

SILOXA gas wash dryer for biogas, landfill gas and sewage gas, GKW model



Attributes

- Compact design, modular structure
- High availability, operational reliability, low maintenance
- Possibility of upgrading with further modules/options

Frame and base plate

- Made of square tubes, galvanised
- Dimensions according to structural requirements

Gas drying

- Packed bed scrubber, material No. 1.4571
- With packing material and support grille
- Corrosion-resistant water circulation pump
- Regulation of the water fill level via flow monitoring
- Demister
- Control of the gas and water temperature

Water cooler

- Plate heat exchanger made from stainless steel No. 1.4571
- Air-cooled condenser with speed-controlled axial flow fans
- Compact, commercially produced standard unit
- Suitable for outdoor installation and all-year operation

Condensate trap

- Automatic condensate trap with solenoid valve
- Pipe trace heating

Control cabinet

- With microprocessor for controlling automatic operation of the gas wash drying system

Cold insulation

- Vapour-diffusion-proof insulation of all system components that perform the cooling and supply the cooling agent, sheet aluminium

Factory assembly

- All components supplied ready for use, with pipework and cabling
- External interfaces

Technical documentation

- Operating instructions, installation drawing/shop drawing
- Piping and instrumentation diagram, circuit diagram, list of assemblies
- Spare parts lists and individual documentation for the installed components
- Inspection/testing reports and certificates

Available options

Version for indoor installation

- Frame made of square tubes, galvanised
- Dimensions according to structural requirements
- The system components that perform the cooling and supply the cooling agent have no aluminium sheathing

Autonomous heating water supply

- Hot water supply for gas heating, if no external heating water is available from the CHP



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Explosion-proof design

- ATEX Zone 2 design

Gas heating

- Tube bundle heat exchanger
- Heating water provided by customer/optionally autonomous

Machine container, 10 foot

- External dimensions: L x W x H
approx. 3,050 x 2,500 x 2,600 mm
- Aluminium tread plate floor
- Double door, external hinges, all-round rubber seal,
door opening 2,310 x 2,280 mm
- Primed inside and outside,
exterior painted in RAL 6005, custom colour
possible if desired subject to a surcharge
- Electrical installation: 1 light switch,
2 sockets: 230 V/16 A, 2 strip lights,
1 thermostat-controlled ventilator with axial flow fan

Assembly and commissioning

- Mounting of the system on base
constructed by the customer
- Commissioning

Compressor

- 1 centrifugal fan (multistage)
- Pressure increase 160 mbar
- V-belt drive with aluminium drive guard
- Permanently technically leakproof,
ATEX approved for Zone 2
- 1 pressure monitor on the suction side
of the compressor and 1 on the pressure side
- 1 temperature monitor on the pressure side
of the compressor

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