

AdBlue Storage & Distribution Solutions



Preliminary information

November 7, 2005



Introduction

IDENTIC has developed, produced and installed storage and refilling systems for various fuels and chemicals for more than 25 years, with a strong focus on quality. The extensive experience from working with various customer groups such as vehicle manufacturers, oil and chemical companies and vehicle fleet owners has helped IDENTIC develop an optimal concept of storage and distribution systems for handling AdBlue.

An important feature of this concept is that the AdBlue systems are modular and scalable in order to suit the various needs of different customers. These systems have been developed with a strong focus on quality in order to safely and reliably handle AdBlue despite its corrosive and crystallizing properties. The result is a range of reliable solutions that are expandable, easy to transport and install while ensuring low maintenance costs. Also, as an important option to the traditional “manual/open” dispensing nozzle IDENTIC has developed a unique spill-free dispensing technology which ensures a clean and safe dispensing of AdBlue.

IDENTIC’s AdBlue concept can offer many customized solutions to match individual customer requirements. The “standard” solutions described in this document should be viewed as examples of how IDENTIC’s equipment can be combined to match different customer applications. Possible options/accessories are listed under each solution.

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1 Storage and distribution solution for indoor use



Complete storage and distribution solution intended for daily service halls where the equipment is placed in an indoor environment, for example in vehicle fleet depots. The base solution includes a 3 000 liter tank, pump, hose reel and refilling nozzle. In the spill-free solution the “open” dispensing nozzle is replaced with IDENTIC’s spill-free nozzle. For connection of refilling information to a centralized registration system/database please contact IDENTIC for more information.

A. *Open dispensing solution*

Storage tank:

KIT 420: Storage tank with 3 000 liter capacity, including electrical & control unit, ventilation, overflow protection, tank truck refilling interface etc. The tank is UV-protected and easy to clean.

Dispensing unit:

KIT 520: Hose reel (6 m), “open” dispensing nozzle and holster with micro switch.

B. *Spill-free dispensing solution*

Storage tank:

KIT 420: Storage tank. See description above.

Dispensing unit:

KIT 521: Hose reel (6 m), **spill-free** dispensing nozzle, holster and control unit.

Piping and electrical wires between tank and refilling location(s) are not included.

C. Options/Accessories

Art./kit no.	Description
555012	Containment sump solution, for “double wall function”
555002	Hose-mounted volume meter
555014	Flow meter with pulser
555013	Wall-mounted digital display
555015	Pressure regulator (for dispensing equipment)
555011	Pressure regulator (for tank refilling equipment)
-	Level monitoring system
-	Leakage alarm system
-	IT net connection, LabkoNet

2 Storage and distribution solution for outdoor use, together with stand-alone, approved or non-approved dispenser



Expandable storage and distribution solution for outdoor use at truck stops or vehicle fleet depots. The base module consists of 2 x 2 000 liter tanks in a storage cabinet, including pump and control equipment. With the addition of expansion units this solution can easily and quickly be expanded up to 24 000 liters.

This base solution is intended for use with a separate dispenser (approved or non-approved). There are several different brands of approved dispensers with authorization and registration terminals that can be connected to IDENTIC's storage and distribution equipment. Examples of possible supplier brands are Dresser Wayne, Tokheim, Autotank and Pajarainen. IDENTIC can offer to provide approved AdBlue dispensers of the customer's choice.

A. *Base solution with sequential refilling*

Storage cabinet:

KIT 301: Storage cabinet for 2 x 2 000 liter tanks, including containment sump (leak protection).

Storage tank:

KIT 401 A: Storage tanks with 2 x 2 000 liter capacity, including electrical & control unit, ventilation, overflow protection, tank truck refilling interface etc. Designed for "sequential" refilling of the storage tanks, which means that the storage tanks are refilled in sequence, i.e. one at a time.

555018: Hose kit incl. service valve, for connection of stand-alone dispenser.

B. Base solution with common refilling

Storage cabinet:

KIT 301: Storage cabinet. See description above.

Storage tank:

KIT 401 B: Storage tanks; same as 203 A, but with “common” refilling of the storage tanks, which means that both storage tanks are refilled at the same time.

555018: Hose kit incl. service valve, for connection of stand-alone dispenser.

C. Options/Accessories

Art./kit no.	Description
KIT 302	Expansion module; Storage cabinet for 2 x 2 000 liter tanks.
KIT 402 A	Expansion module; Storage tanks with 2 x 2 000 liter capacity, “sequential” refilling
KIT 402 B	Expansion module; Storage tanks with 2 x 2 000 liter capacity, “common” refilling
555016	Anchorage bolt kit
555017	<i>Exchange</i> of refilling pipe kit B to refilling pipe kit A, for connection with pressure regulator
555011	Pressure regulator
-	Heating fan
-	Cooling unit
-	Thermostat
-	Temp. monitoring system
-	Level monitoring system
-	Leakage alarm system
-	IT net connection, LabkoNet

3 Storage and distribution solution for outdoor use, with integrated, non-approved dispenser



Expandable storage and distribution solution for outdoor use at for example vehicle fleet depots where an approved dispenser is not needed. The base module consists of 2 x 2 000 liter tanks in a storage cabinet, including pump and control equipment, with an integrated dispenser unit (non-approved). With the addition of expansion units this solution can easily and quickly be expanded up to 24 000 liters.

A. Base module with sequential refilling and different dispensers

Storage cabinet:

KIT 301: Storage cabinet for 2 x 2 000 liter tanks, including containment sump (leak protection). Prepared for an integrated dispenser unit.

Storage tank:

KIT 401 A: Storage tanks with 2 x 2 000 liter capacity, including electrical & control unit, ventilation, overflow protection, tank truck refilling interface etc. Designed for “sequential” refilling of the storage tanks.

Dispenser options:

KIT 501: Dispenser unit (non-approved) with “open” nozzle, for integration in the storage cabinet.

KIT 502: Dispenser unit (non-approved) with spill-free nozzle, for integration in the storage cabinet.

KIT 503: Dispenser unit (non-approved) with “open” and spill-free nozzles, for integration in the storage cabinet.

B. Base module with common refilling and different dispensers

Storage cabinet:

KIT 301: Storage cabinet. See description above.

Storage tank:

KIT 401 B: Storage tanks; same as 401 A, but with “common” refilling of the storage tanks.

Dispenser options:

KIT 501: Dispenser unit with “open” nozzle. See description above.

KIT 502: Dispenser unit with spill-free nozzle. See description above.

KIT 503: Dispenser unit with “open” + spill-free nozzles. See description above.

C. Options/Accessories

Art./kit no.	Description
KIT 302	Expansion module; Storage cabinet for 2 x 2 000 liter tanks.
KIT 402 A	Expansion module; Storage tanks with 2 x 2 000 liter capacity, “sequential” refilling
KIT 402 B	Expansion module; Storage tanks with 2 x 2 000 liter capacity, “common” refilling
555016	Anchorage bolt kit
555017	<i>Exchange</i> of refilling pipe kit B to refilling pipe kit A, for connection with pressure regulator
555011	Pressure regulator
-	Heating fan
-	Defroster
-	Cooling unit
-	Thermostat
-	Temp. monitoring system
-	Level monitoring system
-	Leakage alarm system
-	IT net connection, LabkoNet
-	Authorization and registration terminal

4 Storage and distribution solution for outdoor use at service stations, together with stand-alone, approved dispenser



Storage and distribution solution for outdoor use at service stations. Designed to fit on refuelling islands. The base module consists of a 3 000 liter tank in a storage cabinet, including pump and control equipment.

This base module is intended for use with a separate, approved dispenser. There are several different brands of approved dispensers with authorization and registration terminals that can be connected to IDENTIC's storage and distribution equipment. Examples of possible supplier brands are Dresser Wayne, Tokheim, Autotank and Pajarainen. IDENTIC can offer to provide approved AdBlue dispensers of the customer's choice.

A. Base module

Storage cabinet:

KIT 310: Storage cabinet for 3 000 liter tank, including containment sump (leak protection).

Storage tank:

KIT 410: Storage tank with 3 000 liter capacity, including electrical & control unit, ventilation, overflow protection, tank truck refilling interface etc.

B. Options/Accessories

Art./kit no.	Description
555016	Anchorage bolt kit
555011	Pressure regulator
-	Heating fan
-	Defroster
-	Cooling unit
-	Thermostat
-	Temp. monitoring system
-	Level monitoring system
-	Leakage alarm system
-	IT net connection, LabkoNet