Atlas Copco Rental

Specialty steam book

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Specialty Steam hubs across the Middle East & India

For short or long term, demands, **planned contingencies** or **emergencies**, Atlas Copco Rental is available 24/7 to assist you and provide the most **cost- and energy-effective temporary team solutions**. Our fleet consists of state-of-the-art material that allows us to design solutions that will meet your specific needs. Quality of service, environmental care and personnel safety are guaranteed by our triple ISO certification. An industry first.

Our network of Steam Hubs is connected to all Atlas Copco Rental locations across the Middle East & India. Assuring quick and efficient interventions for emergencies or planned contingencies.

Fleet

Minimize downtime and disruption

Whilst an annual occurrence, we hear from many people that a boiler's service can often be here before they know it! However, taking a proactive approach is critical to ensuring minimum downtime and disruption.

To mitigate the impact boiler maintenance may have on your productivity, we can supply you with a temporary solution to cover boiler outages. A well planned and executed hire boiler installation can mean a seamless transition from permanent to temporary solution, leaving operations running at 100% and minimizing the impact during the install and transitional phase.

Early planning is therefore critical to guarantee that you have secured the most suitable assets. Don't leave it too late and run the risk of the required equipment being unavailable, meaning you have to implement a boiler not adequately suited to your process or even worse be left without a solution!

The benefits of early planning for your temporary solution are extensive

- ✓ **S**olve and identify any problems or concerns in advance.
- ✓ **T**ake the pressure off the outage period.
- ✓ **E**nsure availability of the most appropriate asset.
- ✓ **A** planned approach can be accounted for within annual budgets.
- ✓ **M**inimise impact on operations.

Plug and steam
hypermobile modular steam solution

When faced with a sudden decline in steam production or availability, getting a temporary steam installation onsite, and up and running, is time-consuming. And when steam is running, time is a commodity we don't have. Logistical restrictions, commissioning, etc.

Thanks to Atlas Copco Rental's hypermobile specialty steam solutions, we are not only onsite quickly, but we can start steam production even quicker. Our signature "Plug and steam" solutions are available from 1,3 ton/hour up to 8 ton/hour and starting from a 20' footprint.

Advantages for you:

- ✓ Immediate availability
- ✓ Maximum capacity on minimal footprint
- ✓ Swift commisioning
- ✓ Dual fuel and low NOx burner
- ✓ Automatic continuous desalting and blow down
- ✓ Safe platform access
- ✓ User-friendly touch panel
- ✓ Hybermobile – no special logistical requirements
- ✓ Up to 8t/hour plug and steam concept

Three pass fire tube boilers equipped with dual fuel burners.

(natural gas or light fuel oil) boilers

Our fleet consists of “three pass fire tube boilers” offering excellent pressure consistency and steam quality, even when steam demand fluctuates significantly. This optimizes boiler operation and ensures reliable availability of the process heat. The mobile boilers are equipped with dual fuel burners bringing the flexibility you need to be reactive and agile. Furthermore, the Low NOx design guarantees emissions in accordance with MCPD.

Advantages

- ✓ Mobile and hypermobile packaged boilers
- ✓ Easy and safe installation process
- ✓ From single boiler to complete boilerhouse
- ✓ Emissions according MCPD

Steam solutions to suit your temporary needs
Reliable, safe, agile and efficient

For many processes in food and beverage, (petro)chemicals or paper, steam is a vital utility. If you have a temporary demand for steam, whether planned or unexpected, Atlas Copco has a reliable, safe and energy-efficient solution on rent.

Maintenance, testing or temporary production increase; we make sure you receive a bespoke solution to keep your production running full steam.

To ensure you get a fast start-up and a safe installation, Atlas Copco Rental's powerful fire tube boilers are energy-sufficient and come complete with all the necessary accessories.

Wherever and whenever you might need support during your project, our service technicians are on call 24/7.

Some of the segments we serve

Chemicals

Refineries

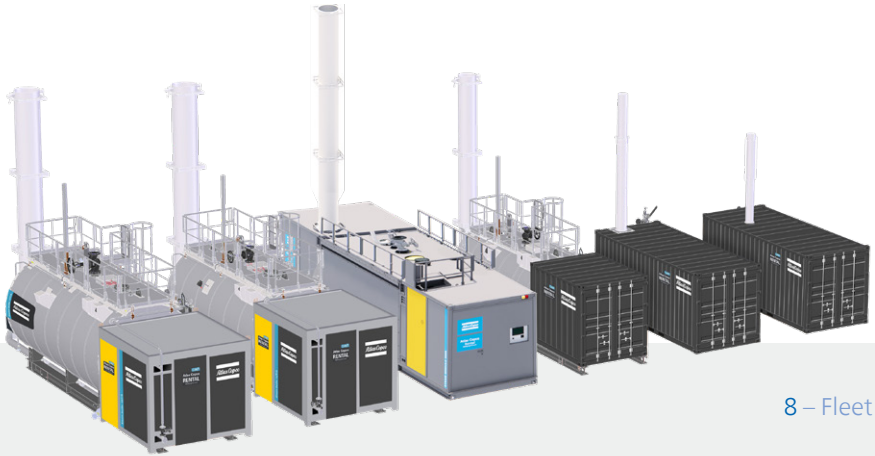
Food and Beverage

Pulp and paper

Offshore

Technical specifications

	Max. capacity (feedwater at 103°C)		Maximum steam pressure	Electrical power requirement	Dimensions during operations (without chimney height)	Tare weight
	kg/h	lb/h	barg	kW	l x w x h (mm)	kg
1,3T	1.300	3.000	14	5	6.000 x 2.500 x 2.600	8.000
2T	2.000	4.409	10.34	3	6.060 x 2.840 x 2.540	12.250
2.7T	2,700	5.952	10.34	3	6.060 x 2.440 x 2.590	15.000
3T	3.000	7.000	14	15	6.800 x 2.500 x 2.600	12.000
6T	6.600	14.000	25	30	9.300 x 3.350 x 3.800	23.000
8T	8.000	17.500	14.5	40	12.200 x 2500 x 10800	28.100
12T	12.300	27.000	25	60	10.700 x 4.230 x 4.280	36.000
16T	16.000	35.000	22	70	11.500 x 4.500* x 3.650	43.000



Accessories

Accessories to increase efficiency
Economiser

When smoke leaves the chimney, it is still at a high temperature. An Economiser is a heat exchanger that recovers that heat, which is lost otherwise and uses it to preheat feedwater. When installed, it significantly increases efficiency up to 6% by directly impacting fuel savings and emission reduction.

As a result, you will be able to produce the same amount of steam at reduced fuel consumption or more steam at conventional levels of fuel consumption. In addition, the financial savings generated by the decrease in fuel consumption could offset the rental cost of the boiler.

The benefits of using an economiser include:

- ✓ Saved fuel = Financial savings
- ✓ Improved efficiency = Less input for the same output
- ✓ Reduced environmental impact = Less CO_2, less Nitrogen Oxides (NOx), and other products of combustion

Accessories to increase temperature Superheater

Because your steam equipment cannot handle water drops or because your steam network is very extensive, you are forced to use superheated steam. Atlas Copco offers different superheated steam solutions to cover your specific needs.

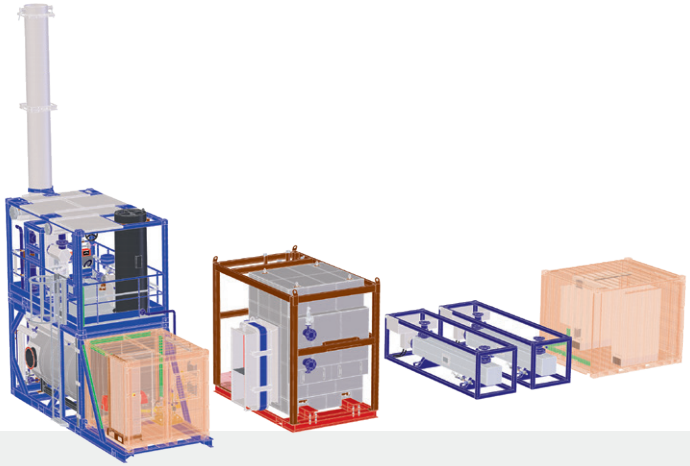
Our modular superheaters are installed downstream of our mobile boilers to increase the temperature of the steam up to 400°C.

Steam superheaters

	Max. capacity	Energy	Max T°	Design pressure		Footprint	Weight in operation
	kW/h		°C	bar	psig	mm	kg/lbs
ESH	200	Electricity	350	28	400	3.000 x 2.500 + 2x (1.250 x 4.400)	4000 / 9000
ISH	600	Boiler flue gases	330	28	400	4.100 x 2.500	8000 / 18000
FSH	1300	Nat. Gas or Diesel + electricity	400	28	400	8.500 x 2.500	25000 / 55000

Main product features

- ✓ Designed for easy transportation and fast set-up
- ✓ Modular equipment for bespoke solutions

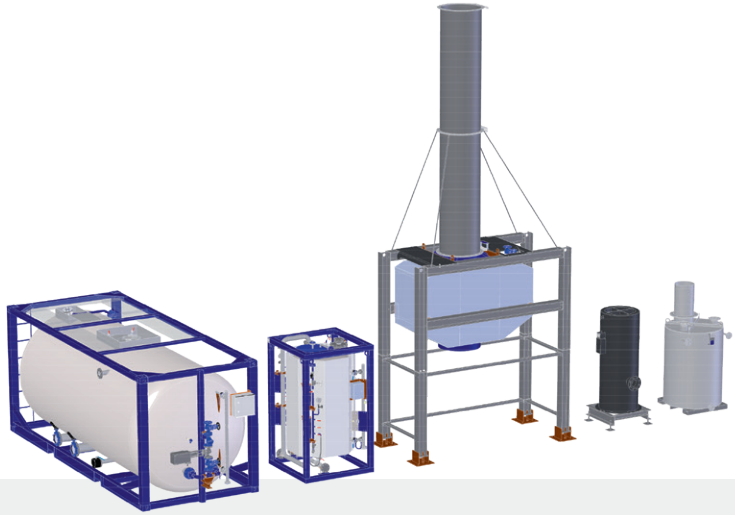


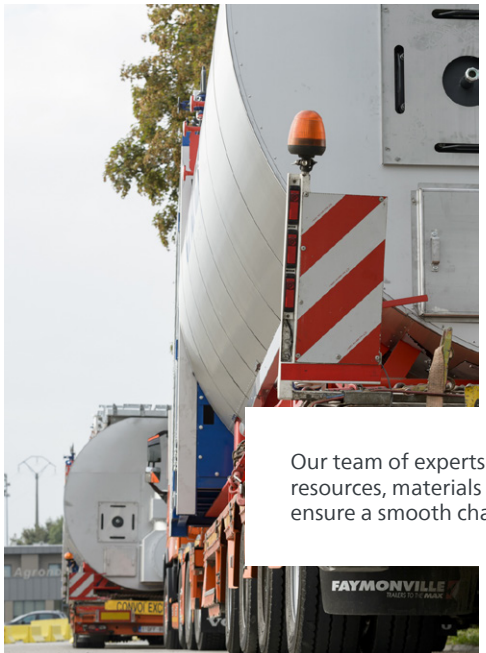
Boiler related equipment

	Equipment	Compatibility	Footprint	Weight in operation
			mm	kg/lbs
Large FWT	Feed water tank	For 12t/h and 16t/h boilers	6.000 x 2.500	30.000 / 66.000
Small FWT	Feed water tank	For 3t/h and 6t/h boilers	1.500 x 1.500	4.000 / 8.900
Eco	Smoke economizer	For 12t/h and 16t/h boilers	1.600 x 3.350	5.000 / 11.000
Silencer	Steam silencer	30.000 kg/h 66.000 lb/h	1.000 x 1.000	500 / 1.100
Large BDT	Blow down tank	For 12t/h and 16t/h boilers	Ø 1.500	700 / 1.550

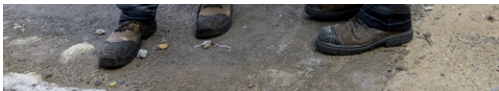
Other equipment

- ✓ Insulated steam lines
- ✓ Steam manifolds
- ✓ Steam pressure reducers
- ✓ Gas pressure reducers
- ✓ Light fuel oil tanks and feeding pumps
- ✓ Etc.





Our team of experts will also work with you to prepare any resources, materials and procedures required in advance to ensure a smooth change of process.



More than machines

A large project coming up?

Atlas Copco Rental has the experts and equipment to meet every milestone. For short or long-term rental of high quality air, nitrogen, steam or reliable power and state-of-the-art accessories, we are able to meet your needs around the clock for the entire duration of the project.

Seeing is believing: Total Solution Visualization

Your requirements: by providing an accurate visual presentation of the Atlas Copco Rental setup, all involved parties can assess and coordinate prior to the pre-commissioning phase. This ensures the highest operational efficiency once installation commences. We can provide detailed 3D images, videos, 2D installation drawings, and more upon request. Even if footprint isn't your first concern, visualization has many other advantages.

Mitigate risks: thanks to accurate simulations QHSE focus points and other challenges can be determined well in advance and all involved parties can be briefed.

Certification and compliance: Total Solution Visualization allows us to provide all compliance documents needed for project certifications and other administrative requirements.

Peace of mind: by visualizing the setup, you know exactly what to expect. This allows you to align contractors well in advance, which, in turn, improves operational efficiency throughout the project.

Exceeding your expectations: by adding the Total Solution Visualization tool to our services, we further emphasize our Total Solution approach.

Full service and complete expertise

- **Calculation & design:** to answer your specific needs, our specialists make all calculations and design a customized set-up according to industrial standards.
- **QSHE management:** the main focus points we take into account for your solution are quality, safety, health and environment.
- **Logistics:** your installation's entire journey is planned and arranged, to and from your premises in no time.
- **Installation:** trained technicians set up your installation on-site, safely and quickly.
- **Trainings:** our partnership is a two-way stream.We arrange custom-made trainings for your operators and technicians so they can operate the equipment correctly and efficiently, and your feedback helps us optimize our services.
- **Commissioning:** to ensure your production quality, our service engineers start up the installation with you and we will fine-tune the set-up together.

- **Operators:** trained employees (either yours or ours) operate the machinery on-site.
- **Maintenance and monitoring:** to make sure all the equipment runs in the perfect conditions required for your challenge, we visit your site regularly.
- **24/7 service:** we remain available 24/7 for any questions, changing demands or emergencies you might have and can provide you with a 1st or 2nd technician on call.
- **Decommissioning:** the complete installation is dismantled and removed from your premises for you.

Project Management: the right people for the job

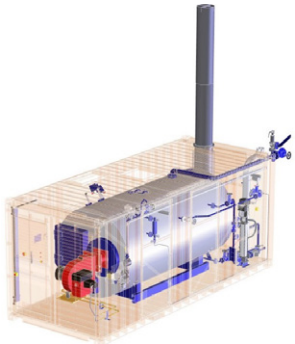
Our Project Management Team combines solid expertise with trusted industry experience. You are not looking for specific equipment, but a resource performing according to specific parameters. Your complete, extensive project will be examined down to the last detail and the team will design the right Total Solution for your unique project.

Boiler datasheets

Steam boiler 1,3T

Main features
Delivery includes PLC controller, burner, feedwater pumps and chimney
Up to 72 hours of unsupervised operation
No special convoy transport required

Options
Blow down tank
Gas pressure reducer
Steam pressure reducer
Feed water tank
Rigid pipes and flexible hoses
Fuel tank
Steam silencer



Dimensions (L x W x H)		
Transport	mm	6000 x 2500 x 2600
Operation excl. chimney	mm	6000 x 2500 x 3000
Operation (incl. chimney)	mm	6000 x 2500 x 6000

Weight		
Empty	kg	8000
	lbs	17637
Full	kg	11000
	lbs	24251

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption gas	Nm^3/h	95
Max fuel consumption light fuel oil	l/h	95

Performance		
Max capacity (with feed water @ 103°C)	t/h	1.3
	lbs/h	3000
Max working pressure	barg	14
	psig	204
Sound pressure level @ 7m	dB(A)	?

Required power supply		
Voltage	V	3 x 400 (50Hz) without neutral
Power (incl. feed water)	kW	5
Required circuit breaker	A	3 x 16 (D curve)

Connections	
Water pump inlet	DN40 PN16 (EN 1092-1) type B
Water pump bypass inlet	Tbc
Power inlet	Tbc
Gas inlet	DN50 PN16 (EN 1092-1) type B
Light fuel oil inlet	1" quick connect acc. ISO 7241-1 B
Light fuel oil return	1" quick connect acc. ISO 7241-1 B
Condensate outlet/return	2x DN50 PN40 (EN 1092-1 type B)
Sludge purge	DN80 PN40 (EN 1092-1 type B)
Steam outlet	DN80 PN25 (EN 1092-1 type B

Steam boiler 2, 2.7T

	Working pressure	Max capacity	Power supply	Dimensions	Weight	Fuel tank capacity
	barg	kg/hr	V, PH, Hz, Amp	L x W x H	kg	L
Steam boiler	2	2000	3	6060 x 2840 x 2540	12250	1000
Steam boiler	2.7	2700	3	6060 x 2440 x 2590	15000	1000

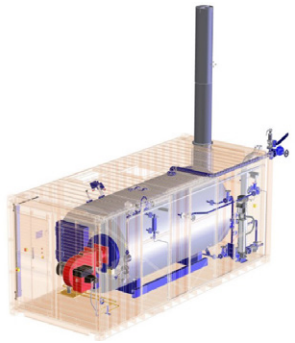
Main product features

- 20ft. DNV 2.7-1 container certified lifting frame
- Safe Area Use
- Sound attenuated enclosure
- Exhaust gas spark arrestor

Steam boiler 3T

Main features
Delivery includes PLC controller, burner, feedwater pumps and chimney
Up to 72 hours of unsupervised operation
No special convoy transport required

Options
Blow down tank
Gas pressure reducer
Steam pressure reducer
Feed water tank
Rigid pipes and flexible hoses
Fuel tank
Steam silencer



Dimensions (L x W x H)		
Transport	mm	6000 x 2500 x 2600
Operation excl. chimney	mm	6800 x 2500 x 300
Operation (incl. chimney)	mm	6800 x 2500 x 6000

Weight		
Empty	kg	12000
	lbs	26455
Full	kg	16000
	lbs	35274

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption gas	Nm^3/h	227
Max fuel consumption light fuel oil	l/h	215

Performance		
Max capacity (with feed water @ 103°C)	t/h	3
	lbs/h	7000
Max working pressure	barg	14
	psig	204
Sound pressure level @ 7m	dB(A)	?

Required power supply		
Voltage	V	3 x 400 (50Hz) without neutral
Power (incl. feed water)	kW	15
Required circuit breaker	A	3 x 32 (D curve)

Connections	
Water pump inlet	DN40 PN16 (EN 1092-1) type B
Water pump bypass inlet	Tbc
Power inlet	Tbc
Gas inlet	DN50 PN16 (EN 1092-1) type B
Light fuel oil inlet	1" quick connect acc. ISO 7241-1 B
Light fuel oil return	1" quick connect acc. ISO 7241-1 B
Condensate outlet/return	2x DN50 PN40 (EN 1092-1 type B)
Sludge purge	DN80 PN40 (EN 1092-1 type B)
Steam outlet	DN80 PN25 (EN 1092-1 type B

Steam boiler 6T

Main features
Delivery includes PLC controller, burner, feedwater pumps and chimney
Up to 72 hours of unsupervised operation
No special convoy transport required

Options
Blow down tank
Gas pressure reducer
Steam pressure reducer
Feed water tank
Rigid pipes and flexible hoses
Fuel tank
Steam silencer

Dimensions (L x W x H)		
Transport	mm	9300 x 2500 x 2900
Operation excl. chimney	mm	9300 x 3350 x 3800
Operation (incl. chimney)	mm	9300 x 3350 x 7000

Weight		
Empty	kg	23000
	lbs	50706
Full	kg	34000
	lbs	74957

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption gas	Nm^3/h	470
Max fuel consumption light fuel oil	l/h	485

Performance		
Max capacity (with feed water @ 103°C)	t/h	6.6
	lbs/h	14000
Max working pressure	barg	25
	psig	363
Sound pressure level @ 7m	dB(A)	TBC

Required power supply		
Voltage	V	3 x 400 (50Hz) without neutral
Power (incl. feed water)	kW	30
Required circuit breaker	A	3 x 63 (D curve)

Connections	
Water pump inlet	DN65 PN16 (EN 1092-1) type B
Water pump bypass inlet	DN50 PN40 (EN 1092-1) type B
Power inlet	Tbc
Gas inlet	Depends on pressure reduction
Light fuel oil inlet	1" quick connect acc. ISO 7241-1 B
Light fuel oil return	1" quick connect acc. ISO 7241-1 B
Condensate outlet/return	2x DN50 PN40 (EN 1092-1 type B)
Sludge purge	DN80 PN40 (EN 1092-1 type B)
Steam outlet	DN125 PN40 (EN 1092-1) type B

Steam boiler 8T

Main features
Delivery including Boiler, PLC controller, burner, chimney, feed water and blowdown system.
Up to 72 hours of unsupervised operation
No special convoy transport required

Options
Gas pressure reducer
Steam pressure reducer
Fuel tank
Steam silencer
Rigid pipes and flexible hoses
Economizer (heat recovery of exhaust fumes)

Dimensions (l x w x h)		
Transport	mm	12192x2500x2890
Operation (incl. chimney)	mm	12192x2500x10800

Weight		
Transport weight	kg/lb	28100/62000

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption-Gas	Nm^3/h	550
Max fuel consumption-Light fuel oil	l/h	575

Performance		
Max capacity (with feed)	kg/h-lb/h	8000/17500
Max working pressure	barg/psig	14.5/210
Safety valve pressure	barg/psig	16/232
Ambient limits	°C	0 to 40

Required power supply		
Voltage	V	3 x 400 (50Hz)
Power: burner + pumps	A	125 (5pin socket)
Power: controls + light	A	32 (5pin socket)

Connections	
Feed water tank inlet	DN25 PN16
Water pump bypass inlet	DN50 PN40 (EN 1092-1) type B
Power inlet	tbc
Gas inlet	DN150
Light fuel oil inlet	DN50
Light fuel oil return	DN40
Condensate outlet/return	DN40
Feedwater tank vent	DN250
Steam outlet	DN250 PN40 (EN 1092-1) type B

Steam boiler 12T

Main features
Delivery includes PLC controller, burner, feedwater pumps and chimney
Up to 72 hours of unsupervised operation

Options
Blow down tank
Gas pressure reducer
Steam pressure reducer
Feed water tank
Rigid pipes and flexible hoses
Fuel tank
Steam silencer

Dimensions (L x W x H)		
Transport	mm	10700 x 3000 x 3400
Operation excl. chimney	mm	10700 x 4230 x 4280
Operation (incl. chimney)	mm	10700 x 4230 x 8200

Weight		
Empty	kg	36000
	lbs	79366
Full	kg	53000
	lbs	116845

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption gas	Nm^3/h	850
Max fuel consumption light fuel oil	l/h	870

Performance		
Max capacity (with feed water @ 103°C)	t/h	12.3
	lbs/h	27000
Max working pressure	barg	25
	psig	363
Sound pressure level @ 7m	dB(A)	TBC

Required power supply		
Voltage	V	3 x 400 (50Hz) without neutral
Power (incl. feed water)	kW	60
Required circuit breaker	A	3 x 125 (D curve)

Connections	
Water pump inlet	DN100 PN16 (EN 1092-1) type B
Water pump bypass inlet	DN50 PN40 (EN 1092-1) type B
Power inlet	Tbc
Gas inlet	Depends on pressure reduction
Light fuel oil inlet	1" quick connect acc. ISO 7241-1 B
Light fuel oil return	1" quick connect acc. ISO 7241-1 B
Condensate outlet/return	2x DN50 PN40 (EN 1092-1 type B)
Sludge purge	DN80 PN40 (EN 1092-1 type B)
Steam outlet	DN200 PN40 (EN 1092-1) type B

Steam boiler 16T

Main features
Delivery includes PLC controller, burner, feedwater pumps and chimney
Up to 72 hours of unsupervised operation

Options
Blow down tank
Gas pressure reducer
Steam pressure reducer
Feed water tank
Rigid pipes and flexible hoses
Fuel tank
Steam silencer

Dimensions (L x W x H)		
Transport	mm	11500 x 3200 x 3650
Operation excl. chimney	mm	11500 x 4500 x TBC
Operation (incl. chimney)	mm	11500 x 4500 x 8400

Weight		
Empty	kg	43000
	lbs	94799
Full	kg	62000
	lbs	136686

Fuel		
Type		Gas or Light fuel oil
Max fuel consumption gas	Nm^3/h	1100
Max fuel consumption light fuel oil	l/h	1150

Performance		
Max capacity (with feed water @ 103°C)	t/h	16
	lbs/h	35000
Max working pressure	barg	22
	psig	320
Sound pressure level @ 7m	dB(A)	TBC

Required power supply		
Voltage	V	3 x 400 (50Hz) without neutral
Power (incl. feed water)	kW	70
Required circuit breaker	A	TBC

Connections	
Water pump inlet	DN100 PN16 (EN 1092-1) type B
Water pump bypass inlet	DN50 PN40 (EN 1092-1) type B
Power inlet	Tbc
Gas inlet	Depends on pressure reduction
Light fuel oil inlet	1" quick connect acc. ISO 7241-1 B
Light fuel oil return	1" quick connect acc. ISO 7241-1 B
Condensate outlet/return	2x DN50 PN40 (EN 1092-1 type B)
Sludge purge	DN80 PN40 (EN 1092-1 type B)
Steam outlet	DN200 PN40 (EN 1092-1) type B

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rental.me@atlascopco.com

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