	59 x 25 x 48		62 x 28 x 54		73 x 32 x 59		77.95 x 36.6 x 63		90.16 x 45.6 x 73.6		99.8 x 49.6 x 83.6		105.3 x 54.3 x 90.9			
Available containerized	yes															



### **CUSTOMER CASE STUDY**

*Biggest Hospital in Krefeld, Germany*

### **REQUIREMENTS**

*Improving efficiency and replacing two old boilers*

### **APPLICATION**

*Various sterilization, laundering and other processes requiring steam*



### **SOLUTION**

*3 CERTUSS Universal TC 600 with each 40 BHP, with CVE CERTUSS Verified Equipment*

*1 Junior 200 with 14 BHP*

*1 Junior 350 with 24 BHP*

### **OUR CUSTOMER**

*After 5 years of construction, the Hospital in Krefeld has been finished in 2014. It now ranks among the most modern hospitals in Germany. Home of maximal care with more than 1000 beds the Hospital in Krefeld is an outstanding medical center. In 23 hospitals and 4 institutes, more than 2000 employees yearly take care of over 100.000 patients (both inpatients and outpatients). A total of 15 CERTUSS Steam Generators have been installed for customers in Berlin, Erfurt, Herzberg, Schwerin, Borna, Hildesheim and Krefeld.*

### **THE ORDER**

*The energy concept for steam generation in the Krefeld hospital encompassed an increase in efficiency and the replacement of two water room boiler that were over dimensioned after the number of steam consumers had been reduced. In choosing the new system the focus lay on efficiency, environmental protection, safety, and user friendliness.*

### **OUR SOLUTION**

*The center piece of the renewal is formed by the energy-saving and efficient steam generation through three CERTUSS Steam Generators of the Universal TC 600 series with the CVE supply unit. Thanks to the use of the water-tube boiler principle, the CERTUSS technology offers a maximum in safety and availability of high-quality steam. The CERTUSS gas burners with modulating output control, the innovative air preheating and the use of two stage burner technology ensure unbeatable advantages in speed and efficiency. Clean combustion air sucked in from above counteracts the trapped heat from the combustion chamber and the air circulation makes insulation material superfluous. Thanks to the resulting combustion air preheating, a combustion-specific degree of efficiency that is unusually high for steam generators is achieved. The system is supplied as a complete boiler house installation, with complete piping, with electrical sub-distributor, feed water tank, mixing heat exchanger, steam dryer, desalination cooler and all the accessories required for the steam system. Thanks to its compact design, it was possible to integrate the complete system into the existing building so that a separate boiler room was not required.*