OPERATING INSTRUCTIONS

AdBlue® Station

1500 l • 2500 l • 5000 l

with accessories and set



PRESSOL

81 230 932 A402 GB

Pressol SAS

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Operating instructions translation

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We reserve the right to make design and product modifications, which serve to improve the product.

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1. Introduction

1.1. Preface

Please carefully read these operating instructions and observe in particular all safety notes!

Our staff will be pleased to provide support if you have any questions about the product.

Yours sincerely, Pressol SAS

1.2. Obligations of the personnel

Before they start to work, all persons who are entrusted to work with AdBlue® Station, are obliged:

- to follow all applicable regulations on occupational safety and accident prevention.
- to read and to comply with all safety instructions and warning notes contained in these operating instructions.

Please observe the following instructions in the interest of all concerned:

- Refrain from any unsafe working methods!
- Observe all caution and warning instructions in this operating manual!
- In addition to this documentation, observe generally applicable legal and other binding regulations on occupational safety and accident prevention as well as environmental protection!
- Wear appropriate protective clothing according to the work you are carrying out! !
- Perform only work for which you have been sufficiently trained and instructed!
- Only original replacement parts/tools and equipment from the manufacturer may be used. So reliability can be ensured and the warranty can be preserved.

1.3 Symbols in this manual

1.3.1. Structure of the warning notes

The warning notes have the following structure:



SIGNAL WORD

Type and source of the hazard

- Consquences of non-compliance with the notes
- Measures to avoid that risk

Depending on the danger level, different signal words are used:

Signal word	Danger level	Consequences of non-compliance
DANGER	Imminent threat of danger	Death or serious bodily injury
WARNING	Possible threat of danger	Death or serious bodily injury
CAUTION	Possibly dangerous situation	Minor bodily injury
ATTENTION	Possibly dangerous situation	Damage to material property

NOTE

Indicates further information or tips which facilitate work.

1.3.2. Hazard symbols

Symbol	Meaning
	General hazard symbol. The warning note marked in this way contains supplementary information on the type of hazard.
	This symbol warns of dangerous electrical voltages
	This symbol warns of a hazardous explosive atmosphere.

1.3.3. General symbols

Symbol	Meaning
■	A small black square indicates the work you have to perform
–	The dash denotes lists
⇨	The arrow identifies cross-references. If cross-references to other chapters are required within the text, the expression is shortened for reasons of clarity. Example: ⇨Chapter 2 Safety instructions This means: please refer to chapter 2 for the safety instructions.

2. Safety instructions

Various dangers can occur during installation and commissioning, as well as during everyday use, due to improper handling of the AdBlue® Station.



WARNING

Risk of injury and damage to material property because of improper handling!

- Hold the manual at the disposal of the operating staff at the usage site of the unit.
- Country-specific safety measures and accident prevention regulations must be observed.

2.1. Authorized personnel

Only qualified and authorized personnel may perform work on the AdBlue® Station and operate it.

Qualified personnel are persons who can assess the work assigned to them and recognise possible hazards due to their training, experience and instruction, as well as their knowledge of relevant standards.

All persons who are involved with assembly, operation, servicing and maintenance must have read this operating manual and understood it.

2.2. Intended conditions of use

The AdBlue® Station is a two-walled tank (i.e., tank in tank) and is used only for storage and refuelling with AdBlue® (urea).

It is available in different sizes with an internal volume of 1500 l, 2500 and 5000 l.

The AdBlue® Stations are built in different sizes **with** or **without heating**.



DANGER

- No other liquids may be stored in this product!

Disregarding these conditions may lead to premature failure of the product, serious injuries or death.

Any departure from the usage stipulations (other fluid media, use of force) or user modifications(changes, use of non-original parts) can be dangerous and are considered as non-intended usage.

The operator is liable for damage resulting from improper use.

3. Area of application

The AdBlue® Station is suitable for the storage and refuelling of AdBlue® (urea) in open air.

3.1. Requirements for installation location

The AdBlue® Station should be set up on a flat, level, and stable surface.

The tank must be stored in the open air without any restriction.

- The tank must be positioned so that safe filling and a free space around the tank for periodic inspections and maintenance is ensured.
- Safe transport of vehicles during refuelling must be ensured.
- The entire floor space of the tank must be supported by flat, fireproof material, which is suitable for the weight of the tank and its contents.
- The AdBlue® (urea) pump must not be filled before operating because it is a self-priming pump.

4. Transport and storage

The loading surface must be smooth and without sharp edges.

NOTE

AdBlue® Stations are designed so they can be moved with a crane, HIAB, or forklift using suitable lifting equipment!

ATTENTION

- This product may be moved only in an empty state. It must not be lifted under any circumstances or moved if it contains liquid!

The tank must be stable and secured during transport.

No damage may occur to the tank during storage and transport.

5. Installation and function description

All statutory and applicable health and safety requirements must be observed prior to installation.

The AdBlue® Station is equipped with overfill protection type UFS 01 and an oil detector type OM1 for monitoring.

- Have a qualified electrician check the network connections and the residual current device (RCD) in accordance with the applicable electrical safety requirements (on the terminal box on the right above the pump).
- The electrical system has a minimum nominal current of 13 A. However, a 15 A, 1.5 mm^2 cable is recommended for use for the mains connection of the tank.
- The cable must be passed through a hole drilled **ABOVE** the dividing line in the housing.
- The cable entry point must be equipped with a grommet and be sealed, and a drip loop must be made with the cable before connecting the devices in the tank.

5.1. Function description with heating

Tank-room heating:

The tank-room heating is located in the tank compartment on the left side.

The heater fan is directed downwards, so that the heat can ascend from bottom to top.

The temperature can be adjusted conveniently on the thermostat, which is located directly on the fan heater. The dial should be set with a screwdriver to the desired temperature.

⇨ See 5.1.1. Thermostat description

Inner-tank heating:

The inner tank is spiral wrapped with a heating band.

In addition, the inner tank is coated with a 2 cm thick layer of insulation.

The heating band is connected to a thermostat. This is on the top of the tank. The so-called “lid cover” which is fastened with 2 yellow screws must be removed to get to this thermostat. The thermostat is labelled with the name “Heating Band”.

⇨ See 5.1.1. Thermostat description

Fan:

A fan and a fan grill are mounted to the side of the tank cover. They are designed to carry away the trapped heat.

The fan is connected to a thermostat. As with the thermostat for the inner tank, this can be found on the top of the tank.

The so-called "lid cover" which is fastened with 2 yellow screws must be removed to get to this thermostat. The thermostat is labelled with the name "Fan".

⇨ See 5.1.1. Thermostat description

5.1.1. Thermostat description

The thermostat is responsible for the optimal operating temperature.

The thermostats are preset at the factory. The temperature can be changed as desired.

Factory preset: :

Tank-room heating: 5° C

Inner-tank heating: 5° C

Fan: 30° C

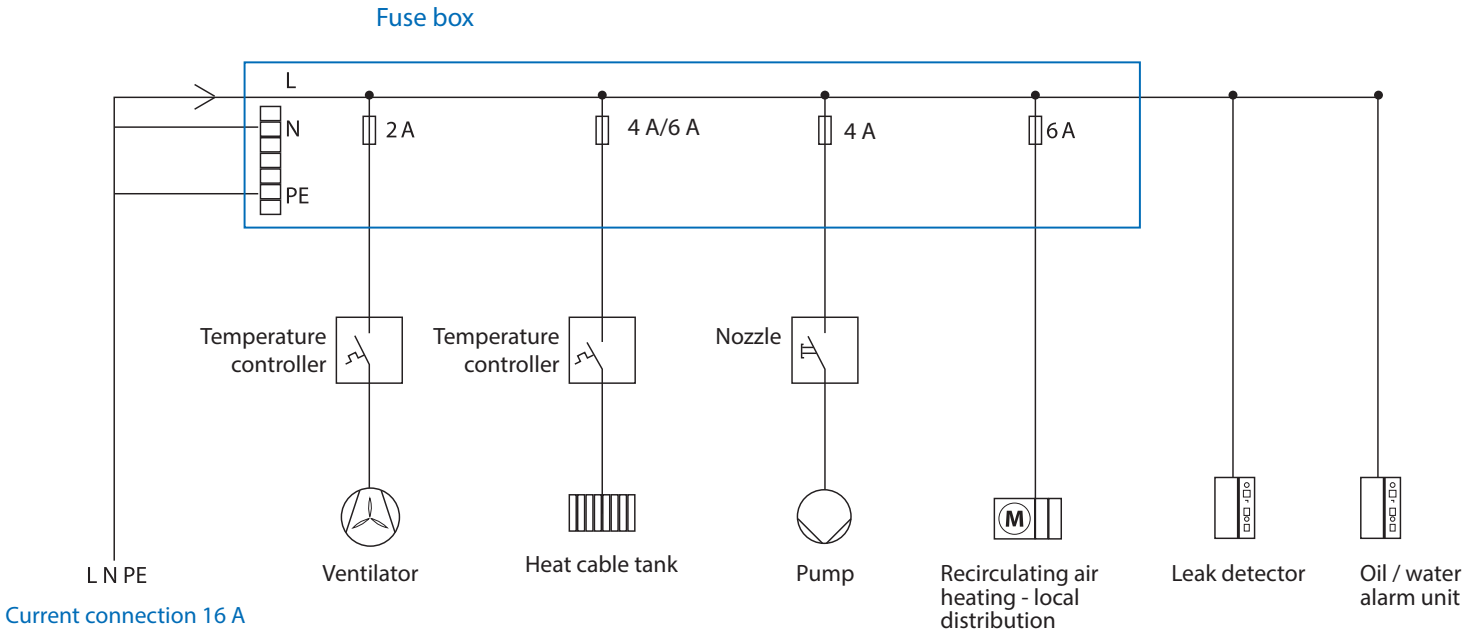
If the thermostat is to set to 5° C, for example, the fan turns on when the temperature inside the tank goes below 5° C.

The following components are secured in the tank:

	1500 l (fuse)	2500 l (fuse)	5000 l (fuse)
Fan:	2 A – (84680)	2 A – (84680)	2 A – (84680)
Heating band:	4 A – (84681)	6 A – (84682)	6 A – (84682)
Pump:	4 A – (84681)	4 A – (84681)	4 A – (84681)
Tank-room heating:	4 A – (84681)	4 A – (84681)	4 A – (84681)

⇨ See Chapter 13 Pos. 23 fuse box

5.1.2. Circuit diagram for the version with heating



6. Technical data

Tank volume (l)	**1500** **26 716; 26 717;** **26 726; 26 727**	**2500** **26 736; 26 737;** **26 746; 26 747**	**5000** **26 756; 26 757;** **26 766; 26 767**
Material tank	PE-LLD Lupolen 4021 K RM	PE-LLD Lupolen 4021 K RM	PE-LLD Lupolen 4021 K RM
Brand	ares®	ares®	ares®
Color outer tank	blue, RAL 5015	blue, RAL 5015	blue, RAL 5015
Color inner tank	white	white	white
Color of the door	blue, RAL 5015	blue, RAL 5015	blue, RAL 5015
Dimensions L x W x H (mm)	1720 x 1240 x 2400	1860 x 1460 x 2400	2400 x 2000 x 2400
Removable lid of the outer tank, LxW (mm)	1680 x 925	1680 x 925	1680 x 925
Diameter of the manhole in the inner tank (mm)	565	565	565
Dimensions of the access door, WxH (mm)	730 x 1530	730 x 1530	730 x 1530
Fixing points	using inserts	using inserts	using inserts
Pump			
Pump design	Diaphragm pump, selfpriming		
Delivery rate under free discharge (l/min)	35	35	35
Discharge pressure (bar)	1,6	1,6	1,6
Pumping media	AdBlue®	AdBlue®	AdBlue®
Motor data			
Voltage (V)	230	230	230
Frequency (Hz)	50	50	50
Power consumption (A)	1,5	1,5	1,5
Thermal protection	self resetting		
Duty cycle	Continuous operation	Continuous operation	Continuous operation
Protection class	IP 54	IP 54	IP 54

Tab. 6-1: Technical data

6.1. Equipment

The AdBlue® Stations are equipped with the following items:

– Double-walled tank
– Wall thickness up to 7 mm
– Diffusion-resistant and UV stable
– Filling line G 2“
– Tank-vehicle coupling (Dry-Break DBC-1000-AB) automatic closing
– Ventilation valve
– Pneumatic level indicator, in %
– Electric overfill protection in accordance with WHG, with approval Z-65.11-18
– Note: The tank's sensor is set at the factory so that the tank can be filled up to a maximum of 95 % of its capacity, a readjustment is not necessary.
– Optical and visual leakage alarm for oil/water with approval Z-65.40-339
– Ventilation by means of fan to protect the medium from overheating, in case of AdBlue® Station with heater
– Inner tank insulated against cold and heat with high-quality insulation material
– Heating of inner tank by means of heating cable (self-regulated), in case of AdBlue® Station with heater
– Heating of the pump and equipment room by means of fan heater, in case of AdBlue® Station with heater

– Stainless steel foot valve with filter
– Lockable door using 2 padlocks
– Diaphragm pump with integrated bypass, mounted on a stainless steel plate
– In-line meter, digital, for AdBlue® (urea)
– On/Off switch
– Discharge hose, 6 m
– Stainless steel nozzle for AdBlue® (urea) with rotary swivel
– All attachment points with brass insert or stainless steel
– Double secured access door
– Transportable with forklift and via crane eyelets
– Inner tank with form-fitting connection to outer tank, no swaying effect
– Manhole allows free access to the inner tank

7. Operation

The functionality and sealing of all AdBlue® Stations is fully tested before dispatch.

After delivery, the tank should be checked for completeness of the equipment and transport damage. After installing the pump set, if not already present, and filling with AdBlue®, the tank is ready for use.



NOTE

First, make sure that the power cord is connected to a suitable voltage supply.

- Park the vehicle as close as possible to the tank to prevent unnecessary loads on the hose.
- Take the nozzle valve out of the holder and place it in the filling inlet of the vehicle. Press the release only after the pump is running.
- Turn on the power supply of the pump with the switch.
- Press the release for filling.
- The nozzle valve automatically switches off when the tank of the vehicle is completely filled.
- Turn off the power supply of the pump with the switch.
- Allow the nozzle valve to drain into the vehicle tank before reinserting it into the holder.
- Never leave the nozzle valve switched on when not in use.
- To prevent the ingress of rain water, close the door of the tank.

Due to the nature of the stored liquid and the resulting potential environmental hazards, these steps should be followed:

- The tank should be filled only through a sealed connection with the tank-vehicle coupling. Do not overfill the tank!
- To prevent the pollution and damage of the pump system, no contaminated AdBlue® (urea) may be stored in the tank!
- Read the operating manual for the pump before use, and observe the instructions.
- Filling and refuelling is permitted only under the supervision of an authorized employee.
- The device must be protected from interference by unauthorized persons.
- Any modification of the construction, equipment and provisions of the device is prohibited without consultation with the manufacturer.

- If the AdBlue tank or a part of its equipment is damaged, the device must be put out of operation until the problem is remedied. If a leak is detected in the tank, the contents must be pumped to another container. The supplier of the device should be informed .



ATTENTION

- This product must not be operated without sufficient liquid in the tank. Otherwise it may cause irreparable damage of the refuelling system and its premature failure!

8. Maintenance

Regular maintenance helps to reduce the risk of product failure and premature failure of product components.

Weekly maintenance:

To reduce the risk of leaks and spills, you must check the intake and refuelling hoses to ensure they have not become loosened.

Check the condition of the power cord.

Annual maintenance:

This tank must be inspected annually by a professional. This maintenance must be recorded in writing.

The relevant electrical safety requirements must be checked annually and recorded by a registered electrician.

General maintenance:

Under extreme operating conditions, the motor temperature may rise and trigger the overheating protection, which stops the pump. In this case, the pump must be switched off until the motor has cooled and the overheating protection has reset automatically.

9. Installation components

The operating manuals for the following components are included separately:

Pump, meter, oil detector OM 1, overfill protection UFS; level indicator or FMS

In addition, for the version with heating:

Heater with integrated thermostat, thermostats, heating band and fan.

10. Warranty

The manufacturer provides a 5-year warranty for the AdBlue® tank beginning from the date of purchase.

Should a problem occur in spite of all quality-control measures, please contact our customer service:

PRESSOL SAS

Tel. +33 (0) 3 88 58 00 40

pressol@pressol.fr

www.pressol.com

If it should be established that the problem has occurred within the warranty period due to improper use or installation of the product or the problem occurred after the expiry of the warranty, the service costs will be borne by the owner.

Standard maintenance of equipment is excluded from the warranty, such as battery change, calibration of the flow meter.

The warranty is void for the following:

– Damages arising as a result of improper installation and handling of the device.

– Failure to carry out maintenance, or mechanical damage or vandalism.

– Defects caused by repairs or modifications carried out by an unauthorised servicer.

– Changes to the provisions of the product.

Pressol SAS is not liable for any damage caused due to improper use of the product or use that does not conform with the manual or regulations.

11. Sectional view of the AdBlue® Station without heating

Pos.	Quantity	Designation
1	1	Pneumatic level measuring device
2	1	Terminal box
3	1	Electric diaphragm pump for AdBlue® (urea)
4	1	Automatic nozzle valve for AdBlue® (urea)
5	1	Overfill protection in accordance with WHG
5.1	1	Level sensor for overfill protection
6	1	Optical and acoustical oil/water leak detector
6.1	1	Sensor with cables for leak detector
7	1	Delivery hose for AdBlue® (urea) - 6 m
8	1	Tank-vehicle coupling
9	2	Lever lock for door
10	1	Tank door
11	1	Filling line
12	1	In-line meter, digital NEF
13	1	Inner tank
14	1	Outer tank
15	1	Cover
16	1	Top Cover
17	1	Manhole cover
18	1	Suction line
19	1	Venting valve-G 2" male for AdBlue® (urea)

Tab. 11-1: Overview of items for fig. 11-1

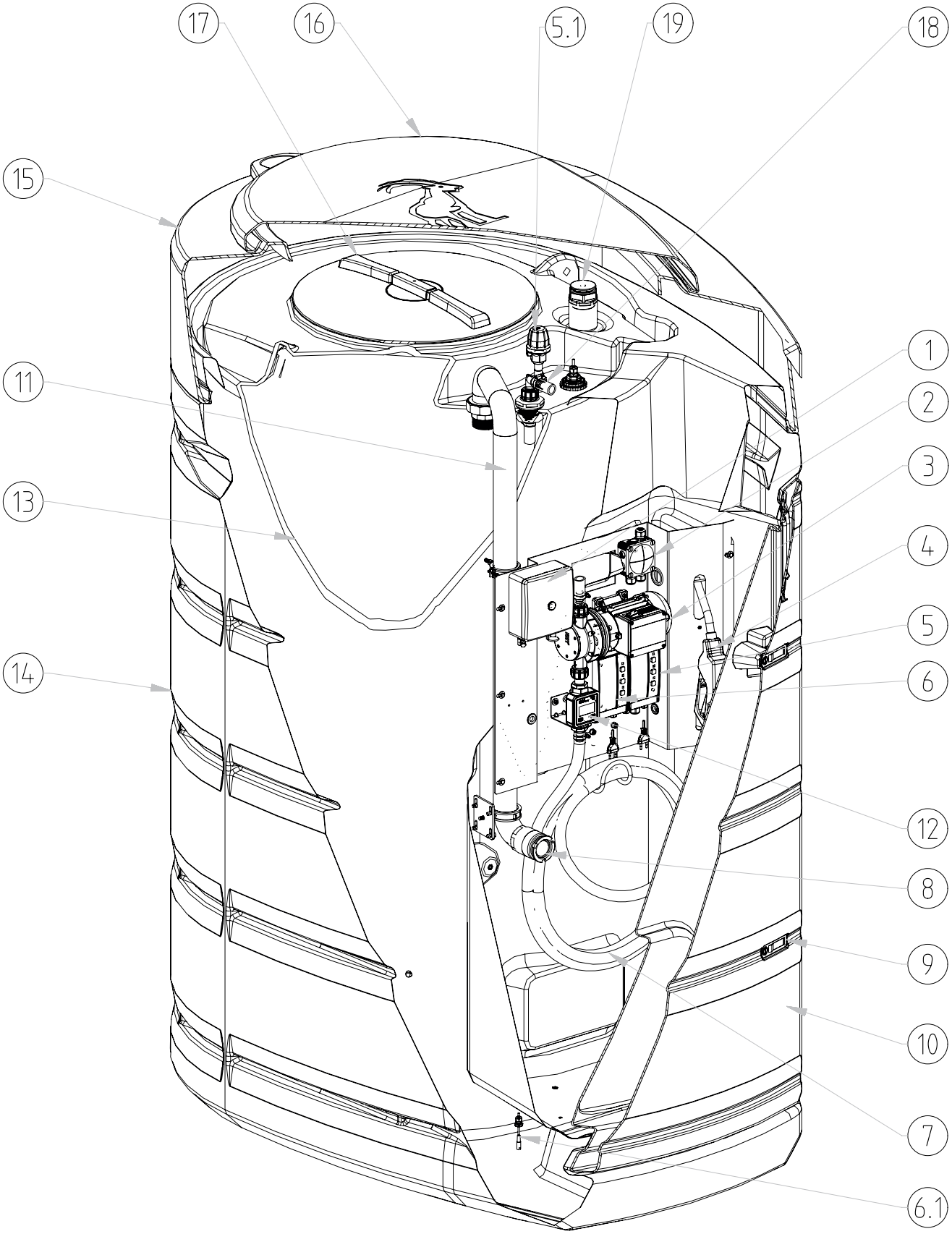
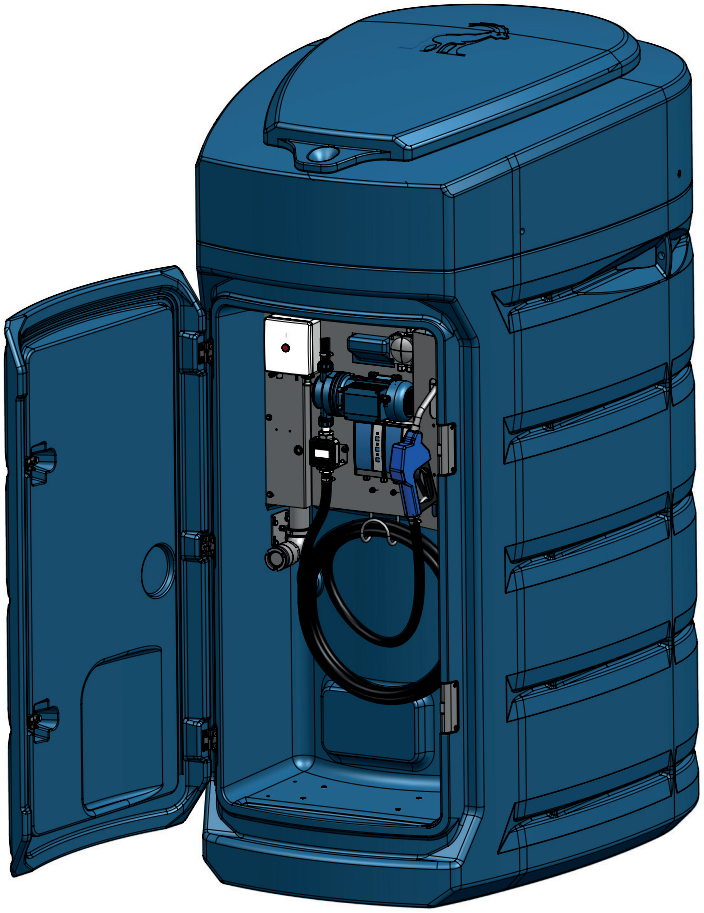


Fig. 11-1: Sectional view of the AdBlue® Station without heating

12. Exploded view of the AdBlue® Station without heating



Pos.	Quantity	Designation
1	1	Set electric diaphragm pump for AdBlue® (urea) -230 V
2	1	Suction line
3	1	Filling line
4	1	Tank door
5	1	Tank door hinges
6	1	Outer tank
7	1	Inner tank
8	1	O-ring-NBR
9	2	Adapter G 2“ male
10	1	Venting valve-G 2” male for AdBlue® (urea)
11	1	Cover
12	1	Manhole cover
13	1	Top cover
14	2	Fitting for tank cover

Tab. 12-1: Overview of items for fig. 12-1

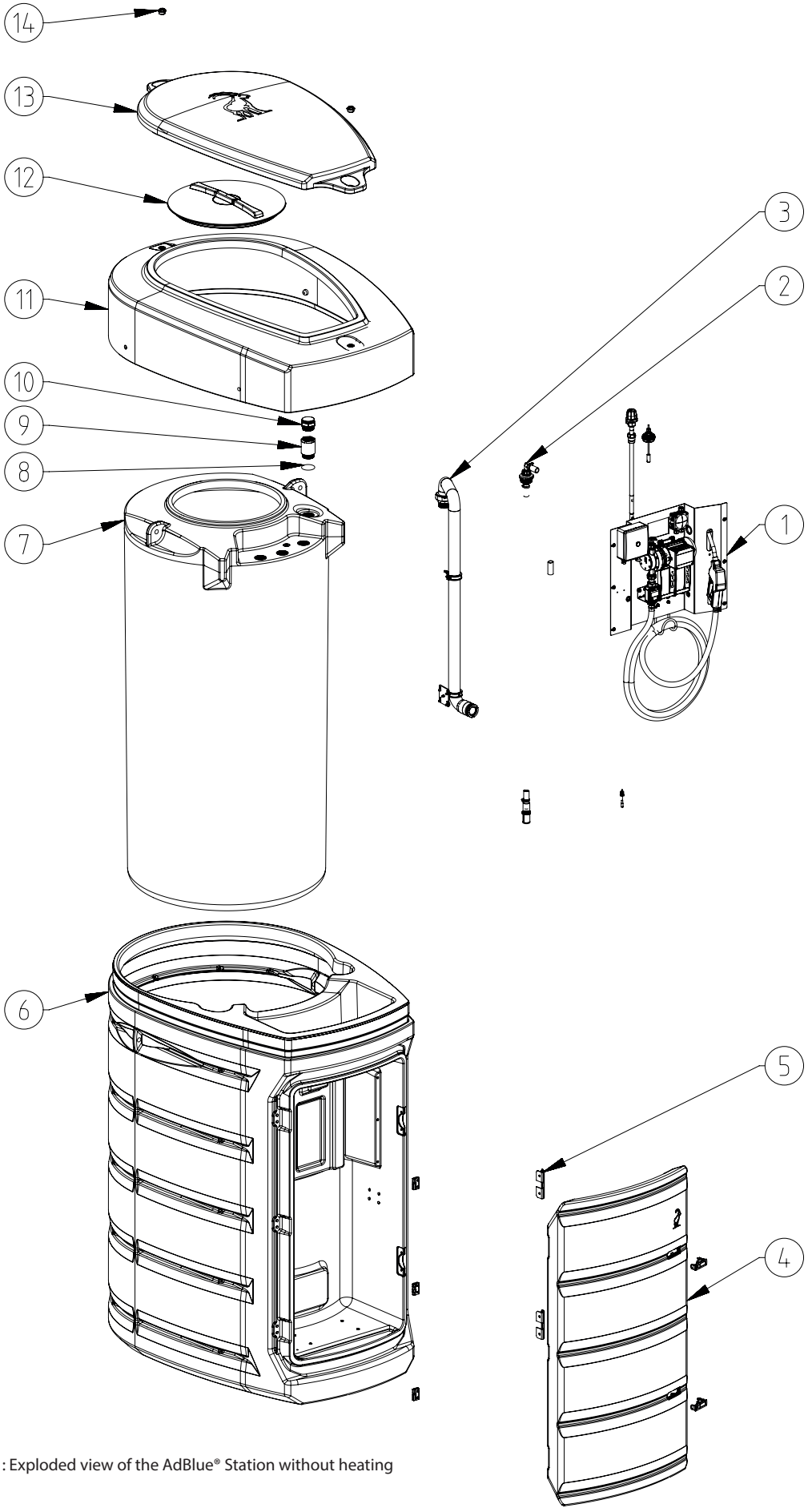


Fig. 12-1: Exploded view of the AdBlue® Station without heating

13. Sectional view of the AdBlue® Station with heating

Pos.	Quantity	Designation
1	1	Pneumatic level measuring device
2	1	Terminal box
3	1	Electric diaphragm pump for AdBlue® (urea)
4	1	Automatic nozzle valve for AdBlue® (urea)
5	1	Overfill protection in accordance with WHG
5.1	1	Level sensor for overfill protection
6	1	Optical and acoustical oil/water leak detector
6.1	1	Sensor with cables for leak detector
7	1	Delivery hose for AdBlue® (urea) - 6 m
8	1	Tank-vehicle coupling
9	2	Lever lock for door
10	1	Tank door
11	1	Filling line
12	1	In-line meter, digital NEF
13	1	Inner tank
14	1	Outer tank
15	1	Cover
16	1	Top Cover
17	1	Manhole cover
18	1	Suction line
19	1	Venting valve-G 2" male for AdBlue® (urea)
20	2	Thermostat THA-35 STD
21	1	Fan 85 m^3/hour
22	1	Fan grill HxW =125X125 RAL 7035
23	1	Fuse box
24	1	Heater with integrated thermostat
25	1	Heating band
26	1	Insulation PU

Tab. 13-1: Overview of items for fig. 13-1

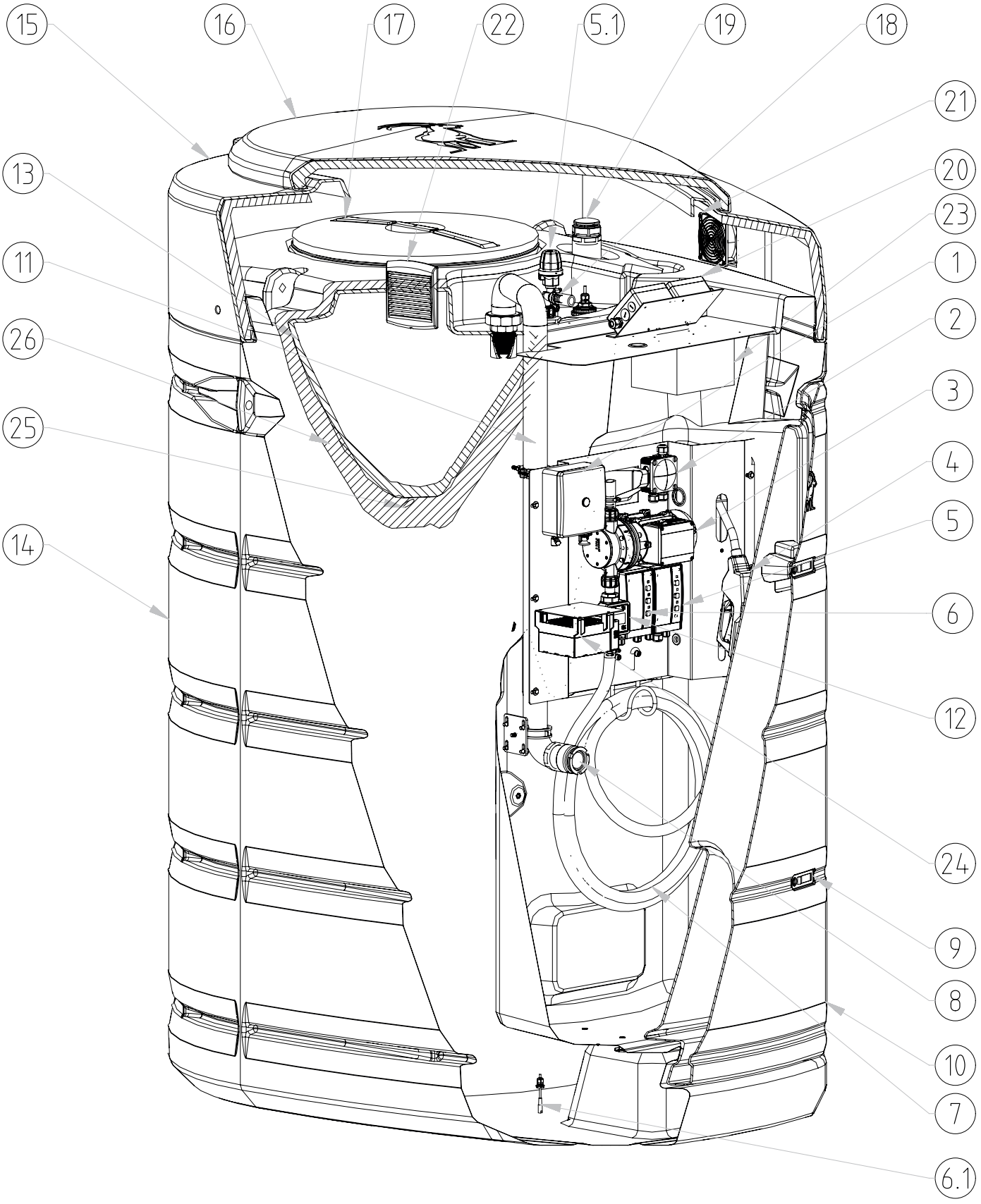


Fig. 13-1: Sectional view of the AdBlue® Station with heating

14. Exploded view of the AdBlue® Station with heating



Pos.	Quantity	Designation
1	1	Set electric diaphragm pump for AdBlue® (urea) -230 V
2	1	Suction line
3	1	Filling line
4	1	Door
5	1	Tank door hinges
6	1	Outer tank
7	1	Inner tank
8	1	O-ring-NBR
9	2	Adapter G 2“ a
10	1	Venting valve-G 2“ male
11	1	Cover with integrated heating
12	1	Manhole cover
13	1	Top cover
14	1	Fitting for tank cover
15	1	Heating for the AdBlue® Station

Tab. 14-1: Overview of items for fig. 14-1

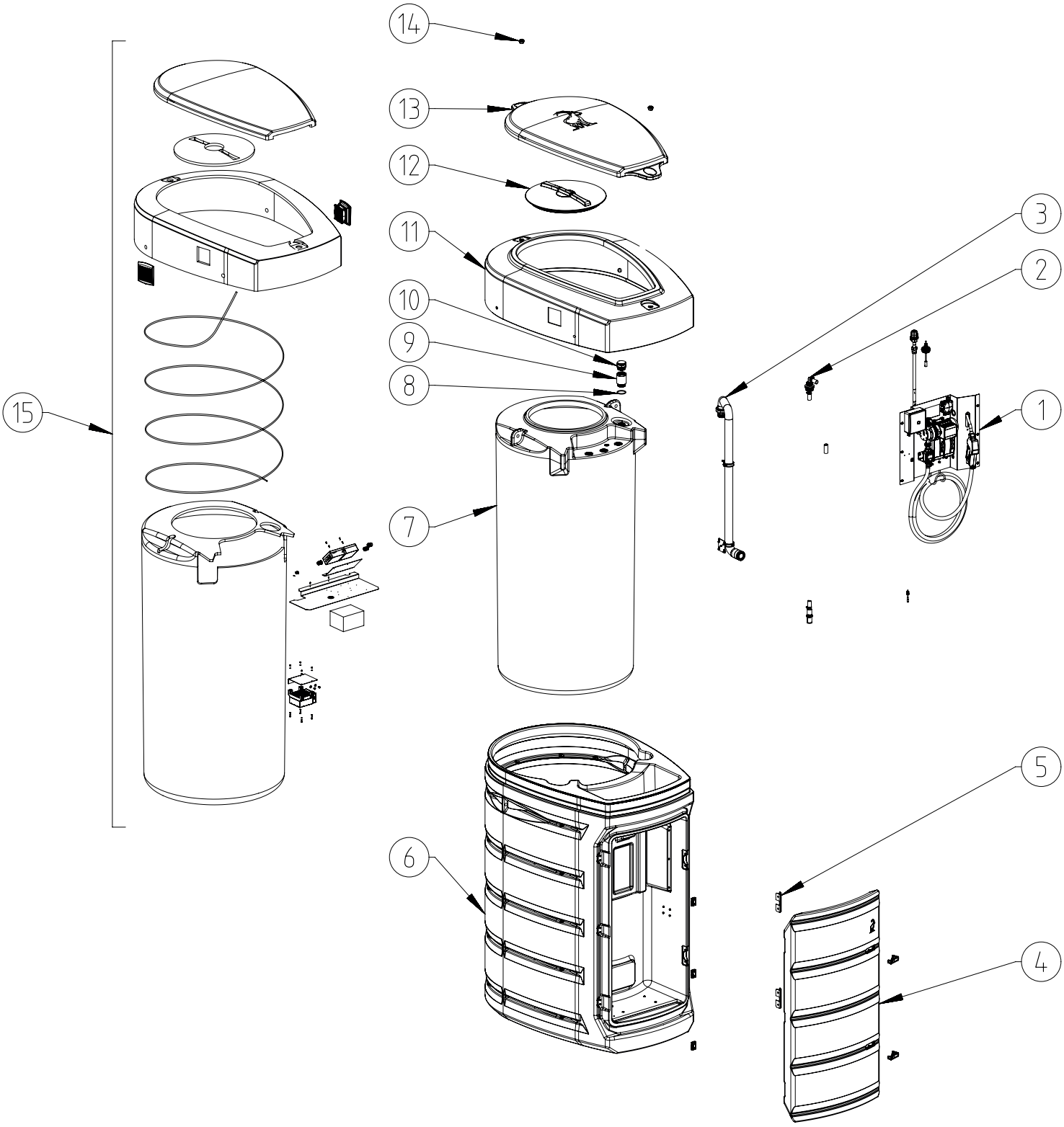
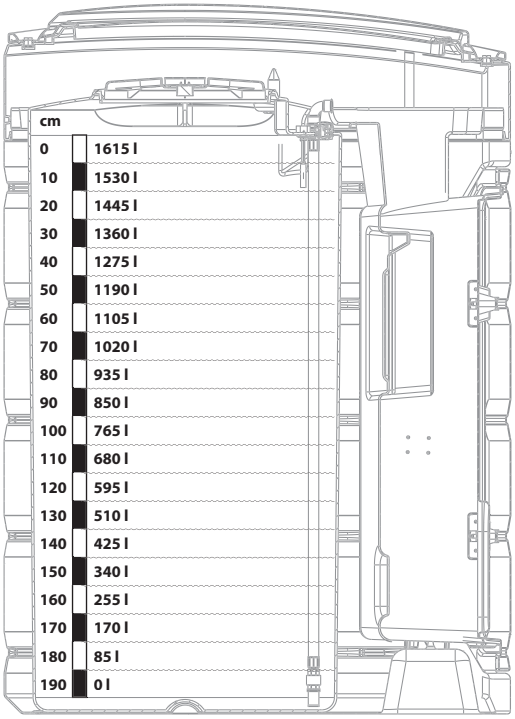


Fig. 14-1: Exploded view of the AdBlue® Station with heating

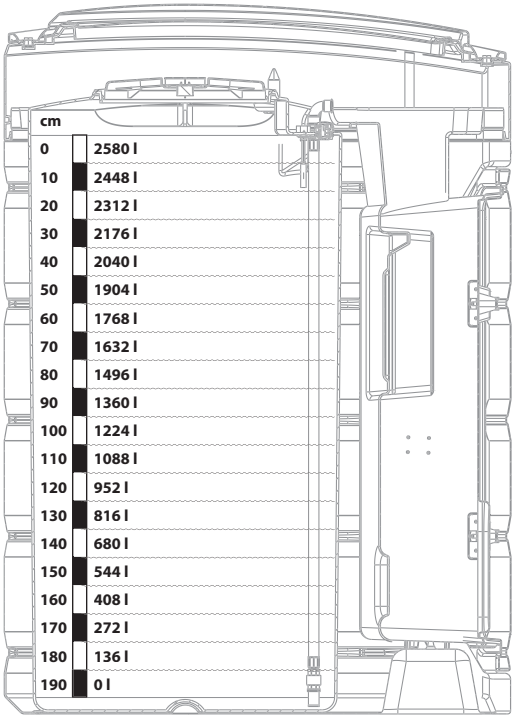
15. Calibration of liquid levels

The levels must be calibrated only for the version with the fluid management system (FMS). To do this, please refer to the description in the enclosed operating manual for the FMS.

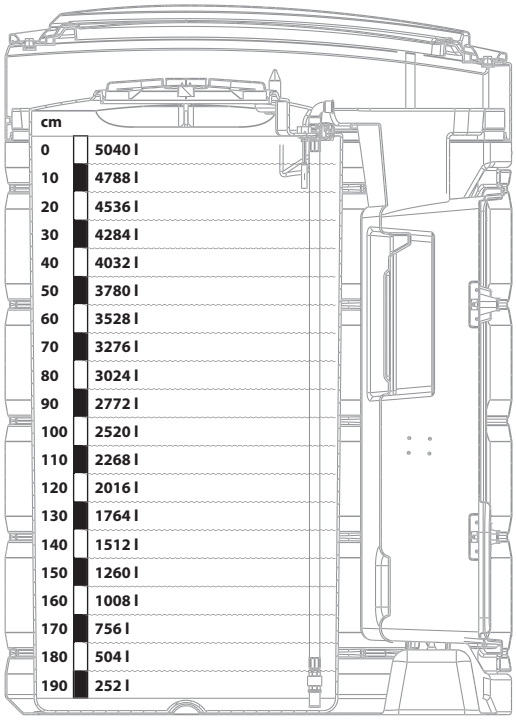
1500 l



2500 l



5000 l



16. Monitoring and operating reports

Table 1: Monitoring report for the AdBlue® Station

	Approval holder	**Manufacturer**	**Owner**
Company/Name and surname	PRESSOL Tschechien s.r.o	SWIMER	
Address Postal code, City/State	326 00 Plzeň Czech Republik	87-100 Toruń Polsk	
Street and house number	Nepomucká 1729/3	ul. Płaska 64	
Contact			
Phone number			

Serial number: .....

Table 2: Annual inspection

Name of inspector	Date, signature	Electrical inspection	External inspection	Inspection for Leak-tightness	Equipment	Design, identification

O = proper X = improper, see notes

17. Damage and repair report

Table 3: Damages and repairs

Date, signature	Problems and actions taken

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68000 Colmar | France
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