



RENTAL MOBILE STEAM BOILER

Plug & Play · Diesel Fired · Container Package System



5 t/h	6 bar(g)	3.5 MW
Total steam flow	Operating pressure	Thermal capacity

Ready to deliver the solutions you need.

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Why Proses?

Mobile steam rental solution in Türkiye

Temporary steam becomes critical during main boiler failure, turnarounds, commissioning steam blows, or early startup before the permanent boiler is available.

Proses is not just an equipment rental company. With 30+ years of combined team experience, we use this same package on our own VGB S-513 compliant chemical cleaning, steam blowing and commissioning projects. Rental, engineering and field support are delivered from a single source.

The Proses difference

- Company-owned equipment — no dependency on third-party suppliers
- Project experience in chemical cleaning and steam blowing across 65,000+ MW of capacity
- Optional installation, commissioning, operators and steam blow crew



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Plug & Steam

Modular container package

Module	Contents
40 ft HC container	2 × 2,500 kg/h diesel-fired steam boilers, burners, PLC automation, feed pumps, safety valves and fittings
12 ft container	Flue stacks / chimneys, diesel storage tank
Site connections	Steam outlet DN80 PN16, feed water 2", diesel 1", spring-loaded safety valves, feed water regulator, power (customer supply)

Key advantages

- Fast mobilization — transported by truck, rapid on-site setup
- Independent fuel supply — runs on diesel, not tied to plant gas network
- Compact footprint — can be installed in limited site areas
- High steam capacity — 2 × 2.5 t/h independent boilers; one standby or parallel operation
- Optional full service — installation, commissioning, operators, steam blow support



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Technical Specifications

Steam generator datasheet

Per boiler / total system

Parameter	Value
Steam flow	2.5 t/h (per boiler) · 5 t/h total
Thermal capacity	1,744 kW (per boiler) · 3.5 MW total
Operating pressure	6 bar(g) — cuts out at 6 bar, cuts in at 5.5 bar
Design pressure	7 bar(g)
Test pressure (hydrostatic)	10.5 bar(g) — TSE EN 12953, PED 2014/68/EU
Fuel	Diesel (Light Diesel Oil, BS2869 Class A2)
Burner	Flam SC 10.1 LZ — 850–2,750 kW, 71–231 L/h (per boiler)
Total diesel consumption	142–462 L/h (2 boilers at full load)
Stack	Ø350 mm
Steam outlet	DN80 PN16 (2 lines)
Feed water	2 × feed pumps — supplied by customer
Container (40 ft)	12,030 × 2,440 × 2,590 mm
Container weight (40 ft)	18,600 kg
Container weight (20 ft)	3,100 kg
Year of manufacture	2021
Serial no.	825, 826



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Application Scenarios

Scenario	Benefit
Emergency boiler backup	Reduces production downtime during main boiler failure
Turnaround & maintenance	Process steam continues while permanent boiler is offline
Commissioning & steam blow	Temporary steam source for VGB S-513 compliant blows
Early startup	Plant operation before permanent energy infrastructure is ready
Industrial process steam	Auxiliary steam for refining, paper, food, chemical and power plants

Industries served

Power plants · Refining & petrochemical · Pulp & paper · Food & beverage · Cement · Chemical · Biomass / process facilities



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Service Model

Phase	Proses deliverables
Technical pre-assessment	Flow (t/h), pressure, duration, site area, logistics
Layout / visualization	Coordination with client and contractors
Logistics & mobilization	Trucking, crane, permits
Installation & commissioning	Connections, testing, fine-tuning
Operation	Client operators or Proses field team (optional)
24/7 support	Breakdown response and emergency intervention (optional)
Demobilization	Dismantling, removal, site handover



Quotation & Rental Terms

Information required for a quotation

- Required steam flow — in t/h (tonnes per hour)
- Operating pressure — bar(g)
- Rental period — weekly
- Site location, logistics access and installation area
- Feed water — supplied by customer
- Power — supplied by customer (380 V, 3N, 50 Hz); package includes feed and distribution panels
- Diesel supply — supplied by customer

Proses provides	Customer provides
Mobile steam boiler package (40 ft + 12 ft)	Feed water
Feed & distribution panels	Power supply connection
Installation, commissioning (optional)	Diesel
24/7 technical support (optional)	Site area & permits
Mobilization & demobilization	

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