

Bluebasic AdBlue production plants

Fixed/mobile modular plants for the production of high quality AdBlue according to ISO 22241.



The new emission limits imposed by environmental regulations, in particular in regards to NO_x (Nitrogen Oxides) for diesel vehicles requires the use of increasingly sophisticated systems for emissions reduction.

All new generation diesel engines for on road (trucks, commercial vehicles and cars) and off-road applications (agricultural machines, construction machines and stationary engines or genset) are provided with an SCR after-treatment system (Selective Catalytic Reduction).

The SCR system, which allows substantial reductions in emissions, need the use of AdBlue, a particularly valuable chemical, produced with technical urea 32,5% and highly pure demi-water, as a not adequate compound would entail serious damage to decidedly expensive components. In particular, the presence of even minimal traces of heavy minerals or other pollutants within the urea solution or water would lead to a premature aging of the catalyst, i.e. the component that inside the discharge circuit promotes the chemical reaction of dissociation of the nitrogen oxides. It is therefore

extremely necessary the supply of a high quality product.

Due to the fact that AdBlue is a water solution, logistics plays a very important use and account for more than 50% of the final product costs. In order to reduce this cost, especially when customers are located in remote areas, Bluebasic has developed a mobile AdBlue production plant that can be easily installed and remotely controlled in order to produce urea exactly where it is needed at a convenient price for the customers.

Bluebasic can offer a complete range of AdBlue production plants ranging from 2000 to 80.000 l a day or designed on your specific need. Bluebasic can also provide the procedures, the technical know-how, the urea AdBlue grade, the chemical analysis of the final product and all what is necessary to produce according to ISO 22241.

Bluebasic systems are modular, easy to install and with a flexible production capacity that can be sized on individual needs as indicated below:

Bluebasic range of urea production plants

PLANT MODEL	
DAILY PRODUCTION CAPACITY	
LOADING TYPE	
TYPE	
AdBlue	
BATCH AC	
	77.000 lt
Semitrailers	
Fixed plant	
BATCH BC	
	24.000 lt
1000kg big bags	
Mobile plant	
BATCH MC	
	1.800 lt
25 kg bags	
Mobile plant	

Advantages of urea production in-site

- Easy transport because the system can easily fit in containers (one or more according to the production capacity – even big plants are made in SKID and assembled on the spot);
- Modular system with optimized production according to specific needs;
- Electronic control of the different of different production phases.

Advantages:

- The production of AdBlue in site reduces the traffic of tankers (essentially not carrying water necessary for urea dissolution);
- The AdBlue solution produced with in site water is characterized by known and repetitive grades of purity and hardness: i.e. free of any unpredictable contamination or alterations of the composition, which may result from dissolution process not directly controlled by the user;
- The receipt of packed or bulk solid urea does not require works for containment and conveying of any incidental spills in the collection tank. Such necessary containment measures would instead be indispensable in case of continuous receipt of liquid urea solution;
- The solid urea can be purchased at favourable conditions and stored without major consequences prior to the use.

To sum up: easy and convenient

Bluebasic can also supply you directly the finished product, produced according to ISO 22241 specification from one of its production plants or directly from the production plant of one of its licensee (see pictures 3-4).

If your volumes doesn't justify an AdBlue production plant or you want to start entering into the market without investment, you can also buy our ready made product. You can find the product in different formats 1 l, 2l, 5 l, 10 l, 20 l, 208 l, 1000 l or bulk transported in Flexi tank or Iso tank directly to your premises.

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