

Specification sheet
Scheuch impulse-filter
std single row

Messrs. Siempelkamp GmbH & Co.
Maschinen- u. Anlagenbau
Siempelkampstr. 75, D-47803 Krefeld
project: A-525 Kronospan Chirk-Span
plant: 6/681 filter unit - grinding machine
referee customer: Mr. Degryse / Messrs Sicoplan

dispatch address: Kronospan Ltd, Chipboard Manuf.
Clywd LL14 5NT
GB-Chirk-Wrexham
mode of dispatch: ☒ unfree ☐ free coll dispatch advice: ☒
packing: right for lorry
mounting: ☐ Scheuch Ried ☒ by: Siempelkamp

order no customer: 12696/8 date of order: 21.03.97

referee sales: St Abw: HSAV-A1

date of sp sheet 08.04.1997

date of delivery 24/97

order no. 29483

IMPULSE-FILTER

item: 681.001 no.: 1 pcs. serial no.: F 5447/97
type: sf dw 05 / 12 - d - 10 [std]
constr. | design | no. | bags / | nominal | units
valves | cartridges | length

construction: ☒ d-bag filter ☐ p-cartridge filter
design: ☐ k-filter head ☐ b-bunker top
☐ t-hopper ☒ w-dust collecting trough + screw
☐ with units preseparating chambers ☐ Pos 2 ☐ Pos 4
dimension sheet drawing:

Operating data:

gas volume: 150.000 Am³/h operating temp: 20 °C
kind of dust: sanding dust
dust content: crude gas: g/Nm³ clean gas: 5 mg/Nm³
filter area: 1400 m² load per unit area: 107 Am³/m²h

Filter installation

☒ open air ☐ in workshop
fan: ☐ before filter (pressure plant) ☒ after filter (suction plant)

Temperature design and compressive strength

☒ 11<80°C ☐ 12<140°C ☐ 13<200°C ☐ 14<250°C [sfs hg]
☒ 50mbar 3mm ☐ 40mbar 2.5mm - spec. ☐ 40mbar 2.5mm - galvanized
☐ 80mbar 4mm ☐ 150mbar 4mm reinf. [sfs gv]
design pressure shock proof ☒ 1.3bar ☐ 1.6bar absolute

Filter bags

no. 600 pcs length: ☒ acc to filter type ☐ special mm
filler material ☒ PE 520 ☐ special [sfs]
☐ without bags (supplied by the customer)
☐

Support cages

☒ single part ☒ St 37-2 galvanized [sfs stk]
☐ 2-parts ☐ 3-parts with ☐ Alu-connecting rings ☐ wire-coupling
☐ primed <140°C ☐ powder-coated <120°C ☐ Alu-silver varnish <250°C
☐ 20 bars (for Teflon bags) ☐ special material
☐ supply without support cages (supplied by the customer)
☐ 10 bars ☐ 20 bars
☒ direct supply

Filter cartridges

☐ Ø150 ☐ Ø327 (mounting f. bottom) ord.
no. pcs length mm
filter material ☐ paper fleece ☐ special [sfs]
☐ without cartridges (supplied by the customer)
☐

Filter head

material plate parts: ☒ St 37-2 ☐ mostly galvanized (2.5mm)
☐ special (2.5mm from 4301):
for: ☐ dust exposed parts ☐ gas exposed parts
jet pipes: ☒ St 37-2 ☐ galvanized ☐ special 14571 [sfs frso]
bag bottom: ☒ St 37-2 ☐ special material
injectors: ☒ galvanized ☐ without injectors ☐ 14571 [sfs inj]
☐ powder-coated <120°C ☐ primed <140°C ord.
pilot box: ☒ heating - 230V ☐ flameproof ord.
☐ ord.

Control unit

control voltage: ☒ 220V-240V, 50-60Hz (max. 24 units)
☐ 110V-140V, 50-60Hz (max. 12 units)
☐ 24V DC (max. 6 units)
☐ ist6 for 1 unit ☐ mounted to filter head
☐ loose for mounting by customer
☐ loose for switchgear cabinet installation
continuous cleaning with cycle time sec (20-300 sec)
☒ ist10 da from 2 units onwards, incl ddmu2 transmitter
☒ supplied loose for mounting by the customer
☐ installed in supplied switchgear cabinet
☐ without casing for mounting in switchgear cabinet by the customer
☐ diff.-pressure dependant cleaning mbar
forced cleaning H min (5-50 min)
☐ continuous cleaning with cycle time
L sec (20-180 sec) H min (5-50 min)
☐ ord.

Compressed air

maintenance unit 3/4 inch (1.3 units 1/2"; 4...12 units 3/4")
setting to: 6 bar consumption: 110 Nm³/h
arrangement: ☒ Pos 2 ☐ Pos 4
☐ compressed air tank on top (only for clean gas connection pos 1 [sfs dl]
☒ sound damping for compressed air impulses [sfs sdd]
isolated valve-exhaust silencer, sound damping mats for tank cover 50mm with punched plate covering
☐ compressed air mounting switch (PEV transformer) [pn ds]
☐ ord.

Clean gas connection

☐ connection direct at filter head (up to max. 3 units)
arrangement ☐ Pos2 ☐ Pos3 ☐ Pos4
☐ round connection opening NW (max 400) DIN 24154R4
☐ rectangular connection opening NW x450 DIN 24158R4 [slz re-ab]
☐ clean gas connection cover plate on Pos 3 [slz re-ab]
(necessary for connection Pos 2 or 4)
☐

checked-sales checked-construction checked-customer date

construction tolerances for the operating valves acc. to DIN 24166
welding works DIN 8563 part3 - CS,CK

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Casing 681.001.01

material: ☒ St 37-2 ☐ plate parts mostly galvanized (2.5mm)
☐ special material (2.5mm for stainless steel)
☐ intermediate walls between [sfs zwg]
bunker top filter
Inspection opening: ☐ Pos. 2 ☐ Pos. 4 ☐ with protecting grid [sfs fg]
☐ crude gas connection height (b.c) - without baffle plate
☒ with crude gas connection for each unit ☒ 10 pcs.
☐ crude gas connection-covers pcs. [sfs rgo]
☐ sound insulation impact plate (042-5503-001-01)
rupture-disks ☒ 10 pcs. ☐ -200mbar ☐ +50mbar [sfs bs]
burst fail not inspected ☐ pcs. ☐ -50mbar ☐ +20mbar [sfs bf]
arrangement ☒ Pos. 1 ☐ Pos. 2 ☐ Pos. 4
☐ Pos. 3 (1 bag row less)

arrangement acc. to drawing (if possible opposed)
☒ 10 pcs (pos. 1-D-height) checked ord. ☒ Hs

Dust collecting hopper

material: ☐ St 37-2 (galvanized not possible)
☐ special (2.5mm for Niro)
inclination: ☐ 60° ☐ 70° [sfs i70]
inspection opening: ☐ Pos. 2 ☐ Pos. 4
outlet nozzle: ☐ 250x250 ☐ 400x250 ☐ 500x315
☐ 630x400 [sfs ast]

Dust collecting trough with screw

material: ☒ St 37-2 ☐ panels galv. trough St 37-2
☐ special (2.5mm for galv. or Niro)
inclination ☒ 60° ☐ 70° [sfs w70]
☒ both sides inclined inclined at ☐ Pos. 2 ☐ Pos. 4 [sfs ws]
☐ intermediate walls between [sfs zwv]
dust outlet nozzle ☐ 250x250 ☐ 400x250 ☐ 500x315
☐ 630x400 ☒ 2x(400x250)
arrangement ☒ Pos. 2 ☒ Pos. 4 ☐ Pos. 0 (middle)

arrangement inspection openings ☐ Pos. 1 ☐ Pos. 3 above outlet
☒ 2 pcs control opening

Screw ☒ Ø 250 ☐ Ø 300 ☐ Ø 400 [sfs sn]
☐ screw pipe standard ☐ screw pipe Ø 114(200Stg)
☒ flanged bearing <80°C ☐ spherical roller bearing w. stuffing box <250°C
☐ spherical roller bearing w. stuffing box and grease sealing f. abras. dust <250°C
☐ extension for L= mm ☐ Pos. 2 ☐ Pos. 4
☐ without middle bearing (up to max. 8 units)
☐ 2 separate screws with each 1 drive

Geared motor for screw drive

make: ☐ Scheuch-Standard ☒ special SEW
☒ with weather protection [gmae abd]
☐ 400V/50Hz design: B3 protection IP54 [gm _]
☒ special 415V/50Hz/F/IP54 ord. ☒ Hs
motor arrangement (if possible at outlet) ☒ Pos. 2 ☒ Pos. 4
☐ 0.55 KW/16rpm (at $p \approx 0.3$ l/m³) [sfs gm]
☐ 1.1 KW/19rpm (at $p \approx 0.3..1.4$ l/m³)
☒ 1.1 kW/18 rpm at
☐ motor supplied by the customer-mounting in works (price reduction) [gm aeb]
☐ motor mounted by the customer

☒ max. quantity of discharge a nozzle

100 % Δ 814 m³/h

Dust receiver

[sfs stsl]

▷ drwg-no. _____
type: _____ total height: _____ mm
dust receiver: height _____ mm no: _____
receiver-extension side ☐ Pos. 2 ☐ Pos. 4
☐

Corrosion protection

outside and inside ☐ zinc chromate primer 40 µm
☐ mostly galvanized (hopper resp. trough RAL 7035 light grey or special coat)
sand blasting SA2.5: ☐ outside ☐ inside [os _]
☒ primer coat 120 µm / top coat-RAL 1015 - 40 µm [og ad]
☐ special coat: ivory

Pre - mounting of filter

observe transporting dimensions

bags, support cages, injectors loose (danger of damage)
☒ filter head premounted (max. 7 units)
☒ casing in single parts
☐ dust collecting hopper with frame premounted
☒ dust collecting trough in single parts, trough screw premounted
☒ wiring filter-control unit by the customer (ist 10 da)
☐ casing and filter head assembled [sfs gym]
☐ filter completely assembled
☐ filter bags (cartridges) mounted (only for a-height)
☐ fan mounted acc. to drawing
☐ add. parts mounted (precise list)

☒ identification plates and signs in English

Documentation

German are delivered with hard ware (General docu).
☒ foreign language English
☒ General docu. 1. times
☐ Spare part list acc. to customer
☐ mounting instruction ☐ Special docu. acc. to customer
☒ together 1-time to Abw.

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Accessories

▷ item: **681.001.04**

Support construction

[sfz ug]

▷ bill of material no.: **912-0462-100**
☐ support tool (UH=2500mm) ☐ angle steel support ☒ IPE-support

☒ special support → drg. no.:

height support construction: **4500** mm (graduation: every 100mm)

height for dust bin: ☐ 60lt ☐ 90lt ☐ without flap ☐ with flap

installation place: ☒ outdoors ☐ indoors

corrosion protection: ☐ zinc chromate primer 40 µm

☐ top coat RAL

☒ hot-dip galvanized ☐ sand blasting SA2.5 [ov,os]

condition as delivered: ☒ in single parts ☐ mounted to filter [sfz gm]

☐

▷ item: **681.001.05**

Anchorage - support construction

▷ bill of material no.: **752-0034-002-01**
☐ anchorage with expansion sleeve ball ☐ M20/25/175

☒ anchorage with adhesive anchor ball ☒ M20/220

☐ anchorage with J-bolt ☐ M20

☐ counter-welding plates l=25mm ☐ M20x45 8.8

no. of columns: **8** pcs

bolts per column: **4** pcs

☐ special anchorage → drg. no.:

▷ item: **681.001.06**

Attendance stage, rail a ladder

[sfz wb]

▷ bill of material **753-0127-326-01**
☒ Attendance stage, rail WITH ladder ☒ Pos2 ☐ Pos4

☐ Attendance stage, rail WITHOUT ladder connection (closed rail)

☐ Ladder (for closed rail) ▷ bill of material

☐ rail and ladder for compressed air tank on top

☐ stage extension ☐ Pos2 ☐ Pos4

☒ rungs safe ☒ safety barrier at exit hatch [sfz wb]

☐ special construction → drg. no.: **751-0272-001-01**
☐ L= 10975

corrosion protection ☐ zinc chromate primer 40 µm

☐ top coat RAL

☒ hot-dip galvanized ☐ sand blasting SA2.5 [ov,os]

condition for delivering: ☒ in single parts [sfz gm]

☐ rail mounted on filter, ladder loose

☐

▷ item: **681.001.07**

Clean gas channel

[sfz rek]

☒ clean gas channel for **10** units size **1125 x 1600**
☒ material and design like filter ☐ special

connection frame arrangement ☐ Pos2 ☒ Pos4 ☐ special

☐ sound insulated

☐
☐ exhaust cowl for units

galvanized with protective grid, sound insulated [sfz abh]

corrosion protection ☐ like filter ☐ special

▷ item:

Dry extinguishing line

[sfs ill]

c-connecting coupling 1m above step height ☒ Pos2 ☐ Pos4

1 = 8000mm

▷ item:

Rotation monitoring screw built-on

☐ make standard pcs. ☐ special ord.

☐ rotation monitoring complete [mr elf-ig-üb]

or in single parts:

☐ impulse sending ring ☐ console only for proximity switch [mr ipg]

☐ proximity switch with console 10 - 55 VDC [mr eff]

☐ monitoring unit ☐ 230V, 50 Hz ☐ 24 VDC [mr üb]

☐ delivered loose

☐ installed in delivered switch gear cabinet **24VDC M30x1,5**
☒ **2 pcs Telemecanique XSAV11373/ ord. H.S.**
☒ impulse machine ring, console a. cover

▷ item:

Insulation see catalogue part 5

filter head cover-insulation in workshop [sfs isk]

inside ☐ design A (cover 50mm, upper part 80, compressed air unit 50mm)

outside ☐ design C (cover 100mm, upper part 80, compressed air unit 50mm)

☐ design D (cover 100mm, upper part 130)

design C+D cover can only be lifted with crane, housing necessary

☐

other areas

thickness mm

insulation by: ☐ Scheuch ☐ customer [isgeh]

☐ casing ☐ hopper ☐ trough ☐ filter head lateral ☐ clean gas channel

covering: ☐ alu-sheet ☐ galvanized sheet thickness: ☐ 1mm

mounting place: ☐ at site ☐ in workshop

☐ ord.

▷ item:

Auxiliary heating for trough resp. hopper

ord.

capacity: kW voltage: 230V thermostal setting: °C

height: ☐ half height ☐ total height m² heating area

arrangement terminal box: acc. to drawing no.:

☐

▷ item:

Filter head housing

[te]

☐ housing with attendance stage

☐ housing for compressed air tank on top

☐ housing for compressed air tank on top, double row

specification sent to at

drg.-on:

arrangement door ☐ Pos2 ☐ Pos4

☐ crane rail inside

☐ crane rail 2m projecting ☐ Pos2 ☐ Pos4 [sfz hkr]

☐ door element for crane rail passage [sokab]

☐ trolley with lifting device mechanically operated (load capacity 250kg) [sfz fh]

☐ trapezium plate covering in colour RAL

drainage gutter: ☐ Pos2 ☐ Pos4

corrosion protection steelstructure ☐ like support ☐ special

☐