运行和维护手册

1

Operation and Maintenance Manual

NEP *除尘器* Wet Scrubber (Universal Version) *This manual is organized as a universal type and may not contain all functions.

Catalogue

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1.0 Technical Parameters

Wet scrubber Restrictions

| The wet scrubber is designed to separate solid matter from the | ie gas; | | |
|--|---|----|--|
| This wet scrubber is not suitable for sterilization and / or virus | This wet scrubber is not suitable for sterilization and / or virus removal; | | |
| Never use the wet scrubber as a Trash tank! | | | |
| This wet scrubber only applies to the following parameters | | | |
| Dust Characteristics | Design | | |
| Particle size | \sim 3um | | |
| Temperature | ≤100 | °C | |
| Abrasion | N/A | | |
| Fluidity | N/A | | |

Installation

| Indoor / outdoor installation | |
|-------------------------------|---------------------------|
| Applicable environment | Non-explosive environment |
| Electronic control system | |
| Power | 380V/AC,50Hz |
| | |

(See also section Technical data sheet in the device drawing)



Inspection and maintenance intervals (see also section 6.10)

| Intervals | Item | Description | Reference |
|-----------|-------------------|------------------------------|---------------------|
| Everyday | Sewage conditions | Check the working conditions | Original manual (if |
| Everyddy | | Check the working conditions | necessary) |
| Each 12 | Pody | Check the wall and the inner | |
| months | воцу | wear marks | |
| Each 12 | Dewatering plate | Check the dewatering plate | |
| months | components | wear condition | |
| | | | |



Troubleshooting (See section 6.20)

| Troub | les | |
|--------|---|---------------------------------------|
| | Reason | Remedy |
| Reduc | tion of processing gas | |
| | Dewatering plate stuff | Clean the plate |
| | Water level is too high | Make sure the water level is at the |
| | | design level |
| At sta | rt, low air volume/airflow | |
| | The fan Reverse working | Check and revise the cable |
| | | |
| Syster | n | |
| | Treatment of gas is too large | Adjust to the rated amount of |
| | | processing gas |
| | Leaking water | Welding |
| | Deviated from the expected use, the | Correct the operating parameters and |
| | operating parameters have changed, for | allow the precipitator to operate for |
| | example: the temperature is too high or | about 1 hour without dust |
| | too much gas treatment | |

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2.00 Safety regulations

2.10 Operation and maintenance procedures

Your wet scrubber is a machine made to the latest technology and safety regulations.

| Operation and | Familiar with the procedures in this Operation and | | |
|--------------------|---|--|--|
| maintenance | Maintenance Manual is essential to avoiding personal injury and | | |
| procedures | equipment damage. This Operation and Maintenance Manual | | |
| | contains the most important instructions for operating this scrubber | | |
| | in complete safety. If necessary, welcome for further information. | | |
| | All personnel working on this wet scrubber must strictly | | |
| | observe the procedures in this Operation and Maintenance Manual. | | |
| Obtain Procedures | Operators should be able to access this Operation and | | |
| | Maintenance Manual next to the wet scrubber at all times. | | |
| Other procedures | In addition to the procedures in this Operation and | | |
| | Maintenance Manual, all national mandatory safety regulations to | | |
| | prevent accidents and protect the environment must be strictly | | |
| | adhered to. | | |
| Working | When the deduster is integrated into a complex production | | |
| procedures | system, the owner should develop additional work procedures to | | |
| | meet specific requirements, for example: correct start-up sequence. | | |
| 2.20 Expected usag | ge | | |
| | This scrubber is designed based on the information provided | | |
| | by the user. The correctness of this information is one of the | | |
| | conditions for the establishment of the contract for the | | |
| | supplement. | | |
| | This dust extractor intended to be used exclusively to separate | | |
| | material as defined in "1 Technical Data" and operate under | | |
| | the stated intended use. It is the user's responsibility to ensure | | |
| | that the actual operating conditions are consistent with the | | |
| | operating conditions specified. | | |
| 2 30 Terms and def | finitions | | |
| Wet scrubber | In this Operation and Maintenance Manual, the equipment / | | |
| | machines mentioned for the separation of dust that affects the | | |
| | environment or human health are wet scrubber. | | |
| User | This wet scrubber is required as secondary or main production | | |
| | equipment or to meet the occupational safety requirements of | | |
| | personnel. | | |
| Operating staff | Authorized, trained and mentored to carry out the relevant | | |
| | personnel involved in transporting, assembling, starting, operating, | | |
| | maintaining, cleaning and repairing this machine. | | |
| | When faced with electrical, pneumatic and hydraulic | | |





2.40 Manufacturers proposed measures

| Logo | There are various identifiers on the precipitator to draw |
|---------------|---|
| | attention to specific hazards and warnings of problems, see chapter |
| | 1 "Technical Data" |
| 2.50 Action t | o be taken by the user / operator |

| 2.007 101011 10 00 1 | |
|----------------------|---|
| Logo | If there is a marking on the filter system, the operator must |
| | comply with the rules indicated above. |
| Conditions to be | Before starting any work on the machine: |
| met by operators | The operator must be informed of the hazards involved |
| | - Operators must read this Operation and Maintenance Manual |
| | The user should confirm in written form that the operator has |
| | read and understood the Operation and Maintenance Manual. |



| Users need to satisfy conditions | Before starting any work on the machine: The user must agree to the necessity of wearing personal protective equipment (PPE), especially when handling dust. The user must clearly define the limits of liability for the operation, maintenance and repair of the precipitator so that there is no dispute regarding safety-related responsibilities and responsibilities. |
|-------------------------------------|--|
| Duty to pay | Before operating the wet scrubber, make sure that no one is in |
| attention when | the danger zone- The wet scrubber should only be put into |
| running | operation in good condition |
| Original parts and accessories | - It must be done to ensure that there is sufficient supply of fresh air in the workplace |
| Water protection | Substances that contain potential hazards to water must be carefully handled to prevent any contamination. |
| Fireproof (if | As a precautionary measure, combustible dust must be |
| needs) | removed weekly from the dust container or similar device, or the |
| | cleaning cycle may be based on the amount of dust generated, but |
| | the upper limit must not exceed 25% of the volume of the dust |
| | container. |
| | The user must establish the necessary organizational measures |
| | during the working week and be directly linked to the operator. |
| | I ne fire department must be informed in advance about the |
| | potential fire risk of the precipitator. Must be the fire department of |
| | precipitator responsible person to develop a quick and correct life |
| | agents and their storage, fire extinguishing procedures and other |
| | details |
| | Employees who work on dust remover must accent training |
| | fire drills or training sessions in the event of a fire that takes place on |
| | an annual basis. |
| | What to do and what to do when a fire breaks out: |
| | - Standing hand-held fire extinguisher (please check whether |
| | the fire extinguishing agent is suitable for the mixture of fuel and |
| | dust) |
| | - If necessary, inform the fire department |
| | - After personal protection, carefully open the manhole door or |
| | inspection hole of the precipitator and do not stand directly on the |
| | front of any manhole or inspection hole! When the hole or door is |
| | opened, the flame may explode. |
| | Extinguishing with a hand-held fire extinguisher (Extinguishing |
| | media must be suitable for the fuel-dust mixture) |
| | |
| | |

| 2.60 Clean gas trea | atment |
|---------------------|--|
| | The amount of dust that has not been separated from the net gas will always depend on what is being separated. When the dust collector is used according to the intended purpose, the dust content |
| | of the unpurified gas will meet the customer's requirements. |
| Solid / gaseous | |
| pollutants | The wet scrubber uses the principle of water adsorption; it can not |
| separation | completely separate gaseous pollutants. |
| | Dust collectors equipped with fans must not connect pipes to |
| | the user's ventilation system (eg air-conditioning system)! |
| Exhaust pipe mode | Clean air should be discharged from a workplace to the open, |
| | and it is necessary to provide the workplace with enough fresh air. |
| | Exhaust mode operation depends on the emission limits set by |
| | national legislation on environmental protection. |
| Gas recirculation | Clean air in the workplace cycle again. |
| mode | The mode of gas recirculation depends on the material |
| | properties of the dust, the concentration limits of the dust must be |
| | observed, etc. (eg maximum allowable concentration, technical |
| | required concentration). Gas recirculation is only licensed during the |
| | heating season and requires authorization from the authorities. At |
| | the same time it must be possible to switch to the vent mode. |
| 2.70 Disposal of wa | aste water |
| | Wastewater containing separated dust is treated as waste; |
| | consult your local environmental protection department. |
| Waste generator | The user has the basic responsibility of "passing the waste |
| | through a closed container to a handling company that can handle |
| | them correctly and safely" |
| Waste | Dust separator with detached dust treated as waste. |
| Waste treatment | All movable objects that owners want, or have to dispose of, |
| | themselves, including debris generated during pollution control (dust remover). |
| Clear | Waste treatment means the use or removal of waste: |
| Correctly | - "Correctly" means compliance with laws and regulations. |
| Safely | - "Safely" means having no adverse effect on the public or the environment. |
| Processing | - Waste may only be transported by approved means of |
| company | transport and handled only by approved plants or facilities. |
| 2.80 Noise emissio | Ins |
| - | The dust collector is designed to ensure a low noise level. In chapter 1 |

"Technical data" you can find the value of the sound pressure level.



| Background noise | | - |
|---------------------|---|---|
| of the installation | | The sound pressure level does not include the effects of |
| point | | background noise from the surroundings of the installation site |
| | | (for example, the reference noise level) nor the reflection of walls |
| | | or the like. |
| | _ | The background noise is usually unknown and therefore not |
| | | considered when designing the precipitator |
| Noise reflection | | |
| | | Advorse conditions at the installation site, such as small spaces or |
| | | Adverse conditions at the installation site, such as small spaces of walls or surfaces that are not sound absorbing may result in |
| | | higher SDI |
| | | ligher SPL. |
| | | - |
| | | It may be necessary to take noise control measures at the |
| | | installation site and / or wear hearing protection equipment. |
| | | Different types of dust between the sound pressure levels are |
| | | also different. |
| Integrated fan | | _ |
| dust collector | | The stated sound pressure level is measured under the following |
| sound pressure | | conditions: a dust collector operating at a fixed installation point |
| level | | at a distance of 1 m and a height of 1.6 m. |
| | | This measurement method is consistent with "Machine Guide |
| | | without Stationary Workstation". |
| Pulse cleaning | _ | - The sound pressure level due to the cleaning pulse has taken |
| allowable value | | into account the allowable value of 3dB (A) (according to |
| | | DIN45635) the relevant standard is also to be found here in |
| | | contrast to our actual data. |
| Sound pressure | | _ |
| level near the fan | | The fan's sound pressure level is the sound pressure level of the |
| | | reference plane and complies with the energy-related provisions |
| | | of the reference plane specified in DIN45635. |
| | _ | - The reference surface sound pressure level is measured at 1m |
| | | distances away from the profile of the blower in the free area |
| | | with ducting connection to the blower inlet and outlet without |
| | | leakage of noise and with the dust collector operating at the |
| | | design operating point |
| Construction | _ | - The construction error (= unavoidable design calculation and |
| error | | manufacturing error) means that the predefined operating |
| | | narameters should be allowed to deviate. These deviations |
| | | depend on the fan's accuracy level. Uncertainties in operating |
| | | narameters due to installation specific factors such as suction and |
| | | outlot installation defects are not constructive errors |
| | | Contributed for accuracy class (according to DIN244.00) |
| | | Centinugai ian accuracy class (according to DIN24100) |



| | Accuracy grade | construction e | error value |
|--------------------|----------------------------|-------------------|-----------------------------------|
| | 0 | +2dB(A) | |
| | 1 | +3dB(A) | |
| | 2 | +4dB(A) | |
| | 3 | +6dB(A) | |
| | Accuracy level asso | ciated with shaft | power |
| | Shaft power value > | •50 kw | level1 |
| | Shaft power value < | 50 kw | level2 |
| | Special fan kw | | level3 |
| No fan filter | - | | |
| sound pressure | As the suctioned m | edium (air or ot | her gas) flows through the |
| level | precipitator, sound | waves will radia | te through the precipitator |
| | housing into the su | rounding enviro | onment of the mounting point. |
| | The level of sound p | pressure generat | ed in this process depends on |
| | many factors: | | |
| | - | | |
| | The geometry of th | e precipitator h | ousing (dimensions of the |
| | radiating surface, th | e thickness and | volume of the siding, etc.) |
| | _ | | |
| | Volume flow (volur | ne of treatment | gas) |
| | Also superimposed | on this sound n | raccura loval thara is a syste of |
| | dusting pulses. | on this sound p | ressure level there is a cycle of |
| | The amount of nois | e generated by t | he above recirculation |
| | cleaning pulses does no | t include the am | ount of process gas in the |
| | precipitator and other a | dditional backgr | ound noise such as |
| | continuous ash removal | equipment. | |
| RECOMMENDATI | If there are uncertaintie | s or special requ | irements (such as low noise |
| ONS | coercive limits), we reco | mmend that yo | u consult a specialist company |
| | or acoustical specialist (| perhaps making | a sound check). |
| 2.91 Safety points | (non-flammable, explo | osive dust or ga | as) |
| | This scrubber des | ign was not to b | e told that the associated dust |
| | or gas is flammable or | explosive. There | fore, no safety-related |
| | analysis is required to | assess the risk o | f explosion or fire. |
| \frown | The burning and , | ' or explosion of | dust depends on many |
| | factors: | | |
| · | External sources of | of ignition: | |
| | - If the material p | roperties of dus | t are flammable or explosive, |
| | external sources of ign | ition may cause | a fire or explosion. |
| | - Dust that contai | ns fine metal pa | rticles and organic |

components is highly self-ignitable. Examples of processing and

production related to this include laser cutting, welding, shot blasting and flame spraying of oil-laden metal sheets, deep drawing of metal parts or foil-covered metal sheets.

- A mixture of a variety of materials, dust easily spontaneous combustion. For example, aluminum and iron powder thermite reaction, the reaction of the oxidation will release a lot of heat.

It is also the responsibility of the owner or user to constantly check the parameters of the operating conditions, whether there is any change in the information intended for the intended use and the design phase, and it is also the responsibility of the owner or user to take any appropriate measures if necessary.

Please contact us and we'd be happy to help.

2.92 Safety points (flammable, explosive dust or gas)

You must obtain all safety-related characteristics of your particular dust and gas to assess the risk of explosion and / or fire and to determine the protective measures.

It is also the responsibility of the owner or user to constantly check the parameters of the operating conditions, whether there is any change in the information intended for the intended use or the design phase, and it is also the responsibility of the owner or user to take any suitable measures where necessary.

Please contact us and we'd be happy to help.

The precipitator prohibits any welding, metal cutting or deformation machining, as these changes will weaken the structural strength of the precipitator.

Electrical equipment (fire or explosion protection systems) that control or analyze the safety system must be electrically independent: separate fuses and independent power supply.

NEP is not responsible or responsible for any fire or explosion caused by such negligence.

The burning and / or explosion of dust or gas depends on many factors:

External sources of ignition:

 If the characteristics of dust or gas are flammable or explosive, external sources of ignition may cause a fire or explosion. Spontaneous:



- Dust that contains fine metal particles and organic components is highly self-ignitable. Examples of processing and production related to this include laser cutting, welding, shot blasting and flame spraying of oil-laden metal sheets, deep drawing of metal parts or foil-covered metal sheets.

- A mixture of a variety of materials, dust easily spontaneous



combustion. For example, aluminum and iron powder thermite reaction, the reaction of the oxidation will release a lot of heat.

The fire department must be informed in advance about the potential fire risk of the precipitator. Must be the fire department or precipitator responsible person to develop a quick and correct fire emergency plan. The contingency plan must include extinguishing agents and their storage, fire extinguishing procedures and other details.

Employees who work on dust remover must accept training, fire drills or training sessions in the event of a fire that takes place on an annual basis.

2.100 Warranty and responsibility

The dust collectorPlease refer to the sales contract for more information on theand filter elementwarranty period of the precipitator and filter element.

warranty

Disclaimer within The warranty does not apply to consumable parts, such as seals,

the warranty entry shutters and the like.

period

Terms of sale

In general, the manufacturer's standard terms apply unless a special term is reached at the time of signing the contract.

If damage is caused by any of the following reasons, any liability and warranty requirements will not be accepted:

- Non-observance of operating and maintenance procedures

- Dust collector operation deviates from intended use

- Did not inform the chemical impact of NEP until the contract was signed

- Poor transport or storage
- Structural changes
- Assembly, start-up, and poor operation
- Insufficient or inadequate maintenance
- Unprofessional repair
- Non-OEM spare parts used

3.00 Transport, temporary storage, assembly, installation

- 3.10 Mechanical system
- 3.10.10 Dust collector delivery, internal transfer and intermediate storage



Trained personnel should only carry out the task of unloading and internal transit.

Check center of gravity position, weight and dimensions (see accompanying documentation and chapter 7, "Equipment Drawings").

| | Use a forklift and have: |
|----------------|---|
| | - Sufficient load capacity |
| | - Fork long enough |
| | - Lifting height enough |
| | - Use a crane and have: |
| | - Sufficient load capacity |
| | Dedicated spreader for modular models |
| | - Lifting height enough |
| | Check the ground, floor, unloading bridge and unloading ramp |
| | load capacity is sufficient. |
| | Lifting equipment used should have the appropriate loading |
| | capacity and the appropriate rotary and operating equipment. |
| | Boxes with filter elements must not be subjected to any load on |
| | the top - they cannot be stacked. |
| Check shipping | Check for shipping damage immediately when the precipitator |
| damage | arrives. If you find any shipping damage, make a note on the invoice |
| | so that the shipping company's people know. We also recommend |
| | that you take pictures of damaged areas. Neither the shipping |
| | company nor the manufacturer will be responsible for any damage |
| | discovered later on. |
| Disposal of | Dust collector with plastic film placed in the pallet. Both |
| packaging | reusable and disposable pallets are made of untreated wood. |
| materials | |
| Store | Dust collector with filter element installed: |
| | If you intend to store the duster for more than 3 months, we |
| | recommend that you contact NEP to discuss measures that apply to |
| | your duster. |
| Indoor | Dust catcher can generally be stored in a dry place indoors for a |
| | long time without any problem. |
| Outdoor | Dust catcher is wrapped with plastic film to facilitate |
| | transportation, and can provide good weather protection. Before |
| | storing the dust collector outdoors and during storage, check the |
| | plastic film for damage to prevent the dust collector from being |
| | exposed to rain, snow and weather. Important: There are some |
| | openings on the precipitator that are not closed before installation. |
| | If the membrane is damaged, water can enter through these |
| | openings and cause damage. |

3.10.20 Dust collector installation



Observe the location of the center of gravity, its weight and the relevant dimensions (see accompanying documents and shipping documents, and chapter 7 "Equipment drawings").

When lifting the dust collector, the relevant regulations must be

observed.

Do not stand or move under suspended cargo.

Designate a person who is solely responsible for communicating

with crane operators using a uniform command signal.

Coordinate your work with other team members working near

you, so as not to expose others to danger. Coordination means safety!

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Installation

In accordance with chapter 3.10.40 "Plant location".

- Do not cut the packing tape temporarily

3.10.21 Dust collector installation - Supplement: Single equipment

When the dust collector to the scene has been assembled to the maximum extent possible.



(We recommend lifting the pallet together with the precipitator to prevent slippage)

- If the precipitator between the column legs have beams, temporarily do not remove

- Only remove the plastic film

- Fix the appropriate spreader to the indicated lifting point

(Each lifting point carrying capacity 10KN = 1t)

- Go to a safe area and lift the duster

- You can now cut the packing tape and remove the crossbar between the column feet

If the precipitator is shipped in two parts, only the body needs to be fitted to the hopper and bolted.

- Now glue the seal to the bottom half

- Then place the body on the lower half and bolt the two parts together

- Install the precipitator on the ground

(See section 3.10.40 "Plant location" for instructions)

Then there is the installation of mechanical, electrical and pneumatic lines.

3.10.30 Factory location

Outdoor installation

Site requirements Maintenance Remove the filter element

When choosing a location for your duster, please reserve:

- Additional maintenance and repair space

of the cleaning system only.

- To install and remove the filter element, make sure there is approximately 1 m free space in front of the dewatering board cover

Basically, the dust collector is suitable for outdoor use. However,

it may be necessary to take special measures for outdoor use to suit specific geographical conditions. It may be necessary, for example, to make the entire duster a thermal insulation or to heat the valves

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|-------|---|---|
|-------|---|---|

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| Sound insulation | - To lift the sound enclosure, you will need a clearance distance |
|----------------------|---|
| cover | above the filter that is at least equal to the height of the sound enclosure. |
| Basis | |
| Design | Horizontal ground installation, C25 concrete floor, 250mm thick, GB 50010 |
| Note | Dust collectors equipped with periodic vibrating equipment |
| | (rapping / striking equipment, etc.) should be placed on a rubber |
| | mat |
| Explosion relief | The foundation anchor point design should be able to withstand |
| | the reaction pressure generated when the explosion pressure. |
| Location fixed | There are holes on the dust collector feet for fixing the anchor |
| | bolts (anchor bolt users take care of themselves). |
| Maintenance | Maintenance platforms should be designed to withstand all |
| platform | static and live loads. During design preparation, there should be a |
| | margin of gravity that may be added to the overhaul and to provide |
| | at specified altitude facilities such as handrails that meet the safety |
| | requirements for the overhaul platform. The dust collector must be |
| | securely connected to the service platform. |
| Explosion zone | Before you install the duster to any area at risk of explosion, |
| FX | check that the electrical equipment of the duster is certified for use |
| installation | in the area of the explosion as described. |
| Dust remover | Important: When choosing a location for the precipitator, be |
| with pressure | sure that there is no danger to personnel due to pressure waves and |
| EX | / or flame waves or flying parts when the explosion is under |
| relief device | pressure relief. |
| | |
| 3. 10.40 Pipeline CO | nnecuon |

It is necessary to prepare a throttle valve (damper) for the initial operation of the precipitator (first 100 hours of operation) to control the amount of process gas.



"Avoid effective sources of ignition" safety measures: All pipe sections must conduct electricity to each other and to the precipitator.

The pipe connected to the precipitator must be stress-free to prevent any forces on the precipitator (including gravity) caused by any pipe installation.

The design and connection of the screened side piping shall ensure that the soundproof cover can be easily removed when

Gas collecting dust cover

Dust-side piping

Clean gas pipe

Site fixed Design

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| | servicing the blower. In the pipeline exit should be equipped with protective grille or blinds. | | | |
|------------------------------------|---|--|--|--|
| Clean up | Air is emitted when it is emitted from the duct and may be | | | |
| | controlled by adding silencers. | | | |
| 3.20 Electrical Sys | tem | | | |
| 3.20.10 Electrical / | electronic connection | | | |
| | A qualified electrician should only do all electrical work. | | | |
| Dust collector with control box | The duster's control system does not control other machines. | | | |
| Technical | Please tighten all fasteners on the electrical box again. | | | |
| Parameters | | | | |
| Protect equipment | For more information on the main voltage and the main motor | | | |
| | frequency, refer to the circuit diagram and / or nameplate. The | | | |
| | choice of the main cable cross-sectional area should also match the | | | |
| | rated current value. | | | |
| Phase terminal | It is absolutely necessary to provide protective equipment that | | | |
| connection | prevents overheating of the motor or to connect existing protective | | | |
| | equipment before commissioning of the equipment. | | | |
| Additional | Please pay attention to the correct phase terminals and the | | | |
| documents | specific direction of rotation. Check the motor to determine the | | | |
| | correct direction of rotation! | | | |



| 4.00 Design a | and function | | |
|--------------------|--|--|--|
| 4.10 Wet Scrubb | er description | | |
| | Scrubber can be divided into upper and lower. In the dust | | |
| | collector drawings in Section 7, you will find the drawings of your | | |
| | duster with the names of its different parts. | | |
| 4.10.102 Clean a | ir interface on the top of the trunk lid | | |
| Upper part | The upper part of the dust collector includes a body case lid and | | |
| | is connected to the air cleaner chamber of the precipitator. There is | | |
| | a net gas outlet as the interface with the net gas pipe. It may also be | | |
| | possible to place the fan directly on the tank cover if it is equipped | | |
| | with an extractor fan and with suitable sound insulation and muffler, | | |
| | depending on the noise control requirements. | | |
| Gas flow tube | The displacement of the pipe is not allowed to be transferred to | | |
| | the dust remover, whether it is a dust pipe connection or a clean air | | |
| | pipe connection, otherwise the structure of the dust remover will be | | |
| | damaged. | | |
| 4.10.103 The low | ver part of the body | | |
| Bottom part | The lower part of the body is a bubbling reactor, which is used | | |
| | to filter the dust and discharge the sewage and waste to the sewage | | |
| | treatment plant through the sewage pipe at the bottom. Exhaust | | |
| | port near the inspection hole, in addition, can also be set according | | |
| | to the needs of various auxiliary ash devices. | | |
| 4.20.10 Insulation | n(keep warm) | | |
| Insulation | If the working temperature inside the precipitator and the | | |
| purposes | external ambient temperature have a greater difference, you | | |
| | need to consider the partial or overall insulation of the | | |
| | precipitator: | | |
| Insulation type | - To prevent high temperature or low temperature on the personnel | | |
| | injury; | | |

5.00 Running

5.10.100 Initial operation, no fan version

| Install all safety equipment | | |
|------------------------------|--|--|
| | | |
| | | |
| per) (not suitable for | | |
| | | |
| ressure drops can | | |
| ow, damaging the | | |
| F (| | |

20





internal components.

For this reason, the volume of treatment gas must be adjusted to the design value

Check

- Process gas volume
 - Water addition
 - Motor wiring
 - Sewage

5.20.101

Start / stop through the electronic control box(customer self)





Only authorized personnel can start and stop the precipitator (designated operator). Make sure the dust collector is started before the dust-producing machine. The duster's control system does not control other machines.

Only electrical work by a qualified electrician can take place in the duster control. Through the user-side power distribution, remote signal exchange, etc. will be included in the dust collector electrical control system of the user's collection. The user's power distribution should have the main switch. In case of emergency, you can switch off the main switch on the control box (function equivalent to emergency stop switch). At the end of each class, we recommend that you place the main power switch of the user in a "stop" position.

Do not start the wet scrubber when the safety equipment is missing.

-Open the inlet valve, control the water level to the design location

- Start the fan (if any)
- Start the dust-generating equipment
- Turn off the dust-producing equipment
- Turn off the fan
- Open the drain ball valve to drain the sewage

If it is necessary to set up a safety interlock, we recommend that you have to prepare the manual for operation.



Keep in mind that having the dust remover activated with the equipment generating the dust is to meet the requirements of the operating conditions (see chapter 1 "Technical data").

For detailed circuit diagrams and control box operation, refer to Section 8 "Circuit Diagrams / Terminal Diagrams".

For detailed circuit diagrams and control box operation, refer to Section 8 "Circuit Diagrams / Terminal Diagrams".

6.00 Maintenance and service

6.10 Inspection and maintenance intervals



Only authorized personnel may perform inspection and

maintenance work (please list the names of persons). Proposed to sign a maintenance contract!

Popoir work must strictly outborize by NED or N

Repair work must strictly authorize by NEP or NEP agents!

The recommended cycle is based on a single shift and should be adjusted as needed, for example:

- Two shifts
- Abrasive dust
- Higher temperature
- Others and so on

6.20 Trouble shooting

Reference

Recommend

Finding faults and repairs must strictly carry out by qualified and authorized specialists.

There is always a high risk of accidents when testing whether the relevant parts are good.

Faulty equipment used in potentially explosive atmospheres must be replaced and repaired by the manufacturer.

It is absolutely necessary to de-energize and de-energize the precipitator-related parts before attempting any repair.

The information below will help us advise you and help you.

- Equipment model (nameplate)
- Product Number (nameplate)
- Process gas volume

If you have trouble troubleshooting, please contact our service department. Sometimes a little suggestion may help you solve the problem. We are happy to assist you.

See chapter 1 "Technical data".

6.30.10 Remove / install dewatering board



Only authorized persons should be allowed to work on the precipitator (please list the name of the person). Get information on the dust / gas handled by the precipitator and the safety and environmental regulations to be followed, using a suitable work platform when needed.

Turn off the main switch of the precipitator and take precautions to prevent being accidentally closed.

When installing the dewatering board, be sure

- Use dewatering board without any defects

Check the filter element for any damage before installation, including



| | Is the connecting screw intact |
|--------------|---|
| Disassemble | Depending on the device model, there may be 1 to 3 rows of |
| | dewatering plates in the body. |
| | Remove the bolts on the dewatering plate cover. |
| | - Pull the dewatering plate out of the machine body and go |
| | down. |
| | - Place the dewatering plates on a suitable level for storage |
| | with a liner between them |
| Installation | Before installing each row of dewatering board, clean the inside |
| | of the device body. |
| | Installation sequence: Always install the filter elements on both |
| | sides first. |
| Examination | Before restarting the duster, check if the air plenum is leaking |
| | dust due to incorrect installation. If you need to consult the |
| | phosphor leak detection method, please contact NEP. |

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7.00 Equipment and spare parts drawings, checklists



Consumable parts list

| Produ | ct | Mode | Order number | Quantity | Valid time | |
|-----------------------|--------------------|------|---------------|----------|------------|-------|
| 171230 | | ZH-8 | | 1 | 12mo | nths |
| Type Consumable parts | | Size | | Price | | |
| S | S Dewatering plate | | 990×600×155mm | | 300USD | 1PICK |



8.00 Circuit Diagram / Terminal Diagram

9.00 Quality certification documents 插入此处或另见册。In the appendix



运行和维护手册

10.00 Original instructions for OEM parts