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Camfil Farr Gold Series GS 20 Dust Extractor



Stock Code: EB1931S

Manufacturer: Camfil Farr

Model: GS 20

Year of Manufacture: 2014

Serial: 301682

New or Used: Used (Second Hand)

Approx Duty CFM / M³/Hr : 8,800 CFM //15,000m³hr

Filter Area ft² / m²: 1968 // 600

Other Info: ATEX Rated, 22kW Roof Mounted Fan

Weight: 2722

External Dimensions (WxDxH): 2,283 x 3,293 x 4,363

Camfil Farr Gold Series 20 Cartridge Dust Extractor

The ATEX-classified Camfil APC Dust Collector is designed for collecting and filtering explosive and non-explosive dry dust.

The Gold Series® industrial dust collector rids work environments of hazardous and nuisance dust and fumes/smoke with the smallest floor space of any collector available today. Heavy-duty carbon steel construction and thermal cured powder coatings provide unparalleled strength and durability.

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Technical Detail

EX rating: II 2/3 DGX (Atex)
Maximum Temperature: 90°C
Filter Area: 600m² // 1968ft²
Filter Cartridge: PolyTech 30 m²
Filter Material: Cellulose
Operating Temperature: - 20 °C to + 40 °C
Process Air (Dry) Temperature: 0 °C to +70 °C (+90 °C depending on filter media)
Solenoids: 10 off
Environment Classes: C3 according to EN ISO 12944
Compressed Air Requirements: See page 22 (Installation & operation guide attached)
Compressed Air Connection: Minimum 1" (R25)
Protection Class: IP 65 (for Camfil APC Control System)*
Relay Voltage, Option: 24 V AC
Working Pressure: 0 kPa to - 10 kPa
Sound Power: 1", 1,5" valves. 9,2 B, 9,4 DB

Atex Equipment category 2 D/G: applicable to the interior of the product 3 D/G X: applicable to the exterior of the product Marking. EX II 2/3 D/G T2 90 °C

Definitions

m³/h

Actual m³ of gas per hour. The volume of gas flowing per hour at the operating temperature, pressure, elevation and composition.

Air-to-Cloth Ratio The ratio between air flowing through a dust collector and the m² of filter area available (m³/m² h). Sometimes referred to as the velocity (m/h) of air through the cloth.

Blinding

Blockage in a fabric or media by dust that cannot be discharged by the cleaning mechanism, resulting in a reduced gas flow and an increased pressure drop across the media. Once enough material has built up, airflow is severely restricted and the bags have to be cleaned or replaced.

Bridging

Material handling problem characterized by the particulate forming a cavity over the discharge or opening of a hopper or storage vessel. Also, the accumulation of collected dust between two or more filter elements.

Clean Air Plenum

The dust collector area, through which gases are directed, located on the clean side of the filter media.

Collection Efficiency

The measure of a dust collector's ability to remove particulate from the inlet gas, typically expressed in percent or emission rate (mg per cubic meter).

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Dew Point

The temperature at which condensation begins to form as the gas is cooled.

Differential Pressure

The change in pressure or the pressure drop across a device. The difference between static pressures measured at the inlet and outlet of a device,

Ref. Pressure Drop.

Dust Cake

A dust build-up on the filter elements that increases the efficiency of the filter media.

Diaphragm Valve

A compressed air valve operated by a solenoid valve that opens to allow a pulse to a row of filters.

Dust Loading

The weight of solid particulate suspended in an air stream, usually expressed in mg per cubic meter.

Emissions

Particulate that escapes through or around a dust collector into the atmosphere.

Negative Pressure System

A system where the fan is located after the dust collector on the clean air side, pulling air through the system.

Positive Pressure System

A system with a fan located prior to a dust collector on the dirty side, pushing air through the system.

Precoat

Material added to the air stream at start-up to aid in establishing the initial dust cake on the filter media.

Rotary Airlock Valve

Device having a star wheel (rotor) designed to provide an air tight seal between the negative or positive pressures of the collector and the outside atmosphere.

Screw Conveyor

A revolving screw operating in a fixed trough for conveying material from one point to another.

Pulse Duration (On-Time)

The length of time a pulse lasts, generally described as the length of time the electric signal holds the solenoid pilot valve open (fixed at 150m/s).

Pause Time (Off-Time)

Elapsed time between pulses in a dust collector cleaning system.

Solenoid Valve

An electromechanical plunger device that is either "normally open" or "normally closed". In use with a dust collector, it is for the relief of air pressure to activate a compressed air device such as a diaphragm valve.



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Tube Sheet

A steel plate on which the open end of the filter elements are connected. This wall separates the clean air and dirty air plenums of the dust collector.

View Camfil Farr Gold Series GS 20 Dust Extractor on our web site at
<https://www.rileysurfaceworld.co.uk/machines/30947.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.