

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

Procter & Gamble, Seaton, UK

REQUIREMENTS

Standard running load demand of 1650 lb/h, peak load of 3300 lb/h. 24/7 operations.

APPLICATION

Production of perfumes and aftershaves

SOLUTION

2 x Universal TC 1000 with each 67 BHP Natural Gas Fired (Duty/Duty stand-by)

PROCTER & GAMBLE (SEATON)

In May 2013 CERTUSS UK Ltd were invited to tender for a project by Procter & Gamble at their Seaton Delaval production facility.

Tender details were to supply and commission an N+1 Containerised Steam Generator facility, complete with condensate return pumping station.

The equipment required should be capable of meeting the standard running load demand of 1650 lb/h, with an ability to cope on a duty basis with a peak load of 3300 lb/h. The fuel supply would be Natural Gas.

Steam production would be required 24 hours a day, 7 days a week. After evaluation of the requirements, CERTUSS UK offered a tender for the following equipment:

2 x 1000kg/hr Natural Gas Fired CERTUSS TC Steam Generators (Duty/Duty stand-by)

- 2 x CERTUSS Package Plant Modules
- 2 x CERTUSS condensate return pumping stations
- 1 x CERTUSS Container Module - 472,5 x 98,5 x 130 inch (L x W x H)
- Automatic Operation
- CERTUSS Interface facility
- Delivery to site
- Commissioning



With the CERTUSS Generator offering a fuel to steam efficiency of >93% and an ability to raise full steam capacity in circa 3-5 minutes, along with reduced maintenance and inspection periods, P&G decided that this was the best option for them, when compared to a conventional boiler facility.

In June 2014 CERTUSS received an order for the supply of the equipment with full commissioning of the plant taking place April 2014.

CERTUSS have a full service contract agreement with the site.

P&G was founded in the US in 1837 by two men who met by chance. William Procter and James Gamble were from England and Ireland respectively and were on separate journeys through the United States when the challenges of travel led both of them to Cincinnati. They might never have met had they not married sisters - Olivia and Elizabeth Norris - whose father convinced them to become business partners and In 1837, a humble but bold new enterprise called Procter & Gamble was born. What began as a small, family-oriented soap and candle company grew and thrived, inspired by P&G's Purpose of providing products and services of superior quality and value.

P&G currently have 15 sites throughout the UK and Ireland with many more throughout the World.