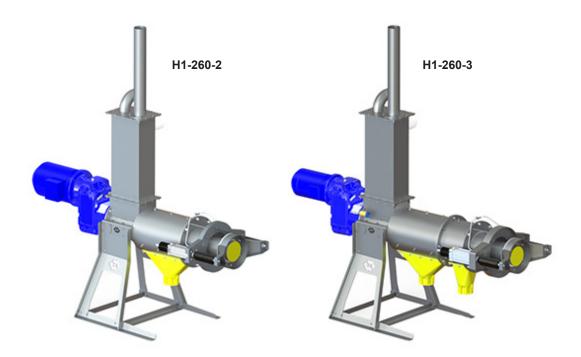


SEPBEDH - SOLID-LIQUID SEPARATOR

TECHNICAL CATALOGUE



Manual No. SEP.SEPCOM_Bedding--.T.A4.0722.EN Issue: A4 Latest update: July 2022

ORIGINAL INSTRUCTIONS IN ENGLISH

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All the products described in this catalogue are manufactured according to **WAMGROUP S.p.A. Quality System procedures**. The Company's Quality System, certified in July 1994 according to International Standards **UNI EN ISO 9002** and extended to the latest release of **UNI EN ISO 9001**, ensures that the entire production process, starting from the processing of the order to the technical service after delivery, is carried out in a controlled manner that guarantees the quality standard of the product.

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1.0 TECHNICAL FEATURES

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1.1 General description of equipment

The separator **SEPCOM® Bedding** features a loading zone consisting of a compensation tank with overflow unloading hopper, a stainless steel body that houses an screw which conveys the material toward the outlet of the separator; the separation occurs through a screen that completely wraps the screw (housed as well inside the separator body). The liquid flows through the screen while the solid part is pushed toward the outlet spout on which it has been provided a pneumatic pressor. The pneumatic pressor creates a counter-pressure on the material outlet and generates a plug; this enables the automatic operation of the separator and prevents the flowing out of the liquid phase contained by the material handled.

The drive unit consists of an electric motor and a flanged gear reducer fitted on the screw shaft.

The separator has to be installed within a plant that provides for the proper supply and that envisages a liquid and solids separated collecting system all managed by means of an electric control board and specific controlling devices.

IMPORTANT NOTE:

The operation hours of the separator have to be monitored by means of a counter, already fitted on the control panel which can be supplied as accessory.

This aspect is very important especially as regards possible wear problems.

Important

The terms "equipment" and "separator " used in this manual refer to the same machine.

The separator, control panel and air compressor (that provides the pneumatic pressure) must be considered a machine and, consequently, must bear the CE marking.

It is forbidden to start the equipment unless the machine/plant in which it is to be installed has been declared compliant with the Directive 2006/42/EC and further modifications.



1.0 TECHNICAL FEATURES

1.2 Permitted use and environmental operating limits

The separator SEPCOM[®] BEDDING has to be used for the separation of cattle manure according to the indications provided by manufacturer on condition that the material can be pumped into the compensator tank with a suitable chopper pump and on condition that the solid content does not exceed 5 % and 12 % TS.

The separator is to be used in the absence of overpressure or negative pressure.

Every other use must be considered improper, therefore not permitted.

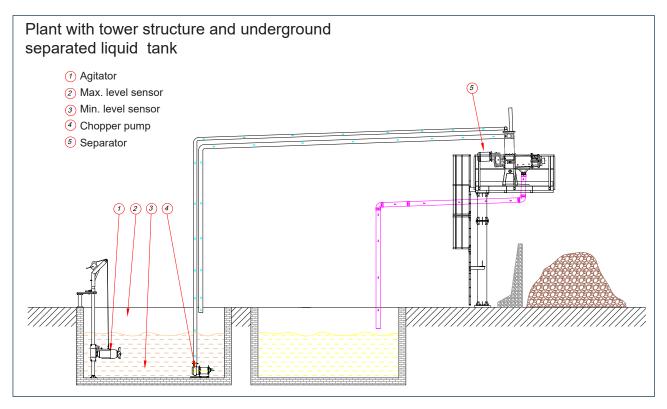
Given that fact that **SEPCOM[®] Bedding** is to be installed in a plant, the working of the equipment and its performances are also strictly linked to the entire plant condition and layout, it is therefore very important to follow all the recommendations listed at page 3 and 4.

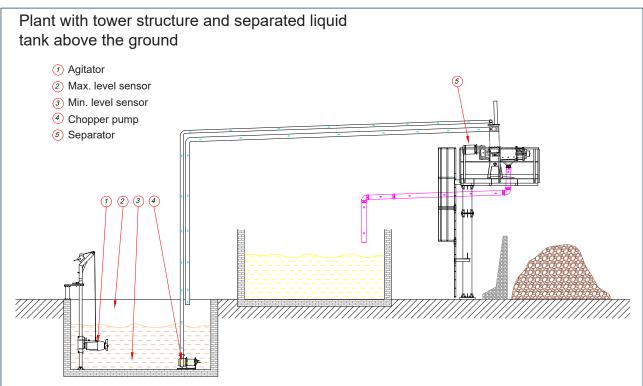
Unless otherwise specified, the equipment concerned can be used only within the indicated limits.

- Altitude: less than 1,000 m at sea level
- Ambient Temperature: between 0 and + 40 °C
- Cold environment: with temperatures below 5 °C use only oil and lubricants suitable to the operating temperature.



2.1 Configurations available



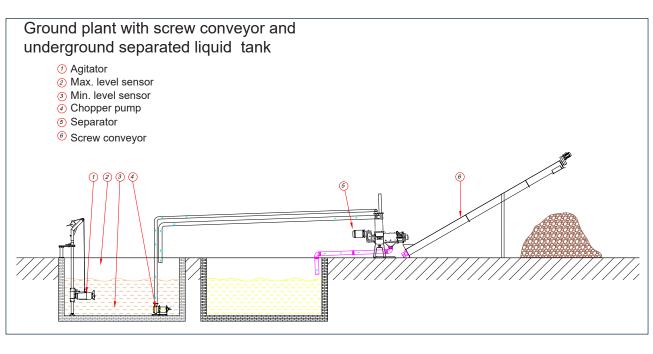


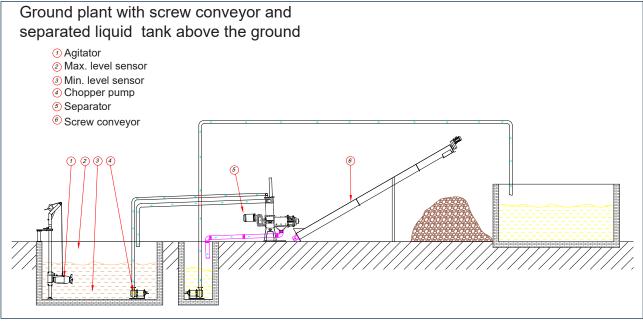




2.0 PLANT LAYOUT

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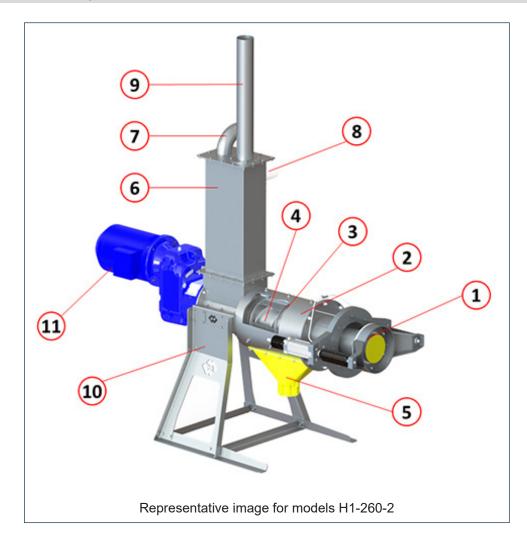




3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS

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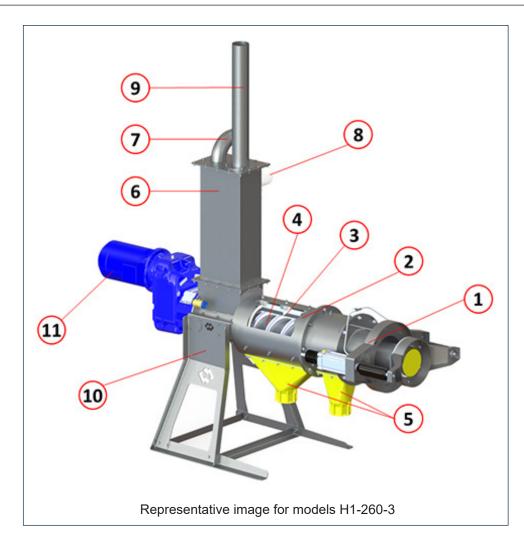
3.1 Standard supply: main components





3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS

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Pos.	Description
1	Pneumatic pressor
2	Casing
3	Screen basket
4	Auger
5	Liquid phase discharging hopper
6	Compensator tank
7	Material inlet pipe
8	Overflow
9	Venting air pipe
10	Support feet
11	Motor and gear reducer.

CONFIGURAT	ION OPTIONS
Auger	SS 304L
Screen basket	0.75 - 0.90 mm
Cylinders	Ø80 - Ø100 mm

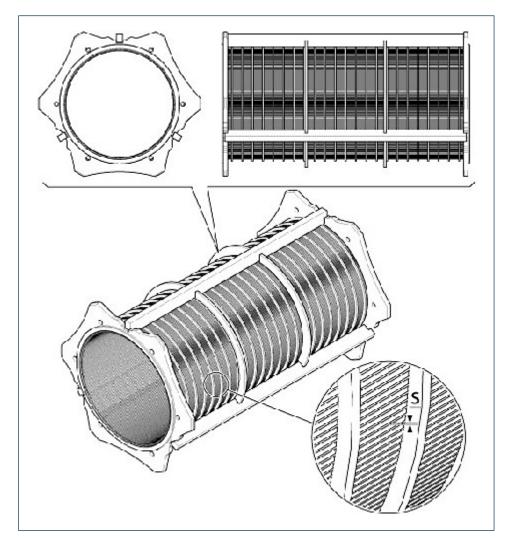


SEPCOM[®] Bedding

3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS

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3.2 Screen details



MODEL	SINGLE SCREW SCREEN	ADDITIONAL SCREEN
WODEL	S = sizes available [mm]	S = sizes available [mm]
H1-260-2	0,75 - 0,90	-
H1-260-3	0.75	0.90



1

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3.3 Accessories

24 litters compressor, flow rate 250 litres/min, 2 cylinders 1 stage, pressure 10 bar (145 psi), installed power 1.5 kW, voltage 230 V, 50 Hz with dryer and filter. Packaged sepa- rately from the machine.
SIP-BED control panel version <i>Full</i> for a complete management of the separation plant. Frequency: 50/60 Hz. Voltage: 210/240V, 360/480V. Packaged separately from the machine.
SIP-BED control panel version <i>Easy</i> for a smart management of the separation plant. Power supply: 24 VDC from main power switchboard. Packaged separately from the machine.

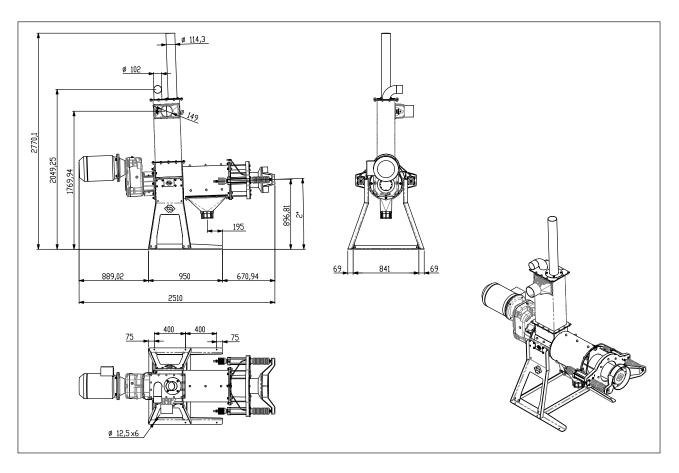


TRANSPORT

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4.1 Overall dimensions

Overall dimensions model H1-260-2



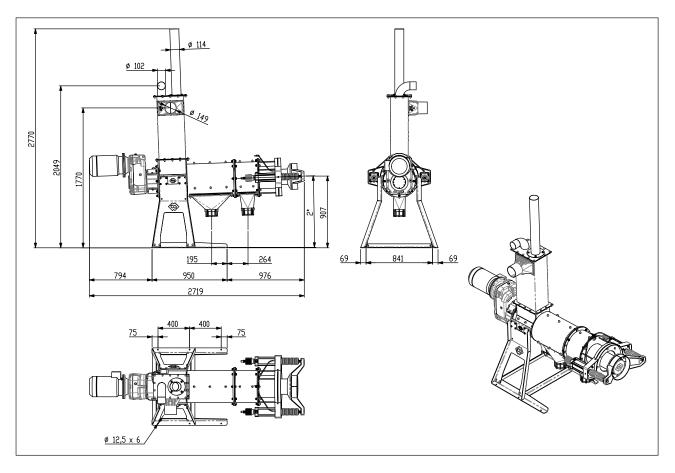


4.0 INFORMATION REGARDING HANDLING AND

TRANSPORT

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Overall dimensions model H1-260-3





4.0 INFORMATION REGARDING HANDLING AND

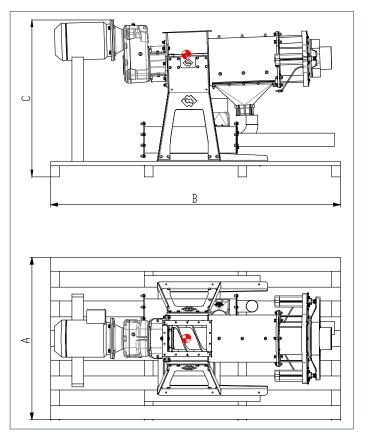
TRANSPORT

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4.2 Packaging dimensions for shipping

SEPCOM

PACKAGING PALLET + NYLON SHRINK-WRAP

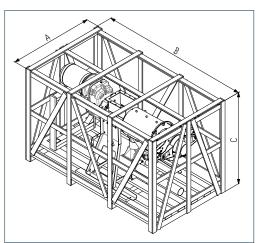


Important

The centre of gravity in the picture above is only an indicative in relation to the packed equipment. However, all necessary precautions must always be taken to handle the material correctly.



PACKAGING INCLUDING CAGE + NYLON SHRINK-WRAP





4.0 INFORMATION REGARDING HANDLING AND

TRANSPORT

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		Dime	nsions	[mm]		Weight [kg]	
Model	Packaging type	Α	В	С	Equipment	Packag- ing	Equipment + packaging
	PALLET + heat-shrink film	1050	2700	1355		40	615
H1-260-2	CRATE + heat-shrink film	RATE + heat-shrink film 1080 2700 1450 57		575	65	640	
	CASE + barrier bag	1050	2700	1450		90	665
	PALLET + heat-shrink film	1050	2700	1350		40	665
H1-260-3	CRATE + heat-shrink film 1080		2700	1450	625	65	690
	CASE + barrier bag	1050	2700	1450		90	715



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5.0 FORMS

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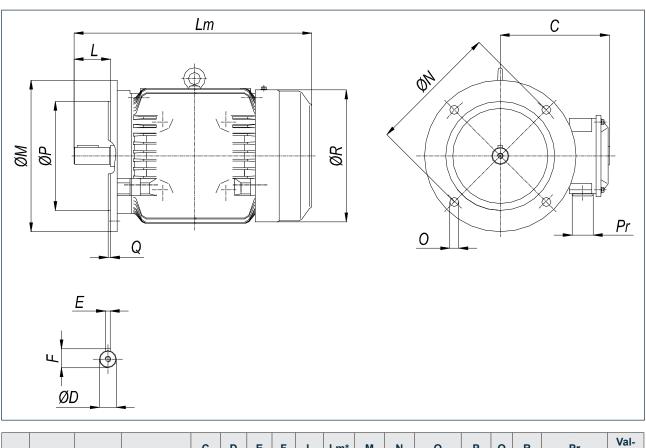
5.1 Inquiry form

PLANT				
Separator fed by: Pump	YES	NO	-	Volumetric
		NO	Which type?	Centrifugal
ls it a chopper pump?	YES	NO	Kw	Head H (m)
Pump-Separator horizontal distance [m]	•		Pump-Separator vertical dista	nce [m]
Pre-mixed material	YES	NO	7	
Pump controlled by inverter	YES	NO	7	
Separator controlled by inverter	YES	NO	7	
Geographic areas				
Frequency [Hz] Volt [V]			No. of phase	s
APPLICATION/SECTOR		_		
FARMING Cattle farming sector		Other Livest	cock sector (specify)	
Pig farm sector				
BIOGAS: Livestock sector				
F.O.R.S.U.		Other secto	ors (specify)	
Other applications: please describe the process and where the	separation is required			
MATERIAL		-		
Manure	YES	NO		
Presence of straw	YES	NO	Dimensions [mm]
Other bedding material (specify)				
Does the material come from stable washing systems?	YES	NO		
Digestate	YES	NO		
Material description				
Total floating solids %		Tem	perature (°C)	
Other	YES	NO		
Material description				
Total floating solids %		Tem	perature (°C)	
PURPOSE				
Dry solids Clean liquid			١	l or P separation
Other				
Liquid phase use				
Solid phase use				
OPERATION CONDITIONS				
Operation hours per day		[h/day]		
Operation hours per day		[m³/h]		
ACCESSORIES				
Equipped with compensator tank of 1 m ³	YES	NO		
Moisture Sensor	YES	NO		
	YES	NO	4	
	YES	NO	4	
	YES	NO		
PACKAGING				
Pallet and nylon shrink film				
Cage provided with protective salt and rust protective bag for the	ransport over sea			
Crate with shrink film for air transport				



6.0 ELECTRIC MOTOR

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k۷	Poles	Size	Code	с	D	Е	F	L	Lm*	М	N	c)	Ρ	Q	R		Pr	Val- ues
					[mm]							ø	n°	1	[mm]	1	n°	[mm]	[Kg]
5.5	8	160Mb	87004456	251	42	12	45	110	608	350	300	19	4	250	5	314	2	M40 x 1,5	89

The cable glands are made of plastic.

The junction box is on the LH side of the motor (seen from the guard).

* With different brands ± 50 mm tolerances are possible.

N.B.: Assembled on the separator it is painted in gentian blue RAL 5010; as a spare part it is rust-proof coated.

The motors in the table are manufactured by **WAM**[®] and comply with the European standards IE3 as well as with EN 50262 regulations with regard to the joints (cable glands) in the terminal block. This means that the user can employ any motor brand as long as they follow the same standards, without having to change drive unit completely.