

A STRONG TEAM IN THE PREVENTION
OF AIR POLLUTION

NEO AIRTECH

in collaboration with



MÜNSTERMANN



Germany

INDUSTRIAL FILTERS & DEDUSTING SYSTEMS



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A STRONG TEAM FOR CLEAN AIR

MÜNSTERMANN and NEOTECHNIK

– two companies with tradition and much experience.
Together we stand for top-quality, efficient solutions
in dust collection technology.

MÜNSTERMANN and NEOTECHNIK – Tried and tested experience with dedusting plants

Two separate companies with tradition and huge know-how have bundled their competences together – MÜNSTERMANN and NEOTECHNIK. Expect a plus in competent consulting and project related support.

Over 80 workers from the Departments Production Engineering Design and Development are concerned with our customers' questions in our two Head Offices in Telgte and Bielefeld.

We are active world-wide and have production facilities as well as with several licence holders, joint ventures and co-operation partners in Asia, the Middle East and Africa.

Flat Bag and bag filters from one source

MÜNSTERMANN and NEOTECHNIK's joint product range is large. Our offer ranges from the smallest filters to centralised dedusting units.

Should you expect an excess of competent advice and project-related monitoring then we are your contact person for all questions around industrial dedusting and filtering technology. You will receive individual concepts for the most differing areas of application from one source.

We have special experience in the following areas:

- > Quarry, mining and mineral industry
- > Foundry and steel industries
- > Tobacco production and processing
- > Food and drinks industry
- > Chemical applications
- > Cement, lime and gypsum

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NEOAIRTECH & MÜNSTERMANN + NEOTECHNIK

–NEOAIRTECH India Pvt. Ltd. has technical collaboration with NEOTECHNIK GmbH, Germany, who are pioneers in the field of Air Pollution Control equipment for the last 90 years.

NEOTECHNIK is well known throughout with best available technology (BAT solution).

NEOAIRTECH Neoirtech founded in the year 2012 by a group of technocrats with rich industrial experience to cater to the needs of industries in controlling the pollution due to internal process there by achieving clean shop floor.

Living up to its promise “Global Technology @ Local Price” with 100% indigenization. Further enabling customers to reap the benefit of best engineering through BAT (Best Available Technology) solutions there by placing them on par with global technology.

With the European technology coupled with local manufacturing Neoirtech offers economical solution blended for Indian conditions complying with local governmental laws & pollution control norms.



MÜNSTERMANN + NEOTECHNIK
Global Network
● Head office
● Sales partners
● Production plants / Cooperations

FACILITY

State of the art manufacturing assembly & testing facility at Bangalore, India



Manufacturing cum Assembly Bay - I



Manufacturing cum Assembly Bay - II

Neoairtech has an established office in Bangalore (silicon city / science city of India) with qualified sales, engineering & after-sales team ready to serve industries right from conception to handing over.

The state of the art Engineering department is equipped to take any challenges posed by the industry while designing tailor made solutions suiting customer needs. Our Engineers have requisite qualification with rich experience in the field. With technical support from our Principals, our Engineering Department is continuously striving towards achieving best solutions indigenously to suit local needs of the customers thus economising the overall Project cost.

After Sales department is capable of supporting customers in installation & commissioning activity establishing agreed parameters of the installed system. Onsite training to customer's personnel is given to equip customer to operate & maintain the system for optimal efficiency.

Neoairtech manufacturing cum assembly & testing facility spread over two bays with a covered area of 15000sq ft. Each bay has overhead crane of capacity 10T & 5T.

Following components which forms part of the total filtration system are manufactured, assembled & tested in-house;

- Crude Gas Hood
- Filter Chamber
- Hopper with support legs
- Platform with safety railings
- Access ladder

Following bought-out items as per Neoairtech design are tested in-house;

- ID & Impulse fan
- Drive motor
- Screw Conveyor
- Rotary Air-Lock valve
- Motorized dual flap valve
- VFD & Switch gear panel

Special items;

- Ambient air damper
- Throttle damper
- Lime dosing system
- Canopy / Closed capture hoods
- Swirler / Cyclonic spark arrester

INSTALLATIONS



Fume Extraction System for 6T DT furnace



De-dusting System for Sand Plant & Shakeout

Neoirtech takes pride in spearheading the “Concept to handing over” approach. Successful installations closed to 110 systems & 40 under execution across India & Asia is a remarkable achievement considering number years (4) of operation since inception.

Post order execution warrants meticulous planning of activities like engineering, drawing, purchase, manufacturing, assembly, testing & delivery. Professional approach enables both customer & supplier achieve result within committed time frame with 100% engagement to attain the set purpose. At every stage quality checks are put in place to ensure a quality system incorporated until commissioning.

The following are the core activities for successful execution

- i. Collection of data at site by engineering dept.
- ii. Preparation & submission of General Arrangement drawing for customer approval
- iii. Preparation & submission of complete layout including equipment & duct
- iv. Civil foundation layout covering all the equipments under supply
- v. Detailed BOM for fabrication at customer end

- vi. Supervision for mechanical installation of equipments
- vii. Supervision for electrical installation of equipments
- viii. Final commissioning support
- ix. Final testing at site & handing over

Neoirtech specializes in the above activities with thorough professional approach to bring in best solution with active involvement of customer in order to achieve designed parameters.

Neoirtech offers AMC (Annual Maintenance Contract) which enables customer for regular upkeep of the system & also to achieve designed parameters with highest efficiency. Further supported by genuine spares delivered on emergency to ensure trouble free operation thus gaining on production efficiency.



Doubled rowed bag filter

PRODUCT RANGE

Wide range of products to suit different applications



NFS Surface Filter

NFS Surface Filter with reverse air cleaning

The NFS range of reverse air filters comprises a series of modular filter units up to 2000 m² filtration area. The filter system provides continuous automatic reverse air cleaning with a constantly low filter differential pressure and at extremely low operating costs. The filter housing is constructed of tough reinforced welded steel sheets in a modular design. Large front doors enable a quick and easy access for maintenance operations.



Diagram of a bag filter with purge air dedusting

- ◆ High separation efficiency
- ◆ Gentle cleaning process
- ◆ Low operating costs
- ◆ Low differential pressure
- ◆ Easy to maintain system
- ◆ Space saving conception



NFD / NFCT Surface Filter

NFD Surface Filter with compressed air cleaning

The NFD range of jet filters operates by compressed air cleaning and is able to accommodate a filtration area of up to 2 000 m² in one filter housing. Custom-built to specification, this dust extraction offers lower capital investment cost to a similar reverse air cleaning filter, at least, if smaller sizes are concerned. The filter housing is constructed of tough reinforced welded steel sheets in a modular design. Large front doors enable a quick and easy access for maintenance operations.

- ◆ High separation efficiency
- ◆ Low investment costs
- ◆ Easy to maintain system
- ◆ Well-integrable filter housing
- ◆ Space saving conception

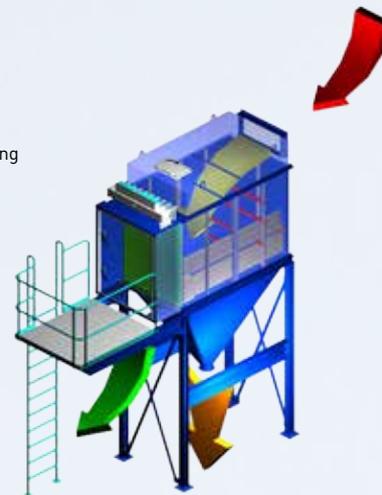


Diagram of a bag filter with compressed air dedusting



NFK Surface Cooler



NFC Cartridge Filter

NFK Surface Cooler with / without cleaning

The NFK range heat exchangers or surface cooler is designed to cool hot and dusty exhaust gases (approx. 550°C) from melting furnaces, as e.g. cupolas, rotary furnaces, shaft furnaces, and, as a result, allows the use of more economical filter media. For cooling of gases, ambient air supplied by fans, is fed through the horizontally installed cooling pockets. In addition to that, coarse dust particles are separated by means of deflection and, in special cases, the cooling surfaces are automatically cleaned.

NFC Cartridge Filter

The NFC range of cartridge filters with compressed air cleaning used to accommodate more fabric area in a given space due to its pleated construction. Cartridges are thermoset spun bond to handle special applications like grinding, blasting, venting etc.

Direct casing mounted fan enables economical option for non-continuous intermittent applications.

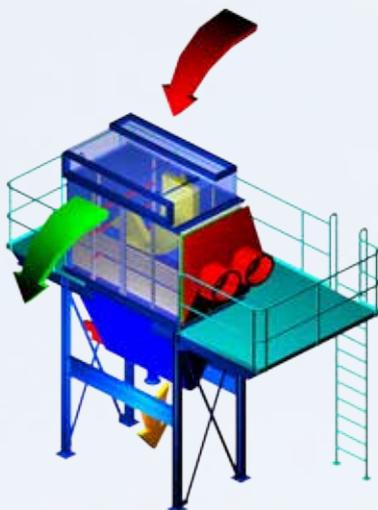


Diagram of a Surface Cooler

- ◆ Cooling of hot gases from approx. 550°C
- ◆ High cooling rate
- ◆ Pre-separation
- ◆ Low operating costs
- ◆ Low pressure loss



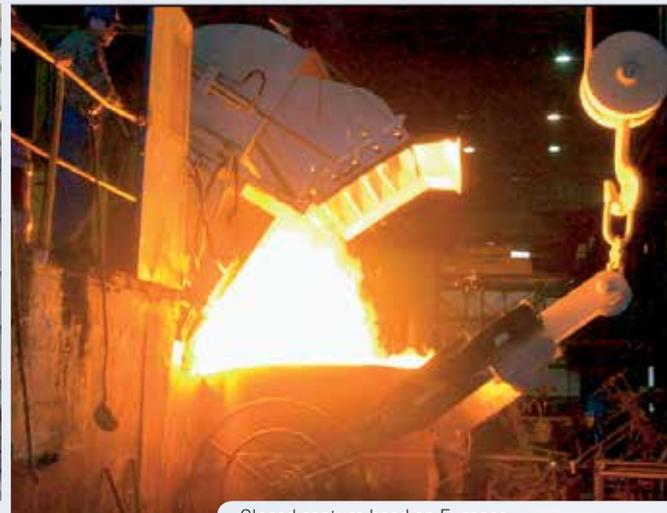
Silovent / Static Filter

MANY YEARS OF EXPERIENCE

Our areas of competence



De-dusting of Thermal reclamation



Closed capture hood on Furnace

Foundry

We have at our disposal many years of experience in a large number of areas of industrial casting:

- > Furnace; Charging / Melting / Tapping
- > Induction / Cupola / EAF.. furnace
- > Moulding / casting & cooling lines
- > Sand Plant & Shakeout
- > Sand Cooling
- > Fettling; blasting / grinding / cleaning
- > Core Shop; amine gas treatment
- > Magnesium Converter extraction

Your advantages:

- > Complete units for interior / exterior
- > Know-how in all areas of a foundry
- > Special capture elements
- > Optimised filter units for fine dust
- > Concept to Hand-over
- > European emission norms

Hot gas

For application with hot gases we supply complete units with coolers. In addition we can obtain the fitting absorption units.

We dedust:

- > Effluent sludge dryers
- > Crematoria
- > Wood burning incinerators
- > RDF-plants
- > Furnace extraction systems



Cyclone separator in front of a flat bag



Mobile dedusting unit for a crusher plant



Dedusting of a lime shaft kiln

Quarry, mining and mineral industry

In the stone and earth industry we give effective support to our customers as high performance partners for static and mobile dedusting units. Our robust systems dedust:

- > Crushers and mills
- > Conveying systems and handover points
- > Silos assignments and bulk consignments
- > Dedusting screens and bucket elevators

Your advantages:

- > Everything from one source: from acquisition to chimney
- > Robust design for rough, everyday applications
- > Insensitive to damp
- > Delivery of silo top bin filter

Cement, lime and gypsum

The cement, lime and plaster industry is supplied with our filter systems for all of the following applications:

- > Feed hopper, crushers, sifters in lime and marl stone quarries
- > Raw material warehousing and conveyor belts
- > Hot gases from raw meal mills
- > Fuel processing
- > Interim storage of bricks in a brick silo
- > Fine grinding in a cement mill
- > Mixing with additives
- > Bulk materials, packing and transport
- > Drying units
- > Lime shaft kilns



Dedusting unit for a clinker cooler



Pneumatic conveying of tobacco and machine dedusting



Explosion protected dedusting process in the rubber industry

Tobacco

The tobacco industry has in us a reliable contact partner and supplier. Our customers profit from NEOTECHNIK's more than 50 years experience in this branch. We supply fully-automatic systems for the processing of raw tobacco, treatment of tobacco and the production of cigarettes.

We offer you:

- > Extraction of exhaust vapours
- > Dedusting of dryers and expander units
- > Pneumatic leaf and stem conveyors
- > Pneumatic tobacco cut filler transport systems with blend selection station including monitoring facility
- > Dedusting of cigarette machines' extractor
- > Centralised waste management
- > Centralised dust extraction

Food and drinks

The food and drinks industry has a variety of requirements in regard to dedusting technology. The MÜNSTERMANN and NEOTECHNIK network of competence offers manifold solutions for the filtering of processed air in drying processes, the dedusting of silos and conveyor lines or the pneumatic conveyance of foodstuffs such as herbs and spices.

Chemical industry

For dedusting and processing filters for the chemical industry there are special requirements. In the air to be filtered or in the gases aggressive substances occur to some extent. Here the units are needed in stainless steel and with explosion protection such as explosion flaps. Along with the pure filtering you can also control the flow of process air (e.g. when using drying and degassing processes).

Customer Service has the utmost importance



Control cabinet for dedusting plant



Canopy type Swing Hood for furnace fume extraction system

Measurement and Control

Together with our own Measurement and control Department we put our customers' control concepts and interfaces to existing control systems into practice.

Your advantages:

- > Hardware and control from one source without interface problems
- > Optimal solution for your case of application through know-how of machines and processes
- > SPS-control system from Siemens, Allen Bradley and Beckhoff
- > Centralised and de-centralised control concepts

Additional services

Engineering of ventilation and air conditioning systems

Our competences exceed the actual design and development of units by far. On request we can design a complete unit for you from thorough consultation right up to the planning of the logistics and the commissioning.

We offer you:

- > Planning of units, information registration systems and piping
- > Calibration and regulating of units
- > Advice on energy and dust management

Assembly and maintenance services

NEOAIRTECH have at their disposal their own Assembly and Maintenance Departments. Experienced and technically well-qualified personnel ensure the smooth-running of all processes.

Spare parts service – quick and reliable

NEOAIRTECH offer a comprehensive spare parts service. Even years after installation we are and remain your direct and competent contact partner. You can completely rely on our brisk customer service.

Conversion and modernisation of old facilities

The modernisation of an existing dedusting unit or the special conversions such as the change of electro filters to bag filters is far less effort and expense than is generally anticipated. They have a number of advantages:

- > Suction output is increased.
- > Residual dust content in pure air drops.
- > You save energy.

Feel free to contact us!

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