

## The power of steam



### **Planing and Sales**

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### **CERTUSS Company History**

CERTUSS was established in 1957 in Krefeld, Germany when Hans Joachim Schroder set himself the goal of manufacturing **reliable**, **low-noise**, **compact** Steam Generators. These Generators were designed to be easy to maintain and applicable for **continuous operation**. Today CERTUSS are satisfying customers all around the globe with the help of sustainable, long-term partnerships. Trained and exclusive service partners in 35 countries are ready to assist you **anytime from everywhere**. We are market leader with more than **60% market share** in Germany, offering high quality **"made in Germany"** products.

Our companies focus lies on a **clearly defined product line**, **systematic R&D** and a team of **highly trained professionals** enabling equipment production of the **highest standards** complying with ASME and UL regulations, as well as ISO 9001-2008 and PED.

CERTUSS offers Generators requiring **little space** with capacities ranging from 53 kW to 1320 kW and operating pressures of up to 32 bar. To complete the Generator system, we offer our **CVE, CERTUSS Verified Equipment**, Package Plant Module where all associated ancillary items are pre-piped, pre-wired and factory tested. All Generators are equipped with a **touchscreen** simplifying control and operation. The thermal efficiency of CERTUSS Steam Generators ranges from **91%** to **93%\***. We offer various fuel types, liquidgas, natural gas, heating oil (EL) or a duel fuel burner for natural gas and heating oil (EL) for units above 328 kW. Full spare parts support is provided for each Generator for up to 20 years after commissioning and we hold electronic documentation of every Generator manufactured over the past 30 years.

Why you should chose CERTUSS? Check out all our advantages on page 14.

"Our history is the cornerstone that supports our current success, continue growth and allows us to push innovation in the future" Mathias K. Brauner, CEO, CERTUSS Germany



CERTUSS Steam Generator in 1957.



CERTUSS Steam Generator in 2015.



### **Our References**

Thanks to our long company history we have had the privilege of working with many large and well-known companies and establishments from various industries.

CERTUSS Steam Generators have the advantage of being applicable in nearly **all industries**. We choose to keep our product line **clearly defined and scalable**.

We have gathered experience in **over 80 different sectors**, some of which are listed below, and have worked with diverse applications.

We have many customers in **service and hospitality** who use our Generators for chemical cleaning, disinfecting, laundering and other service purposes. For example we have installed Generators in many **Hyatt**, **Kempinski, Four Seasons** and **Holiday Inn Hotels**.

Another major sector we serve is the **healthcare sector**, including the chemical and pharmaceutical industry. CERTUSS Generators are applied in hospitals, cosmetics, plastics, mineral oil processing, pharmacies, and other chemical processes. Besides hospitals we have also worked with chemical and pharmaceutical companies, for example **B.Braun**, **Evonik**, **BASF**, **Merck**, **Procter & Gamble** or **Unilever**.

Additionally the **food and beverage** industry offers many applications for our Steam Generators. Examples are meat, milk, mineral water, soft drink, flavor, oils and sugar processes as well as alcoholic beverage, juice, coffee, tea productions or luxury food goods like candy, tobacco products or pralines. In this sector CERTUSS Generators are used by, for example, **Coca-Cola Companies, Dr. Oetker Frozen Foods** as well as **Nestle Group**.

Finally, diverse companies from the **automotive**, **construction and mechanical engineering** sector have purchased CERTUSS Generators for use in sanitation, ceramics and glass, cement production, heating, and woodworking. **Samsung Germany, Siemens, Philips Components** are customers we have served to this day.

With all the German car manufacturers located in our home country CERTUSS has had the possibility to work for **Volkswagen**, **Mercedes Benz** and **BMW**.

All that is left to say now is that if you like German cars, you'll **love** our Generators!



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

- The **touch screen control panel** simplifies operation and control of the generator. All configurations and settings of steam pressure are made here.
- The **pre-heated feed water** is delivered to the Generator at approx. 90 to 95 °C. The heat frees the oxygen from water and reduces the risk of oxygen corrosion.
- The **heat exchanger** coil is supplied with water through the feed water inlet. The change of phase from water to steam begins.
- The modulating, **integral burner** with the fastest response time, provides precise steam pressure control down to 1/10 bar.
- Insulation material is made obsolete by guiding the **combustion air** from the top of the Generator through an outer shell, and from there into an inner, secondary shell.
- The **combustion air intake & fan** draw in warm air through the triplex system to preheat the combustion air and keep the outer jacket cool.
- When the steam has been produced, it leaves the generator through the **steam outlet** and is then ready for use.
- 7 The **flue gas outlet** connects to the chimney with or without an Economizer.
- 8 Sediment is flushed out through the **steam** generator coil blowdown valve.
- The **safety relief valve** opens automatically to discharge excess steam when the pressure is too high.





### **Junior TC 80 – 400**

The Junior TC series includes the smaller sized Generators for customers who require low amounts of steam. All Junior TC Generators are equipped with an easy to use **touchscreen panel** that simplifies operation. They are our most space saving steam solutions. They can serve constant and fluctuating demands in steam, with steam available in **under 5 minutes.** 

- Space saving
- Installation without foundation support
- Robust steel construction
- Triplex air insulation creates good air circulation within the generator and preheats the combustion air
- Integrated, 1st stage CERTUSS burner system
- Noise and vibration reduction, anti-vibration mountings
- Economical fast energy transfer reducing radiation losses
- Vertical expansion free centrally suspended heating coil with bottom blowdown
- Replaceable evaporation section
- Easy and quick cleaning of the heating system, without removal
- Fully automated operation
- Exemplary customer service and spare parts availability 24 / 7 / 365
- Thermal Efficiency up to 98% (with the use of an Economizer)
- Full adjustable output of steam
- BMS compatibility with Profibus/CANbus, Modbus, BACnet etc.,
- 7" Touch Control (TC) screen



<sup>\*</sup>Reference values: Natural gas 10 kW/Nm³ - 8600 kcal/Nm³, liquid gas 25,8 kW/Nm³ - 22200 kcal/Nm³. Dimensions and weights have been rounded up or down. MPa and bar are overpressure values. Performance values referenced to 100 °C feed-water temperature and 1 MPa (10 bar) steam overpressure. CERTUSS burner with flue-gas recycling (NO<sub>X</sub> reduction)\*.

# **Specifications**

- 1. Junior TC Steam Generator
- 2. CVE Utility Unit
- 3. Pre Pressure Pump
- 4. Feed Water Pump
- 5. Feed Water Tank
- 6. Blowdown Vessel
- 7. Chemical Dosing
- 8. Water Softening Plant
- 9. Brine Tank
- 10. Control Panel
- 11. Steam Separator
- 12. Water Filter

DA. Steam Connection

WA. Water Connection

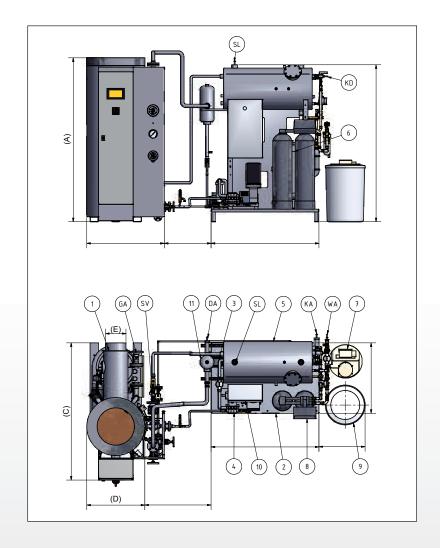
SL. Tank Vent (To Atmos)

SV. Safety Valve (To Atmos)

KA. Drain Connection

KD. Condensate Connection

BA. Fuel Connection



	Capacities Pressures			Consu	ımptio	n	Dimensions (~ mm)								
Model Junior	Steamcapacity kg/h	Heating capacity kW	Nominal load kW	Max. operating pressure MPa (bar)	Max. permissible overpressure MPa (bar)	Heating oil (EL) kg/h	Natural gas m³/h	Liquidgas m³/h	Height A	Width B	Depth C	Boiler Ø D	Flue gas pipe Ø E	Flue gas (center) F	Weight (~ kg)
80 120	80 120	53 79	58 87	0,8 - 2,9 (8 - 29)	1 – 3,2 (10 – 32)	4.9 7.4	5.8 8.7	2.2 3.4	1500	700	1210	500	180	1050	320
150 200	150 200	99 131	109 145	0,8 - 2,9 (8 - 29)	1 – 3,2 (10 – 32)	9.2 12.3	10.9 14.5	4.2 5.6	1750	740	1375	560	200	1120	420
250 300 350 400	250 300 350 400	164 196 230 262	182 218 255 291	0,8 - 2,9 (8 - 29)	1 – 3,2 (10 – 32)	15.3 18.4 21.5 24.5	18.2 21.8 25.5 29.1	7.1 8.4 9.9 11.3	1850	830	1510	640	250	1360	520



### **Universal TC 500 – 1800**

The Universal TC series is equipped to serve constant, as well as fluctuating, **high steam** demands making these Generators our most high performing solutions. Due to an extremely short heat up time, steam is available after **less than 5 minutes**. The touch screen control panel facilitates operation and gives a bundled overview of current pressures and configurations. Additionally the Generator can easily be operated remotely.

- Space Saving
- Installation without foundation support
- Robust steel construction
- Triplex air insulation creates good air circulation within the generator and preheats the combustion air
- Integrated, 1st stage CERTUSS burner system
- Noise and vibration reduction, anti-vibration mountings
- Economical fast energy transfer reducing radiation losses
- Vertical expansion free centrally suspended heating coil with bottom blowdown
- Replaceable evaporation section
- Easy and quick cleaning of the heating system, without removal
- Fully automatic operation
- Exemplary customer service and spare parts availability 24 / 7 / 365
- Thermal Efficiency up to 98% (with the use of an Economizer)
- Full modulation from 50% to 100% (natural gas, liquid gas)
- BMS compatibility with Profibus/CANbus, Modbus, BACnet etc.,
- 7" Touch Control (TC) screen



<sup>\*</sup>Reference values: Natural gas 10 kW/Nm³ - 8600 kcal/Nm³, liquid gas 25,8 kW/Nm³ - 22200 kcal/Nm³. Dimensions and weights have been rounded up or down. MPa and bar are overpressure values. Performance values referenced to 100 °C feed-water temperature and 1 MPa (10 bar) steam overpressure. CERTUSS burner with flue-gas recycling (NO<sub>X</sub> reduction)\*.

# **Specifications**

- 1. Universal TC Steam Generator
- 2. CVE Utility Unit
- 3. Pre pressure pump
- 4. Feed Water Pump
- 5. Feed Water Tank
- 6. Blowdown Vessel
- 7. Chemical dosing
- 8. Water softening plant
- 9. Brine Tank
- 10. Control panel
- 11. Steam separator
- 12. Water filter

GA. Fuel

SV. Safety Valve

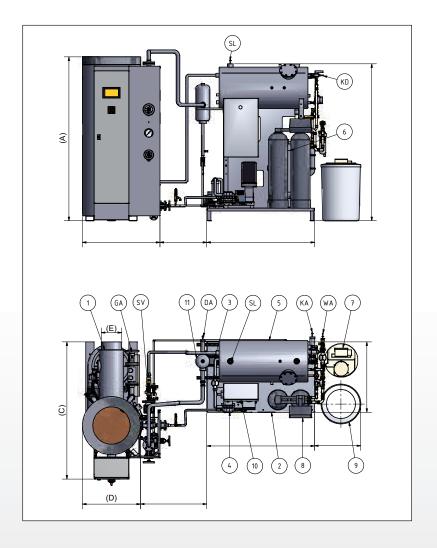
DA. Steam

SL. Tank Vent

KA. Drain

WA. Water

KD. Condensate



	Capac	ities			Pressure	S	Consu	ımptio	n	Dime	nsions	(~ mm)				
Model Universal	Steamcapacity kg/h	Heating capacity kW	Nominal load kW	Levels	Max. operating pressure MPa (bar)	Max. permissible overpressure MPa (bar)	Heating oil (EL) kg/h	Natural gas m³/h	Liquidgas m³/h	Height A	Width B	Depth C	Boiler Ø D	Flue gas pipe Ø E	Flue gas (center) F	Weight (~ kg)
500 600	500 600	328 393	364 436	2	0,8 – 2,9 (8 – 29)	1 – 3,2 (10 – 32)	30.6 36.8	36.4 43.6	14.1 16.9	1980	930	1600	700	250	1460	950
700 850	700 850	459 557	510 619	2	0,8 – 2,9 (8 – 29)	1 – 3,2 (10 – 32)	42.9 52.1	50.9 61.8	19.7 24.0	2290	1160	1870	870	300	1750	1100
1000 1300	1000 1300	656 853	728 947	2	0,8 – 2,9 (8 – 29)	1 – 3,2 (10 – 32)	61.3 79.8	72.7 94.6	28.2 36.7	2535	1260	2125	1000	350	1940	1500
1500 1800 2000	1500 1800 2000	984 1180 1320	1093 1311 1457	2	0,8 – 2,9 (8 – 29)	1 – 3,2 (10 – 32)	92.0 110.4 123.0	109.1 130.9 145.7	42.3 50.8 56.5	2675	1380	2310	1100	500	2300	2300



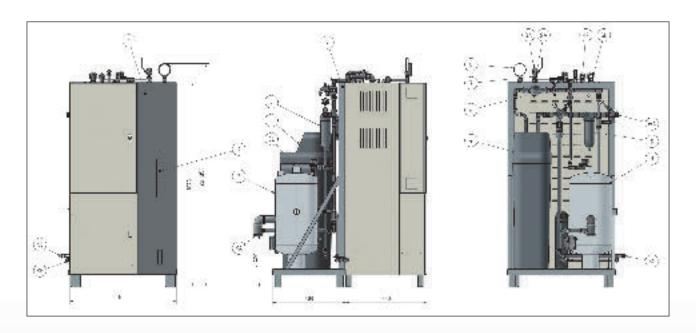
### Electrical E 6 – 72 M

The electric Steam Generators E6-72M are characterised by their short heat-up times and low space requirement. Their construction method has proven itself as reliable and efficient over many decades. The E6-72M offers immediate output adjustment, simplified operation and highly simplified maintenance. The steam output of these Generators ranges between 8 kg/h and 97 kg/h.

- Compact and space saving
- Fits through all norm doors
- Direct access from the front for easy maintenance
- Steam available quickly
- Electrical heating elements made of stainless steel with large heating surface
- Fully automatic operation possible
- Function and malfunction indications can be linked to central control system / building services control system provided by customer
- Exemplary customer service and spare parts availability 24/7/365
- Can be installed in work areas
- Spare parts available up to 20 years
- On request, all boiler parts can be made of stainless steel for pure steam production



# **Specifications**



- 1. Electric Steam Generator E 6-72M
- 2. Utility unit CVE E 6-72M
- 3. Mixing cooler 50 ltr.
- 4. Water softening plant
- 5. Water filter
- 6. Water meter

- 7. Safety valve
- 8. Manometer
- 9. Roller indicator level regulator / limiter
- DA. Steam
- KA. Drain
- SV. Safety Valve

- SL. Vent Outlet
- WA. Water
- KR. Condensate
- KS. Drain
- KB. Blowdown

Technical Data E 6 – 72 M		E 6 M	E 12 M	E 16 M	E 18 M	E 22 M	E 24 M	E 28 M	E 32 M	E 36 M	E 40 M	E 48 M	E 56 M	E 64 M	E 72 M
Steam output	kg/h	8	16	21	24	29	32	37	42	48	53	64	75	86	97
Heat output	kW	6	12	16	18	22	24	28	32	36	40	48	56	64	72
Power Stages			1-Stage	j				2-Stage:	S				3-St	ages	
Electrical Connection up to 0.6 MPa (6 bar) up to 1.2 MPa (12 bar)	kW	6.8 7.8	12.8 13.8	16.8 17.8	18.8 19.8	22.8 23.8	24.8 25.8	28.8 29.8	32.8 33.8	36.8 37.8	40.8 41.8	48.8 49.8	56.8 57.8	64.8 65.8	72.8 73.8
Operating Voltage								3 x 400	V/ 50 H	Z					
Admissable Pressure	MPa	0.6 / 1.0 / 1.2													
	bar							6/1	0/12						
Working Press min./max	. МРа	0.35 – 0.55 / 0.35 – 0.8 / 0.35 – 1.1													
	bar	3.5 – 5.5 / 3.5 – 8.0 / 3.5 – 11													
Water Capacity	ltr.							2	!8						
Dimensions H x W x D	mm				1850 x 8	880 x 68	30 (dept	h incluc	ling mo	unting a	pprox.	785 mm	)		
Empty weight approx.	kg		320												
Connections	Connections DN Water vapour 1" / Feed water 1/2" / Steam 1/2" / Safety Valve blow-off line 1" / Condensate 3/4"					/4"									



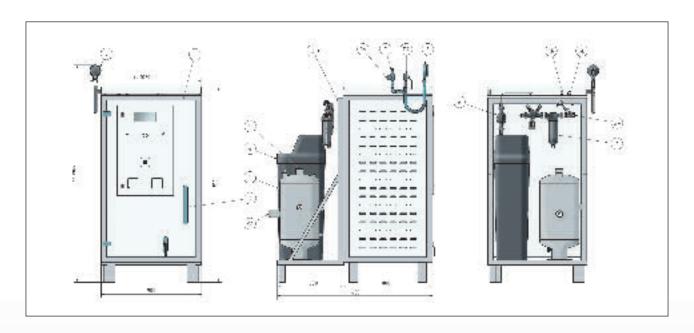
### **Electrical E 100**

The electric Steam Generator E100 is characterized by its short heat-up time, low space requirements and simplified service. Its losses are low and it offers immediate output adjustment. The steam output of this Generator ranges between 135 kg/h and 160 kg/h.

- Compact and space saving
- Direct access from the front for easy maintenance
- Steam available quickly
- Electrical heating elements made of stainless steel with large heating surface
- Fully automatic operation possible
- Function and malfunction indications can be linked to PLC/ central control system provided by customer
- Exemplary customer service and spare parts availability 24/7/365
- Can be installed in work areas
- Spare parts available up to 20 years
- On request, all boiler parts can be made of stainless steel for pure steam production



# **Specifications**



- Electric Steam 1. Generator E 100
- 2. Utility unit CVE E 100
- 3. Mixing cooler 50 ltr.
- Water softening plant
- 5. Water filter
- 6. Water meter
- 7. Safety valve
- 8. Manometer
- 9. Roller indicator level SL. Vent Outlet regulator / limiter
- DA. Steam
- SV. Safety Valve
- WA. Water
- KR. Condensate
- KA. Drain

Technical Data E100		Measurements, weights and further values are rounde Output values stated are related to 10°C feed water to Delivery complete including stainless steel water feed	emperature and 0.6MPa (6 bar) steam overpressures.					
Steam output	kg/h	135	160					
Heat output	kW	100	120					
Electrical Connection	kW	105	125					
Operating Voltage		3 x 400 V/ 50 Hz, alternative voltage on request						
Admissable Pressure	MPa	Optional equipment 0.6	/ 1.0 / 1.2 (6 / 10 / 12 bar)					
Working Press max.	MPa	0.5 / 0.8 / 1.0	(5 / 8 / 10 bar)					
Water Capacity	ltr.	38	8.8					
Dimensions H x W x L	mm	1925 x 1	005 x 800					
Empty weight approx.	kg	415						
Connections	DN	Vent 1" / Feed water 1/2" / Steam 1/2" / Sa	fety Valve blow-off line 1" / Condensate 3/4"					



## **CVE – CERTUSS Verified Equipment for Junior & Universal TC**

The **CVE** supply unit combines all components needed to supply the Steam Generator in one compact body. Instead of having to combine many single parts, our CVE offers all necessary add-on's for supply and water treatment in one. Thereby complex on-site installations are obsolete and factory-tested functional reliability is assured.

- Duplex water softening plant including Automatic dosing
- Brine tank
- Feed water tank with pre-heater
- Steam separator
- Blow-Down Vessel with automatic after cooler
- Control Panel
- Blowdown heat recovery system
- Pre -Pressure Pump
- Testomat; conductivity monitor





- All supply and water treatment components for CERTUSS Steam Generators are supplied as a single unit and are CERTUSS verified.
- Fast, economical commissioning, ready for operation
- Easy maintenance access
- Enhanced safety due to factory preinstallation of water, steam and electrical connections
- Less space required due to compact design
- Simple on site single point installation
- Complete with electrical sub distribution
- Durable galvanized base frame
- Use of approved, high quality materials
- 3D drawings available for easy design and layout



	For Steam	Di	mensions (mi	m)	Connections					
Model	Generators with steam output kg/h	Height	Width	Depth	Raw Water DN	Waste Water DN	Rinsing Water (softening) DN	Ventilation (feed water tank) DN	Condensate DN	
_	80 – 120				1"	2"	<sup>1</sup> / <sub>2</sub> "	2"		
Junior	150 – 200	1950	1300	850					1 1/4"	
	250 – 400									
_	500 – 600			1200	1"	2"	1/2"	DN 100		
ersa	700 – 850	2300	1700						1 <sup>1</sup> / <sub>2</sub> "	
Universal	1000 – 1300	2500	1700						1 72	
	1500 – 1800									
nits	2 x 80 – 120									
e Ur	2 x 150 – 200	2300	2200	1200	1"	2"	1/2"	2"	1 <sup>1</sup> / <sub>4</sub> "	
Multiple Units	2 x 250 – 400	2500	2200	1200	ľ	∠			1 /4	
Σ	2 x 500 – 600									

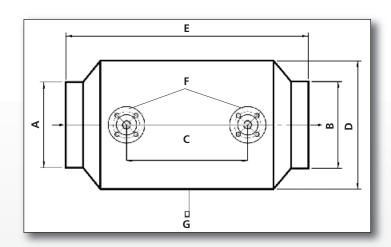


## **CERTUSS Economizer CERTECON for Junior TC 80 – 400**

An innovative solution for saving energy during operation of the oil- or gas-heated CERTUSS Steam Generators of the Junior 80 - 400 series.

Depending on the output level, operating pressure and utilization of the Steam Generator, the combustion-specific degrees of thermal efficiency increases to up to **5%**.



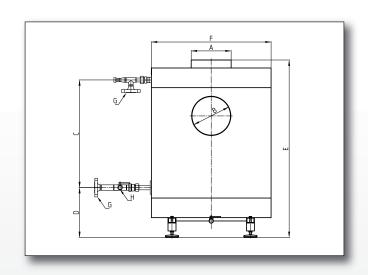


	CERTECON Junior		80 – 120	150 – 200	250 – 400
Α	Flue gas inlet Ø internal	mm	180	200	250
В	Flue gas outlet Ø external	mm	178	198	248
C	Connecting piece distance	mm	220	270	350
D	Height	mm	250	280	370
Ε	Widht	mm	590	640	740
F	Water inlet / outlet	DN	15	15	20
G	Drain flue gas condensate		1/2"	1/2"	1/2"
	Heat output at full load up to	kW	0.9 – 1.5	0.9 – 4.0	3.6 – 5.5
	Weight without water	kg	24	33	66
	Water capacity	- 1	0.91	1.99	3.86
	Operating overpressure max.	bar	40	40	40

# **CERTUSS Economizer CERTECON for Universal TC 500 – 2000**

The CERTUSS Economizer increases the degree of **generator efficiency** and reduces CO<sup>2</sup> emissions for generator systems fired by **natural gas or light oil**. As flue gas heat exchanger, it uses exhaust gas heat to increase the temperature of the boiler feed water and reduces fuel use by up to **5%** and gains efficiency up to 5%.





	CERTECON Universal		500 – 600	700 – 850	1000 – 1300	1500 – 1800
Α	Flue gas inlet Ø internal	mm	250	300	350	500
В	Flue gas outlet Ø external	mm	245	295	345	495
С	Connecting piece distance	mm	745	850	900	940
D	Distance floor / connecting piece	mm		35	55	
Е	Height	mm	1230	1325	1385	1450
F	Diameter	mm	780	900	1020	1100
G	Water inlet / outlet	DN		25		32
Н	Blowdown	DN		25		
1	Dewatering flue gas condensate			3,	<b>'4"</b>	
	Heat output at full load up to	kW	6 – 9	13 – 15	19 – 38	28 – 37
	Weight without water	kg	228	320	387	442
	Water capacity	T	23,9	43,1	51,6	71,6
	Operating overpressure max.	bar	40	40	40	40



## **Containerized Package Plant**

The CERTUSS fully equipped container unit is our solution in case isolation from the rest of your plant is required. It contains all components necessary to operate an entire plant.

After connecting the main services and commissioning, steam is at your disposal in less than 5 minutes. The self contained unit is **flexible**, allowing permanent, as well as temporary positioning.

On inquiry we can take over full or partial installation of the steam system. If you choose to contract out to other companies, we can carry out consultation and supervision for your containerized unit.

- Steam Generator(s)
- CVE supply unit
- Softening plant
- Pressure reducing station
- Steam distribution header
- Blowdown vessel with automatic after cooler
- Steam separator
- Condensate header
- Emergency stop switch
- ...and more





## **Container Advantages**

- Customizable
- Space saving
- Complete installation of both Mechanical and Electrical components, leaving only site service connections to be made
- Fully insulated walls for protection of equipment against adverse weather conditions
- High grade steel walls internally and externally
- European standard paint finish to customer specification
- Fully insulated pipe services internally of the container
- Optional steel door or UPVC door to suit customer specification
- Full internal lighting
- Full internal heating
- Flexible for temporary or permanent location positioning; Mobile unit
- Removes requirement for separate boiler-house
- Allows customer full usage of valuable process floor space
- Access space for maintenance work is fixed
- Reduced costs for site installation work







## All advantages at a glance

- Start-up time of **3 5 minutes** with steam available
- Minimal floor requirement
- Up to 98% thermal efficiency\*
- Reduced corrosion due to vertical orientation
- Low water carrier equals safe operations
- Fully automated, unmanned operation available
- Silent operation, less than 75 dBa sound pressure
- Reduction of piping costs due to **decentralized** plants
- 7" Touchscreen display
- Remote access via Ethernet, Wi-Fi or GSM (Cellular)
- Remote maintenance and control possible with iPad or **iPhone**
- Predictive maintenance: informing of potential issues **before** they occur
- Redundancy with multiple plant solution
- Mildly warm operating generator due to triplex air insulation vessel
- Minimal and easy maintenance with spare parts available up to 20 years
- 24/7/365 aftersales support
- **Less pollution** through low water drainage





\*Reference values: Natural gas 10 kW/Nm³ - 8600 kcal/Nm³, liquid gas 25,8 kW/Nm³ - 22200 kcal/Nm³. Dimensions and weights have been rounded up or down. MPa and bar are overpressure values. Performance values referenced to 100 °C feed-water temperature and 1 MPa (10 bar) steam overpressure. CERTUSS burner with flue-gas recycling (NO<sub>X</sub> reduction)\*.

1.	Do you want <b>quick start-up times</b> and steam almost <b>instantaneously</b> ?
2.	Do you have a boiler constantly in hot <b>standby</b> mode?
3.	Do you want to be more <b>environmentally friendly</b> ?
4.	Do you experience <b>fluctuations</b> in steam demand?
5.	Do you have <b>limitations in space</b> or want to use your space more <b>efficiently</b> ?
6.	Do you want to operate your generator <b>remotely</b> without having an operator on site all the time?
7.	Do you currently have an <b>aging</b> boiler?
8.	Do you face difficulties obtaining <b>replacement</b> and <b>spare parts</b> for your boiler?
9.	Do you experience efficiency losses due to long <b>distances</b> between the <b>production</b> and the <b>use</b> of steam?
10.	Do you prefer a <b>point of use</b> steam source?
11.	Do you have <b>maintenance</b> issues with your current boiler?
12.	Do you have confidence in the <b>quality and reliability</b> of your existing boiler?
	hecked <b>4</b> or more of these questions you should consider buying a gh efficiency steam generator by <b>CERTUSS!</b>

Please contact us for a non-binding offer!



### **Certificates**



### **CERTUSS Worldwide**

#### **CERTUSS-Gruppe**

#### Deutschland

CERTUSS Dampfautomaten GmbH & Co. KG Headquarters Hafenstr. 65 D-47809 Krefeld

#### Großbritannien

CERTUSS U.K. Limited 45 Gravelly Industrial Park Tyburn Road GB-Birmingham B24 8TG

#### USA

CERTUSS America L.P.
The Center for Building Energy Science (Building 661)
4960 South 12th Street, Philadelphia PA 19112, USA

#### Partner

#### Österreich

Steamtec GesmbH Triesterstr. 36 A-2512 Oeynhausen

### Belgien

SBT Engineering Europalaan 60-64 B-9800 Deinze

#### Bulgarier

Technoterm Engineering Ltd Adam Mitzkevich Str. 4 BG-1360-Sofia

### China

### **Shanghai Area & Jiangsu Province:**

Forschungsinstitut für Industriekessel Shanghai Baochang Road 297 200000 Shanghai China

### Zheijiang Province:

Hangzhou Bizhong Fine Machinery Co. LTD West Building, Zhongshan Beiyuan Hangzhou, PR China

### Kroatier

TIMONT d.o.o. Vidriceva 4 HR-10 000 Zagreb

### Tschechische Republik

AQUINA s.r.o. Olomoucká 447 CZ-796 07 Prostějov

### Dänemark

BOURVANIL Compagniet I/S Navergangen 1 DK-2690 Karlslunde

### Frankreich

LCI group – Centre Sud Est France 14, rue de Guebwiller Zone d'activités F-68700 Wattwiller

LCI group – Centre Nord Ouest France 39, rue Einstein PA du Château – BP 60129 F-62211 Carvin

### Griechenland

"THERMOTEKNIKI" G.M.B.H. Menelaoustr. 5 GR-57009 Kalochori-Thessaloniki

### Ungarr

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#### Indonesien

PT. Tekno Logam Sri Bumi Wisma Laena 5th Fl Suite 509 Jl. KH. Abdullah Syafi'i No. 7 ID-Casablanca Jakarta Selatan

#### Jordanien

Ameed Engineering Est. P.O. Box 1165 JO-11821 Amman

#### Kuwait

YOUSEF AL-AHMAD INT. GROUP General Trading & Cont.W.L.L. Co. P.O. Box 5168 Hawally KW-32082 Kuwait

#### Litauen

UAB "BALTSETA" Smilties pylimo g. 9/3 LT-92250 Klaipeda

### Malaysia und Thailand

TLSB TEKNOLOGAM SDN. BHD. Plot 3 Kawasan Perusahaan Sg. Petani (LPK) Fasa 4 MY-08000 Sungai Petani Kedah Darul Aman

#### Niederlande

SCHARFF Techniek BV Atoomweg 51 NL-3542 AA Utrecht

### Pakistan 🖟

Dynamic Apparel Technologies N-127 Block #14 Gulistan-e-johar PK 75290 Karachi

### Polen

SM 21 Energetyka Sp. z o.o. ul. Zgierska 73 PL-90-960 Łódź

### Rumänien

DEBITRON-TERMO SRL Strada Ion Mihalache Nr. 38 Bloc 33 A Scara B AP 64 Sector 1 Interfon 64 C RO-011192 Bukarest

### Russland

KOBLENZ & PARTNER GmbH Suschewskaja Str. 12 / 1 RU-127030 Moskau

### Singapu

Polytek Engineering
Division of Wearnes Engineering &
Distribution Pte Ltd.
801 Lor 7 Toa Payoh #05-00, Wearnes Building
Singapore 319319

### Schweiz

Josef STÖCKLI GmbH Dampfkessel- und Pumpenanlagen Breiten CH-6216 Mauensee

# **Slowakei** DOLNY TECHNIC s.r.o.

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### Slowenier

TERMO SHOP d.o.o. Rimska Cesta 176 SI-3311 Šempeter v Savinjski dolini

### Südkorea

SUNFOCUS Co. LTD Insutrial Goods Circulating Center Songnim 4-Dong, Dong-Gu KR-Incheon, Südkorea

#### **Spanien**

VYC Industrial Avenc del Daví, 22 Pol. Ind. Can Petit E-08227 Terrassa (Barcelona)

#### Taiwan

Colmac Co., Ltd. 110 Taipei World Trade Centre, Room 7D-04, No. 5, Sec 5 Hsin-Yiroad, Taipei, Taiwan 110, R.O.C.

### Tunesien, Marokko und Algerien (Maghreb)

Smart Technology Equipment Rue abou yousser Chibani BP: 42B TN Kairouan 3100

### Türkei

PERMAK Makina Tekstil Sanayi ve Ticaret A.S. Barbaros Bulvari 93 TR-80690 Beşiktaş-Istanbul

#### Ukraine

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#### Vereinigte Arabische Emirate Saudi Arabien, Oman, Qatar, Bahrain HRSFunke Heat transfers FZE

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Jebel Ali Free Zone PO Box 262243 Dubai, UAE

### Vereinigte Staaten von Amerika

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Arlington Heights, IL 60004-1954 New England Applied Products 40 L Street

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Cici Boiler Rooms, Inc. 7811 Baumgart Road Evansville, IN 47725

Buckpitt & Co. Inc. 88 University Avenue Rochester, NY 14605

Centurion Process, LLC 4001 Summitview Ave. Suite 5-127 Yakima, WA 98908

Fluid Technology Corporation 1631 NE 55th Avenue Des Moines, IA 50313

Commercial Products Corporation 7802-A Professional Place Tampa, FL 33637

MPN Boilers 2 Hudson Street Sleepy Hollow, NY 10591

Willbanks & Associates, Inc. 6610 Stillwell Street Houston, TX 77087

### Vietnam

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