

Specification sheet  
Scheuch Impulse-filter  
sf dw single row

Tel.: +43/7752/905-0, Fax: 37

A-4910 Ried LL Am Bugfried 14

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parts ordered by reference

special design observe additional price and longer delivery periods

standard design

has to be filled in by AV

Messrs. **Siempelkamp GmbH & Co**  
**Masch-u. Anlagenbau, Siempelkampstr.**  
**D-47803 Krefeld**  
project: **A-540 Chirk MDF II**  
plant: **491/filter plant for plant 490**  
referee customer

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

order no. customer: 14372/8	date of order: 4.2.98	referee sales: st. Abw. ri. AV. al	date of sp. sheet: 18.2.98	date of delivery: 4.5.98	order no. 33093
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## IMPULSE-FILTER

item: **491-01** no.: **1** pcs. serial no.: **F 5975/98**  
type: **sf dw .05/ 12 - d - .03** [ sf d ]  
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: **311-0004-938 b** drawing:

## Operating data:

gas volume: **45 700** Am<sup>3</sup>/h operating temp: **20** °C  
kind of dust: **MDF saw granule and dust**  
dust content: crude gas: **—** g/Nm<sup>3</sup> clean gas: **5** mg/Nm<sup>3</sup>  
filter area: **420** m<sup>2</sup> load per unit area: **109** Am<sup>3</sup>/m<sup>2</sup>h

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 [ sf ts tg ]  
☒ 50mbar 3mm ☐ 40mbar 2.5mm - spec. ☐ 40mbar 2.5mm - galvanized  
☐ 80mbar 4mm ☐ 150mbar 4mm reinf. [ sf ts gv ]  
design pressure shock proof ☒ 1.3bar ☐ 1.6bar absolute

Filter bags **ø160** ord. ☐  
no. **180** pcs length: ☒ acc. to filter type ☐ special [ sf ts ]  
filter material ☒ PE 520 ☐ special [ sf ts ]  
☐ without bags (supplied by the customer)

Support cages ord. ☐  
☒ single part ☒ St 37-2 galvanized [ sf ts 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

Filter cartridges ord. ☐  
☐ ø150 ☐ ø227 (mounting f. bottom)  
no. pcs length: ☒ acc. to filter type ☐ special [ sf ts ]  
filter material ☐ paper fleece ☐ special [ sf ts ]  
☐ without cartridges (supplied by the customer)

## Filter head 491-01.01

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 1.4571 [ sf ts trso ]  
bag bottom: ☒ St 37-2 ☐ special material  
injectors: ☒ galvanized ☐ without injectors ☐ 1.4571 [ sf ts 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-120V, 50-60Hz (max. 12 units)  
☐ 24V DC (max. 6 units)  
☐ is16 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)  
☒ is110 m from 2 units onwards, incl. ddm2 transmitter  
☒ supplied loose for mounting by the customer  
☐ installed in supplied switchgear cabinet  
☐ without tasing 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. 2 min (5-50 min)  
☐ ord. ☐

## Compressed air

maintenance unit **B/4** inch (1.3 units 1/2"; 4.12 units 3/4")  
setting to: **6** bar consumption: **33** Nm<sup>3</sup>/h  
arrangement: ☒ Pos 2 ☐ Pos 4  
☐ compressed air tank on top for clean gas connection pos 1 [ sf ts dl ]  
☒ sound damping for compressed air impulses [ sf ts sdd ]  
~~Isolated valve-exhaust silencer, sound damping valve for tank, sound damping valve for filter~~  
☐ 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 [ sf ts re-asl ]  
☐ clean gas connection cover plate on Pos 3 [ sf ts 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  
**33093**

## 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 fg ]  
☐ crude gas connection height (b.c) - without baffle plate  
☒ with crude gas connection for each unit ☒ 3 pcs.  
☐ crude gas connection-covers pcs. [ sfs rgo ]  
☐ sound insulation impact plate  
rupture-disks ☒ 4 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) **3xC high, 1x B**  
☒ see scatch high

## 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 ]  
☐ bothsides inclined inclined at ☐ Pos.2 ☐ Pos.4 [ sfs ws ]  
☐ intermediate walls between [ sfs zw ]  
dust outlet nozzle ☐ 250x250 ☒ 400x250 ☐ 500x315  
☐ 630x400  
arrangement ☐ Pos.2 ☐ Pos.4 ☒ Pos.0 (middle)  
arrangement inspection openings ☒ Pos.1 ☐ Pos.3 above outlet  
☐

## Screw

☒  $\phi$  250 ☐  $\phi$  300 ☐  $\phi$  400 [ sfs sn ]  
☐ screw pipe standard ☒ screw pipe  $\phi$  114/Stg 200  
☒ 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.  $\diamond$

## 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.  $\diamond$   
motor arrangement (if possible at outlet) ☒ Pos.2 ☐ Pos.4  
☐ 0.55 KW/16rpm (at  $\rho \leq 0.3$  t/m<sup>3</sup>) [ sfs gm ]  
☐ 1.1 KW/19rpm (at  $\rho = 0.3$  1.4 t/m<sup>3</sup>)  
☒ 1.1 kW/ 10 rpm at Typ: **R83 DT 90 S4**  
☐ motor supplied by the customer-mounting in works (price reduction) [ gm aeb ]  
☐ motor mounted by the customer  
max. discharge capacity: **9,33m<sup>3</sup>/h to 100m<sup>3</sup>/h = 150kg  $\rightarrow$  1400kg/h**

## Dust receiver

[ sfs stsl ]

☐ drwg-no  
type: total height: mm  
dust receiver: height mm DO:  
receiver-extension side: ☐ Pos2 ☐ Pos4  
☐

## Corrosion protection

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

## Pre - mounting of filter

observe transporling 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 do)  
☐ 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  
☐

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## Accessories

▷ item: **491-01.04**

### Support construction

[ sfz ug ]

▷ bill of material no.: **752-1203-440-01**
☐ support foot (UH<2500mm) ☐ angle steel support ☒ IPE-support

☐ special support → drg. no.:

height support construction: **4000** 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:

### Dry extinguishing line

[ sfs III ]

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

▷ item:

### complete mounted

### Rotation monitoring screw

☐ make standard ..... pcs. ☐ special ..... ord. ☐
☒ rotation monitoring complete [ nr ell-pg-ubw ]

or in single parts:

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

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

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

☐ delivered loose

☐ installed in delivered switch-gear cabinet

serial: **telemecanique, type: XSA-V11373/24**

VDC

▷ item: **491-01.05**

### Anchorage - support construction

▷ bill of material no.: **752-0035-001-01**
☐ anchorage with expansion sleeve ball ☐ M20/25/175 ☐
☐ anchorage with adhesive anchor ball ☐ M20/220 ☐
☐ anchorage with J-ball ☐ M20 ☐
☒ counter-welding plates l=25mm ☒ M20x45 8.8 ☐

no. of columns: **4** pcs

bolts per column: **2** pcs

☐ special anchorage → drg. no.:

▷ item: **491-01.06**

### Attendance stage, rail a. ladder

[ sfz wb ]

▷ bill of material **753-0127-319-01**
☒ 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 10500mm **753-0039-210-01**

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: **491-01.07**

### 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 **3** units

galvanized with protective grid, sound insulated [ sfz abh ]

corrosion protection ☒ like filter ☐ special .....

▷ 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 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 [ sfz hkr ]

☐ door element for crane rail passage [ sdbob ]

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

☐ trapezium plate covering in colour RAL

drainage gutter. ☐ Pos2 ☐ Pos4

corrosion protection steelstructure ☐ like support ☐ special

☐