

USER MANUAL



HG ENVIRONMENTAL DRUM SYSTEM

HG

2014–20XX Model

IMPROVING YOUR FUR BUSINESS

HG ENVIRONMENTAL DRUM SYSTEM

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1 Safety regulations

1.1 Read the manual

People who are to work with the system must read the manual carefully and receive training in its functions before starting to work with it. If operators are ignorant of certain details, they may be at risk of physical injury when operating the system.

The word **WARNING!** next to a text in the manual indicates that failure to follow the instructions may result in personal injury.

Explanation of pictograms

WARNING! High voltage



The electrical cabinet (and the operating panel) of the system contains a number of components that carry live current.

Before opening the electrical cabinet, make sure to disconnect the power supply and secure it to prevent anyone unintentionally reconnecting power to the system.

WARNING! Ear protectors compulsory



Both the operator and any people in the immediate vicinity of the system must wear ear protectors as the noise level exceeds the normally permitted level.

WARNING! Rotating parts



The system contains rotating drums. Make sure not to wear loose-fitting clothes that may become entangled in the rotating parts.

Any and all forms of cleaning and service must only be performed when the system has been disconnected from its power supply.

1.2 Use

- ◆ The system must only be used for the industrial drum processing of mink skins with the purpose of removing fat and sawdust from the hair side before the skins are pinned and dried.
- ◆ Operators must be over 18 years of age, in good health with normal mobility and physical attributes.

1.3 Training

- ◆ Before starting to work with the system, operators must read the instructions in this manual carefully and familiarise themselves with the correct operating procedure – in consultation with an experienced instructor, if appropriate.
- ◆ These instructions should emphasise:
 - 1) The need to be careful, thorough and focused when working with the system.
 - 2) The need to ensure that the operator maintains a good overview of the area around the system.
- ◆ The operator is responsible for any and all accidents and/or dangerous situations that may arise in respect to other people.

The most common causes of accidents are:

- 1) Lack of concentration.
- 2) Operators who are insufficiently familiar with the machine.

1.4 Positioning, spatial requirements, etc.

- ◆ The system must be positioned indoors on a flat, solid surface.
- ◆ There must be at least 70 cm of free space around all operating areas.
- ◆ Operation is performed within normal reach from the insertion tube and the skin cabinet.
- ◆ The lighting level must be at least 300 lux in all places where work is being done on or with the system.
- ◆ The area around the system must be kept neat and tidy to prevent accidents involving tripping and falling.

- ◆ Cables and hoses connected to the system must be laid out so that they do not constitute a risk – away from walking areas, above head height or in appropriate cable trays on the floor, for example.

1.5 Preparation

- ◆ When operating the system, do not wear loose-fitting clothing and do not let your hair hang loose if it is long. The reason for this is to eliminate the risk of your hair or clothes being sucked into the system or becoming entangled in the system's rotating parts. In addition, make sure to wear footwear with a firmly gripping sole to prevent the risk of slipping.
- ◆ Always keep grease, oil and other such materials for maintaining the system in holders approved for the purpose. Store these materials out of reach of children and non-authorised persons.

1.6 Noise level

- ◆ The operator and any other people in the immediate vicinity of the system must wear ear protectors while skins are being inserted, as the noise this generates exceeds the normally permissible level.

1.7 Maintenance

Inspect the system every day to check for visible faults and defects. For example, skins may become lodged in the drums or in the sawdust system.

Visually inspect the system to check:

- ◆ That there are no leaks in the compressed air systems (hoses, etc.).
- ◆ That all bolts, nuts, etc. are securely tightened.
- ◆ That all filters are correctly positioned and seated.
- ◆ That all drive belts are sufficiently tensioned.

The manual describes how the system should otherwise be maintained.

1.8 Dismantling/Disposal

When the time comes to dispose of the system, contact your local dealer to ensure that it is dismantled and disposed of in the most environmentally appropriate manner.

2 Transport and manoeuvring

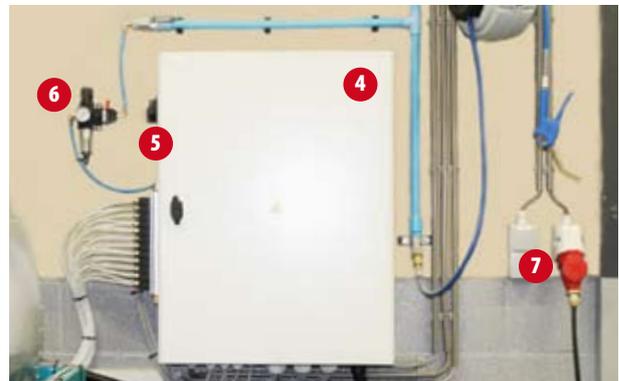
Use a pallet truck to transport the component parts of the system. The frames on these parts are fitted with profiles at the bottom to facilitate lifting.

WARNING! Do not attempt to move the component parts of the system with equipment that is not suited to the purpose.

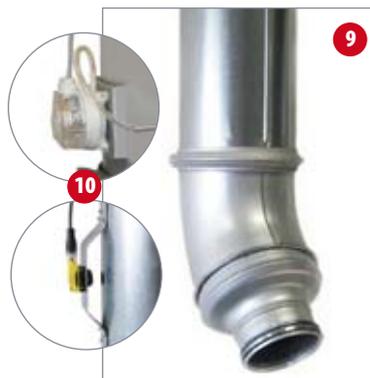


The filter unit features lifting points on its top corners to allow it to be moved using a crane.

3 The system's functional units



- 1 Filter unit
- 2 Drums
- 3 Drive station
- 4 Electrical cabinet
- 5 Main switch
- 6 Air supply connection
- 7 Electric power connection
- 8 Skin cabinet
- 9 Insertion tube for skins
- 10 Skin counter (two models)
- 11 Operating panel with touch display



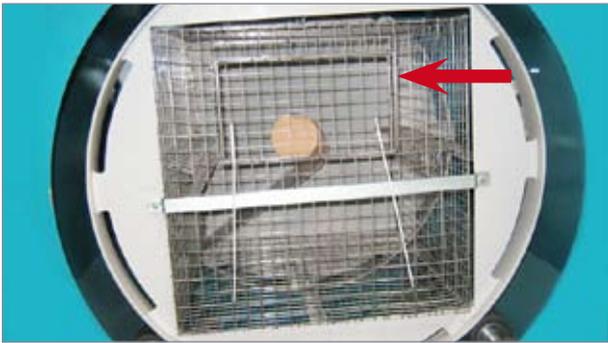
3.1 Filter unit



To open the doors, turn the handles counter-clockwise.

- 1) Access to net drum
- 2) Access to filters
- 3) Access to sawdust transport

3.1.1 Access to the net drum



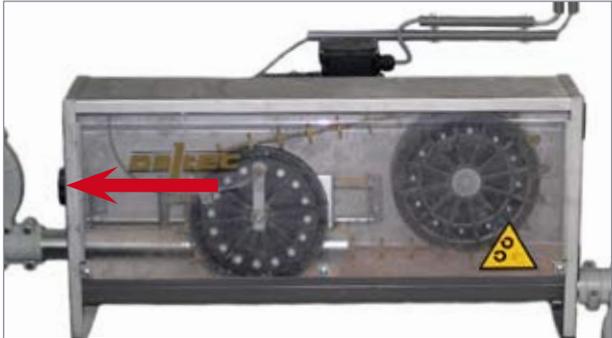
If you need to remove skins or other objects from the net drum, open the spring-loaded door.

3.2 Access to skin drums



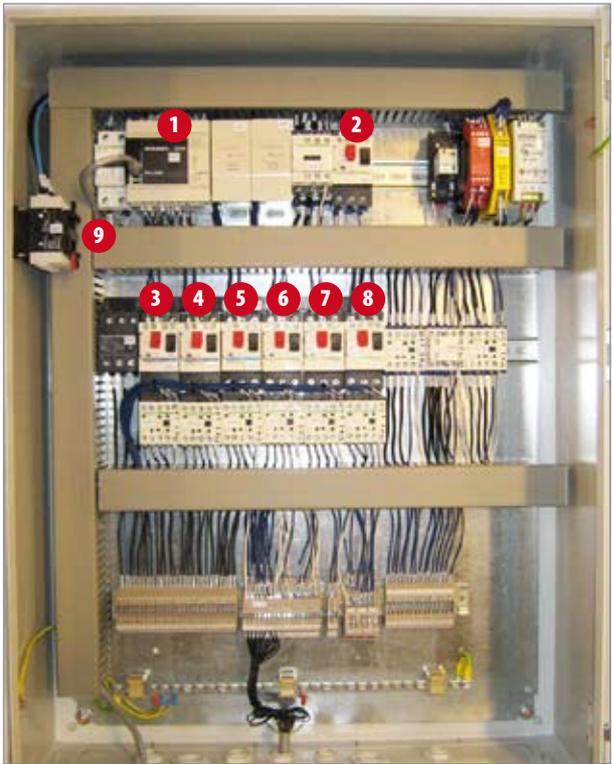
To access the large drums, start by lifting the safety bar up over the drum – this also secures the system against unintentional start-up. Then open the locks at the base of the door, after which the door can be opened. Make sure to secure the door against falling shut before reaching into the drum. When the door is correctly locked and the safety bar is in place once more, the emergency stop can be reset and the system started.

3.3 Drive stations



The system is fitted with two drive stations for transporting new and used sawdust, respectively. Each drive station features a wire-tensioner, which ensures constant pressure on the drive wheel. If the wire needs tightening, turn the handle clockwise.

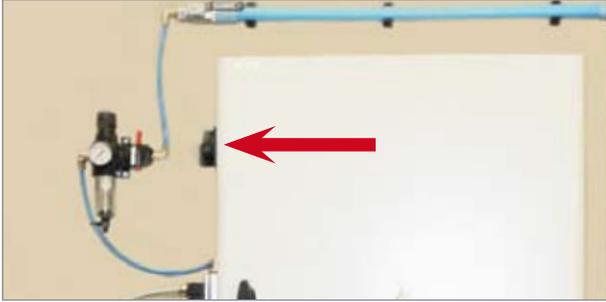
3.4 Electrical cabinet



- 1 Automatic fuse for PLC, control current and lights
- 2 Motor protection for fan
- 3 Motor protection for skin drum 1
- 4 Motor protection for skin drum 2
- 5 Motor protection for skin drum 3
- 6 Motor protection for net drum
- 7 Motor protection for drive station, used sawdust
- 8 Motor protection for drive station, new sawdust
- 9 Main switch

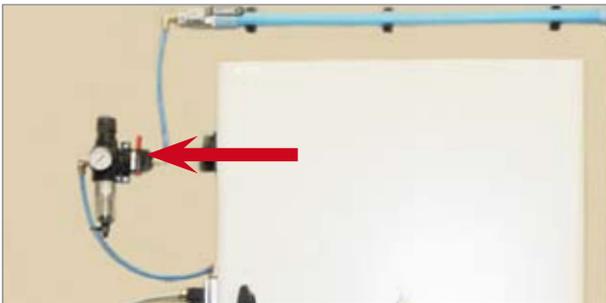
FUNCTION

3.5 Main switch



The main switch is located on the left-hand side of the electrical cabinet. When it is set to <OFF>, there is no power connected to the system. Turn it <ON> when you want to operate the system. You must make sure to lock the main switch in the <OFF> position when performing repairs or maintenance on the system.

3.6 Air supply connection



Position this connection in the most appropriate place. The system requires compressor pressure of at least 7 bar. Use a type Cejn 320 quick release coupling to connect the air supply. **NB:** Make sure that the air is free from water, dirt and rust particles from old pipes to prevent interruptions to the drum process.

3.7 Electric power connection



The system is to be connected to a 3 x 400 volt power supply with neutral (N) and earth (PE) conductors, and protected with a min. 32 A, category C fuse. Connect the system to the power supply with a CEE plug or a supply separator, so that it is easy to disconnect the power for maintenance procedures and repairs.

WARNING! Do not leave air hoses and electricity cables lying unsecured on the floor, as this constitutes a risk of physical injury.

3.8 Access to the skin cabinet



After drum processing, the skins are transferred via the pipe system to the skin cabinet, which is located in the pinning room. When all skins have been delivered and the suction discontinues, the door can be opened using the handles on the sides. After allowing all the skins to fall out, close the door again, and the cabinet is ready for the next cycle. If the system features two skin cabinets, male and female skins will be distributed to separate cabinets. The height of the cabinet can be adjusted.

3.9 Insertion tube for skins



In order to optimise skin insertion, fit the reduction section (enclosed) to the tube. Remove this unit once all skins have been inserted. This reduces resistance in the system.

3.10 Skin counter



The skin counter is fitted to the insertion tube. Two models are available:

- 1 One with an electronic photocell that registers each skin as it passes. Make sure to keep the lens and the photocell free from dust. There is a scale on the back for adjusting the sensitivity.
- 2 One with a vacuum switch, which registers changes in the level of suction every time a skin is inserted. The unit is fitted with a scale for adjusting its sensitivity.

3.11 Operating panel with touch display



The operating panel features the following functions:

- 1 Touch display
- 2 Start transport of new sawdust
- 3 Add sawdust to drums
- 4 Refill skins
- 5 Switch between male and female
- 6 Reset emergency stop
- 7 Emergency stop

The panel is supplied with a long cable so that it can be positioned in the most appropriate place.

4 Operating the touch display

4.1 Main menu



- 1 Operation
- 2 Settings
- 3 Technical
- 4 Choose language

You can use the touch display to adjust the machine settings to match your preferences.

Simply touch the icon for the menu you wish to access. Then touch the individual headers in the program to change the values displayed. This will call up a numerical keypad that you can use to enter the relevant value. Press <Enter> to save the new value or press <ESC> to exit the menu without saving the change.

4.2 Operation menu



The icons in the bottom of the screen (4-9) are the same on almost all displays.

- 1 Units in the system
- 2 Description of current process
- 3 Remaining amount of skins or time for the ongoing process
- 4 Return to main menu (home)
- 5 Return to previous page
- 6 System status: started/stopped
- 7 Start the system
- 8 Stop the system
- 9 Reset the system

Start button

The start button starts up the system. It can also be used to skip a skin loading step. This function is used if the system has to be restarted while there are still skins in the drums.

Stop button

The stop button stops the system. If you press <Stop> while a cycle is running, you can restart from the same point of the cycle.

Reset button

Press <Reset> when you need to reset an alarm. When you then press <Start>, the cycle will restart from the same point.

If you keep the <Reset> button depressed for 5 seconds, you will reset all the counters and can then start the system from the beginning of a cycle.

4.3 The Settings menu



- 1 Drum settings
- 2 General settings
- 3 Counters

4.3.1 Drum settings



Use this menu to set the processing and emptying times for the individual drums.

4.3.2 General settings



- 1 Use this menu to select the number of drums you wish to work with.
- 2 You can switch the <Refill> function on or off, depending on whether you want to use continuous processing or individual cycles.
- 3 Here, you can choose whether used sawdust is to be transported constantly – where the wire runs all the time – or at intervals, where the wire only runs when the system is cleaning the net drum.

4.3.3 Counters



- 1 Use this field to enter the number of skins you wish to process in the drum per load cycle. The skin counter by the insertion tube registers when the number has been reached, and the button for switching between males and females lights up.
- 2 Here, you can see the number of male and female skins processed per drum, as well as the total number of skins. Press <Reset> to reset the figure in the left-hand column of the menu. The right-hand column displays the total number of skins processed throughout the service life of the system. (Cannot be reset).

TOUCH DISPLAY

4.4 Technical menu



- 1 Manuel functions
- 2 Sawdust settings
- 3 Input/output list

4.4.1 Manual functions



When the machine is in <Stop> status, you can run a variety of automatic functions manually. To start with, press <Stop> on the operating panel and access the menu.

Then press the green circle next to the function you require.

You can use the 'arrow forward' button (2) to switch between the two screens for manual functions.

4.4.2 Sawdust settings



- 1 Shows the tach signal from the drive station for used sawdust when the station is operating.
- 2 Here, you can set the minimum number for the tach signal to trigger the alarm. In other words, if the current tach signal falls below this value, the system will stop and send an error report.
- 3-4 Display the same information as 1–2, but from the drive station for new sawdust.
- 5 Use this field to set the number of seconds the sawdust system is to run, from the time it is started until the 'Full sensor' is activated.
- 6 Use this field to set the number of seconds the 'Full sensor' is to have been activated before the system stops loading sawdust.

4.4.3 Input/output menu



Use this screen to monitor the system's computer and see the inputs and outputs running to and from the machine. The screenshot above shows inputs. The colour of the circle (1) indicates whether the function is active or passive. Green: ON / White: OFF

Use the arrow in the bottom right-hand corner (2) to switch between the menu screens.



The two other screens in the menu show which output functions are active.



5 Alarms

The system is fitted with seven sensors that can stop operation if they do not receive a 'clear' signal.

If you have attempted to activate a function for more than three seconds without anything happening, an alarm will appear in the touch display.

If you rectify the error and the sensor still fails to provide a "clear" signal, you may need to adjust or even replace the sensor.

5.1 Emergency stop / safety switches



The system's emergency stop or one of the safety switches has been activated.

The emergency stop button is located on the operating panel. Turn the button clockwise to deactivate it. Then press <Reset Emergency Stop>.

There are safety switches on the drum safety bars and on the door to the net drum. Check that the bars are in position and that the door is closed. Then press <Reset Emergency Stop>.



5.2 Thermal overload, motors



One of the system motors has overloaded. It may be the motor for one of the four drums, for the fan or for one of the drive stations (sawdust).

Check for mechanical faults in the motors.

WARNING! The motor protection units are located in the electrical cabinet. Make sure to disconnect the power connection before you open the cabinet. If a red button is "in", then the motor has cut out. Press the black button in if the motor protection switch has cut out.



5.3 Drum can't find the sensor



This error may affect any of the three drums. The alarm message will state whether it refers to drum 1, 2 or 3.

If this error message appears, it may be because the sensor is defective or because it is positioned incorrectly. To check that the sensor is working, hold a piece of metal in front of it. If the sensor has slipped, you can adjust it to bring it closer to the drum plate.

Follow the instructions in Step 5.6 below once the error has been rectified.

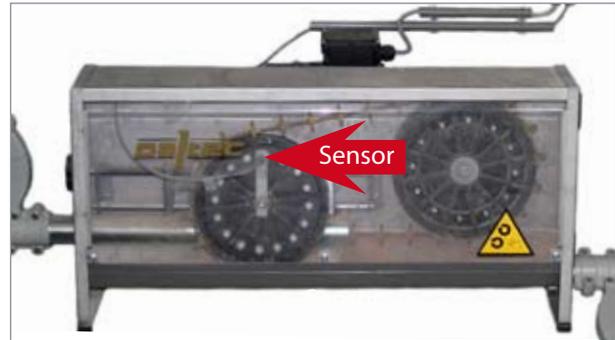
5.4 Tacho error, drum

This error may affect any of the three drums. The alarm message will state whether it refers to drum 1, 2 or 3.

The sensor checks whether the drum is rotating. If it is not activated, this may be because the sensor is defective, because it is positioned too far from the drum plate, or because the drive belt is worn.

Follow the instructions in Step 5.6 below once the error has been rectified.

5.5 Tacho error, sawdust



This error may affect either of the two drive stations. The alarm message will state whether it refers to the drive station for new or used sawdust.

The wheels in the drive stations are monitored by a sensor that emits signals at regular intervals. If it does not, this may be because the wire has broken, is too loose, or has become stuck. Check whether this is the case.

You can use the touch display to adjust the number of signals from the sensor per minute. If the figure is too high, the system may trigger the <Tacho error, sawdust> alarm simply because the wire is filled with sawdust and therefore operating more slowly.

Follow the instructions in Step 5.6 below once the error has been rectified.

5.6 Restart after alarm

When the system has been stopped on account of an alarm, it can be restarted from the point in the cycle it has reached.

Start by rectifying the error. Then go to the touch display, press <Reset> briefly, followed by <Start>. This will recommence the drum cycle.

Pressing <Reset> briefly (i.e. for less than 5 seconds) will reset the alarms, while pressing it for longer (i.e. for more than 5 seconds) will reset all counters and sequences.

6 Set-up and connection

HG recommends that you commission one of the company's trained fitters to set up the system. This will ensure optimal flow and process conditions for you.



6.1 Set-up

Position the system indoors on a level, solid floor, with at least 70 cm of free space in the area where work is done using the system. The ceiling height is to be at least 230 cm.

Position the system and connect it up according to individual preferences and space conditions. Place the units as close to each other as possible to minimise vacuum loss.

Position the insertion tube as close as possible to the scraping area, and place the skin cabinet in the pinning room, because this will allow the system to deal with the transport logistics as well.

6.2 Connection

Electricity

The system is to be connected to a 3 x 400 volt power supply with neutral (N) and earth (PE) conductors, and protected with a min. 32 A, category C fuse. Connect the system to the power supply with a CEE plug or a supply separator, so that it is easy to disconnect the power for maintenance procedures and repairs.

Compressed air

The system requires compressor pressure of at least 7 bar. Use a type Cejn 320 quick release coupling to connect the air supply. **NB:** Make sure that the air is free from water, dirt and rust particles from old pipes to prevent interruptions to the drum process.

WARNING! Do not leave air hoses and electricity cables lying unsecured on the floor, as this constitutes a risk of physical injury.



The fan makes a lot of noise and should therefore be placed in an adjoining, sound-proofed room, or outdoors. If the fan is placed outdoors, make sure to position it in a sheltered location to protect it against rain, etc.

Noise data for the fan (TRL 75)

Noise output: 99 LwA (dB)

Highest noise pressure at a distance of 1 m: 85 LpA (dB)

Make sure that there is a sufficient supply of air to the area from which the fan draws its supply air.

7 Operating the system

7.1 Two production methods

The system can be set to two different production methods: with or without automatic loading of skins (auto-fill).

With auto-fill

In this mode, the system will operate continuously, which means you can load skins as soon as there is an available drum. The operating panel will indicate when a drum is available for loading.

The operator has a set period of time to load skins into the system. If the operator does not do so, the drum processing will continue with an empty drum so that the cycle matches.

Without auto-fill

In this mode, the system will complete a drum cycle – irrespective of whether or not a drum is ready for new skins. When all the skins have been drum-processed, cleaned and delivered to the skin cabinet, the system will stop and can be restarted from the beginning again.

7.2 Start-up and operation

- 1 Follow the instructions for setting up the system (Section 6).
- 2 Connect electricity and compressed air supplies and turn the main switch to <ON>.
- 3 Add new sawdust to the system.
- 4 Have skins ready for all the drums so you can load them from the start.
- 5 Remember to fit the reduction section to the insertion tube.
- 6 Check:
 - that the emergency stop button is deactivated
 - that the safety handles on the drums are in the correct position
 - that the door to the net drum is closed.
- 7 Press <Reset> on the operating panel. If the emergency power circuits are OK, the <Reset> button will light up green.
- 8 Press <Start> on the touch display. The status field will now change colour to green (started).
- 9 Press <New sawdust> on the operating panel. This will start the transport of new sawdust.
- 10 Turn the male/female switch to the correct position for the skin type in question.
- 11 Start to load skins into Drum 1.

Procedure for loading skins

Hold the skin – with the leather side facing out – by the flaps from the hind legs so the rest of the skin is hanging down. Lead the skin up to the insertion point. The head section of skin will be sucked in through the skin, which will simultaneously be turned hair side out.

Hold the skin in this position for approx. 1 second, until you are sure that the entire skin has been reversed. Then release it.

Continue to load skins into the system until the light in the male/female switch is illuminated. This means that you have reached the number entered in the touch display as the desired quantity.

- 12 Press <Add sawdust> on the operating panel 2–3 times. This will make sure that the sawdust has dropped out of the holder.
- 13 Press <Refill> on the operating panel to complete the loading procedure.
- 14 The system will now switch to Drum 2; repeat the procedure described in Steps 11–13. Do the same when the system switches to the next drum – if there are additional drums to load.
- 15 Remove the reduction section when you have loaded the last drum. This will reduce the resistance when the system draws air in through the insertion tube.

Operation with auto-fill

The system will now process the skins and deliver skins from Drum 1 for cleaning in the net drum. When the light in the <Refill> button on the operating panel lights up, Drum 1 is ready for loading again. Press <Refill> on the operating panel and repeat the procedure described in Steps 11–13. The process will now operate continuously until the drums progressively finish their cycles.

Operation without auto-fill

The system will now process all the skins you loaded and deliver them all to the skin cabinet. The status field in the touch display will then change to <Stopped>, and you can repeat the procedure described in Steps 8–15.

7.3 Restart with skins in the drums

It may be necessary to restart the system while there are still skins in the drums – following a power outage, for example.

- 1 Press <Reset emergency stop> on the operating panel until the light changes colour to green.
- 2 Now press <Reset> on the touch display, and maintain the pressure for 5 seconds. NB This resets all the counters.
- 3 Now press <Start> on the touch display and the system will start.
- 4 When the system reports it is ready for a new load of skins, press the <Start> button on the touch display and maintain the pressure for 3 seconds. The system will now skip the step for loading skins and start drum processing.

Repeat this procedure for all drums.

8 Maintenance and storage

Maintenance of the system comprises

- 1 Ordinary, daily cleaning.
- 2 Lubricating the ball bearings on the drums.
- 3 Lubricating the ball bearings on the net drum.
- 4 Tightening and replacing the drive belts.
- 5 Tightening wires in the drive stations.
- 6 Cleaning and maintaining the fan.
- 7 Checking and replacing filters.

WARNING! You **MUST** disconnect and lock the main switch in its <OFF> position before starting any maintenance work.

8.1 Ordinary, daily cleaning



After work has been completed, check all drums for skins that may have become lodged in them.

Use a compressed air pistol to remove fluff and dirt from the individual parts of the system, including the motors' radiator fins.

NB: Always wear ear protectors and a filter mask when cleaning with compressed air.

Use a vacuum cleaner to remove dust and fluff from the floor around the system.

The net below the net drum



Remove fluff from the net below the net drum every day.

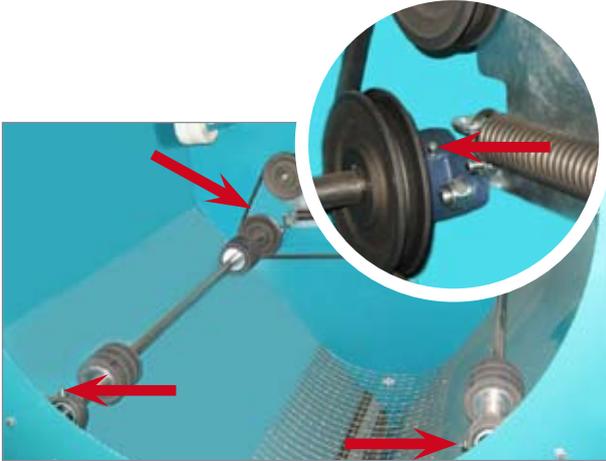
8.2 Lubricating the ball bearings on the drums



There are two sets of ball bearings on each drum. Lubricate them with grease before the season starts, and approximately once a week during the season.

MAINTENANCE

8.3 Lubricating the ball bearings on the net drum



There are four sets of ball bearings on the filter unit: three on the net drum and on the motor located on the back of the unit. Lubricate the bearings with grease before the season starts, and approximately once a week during the season.

How to remove the net drum



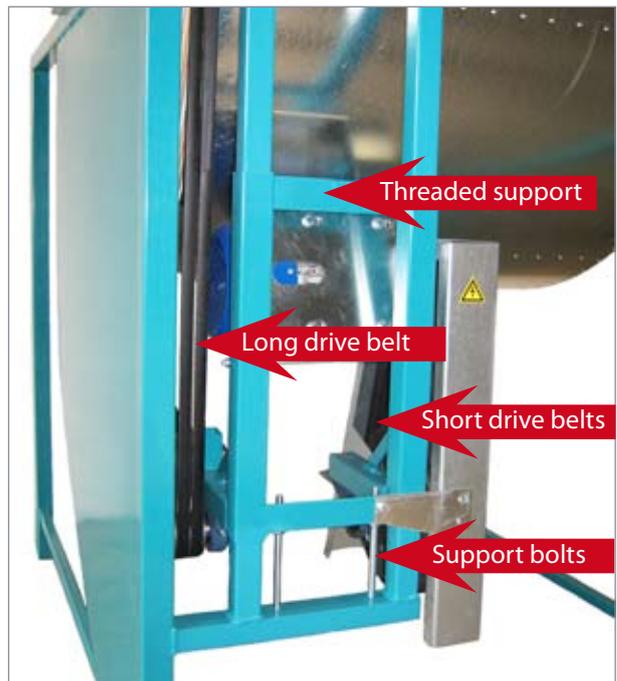
To remove the net drum, start by removing the support wheels at the top. Then simply lift the drum out.

8.4.1 Tightening the drive belt in the net drum



Check the belt tensioner for the net drum as required. It should be possible to turn the arm easily. If the spring has drawn together completely, the belts are too loose and must be replaced.

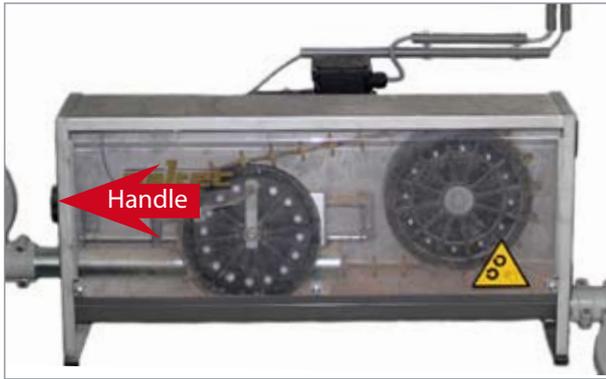
8.4.2 Tightening the drive belts in the drums



There are two sets of drive belts on each drum. Make sure that the belts in each set are equally tight.

Turn the motor towards the threaded support to tighten the short belt from the motor to the intermediate axle. To tighten the long belt from the intermediate axle to the drum, pull the whole motor bracket down. Then tighten the support bolts at the bottom.

8.5 Tightening wires in the drive stations



There is a handle for tightening the wire on the side of each drive station. The system is spring-loaded. Turn the handle counter-clockwise to tighten. If it has already been tightened as much as possible, the wire needs to be shortened at the join.

8.6 Cleaning and maintaining the fan



At the end of the first day using a new fan, all the screws must be checked and tightened. They must, of course, be kept tightened at all times subsequently.

Keep the fan surfaces free from dust and other impurities. Remove the dust if it is more than 0.5 mm thick.

8.7 Checking and replacing filters



Check the 36 filters in the filter unit for damage and holes. When it is time to clean them, remove them and turn them inside out. You can then clean them with a high-pressure hose. Make sure that they are completely dry before refitting them.

Change the filters as requires – and at least every three years.



When replacing filters, cut the plastic strip at the top. Then press the collar at the bottom of the filter together and twist it off the panel.

When inserting new filters, reverse the procedure. Make sure that the track in the filter collar is correctly positioned in the hole, and that the filter does not twist before you secure it in place using a plastic strip at the top. Cut off the surplus part of the strip.

8.8 Consumables



As grease/rust protection for lubricating bearings, we recommend Q8 Rembrandt EP 2.

HG item no. 476570

8.9 Protection devices

It is only permitted to remove any of the protection devices on the machine in connection with repairs or service procedures. Only people especially skilled in serving the system are permitted to remove protection devices.

8.10 Storage

When you have finished work for the season, it is important to clean the machine thoroughly and make sure that it is properly lubricated.

Also make sure to remove all skins and sawdust from drums and transport chains.

Grease the bearings.

9 Troubleshooting

Problem	Possible cause	Solution
Cannot reset an emergency stop.	The door is not closed. The emergency stop is activated. The safety bars are not in position.	Close the door. Deactivate the emergency stop. Put the safety bars in position.
The skins are fatty.	There is not enough sawdust in the system.	Add sawdust.
The skins are full of sawdust.	The filters are blocked.	Clean or replace the filters.
Skins are being sucked through the drums.	The drums are incorrectly adjusted.	Check that the drive belts are not slipping, and that the brake on the motor is not loose.
The system cannot clean the sawdust from the skins properly.	You are loading too many skins at a time.	Reduce the number of skins per drum.
The skin counter on the insertion tube does not count all the skins.	The photocell cannot register movement at the insertion point.	Clean the photo cell and sensor to remove dust.
The dampers and sliding valves will not shift.	The air pressure is too low to activate the cylinders.	Check and adjust the air pressure.
The sawdust transport is not pulling properly.	The rubber bands on the drive wheel are worn.	Replace the rubber bands on the drive wheel.
The system is not sucking properly.	The airflow is blocked in one of the transport pipes.	Dismantle the pipes and check for skins that have become lodged.
Skins become lodged in the net drum.	There are too many skins in the drum.	Reduce the number of skins per drum.
The drums do not empty completely.	The filters are on the point of becoming blocked.	Clean the filters or increase the duration of the emptying time.

10 Technical data

HG Environmental drum system

Dimensions

Filter unit

Width	136 cm
Length	210 cm
Height	220 cm

Drums

Width	140 cm
Length	110 cm
Height	200 cm

Electricity

Voltage	3 x 400 V + N + PE
Fuses	32A, Category C
Connection	32A, CEE
PLC control	230 V AC + 24 V DC
Ampère consumption	31A

Compressed air

Air pressure	7 bar
Connection	Cejn 320 quick release coupling

Capacity

Skins per hour	2 drums: 300
	3 drums: 450

11 Warranty conditions

Warranty period

HG provides a 12-month warranty, as from the date of delivery.

The warranty covers

- ◆ Components that have to be repaired or replaced on account of material defect or manufacturing error.

The warranty does **not** cover wearing parts and consumables such as:

- ◆ Drive belts and filters.

The manufacturer's warranty shall be terminated in the event that:

- ◆ The system is used incorrectly.
- ◆ The system is used without the operator complying with the information in the user manual and safety regulations.
- ◆ The system is not maintained according to the instructions supplied, or obsolete parts are used.
- ◆ The system is used after a fault or defect has been identified, and the resulting repair is more expensive than the cost of repairing the original fault.

The owner's own insurance should cover:

- ◆ Fire, break-in, theft and vandalism
- ◆ Water and frost damage
- ◆ Damage caused by the weather

These are not covered by the manufacturer's warranty.

Approval of claims for compensation

Approval from the manufacturer of claims for compensation is conditional upon the defective part(s) being presented to the manufacturer or the manufacturer's representative within two weeks of the damage being identified. The right of ownership to the damaged part(s) shall be transferred to the supplier of the new part(s).

Only components can be replaced under the warranty, which therefore does not cover:

- ◆ Freight costs.
- ◆ Costs in connection with waiting time, the machine owner's working hours and travel expenses.
- ◆ Loss of earnings and other consequential expenses.

Other information

Before repairs under warranty are carried out, the manufacturer must be contacted to agree on the procedure. If the repair work has been initiated or completed, the cost of same cannot be claimed against the warranty.

The present warranty conditions can only be amended through a separate agreement.

WARRANTY CERTIFICATE

Version _____

Type/Chassis no. _____

Model/year _____

Delivery date _____

Seller/fitter _____

Company _____

Address _____

Signature _____

First owner _____

Address _____

Tel. _____

Second owner _____

Address _____

Tel.c _____

SPECIAL CONDITIONS _____

Warranty certificate to be completed by an HG fitter/sales consultant.

12 Service documentation

HG recommends that, as a minimum, you have a seasonal service performed on the system every year.

Service no. 1

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 4

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 2

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 5

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 3

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 6

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

SERVICE

HG recommends that, as a minimum, you have a seasonal service performed on the system every year.

Service no. 7

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 10

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 8

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 11

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 9

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

Service no. 12

Service completed

Number of skins _____

Date _____

Work order no. _____

SIGNATURE

14 EU Declaration of conformity

Hedensted Gruppen A/S
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Tel. (+45) 75 89 12 44
Fax (+45) 75 89 11 80
www.hedensted-gruppen.dk

hereby declares that:

HG Environmental drum system
HG item no. 204200

conforms with:

- The Machinery Directive 2006/42/EC
- The Low Voltage Directive 73/23/EEC
- The ROHS Directive 2011/65/EU

**under application of the following
harmonising standards:**

- DS/EN 12100-1:2005
- DS/EN 13857:2008
- DS/EN 60439-3

Hedensted, 19 September 2014



Jens Jørgen Madsen
CEO



HG

IMPROVING YOUR FUR BUSINESS

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