



Wayne

MANUAL BLUE1 NAKED 400L - 5000 L – 7500L – 10000L



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A. Introduction

This manual has been compiled for a 4000/5000/7500/10000 litres AdBlue tank and dispensing unit, manufactured by Blue1. It offers a summary description of the various operating instructions in order to use the unit in a duly correct manner. These operating instructions are intended to serve both the owner as well as the person(s) in charge of fuelling the tank and maintaining the unit as well as the customer/user fuelling up on the product from the dispensing unit.

B. Installing the unit

B.1. Transportation

The unit is to be transported by forklift truck. Under transport conditions, no liquid should be contained inside the tank. If no forklift truck is available, the unit can be transported with the assistance of straps and slings which can be guided through the recesses intended for the forklift truck's forks. In doing so, please use a crosstie to prevent the unit's lid from being compressed.

B.2. Installation

The unit is to be placed onto a stable and level floor bed made up by a liquid-proof paved surface. The unit is to be positioned level in such a way so as to ensure it can be accessed from each side for cleaning and maintenance purposes. In order to prevent any drive-up damage (i.e. caused by vehicles driving up to the unit), it is necessary to put in place drive-up safety precautions around the unit. The unit is to be placed outside of any explosive hazard areas.

C. Readyng for service

C.1. Hydraulic connections

The pump is demounted to avoid transport damage. Before use you will have to mount the pump in the tank. Put the sealing in the coupling and place the rubber around the tube.



Connecting the unit to the dispenser : please connect the pressure pipe to the appropriate connection tube in the technical compartment. You can see the tube in the picture below.



C.2. Connecting electrical power

Prior to fuelling the tank with AdBlue, the electrical power needs to be connected in observance of the connection diagram appended.

Please make sure that the installation's automaton inside the switchboard cabinet is switched off.

As the unit is switched on, the display of the liquid level gauge will light up.

After this, the unit is ready to be used and the first fuelling operation can be made to take place.

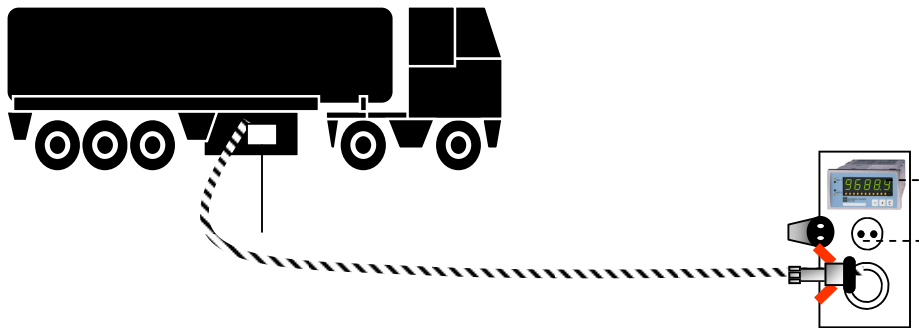
C.3. First fuelling of tank

The responsibility for the tank's first fuelling rests with the unit's installer, together with the driver of the tank lorry who – in all cases – should act in due compliance with local safety regulations and in the strictest observance of the safety of man, animals and the environment.

Upon arrival of the tank lorry, the driver is to position his lorry in such a way that the unloading face of his vehicle is right opposite the Tank Unit.

The following series of actions are to be performed in the order sequence as indicated below:

- 1) Open the roof of the Tank Unit. Please use the Allen keys which have been provided for this purpose. The lid of the Tank Unit is to be opened with a gentle upward tilting movement which will cause the lid to open up by itself by dint of the gas spring that are in place.
- 2) Inspect the inside of the tank to make sure it is clean. If there are any visible traces of product, water or contaminations, these will need to be cleaned away first.
- 3) Inspect the tank compartment (clean and dry).
- 4) Open the technical compartment
- 5) Connect the filling connector



- 6) Use the tank lorry's flow meter and fuel 3750/4750/7350/9800 litres
Whilst fuelling, check whether the liquid level gauge is rising !

Total content tank	Maximum filling level
4000 litres	3750 litres
5000 litres	4750 litres
7500 litres	7350 litres
10000 litres	9800 litres

- 7) Check the liquid level gauge's reading and adjust the meter if required
- 8) Check the level inside the tank
- 9) Now check the overflow safety by continuing to fill the tank at a slow pace right up to the point where the pump of the tank lorry automatically stalls. Make sure you keep an eye on the tank level !!
- 10) Apply the self-adhesive label showing maximum content.
- 11) If required, the filling hose can be blow out inside the tank. At all times though, avoid too much air being blown into the tank.

- 12) The filling hose is now ready to be disconnected.
13) Apply the Ad-Blue warning sticker.



If you are fuelling the tank using compressed air, delivery pressure should not exceed 1 bar. *maximum* Normally, the filling speed in free fall will be anywhere between 100 up to 200 l/min. During unloading, the liquid level inside the tank can be read from the display.

Make sure you thoroughly clean up any spilled liquid by washing any traces away using water.

D. Liquid level gauge and telemetry

The tank container is equipped with a 'continuous liquid level measuring' device, which serves to monitor the level of the tank on a permanent basis. This level gauge has a reading display behind the filling panel.

The liquid level gauging system is equipped with telemetry-capability with its own mobile phone connection module. Upon reaching "restock order" level, the AdBlue supplier will be notified automatically.



E. Maintenance and servicing

A preventive maintenance check will be made to take place once a year, unless agreed differently under the terms of the contract.

E.1. Cleaning the outside surfaces of the tank unit

The outside surfaces of the tank unit are best cleaned using normal cleaning agent, a degreasant, water and soap. Do not use any agents such as thinner or turpentine which may cause the self-adhesive labels to dissolve.

Important notice:

Never use a high-pressure spray device (electrical hazard)

E.2. Damage

The housing of the tank unit also serves as insulation.

F. Technical specifications

Housing	<i>Encasement made from polyester, serves as a drip collector next to being in place for insulation purposes 2 compartments: Liquid-proof compartment for the installation of the AdBlue tank unit Technical compartment.</i>
Weight	<i>ca. 700/750/980/1250 kg (empty tank)</i>
Tank	<i>Single-walled plastic material 4000/5000/7500/10000 litres volume Heating</i>
Sensors	<i>Liquid level gauge equipped with telemetry capability Overflow safety (automatic dispensing pump switch-off) Filling coupling (type MANNTEC DN 50)</i>
Pump	<i>Plunger pump inside tank Flow rate ca. 40 l/minute</i>
Connection	<i>230V 16A The unit's maximum absorption capacity is 1380W (6 Amp.)</i>

G. AdBlue properties

Adblue is a 32.5% urea solution.

It comes as a clear, colourless liquid that gives off an odour similar to ammonia.

Its properties have been defined under DIN 70700.

Although AdBlue has not been classed as a hazardous substance, if heated the liquid may give off toxic vapours (carbon monoxide, carbon dioxide, nitrogen, ammonia), which may reduce oxygen levels in the surrounding air.

AdBlue has a 10.5 °C freezing point. A heating device has been put in place inside the unit, to ensure temperatures never drop below 0 °C.

Important notice:

In wintertime, the door is to be kept locked at all times.

In wintertime, the power supply is not to be switched off (except for repairs).

In the event of spillage or leakage, the liquid will start to crystallise.

The resulting crystals are white and are easily washed away with water.

In the event of leakage, please contact your service organisation without delay (see telephone numbers on the first page of this manual).



H. AdBlue safety information

When a unit is being installed, a safety information sheet should be kept at hand in all cases. This sheet contains specific health and safety information.

H.1. First Aid

Ingestion If large quantities of the substance should be ingested, call for a physician without delay. Do not induce the victim to vomit, unless you are instructed to do so by trained medical staff. Never administer an unconscious person any substances by mouth.

Skin contact Avoid protracted or repeated contact with the skin. After handling the product, always make sure you thoroughly wash your hands using water and soap. Should you experience any irritation, contact a physician.

Eye contact In the event of the substance coming into contact with the eyes, rinse abundantly using water, without any delay. Should you experience any irritation to your eyes, contact a physician.

H.2. Fire fighting

In the event of fire, use water spray (nebulisation), foam, dry chemical fire extinguishing agents or carbonic acid gas.

Fire fighters are to use self-contained compressed air breathing apparatuses and their full equipment.

If heated, the liquid may give off toxic vapours (carbon monoxide, carbon dioxide, nitrogen, ammonia).

H.3. Unintended release

Avoid any contact with spilled substance and prevent it from draining away into the soil or surface water. Absorb any spilt amounts of the substance using dry earth, sand or a different non-inflammable material. Use tools to scoop up any fixed or absorbed substance and deposit into an appropriate, duly labelled collection bin. Make sure no dusty conditions occur and prevent the substance from being spread out by the wind. Keep away from surface water.

I. Potential malfunctions

Malfunction	Possible cause	Solution
Pump is not working	Not enough liquid left inside the tank. Pump has been switched off by dry run protection	Check the content of the tank on the liquid level gauge
Pump is not working	Freezing	Keep door closed and wait until the unit has warmed up again
Liquid level gauge is not on	Power outage	Check power supply