

Specification sheet
Scheuch Impulse-filter
sf dw single row

Messrs. **Siempelkamp GmbH & Co**
Masch-u. Anlagenbau, Siempelkampstr.
D-47803 Krefeld
project: **A-540 Chirk MDF II**
plant: **423/filter plant for plant 419 and**
referee customer: **422**

dispatch address: **Kronospan Ltd.**
75 Clywd LL14 5NT
GB-Chirk Wrexham/Wales
mode of dispatch: ☒ unfree ☐ free collect ☐ dispatch advice: ☒
packing: **adaped for Truck**
mounting: ☒ Scheuch Ried ☐ by:

order no. customer: date of order:	referee	date of sp. sheet	date of delivery	order no
14372/8 4.2.98	sales: st Abw. ri AV. al	7.2.98	4.5.98	33093

IMPULSE-FILTER

item: **423-01** no.: **1** pcs. > serial no.: **F5976/98**
type: **sf dw .05/ 12 - d - 10** [sf d]
constr. | design | no. | bags | nominal | units
valves | cartridges | length | per row

construction: ☒ d-bag filter ☐ p-cartridge filter
design: ☐ k-filter head ☐ b-bunker top
☐ i-hopper ☒ w-dust collecting trough + screw
☐ with units preseparating chambers ☐ Pos 2 ☐ Pos 4
dimension sheet: **311-0004-938 b** > drawing:

Operating data:

gas volume: **147 300** Am³/h operating temp: **20** °C
kind of dust: **MDF-fibre dust after cyclone precipitator**
dust content: crude gas: **5** g/Nm³ clean gas: **5** mg/Nm³
filter area: **1400** m² load per unit area: **105** 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 ☒ 160 ord. ☐
no. **600** pcs length: ☒ acc. to filter type ☐ special **mm**
filter material ☐ PE 520 ☒ special **PE 550** [sfs]
☐ without bags (supplied by the customer)

Support cages ord. ☐
☒ single part ☒ St 37-2 galvanized [sfs slk]
☐ 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

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

Filter head item: 423-01.01

material plate parts: ☒ St 37-2 ☐ mostly galvanized (2.5mm)
☐ special (2.5mm from 430):
for: ☐ dust exposed parts ☐ gas exposed parts
jet pipes: ☐ St 37-2 ☒ galvanized ☐ special 14571 [sfs lrs]
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 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 **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]
(standard valve-exhaust silencer, sound damping valve 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**
[sfs re-asl]
☐ clean gas connection cover plate on Pos 3 [sfs 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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Messrs. **Siempelkamp**

project: **A-540 Chirk MDF II**

order no
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Casing

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 lg]
☐ crude gas connection height (b.c) - without baffle plate
☒ with crude gas connection for each unit ☒ 10 pcs. (8xHigh,
☒ crude gas connection-covers 2 pcs. 2xChigh)
☐ sound insulation impact plate
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 (B-high)
arrangement acc. to drawing (if possible opposed)
☒ see scatch ord. ☐

Dust collecting hopper

material ☐ St 37-2 (galvanized not possible)
☐ special (2.5mm for Niro)
inclination: ☐ 60° ☐ 70° [sfs l70]
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]
☒ bothsides inclined inclined at ☐ Pos.2 ☐ Pos.4 [sfs ws]
☐ intermediate walls between [sfs zwg]
dust outlet nozzle ☐ 250x250 ☒ 400x250 ☐ 500x315
☐ 630x400
arrangement ☒ Pos.2 ☐ Pos.4 ☐ Pos.0 (middle)
arrangement inspection openings ☐ Pos.1 ☒ Pos.3 above outlet
☒ additional inspection door, item 3 for
Screw ☐ 250 ☒ 300 ☐ 400 unit 6
☐ screw pipe standard ☒ screw pipe ☒ 193/Stg250
☒ 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
☒ screw with broach rubber ord. ☐
Geared motor for screw drive ☒ 1 pcs. ☐ 2 pcs
make: ☒ Scheuch-Standard ☐ special **SEW**
☒ with weather protection [gmae abd]
☐ 400V/50Hz design: B3 protection IP54 [gm _]
☒ special **415V/50Hz** ord. ☐
motor arrangement (if possible at outlet) ☒ Pos.2 ☐ Pos.4
☐ 0.55 KW/16rpm (at $p \leq 0.3 \text{ l/m}^3$) [sfs gm]
☐ 1.1 KW/19rpm (at $p = 0.3, 1.4 \text{ l/m}^3$)
☒ 1.1 kW/ 10 rpm at Typ: R83 DT 90 S4
☐ motor supplied by the customer-mounting in works (price reduction) [gm oeb]
☐ motor mounted by the customer
max. discharge capacity: 6,2m³/h bei 100%

Dust receiver

[sfs stsl]
drwg-no.
type: total height: mm
dust receiver: height mm no:
receiver-extension side: ☐ Pos2 ☐ Pos4
☐

Corrosion protection

outside ☒ zinc chromate primer 120mp
☐ mostly galvanized (hopper resp. trough RAL 7035 light grey or special coat)
sand blasting SA2.5: ☐ outside ☐ inside [os]
☐ primer coat μm / top coat-RAL - μm [og od]
☒ special coat: **RAL 1015 (light ivory)-40mp outside**
☒ prime inside 40mp
☒ safety guard RAL 1021 (yellow)

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 (ist10 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)
☐

Documentation

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

$\Delta = 200\text{kg} \rightarrow 1240\text{kg/h}$

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Messrs: Siempelkamp

project: A-540 Chirk MDF II

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Accessories

▷ item: 423-01.04

Support construction

[sfz ug]

▷ bill of material no.: 752-1209-438-01

☐ support foot (UH=2500mm) ☐ angle steel support ☒ IPE-support

☐ special support → drg. no.:

height support construction 3800 mm (graduation: every 100mm)

height for dust bin: ☐ 600 ☐ 900 ☐ 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,ps]

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

☐

▷ item: 423-01.05

Anchorage - support construction

▷ bill of material no.: 752-0035-003-01

☐ anchorage with expansion sleeve bolt ☐ M20/25/175

☐ anchorage with adhesive anchor bolt ☐ M20/220

☐ anchorage with J-bolt ☐ M20

☒ counter-welding plates l=25mm ☐ M20x45 8.8 ☒ M24x45 8.8

no. of columns: 6 pcs

bolts per column: 2 pcs

☐ special anchorage → drg. no.:

▷ item: 423-01.06

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

☐ Ladder=1030mm 753-0039-210-01

corrosion protection ☐ zinc chromate primer 40 µm

☐ top coat RAL

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

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

☐ rail mounted on filter, ladder loose

☐

▷ item: 423-01.07

Clean gas channel

[sfz rek]

☐ clean gas channel for units size x

☐ material and design like filter ☐ special

connection frame arrangement ☐ Pos2 ☐ Pos4 ☐ special

☐ sound insulated

☐
☒ exhaust cowl for 10 units

galvanized with protective grid, sound insulated [sfz abh]

corrosion protection ☒ like filter ☐ special

▷ item:

Dry extinguishing line

[sfs III]

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

l=7500mm

▷ item:

complete mounted

Rotation monitoring screw

☐ make standard pcs. ☐ special ord.

☒ rotation monitoring complete [nr eff-ig-üb]

or in single parts:

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

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

☐ monitoring unit ☐ 230V, 50 Hz ☐ 24 VDC [nr übw]

☐ delivered loose

☐ installed in delivered switch gear cabinet

serial: telemecanique, type: XSA-V11373/24

VDC

▷ 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+B 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 thermostat setting: °C

height: ☐ half height ☐ total height m² heating area

arrangement terminal box: acc. to drawing no.:

☐

▷ item:

Filter head housing

[fe]

☐ 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 [sfkz hkr]

☐ door element for crane rail passage [sdkab]

☐ trolley with lifting device mechanically operated load capacity 250kg [sfkz hh]

☐ trapezium plate covering in colour RAL

drainage gutter: ☐ Pos2 ☐ Pos4

corrosion protection steelstructure: ☐ like support ☐ special

☐