



# Quantum AdBlue®



## Dispensing AdBlue® in the various dispenser types

- Tokheim solution for Euro IV/V regulation
- Better than ISO 22241 compliant
- Wide range of models and options
- Smallest footprint for easy installation on existing islands
- Flexible container integrated solutions
- Easy operation
- Foolproof heating solutions
- Compatible with Quantum family



# Quantum AdBlue®

Around the world legislation governing the different emissions levels are being implemented. In Europe the emission standards are defined in a series of European Union directives staging the progressive introduction of increasingly stringent standards. Carbon monoxide (CO) and particulate matter (PM) emission levels for heavy duty trucks are being regulated in the Euro IV and Euro V standards.

The most commonly used solution to comply is using a technology called Selective Catalytic Reduction (SCR). This technology involves the destruction of NO<sub>x</sub> through reaction with ammonia (urea), resulting in harmless water and nitrogen.

The urea solution required by the SCR system is called AdBlue®. It is stored in a separate tank on the truck and injected into the exhaust system. To guarantee correct operation the AdBlue® quality is specified in an ISO standard (ISO 22241). Furthermore AdBlue® is highly corrosive and freezes at -11°C.



## Standard features

- TQM AdBlue® meter
- Submerge system
- AdBlue® piston valve
- ZVA AdBlue® nozzle with magnet
- WWC-T1 calculator platform
- LED backlit LCD display for low power consumption
- MID/OIML compliant

To comply with ISO 22241 and not contaminate the AdBlue®, most components in the liquid line were modified. This was done using standard components as to not affect form and fit (service benefit). All components are labeled 'AdBlue® component' to prevent confusion when changing parts in the field. The complete system went through extensive testing and the Tokheim solution is the only system in industry where no contamination occurs even when the equipment is not used for 24 hours.

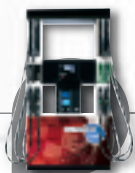
*Labelled AdBlue® components*



*Standard components made AdBlue® compatible*



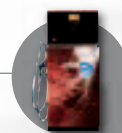
Quantum 510



Quantum 410



Quantum 310



Quantum 210



Quantum 110

## Selection of the most efficient AdBlue® dispensing solution

### Dispensers and common options

**Quantum 100-series.** Entry level solution for the basic needs.

- Small footprint
- Single nozzle in flexible island configuration

- Hose management with hose hook

*Common options: heating (-15°C), spring mast, fleet management system compatible*



### Quantum 500-series.

Solution to meet most demanding station needs.

- Smallest footprint in industry allowing in most cases installation next to an existing diesel dispenser
- Single sided and double sided lane oriented configurations
- Reliable hose retraction system bringing 4m reach

- The AdBlue® 'combo' design can be mounted to the most common Q500-series diesel dispenser configurations bringing a wide range of possibilities for station lay-out
- All models are payment ready and allow easy retrofit

*Common options: heating (-25°C), various alarms to prevent freezing*



*The heating option is supplied with user friendly and foolproof sliding door to prevent the loss of heat and the freezing effects that could result from it*

### Container series. Quick and flexible fix.

- 4.000L capacity (10.000L on request)
- All solutions are 'plug and play'
- Tank level indication
- Modular design using the standard AdBlue® dispenser bringing all its benefits

- Single sided and double sided configurations

*Common options: heating (-25°C), overfill protection, leaksensor, container debowser, various telemetry systems*





- Manufacturing Plants
- Sales & Service Divisions
- Headquarters
- Subsidiaries
- Joint-Ventures

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*As Tokheim regularly improves its products to ever better  
respond to evolving market and regulatory requirements,  
it reserves the right to change any of the specifications of  
these products, and this without prior notice.*

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