



### **More than 100 Bosch boilers for clean air in Beijing** Below the limit value: 22 mg/m<sup>3</sup> NO<sub>x</sub> emissions

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For replacing existing heating boilers in Beijing, Bosch Thermotechnology received three large orders for the delivery of 138 Uni Condens 6000 F heating boiler systems in total. Clean and energy-efficient heating technology in China's metropolises is now more important than ever. Particularly stringent emission standards have been introduced in order to reduce pollutant emissions. In Beijing the nitric oxide limit value for heat generation systems and power plants is just 30 milligramme per cubic metre. With 22 milligramme per cubic metre the optimised and natural gas-fired Uni Condens 6000 F heating systems produce even lower emissions than the stipulated limit values, and use condensing technology to offer maximum efficiency.

Beijing Huaying Tianrun Energy Technology Co. Ltd. operates several heating plants in Beijing and approached Bosch Thermotechnology for the first time in 2016. The objective was to use new heating systems to significantly reduce nitric oxide emissions and improve energy efficiency. Special factors had to be taken into account during the early technical design phase, above all the high levels of air pollution in Beijing. Not all burner technologies are capable of reliably reducing nitric oxide emissions. Bosch Thermotechnology worked with a reputable burner manufacturer to develop an innovative solution. In addition to an optimised combustion chamber and modified control system, the Uni Condens 6000 F boilers also use the recirculation technology, which is commonly used for industrial boilers. They are characterised by their robust design, are resistant to contamination and guarantee extremely low nitric oxide values in the exhaust gas with a relatively low excess oxygen level of less than 3.5 per cent: Depending on the set burner output, nitric oxide emissions are between 22 and 29 milligramme per cubic metre – and therefore below the limit value for Beijing of 30 milligramme per cubic metre.

The 1.2 megawatt Uni Condens boilers also use sophisticated condensing technology, which further reduces the amount of energy used as well as nitric oxide emissions. In comparison to their predecessors, the boilers use up to 15 per cent less fuel. The low nitric oxide values and excellent efficiency were also confirmed in March 2018 by the “China Special Equipment Inspection and Research Institute (CSEI)”, who carried out measurements on site. With its further-developed boilers, Bosch Thermotechnology successfully implemented a solution for a special market requirement in just a few months. Since the delivery of the first 20 boilers in 2016, Beijing Huaying Tianrun Energy Technology Co. Ltd. commissioned a further 118 low-emission Uni Condens 6000 F boilers in 2017 and 2018. They are all contributing to reducing climate-damaging greenhouse gases – for better air quality in Beijing.



Invented for life: Boiler systems from Bosch are helping to improve air quality in Beijing.



Part of the Uni Condens heating boiler systems from the first order in 2016 – each boiler generates 1.2 MW heat.



Extremely low nitric oxide emissions: The optimised Bosch heating boiler system with recirculation technology.

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*Bosch Thermotechnology is a leading European manufacturer of energy-efficient heating products and hot water solutions. In fiscal 2017, the company generated sales of about 3.4 billion euros (67 percent outside Germany) and employed approx. 14 400 people. Bosch Thermotechnology has strong international and regional brands and manufactures a diversified product range in Europe, America and Asia.*

Further information is available online at [www.bosch-thermotechnology.com](http://www.bosch-thermotechnology.com)

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