

Atlas Copco Rental

Specialty steam book



Atlas Copco

Atlas Copco Rental Specialty Steam hubs across Europe

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 Europe. 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.

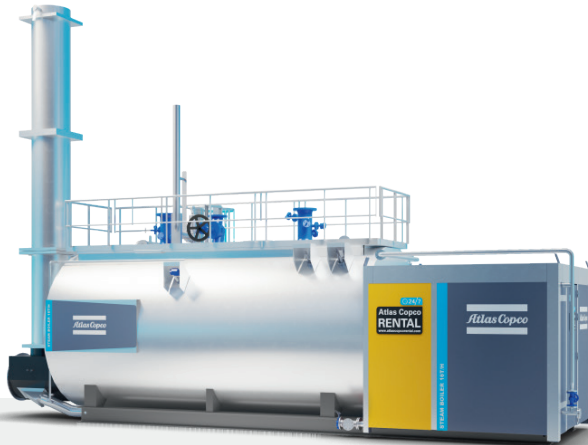


Advantages for you:

- ✓ Immediate availability
- ✓ Maximum capacity on minimal footprint
- ✓ Swift commissioning
- ✓ 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
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





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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 CO₂, 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.

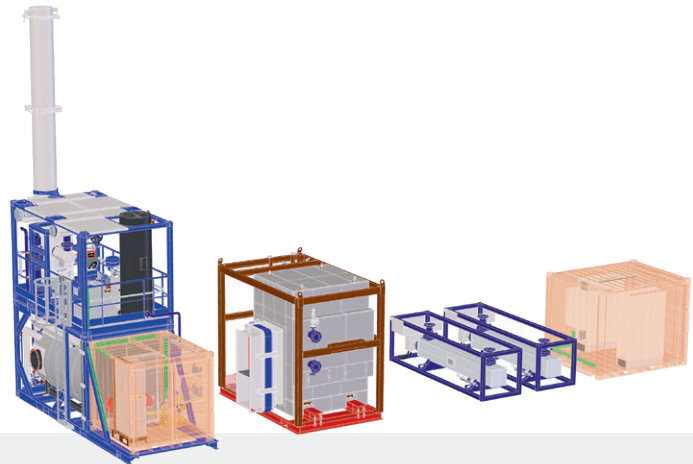


Steam superheaters

	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

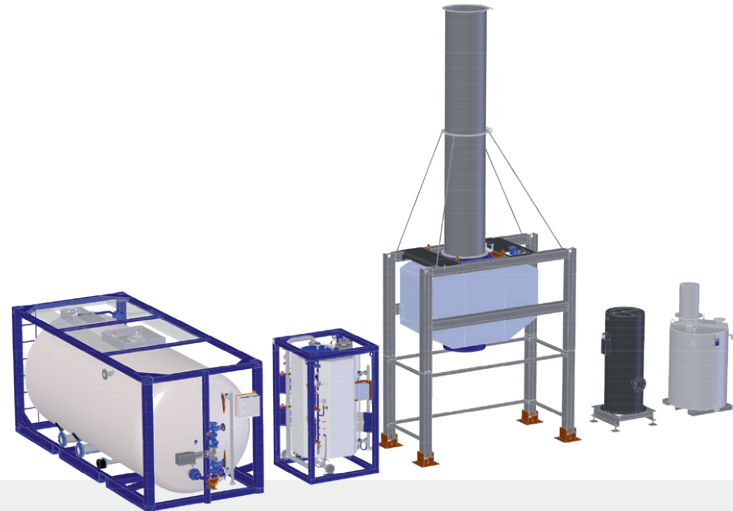


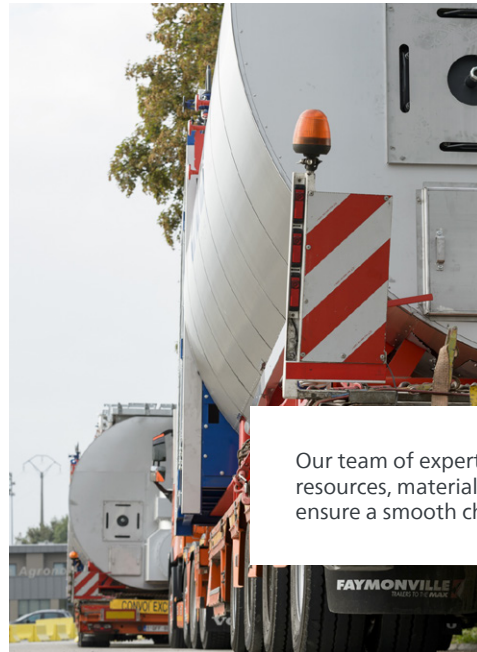
Boiler related equipment

	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.



FAYMONVILLE
MADE IN FRANCE



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.



Air



Nitrogen



Power



Steam



Offshore

- **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.





Customer stories

Temporary Steam Solution helps move launch date forward.

InnovaFeed, a leading French company in the insect-breeding and -processing industry, has called on LTS to implement a temporary energy production solution for its new large-scale production site in Nesle, a commune in the Hauts-de-France region of France. This solution will allow InnovaFeed to bring the launch date of their site forward by six months.



In 2019, InnovaFeed began building a new production site in Nesle with a capacity of 15,000 metric tons of insect protein per year. This production unit is located in the immediate vicinity of the Tereos Group's starch plant, which allows for an industrial collaboration between the two sites. Therefore adding value to joint products, saving energy, and reducing the required transportation.

In the long term, energy supply will be provided through a connection with KOGEBAN, a nearby biomass cogeneration plant that produces electricity and thermal energy at the Nesle site using wood from local, sustainably managed forests. The connection with KOGEBAN will become operational in the first quarter of 2021. InnovaFeed has therefore commissioned LTS to provide a Temporary Solution for producing a mix of thermal energy in the form of steam and hot water, thus making the site operational six months earlier than would otherwise have been possible.

Space might be limited, but the solution isn't

Each project has its challenges. In this case, it was the combination of the limited available footprint and required thermal capacity. How much space exactly, you ask? We had 11m x 17m to work with, and our equipment had to generate 4t/h of steam and 5MW of warm water. A different steam capacity was also required during each of the two phases of the project. The Total Solution combined a steam/hot-water boiler and vertical structure for stacking the exchanger and steam distribution header, as well as the feedwater tank.

More steam? Here comes the Atlas Copco Rental Team!

Our customer, DOW Chemical Ibérica, needed a temporary substitution of steam. Together with our European Steam Experts, the team in Spain designed and installed a Total Solution capable of providing the requested volume of steam.

Location, Location, Location

ChemMed Tarragona is a major petrochemical, industrial, academic, logistical, and scientific cluster located on the Mediterranean coast in Catalonia. It accounts for 25% of Spain's total chemical production. Dow Chemical Ibérica, located on the cluster, is one of the European subsidiaries of The Dow Chemical Company. The third-largest chemical company in the world and the largest in plastics. While our team had a large footprint to work with, we did have to take the constant coming and going of on-site traffic into account. On hand, our Steam Solution had virtually unlimited space available, on the other there were plenty of safety restriction to take into account. After careful calculations and designing, we installed an efficient, safe, and easily accessible Steam Solution that consisted of the following setup:

- 3 x steam boiler
- 1 x 200kW electrical superheater
- 1 x steam dryer
- 1 x steam silencer
- 1 x large feedwater tank
- 2 x light fuel oil tank (60m³ +20m³)

If you're thinking "that sounds like a large setup" you are not mistaken.



A complete Total Solution

You probably know what a steam boiler is, but you might be less familiar with the other things on the list above. Here is a brief explanation of some of the less obvious equipment. A "Superheater" converts saturated or wet steam into superheated or dry steam. Superheated steam is used in, for example, steam turbines or steam engines but also when steam network is large. The Steam Dryer is necessary to dry limit condensation as much as possible, to increase the efficiency of the Superheater. Last but not least, the Silencer, admittedly, is a little obvious. It enables us to commission the installation without perturbation on the customer steam network and reduces significantly the noise level of venting steam.

Although eventually the boilers were not started up, we met our customer's expectations on designing the requested unit to fulfill their needs, as well as supply and install the Total Solution in record time. A successful collaboration!

Full steam ahead for Ineos Phenol

Temporary steam keeps German chemicals plant online during turnaround maintenance

The cluster effect in Germany's densely developed Ruhr region allows companies like our client, Ineos Phenol, to profit from all kinds of synergies. The proximity of the neighboring powerplant, for example, enables the supply of efficient power and steam directly to the chemical producer's production facility. But what happens when those service lines are shut down for scheduled maintenance, as they are every two years? Then you call the Temporary Solutions provider and the Steam Experts for advice.

A hot topic

Located in the heart of Germany's industrial Ruhr region, Ineos Phenol's chemicals plant in Gladbeck takes full advantage of the surrounding cluster to boost the efficiency and sustainability of its operations. Fed directly into the plant via a fixed pipeline, for example, Ineos Phenol relies on a constant flow of steam from the nearby power station. The steam is used for operating valves in certain production flows, to power auxiliary heating systems.

In fact, without a constant, steady, and reliable influx of steam to the plant, our customer risks losing significant production capabilities. Hence, the need for a robust Temporary Solution from a trusted partner with a flawless track record.

A solid solution

Ineos Phenol had already witnessed the added value of Atlas Copco Rental's renowned speed and agility first hand with previous nitrogen, power, and compressed air projects. Now it was time to prove just how reliable, economical, and hassle-free our temporary steam solutions can be as well!

Florian Heinrich, Sales Engineer at Atlas Copco Rental Germany:

"Our client was quickly convinced by our proposal from a commercial and technical point of view. But given the critical nature of the plant's steam supply, it was the system uptime guarantee built into the solution that clinched the deal. Around-the-clock operation and monitoring by our expert team on-site also added to their peace of mind, guaranteeing safe operations, fast response times, and professional service."

Seamless steam

The full package designed, delivered, installed, commissioned, and operated by the German Team included a 16t/h steam boiler, 20,000L feed water tank, 60m³ fuel tank, blow-down tank, various water, and steam connection hoses, protection panels, and a state-of-the-art steam silencer. And while that last item on the shopping list may have been the smallest, it proved to make a big difference!

Satisfying results

We're proud to say that our end-to-end temporary steam solution really hit the mark for our customer. Most importantly, they were extremely satisfied with the outcome. As testified by Stefan Hacker, Ineos Phenol:

"The availability commitment was particularly important for us due to the systemic relevance of the steam generator. Atlas Copco Rental's solution was conceptually, technically, and commercially attractive. We were very satisfied with the solution itself and the technicians. They were very competent, professional, and reliable and the safety during assembly and commissioning was exemplary. We were also impressed with the short response times to technical queries and generally, the very high availability of the system."

Yet another project that illustrates the added value of our speed, reliability, and efficiency!

Curious to learn how we can make agility count for your operations, too? Get in touch with your local Atlas Copco Rental expert!

At Atlas Copco, we have been turning industrial ideas into business-critical benefits since 1873. By listening to our customers and knowing their needs, we deliver value and innovate with the future in mind.

Great ideas reinforce sustainable development. At Atlas Copco Specialty Rental, we team up with our customers to set up state-of-the-art temporary air, flow, steam and nitrogen solutions. Our passionate experts have extensive application and equipment



knowledge. We understand our customers' needs and can provide a total solution for any industry, no matter if it is for emergencies or planned projects. We are a division of the Power Technique business area, headquartered in Boom, Belgium and offer specialty rental solutions under several brands around the globe.

Atlas Copco Rental's steam boiler keeps brewery in full production

Agrofirma Tērvete is a modern diversified enterprise in Tērvete, Latvia, specializing in crop production, dairy farming, horse breeding, biogas production, food retail and catering. Over the years, the company has developed beer-brewing expertise – and today, Tērvete beer has gained wide recognition among Latvian beer connoisseurs.

The brewery has its own 1.2-ton steam boiler, which is used in the beer production process, as well as a steam generator that provides additional assistance. In March 2019, their boiler suffered a sudden breakdown, and an inspection confirmed that the downtime would be at least one month...

Plug and play steam boiler to the rescue

To limit production losses, the brewery needed a short-term emergency replacement as soon as possible! As Tērvete's own boiler was 1.2-ton, Atlas Copco Rental's 1.3-ton steam boiler was a perfect match.

Atlas Copco Rental in Finland sprang into action: we completed the planning and delivery within one week, and we sent 2 engineers (one from Finland and one from France) to help set up the equipment. The solution we provided consisted of a steam boiler and the necessary flexible steam and water hoses.



The added value of Atlas Copco Steam Rental's solution

First of all, the fact that we could fill the brewery's need so quickly had an immense impact financially: their boiler broke down at the start of their peak production – so, without the replacement boiler, their production would have been down by about 75%.

Furthermore, the boiler has low operation costs and does not require an operator to be constantly present. In addition, the downtime lasted longer than expected – but as the replacement steam boiler ended up being used for a longer period of time, the customer had the chance to enjoy the flexibility of our renting times as well.

Providing exactly what they needed

"I found Atlas Copco's website via an online search. When I saw the wide range of boilers, I knew we could get a specific boiler for our project. I'm very satisfied with the solution, because it was exactly what we needed. I would definitely recommend Atlas Copco. The solution that they provided was very specific and they were able to deliver everything our company required very quickly. I also really like the fact that their rental terms are so flexible!"

Boosting your balance sheet!

How an efficient steam solution can save costs and capital.

When you mention rental, most people think of temporary solutions. And sure, we at Atlas Copco Rental are renowned for our emergency interventions! But sometimes it also makes good business sense to rent (part of) your base infrastructure, even over an extended period of time. Two recent steam projects clearly demonstrate the added value at both ends of the spectrum: on the one hand saving on the cost of downtime and on the other, boosting cashflow and agility. Whichever way you look at it, our service, equipment, and solutions add up to a healthier bottom line. With congrats to the Atlas Copco Rental team in Italy!

Emergency cross-border response

There are many elements in the equation in any emergency intervention. There's matching the right equipment to the needs and constraints of the customer. There's being able to source that equipment at short notice (along with the right technicians to install and commission it). And now, in the contexts of a full Covid-19 lockdown, there's guaranteeing the smooth passage of those goods and personnel across international borders.

In the case of our customer in Italy – a chemicals plant in urgent need of a replacement boiler to avoid a full production stop – Sales Engineer Andrea Giorgi and his team in Italy coordinated with our nearby LTS site in France to ensure a rapid response. Within a matter of hours, the solution had been designed, dimensioned and dispatched, along with the relevant travel authorizations for the accompanying team of technicians. And less than 48 hours later, the required 6 ton/h steam boiler was up and running. Given the vital role of steam in the plant's production, transformation and treatment processes, our fast and efficient intervention saved our customer a packet in lost production!

Long-term agile solution

The exact same solution was proposed for another customer in central Italy – a manufacturer of rubber hoses for the oil and gas industry. And while the request was not as urgent, it was no less pivotal to their commercial success! For the steam boiler forms a critical component in their product treatment process. But before deciding on whether to buy or rent this key piece of equipment, they asked Atlas Copco to perform an analysis and calculate its total cost of usership. So they in turn could determine the tipping point. In the final analysis, our rental solution's increased agility and efficiency coupled with the decreased liability and capital expenditure tipped the scales in favor of renting.





**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

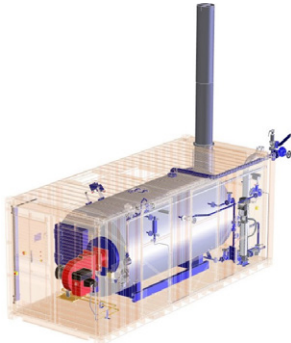
Steam pressure reducer

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

Fuel

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

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)

Weight

Empty	kg	8000
	lbs	17637
Full	kg	11000
	lbs	24251

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)	?

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

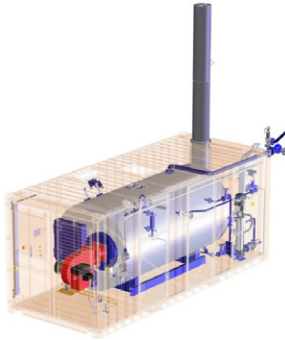
Steam pressure reducer

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

Fuel

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

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)

Weight

Empty	kg	12000
	lbs	26455
Full	kg	16000
	lbs	35274

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)	?

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

Fuel

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

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

Weight

Empty	kg	23000
	lbs	50706
Full	kg	34000
	lbs	74957

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

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

Fuel

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

Weight

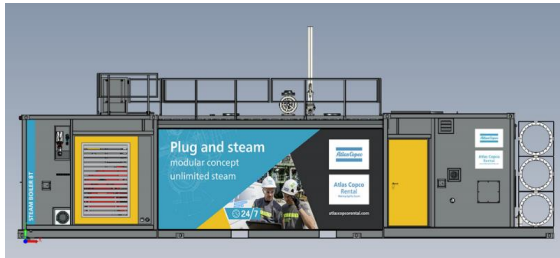
Transport weight	kg/lb	28100/62000
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Performance

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

Fuel

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

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

Weight

Empty	kg	36000
	lbs	79366
Full	kg	53000
	lbs	116845

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

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

Fuel

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

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

Weight

Empty	kg	43000
	lbs	94799
Full	kg	62000
	lbs	136686

Performance

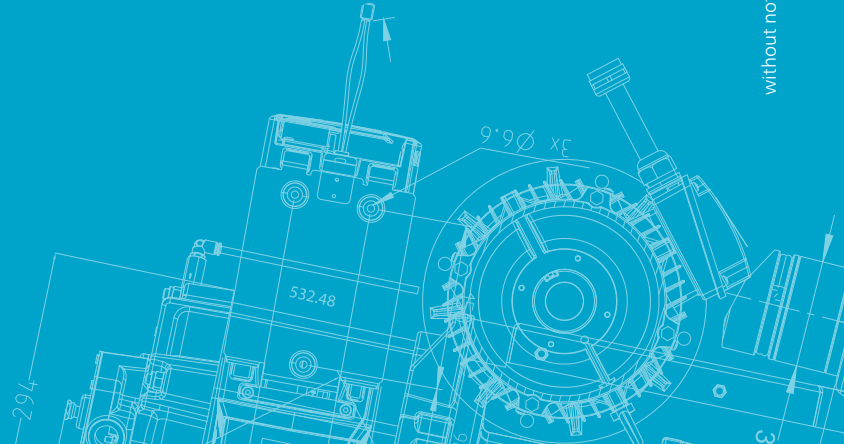
Max capacity (with feed water @ 103°C)	t/h	16
	lbs/h	35000
Max working pressure	barg	22
	psig	320
Sound pressure level @ 7m	dB(A)	TBC



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