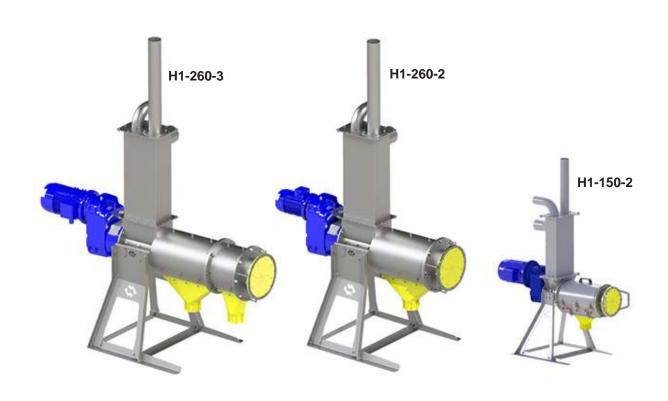


SEPINDH, SEPCOWH, SEPBIOH, SEPPAPH, SEPOILH -SOLID-LIQUID SEPARATOR

TECHNICAL CATALOGUE



Manual No. SEP.SEPCOM_Horizontal.--.T.A.0422.EN Revision: A Latest update: April 2022

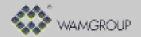
ORIGINAL INSTRUCTIONS IN ENGLISH

WAMGROUP S.p.A.

Via Cavour, 338 41030 Ponte Motta Cavezzo (MO) - ITALY









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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We reserve the right to implement modifications without notice.

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1.0 TECHNICAL INFORMATION

1

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1.1 General description of equipment

The separator **SEPCOM® Horizontal** consists of a feeding section provided with compensator tank and overflow hopper; the stainless steel casing includes a screw conveyor (inside a cylindrical screen basket) that transports the material towards the outlet of the separator and separates though the solids from the liquid phase, which flows through the screen while the solid fraction is pushed towards the outlet on which it is are installed a counter-pressure diaphragm for the material plug to get formed; this allows the automatic operation of the separator and avoids the flowing out of the liquid phase contained by the material handled.

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

The separator **SEPCOM® Horizontal** 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:

It is recommended the installation of an hours counter in the control panel that allows the counting of the operation hours of each separator component.

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



Importante

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

As components meant for installation in a plant, the separators- not fully provided with safety means - have to be considered "partly completed machinery". Therefore, they do not bear an EC 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 INFORMATION



SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

1.2 Permitted use and environmental operating limits

The separator **SEPCOM® Horizontal** has to be used for the separation of liquid manure, digested matter from biogas plants, or similar material according to the indications provided by the 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 12%.

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® Horizontal** 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. (Plants layout).

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.

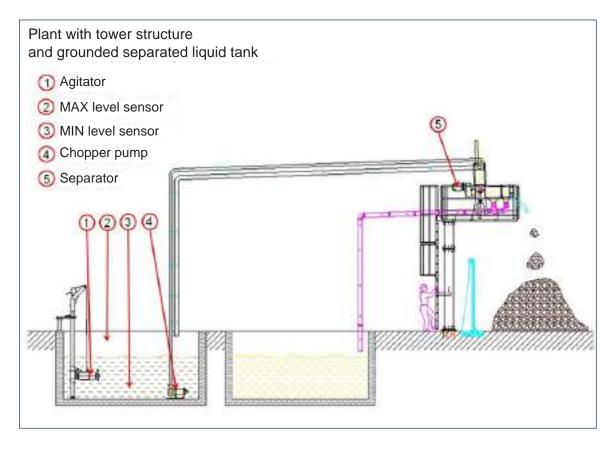


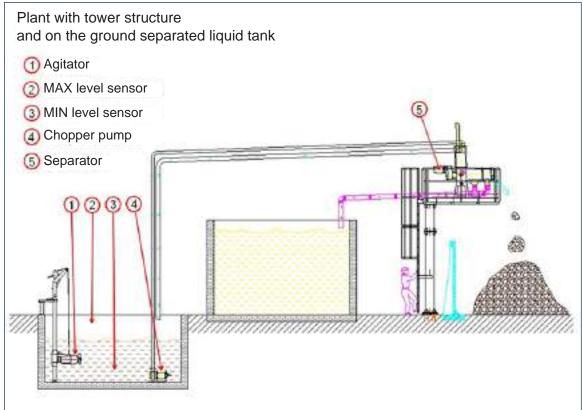
2.0 PLANT LAYOUT



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2.1 Configurations available



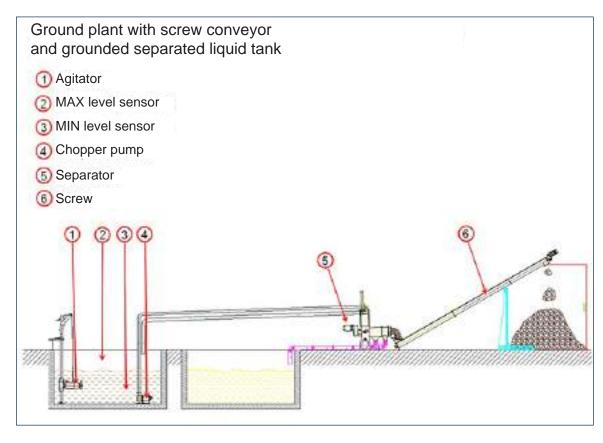


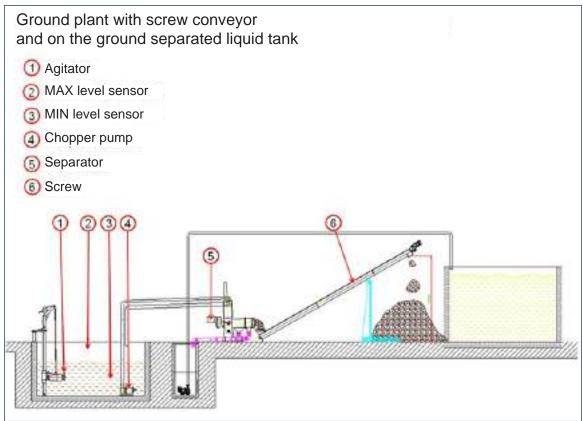


2.0 PLANT LAYOUT



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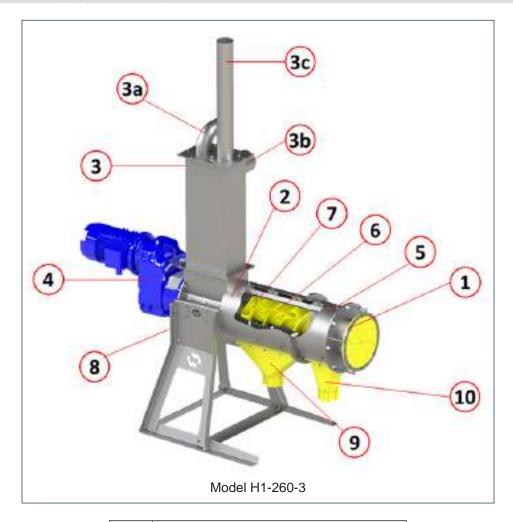


3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS

1

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3.1 Standard supply: main components



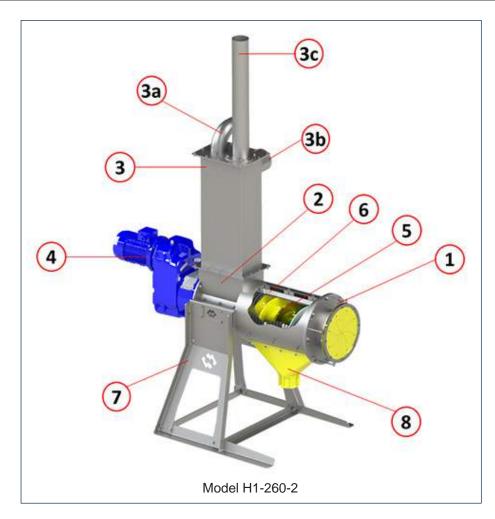
Item	Description
1	Compaction module with diaphragm
2	casing
3	Compensator tank
3a	Feeding pipe
3b	Overflow
3с	Venting air pipe
4	Motor and gear reducer.
5	Body extension
6	Auger
7	Screen basket
8	Support feet
9	Liquid phase discharging hopper
10	Liquid phase discharging hopper

CONFIGURATION OPTIONS									
Auger SINT® ER, SINT® EC, SS 304L, SS 316L									
Screen basket	0,25 - 0,50 - 0,75 - 0,90 mm								
Compression	0, 1, 2, 3								



3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

1



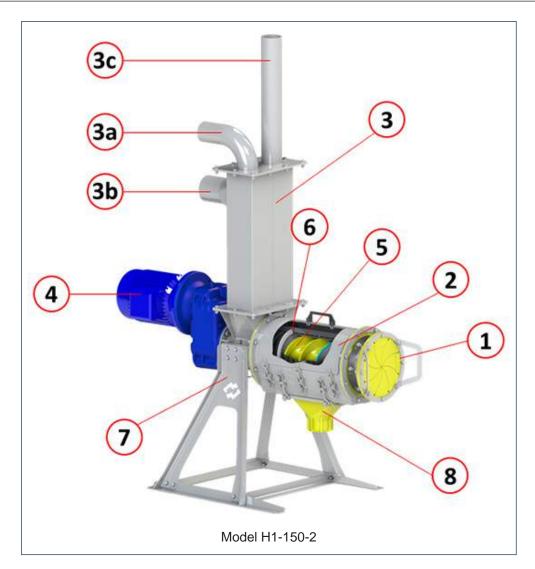
Item	Description
1	Compaction module with diaphragm
2	casing
3	Compensator tank
3a	Feeding pipe
3b	Overflow
3с	Venting air pipe
4	Motor and gear reducer.
5	Auger
6	Screen basket
7	Support feet
8	Liquid phase discharging hopper

CONFIGURATION OPTIONS										
Auger	SINT® ER, SINT® EC, SS 304L, SS 316L									
Screen basket	0,25 - 0,50 - 0,75 - 0,90 mm									
Compression	0, 1, 2, 3									



3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A





Item	Description
1	Compaction module with diaphragm pressor
2	casing
3	Compensator tank
3a	Feeding pipe
3b	Overflow
3с	Venting air pipe
4	Motor and gear reducer.
5	Auger
6	Screen basket
7	Support feet
8	Liquid phase discharging hopper

CONFIG	URATION OPTIONS
Auger	SINT® ER, SINT® EC, SS 304L
Screen basket	0,25 - 0,50 - 0,75 - 0,90 mm
Compression	0, 1, 2, 3

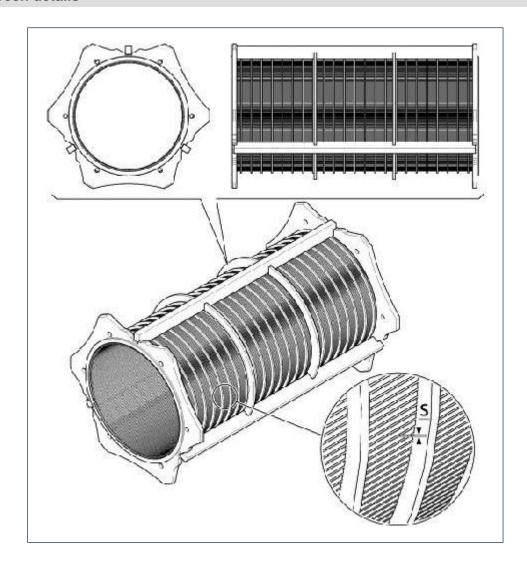


3.0 STANDARD VERSION OF THE MACHINE AND OPTIONS



SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

3.2 Screen details



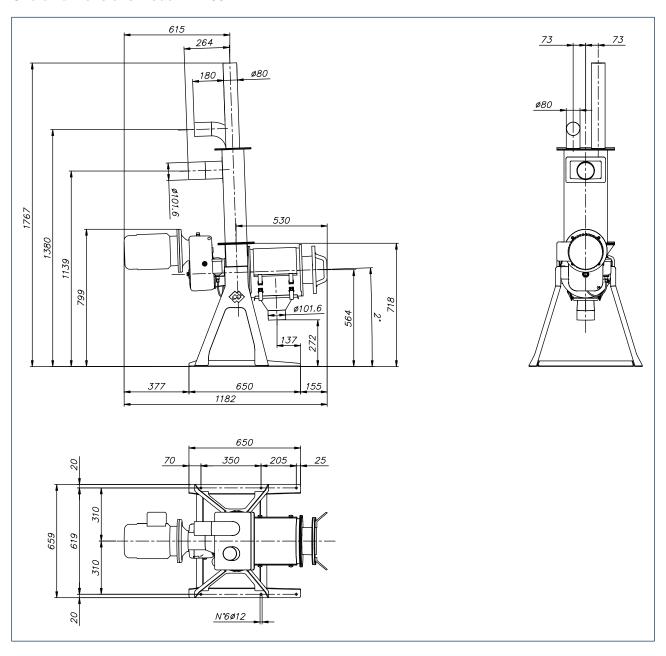
MODEL	SINGLE SCREW SCREEN	ADDITIONAL SCREEN					
WIODEL	S = sizes available [mm]:	S = sizes available [mm]:					
H1-150-2	0.25 - 0.50 - 0.75 - 0.90	-					
H1-260-2	0.25 - 0.50 - 0.75 - 0.90	-					
H1-260-3	0.25 - 0.50 - 0.75 - 0.90	0.25 - 0.50 - 0.75 - 0.90					



4.0 INFORMATION REGARDING HANDLING AND TRANSPORT SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

4.1 Overall dimensions

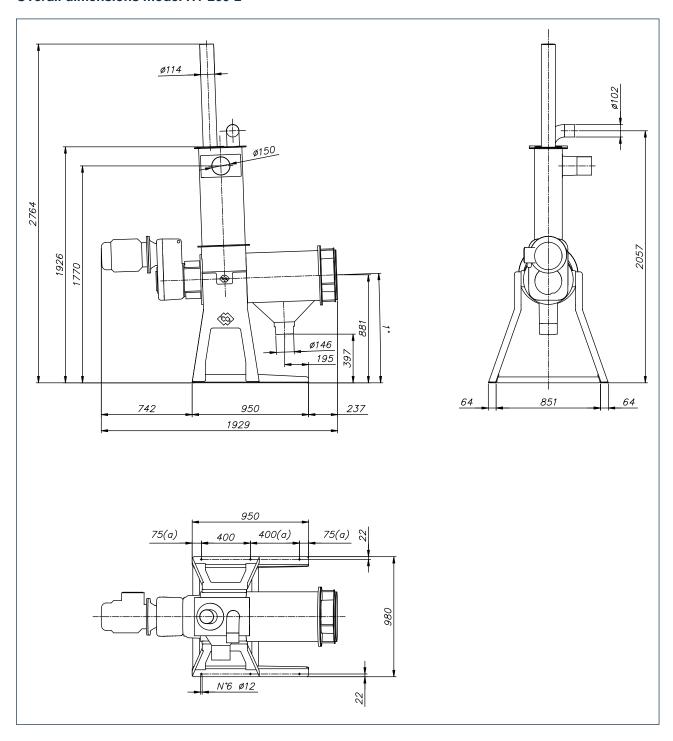
Overall dimensions model H1-150-2





4.0 INFORMATION REGARDING HANDLING AND TRANSPORT SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

Overall dimensions model H1-260-2

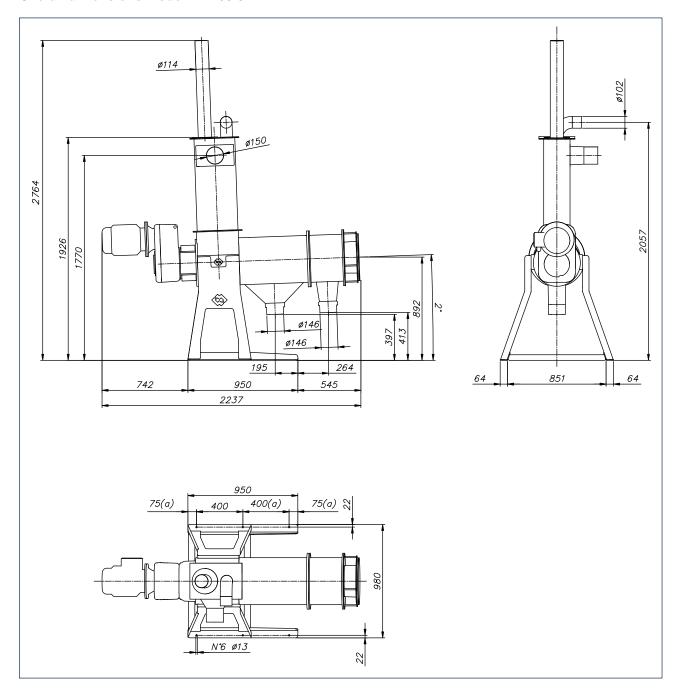




4.0 INFORMATION REGARDING HANDLING AND TRANSPORT SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

1

Overall dimensions model H1-260-3



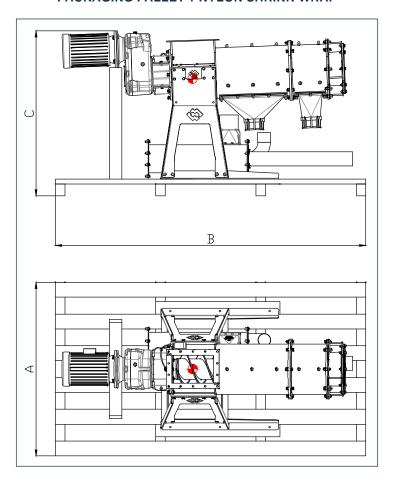


4.0 INFORMATION REGARDING HANDLING AND TRANSPORT SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

4.2 Packaging dimensions for shipping

Type of packages available:

PACKAGING PALLET + NYLON SHRINK-WRAP

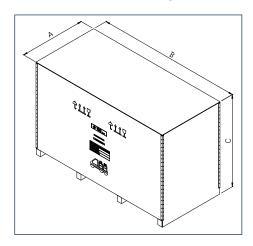




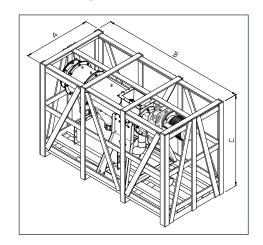
Importante

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 THE CRATE+ **BARRIER BAG**



PACKAGING INCLUDING CAGE + NYLON SHRINK-WRAP



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SEPCOM® Horizontal



4.0 INFORMATION REGARDING HANDLING SEPCOM AND TRANSPORT SEP.SEPCOM AND TRANSPORT SEP.SEPCOM_Horizontal.--.T.A.0422.EN Issue: A

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	PACKAGING	Dime	nsions	[mm]	Weight [kg]				
MODEL	TYPE	Α	В	С	Equipment	Packag- ing	Equipment + packaging		
	PALLET + heat-shrink film	750	1300	935		16	153		
H1-150-2	CRATE + heat-shrink film	784	1334	1000	137	27	164		
	CASE + barrier bag	750	1300	1000		32	169		
	PALLET + heat-shrink film	1050	2286	1335	35 30		515		
H1-260-2	CRATE + heat-shrink film	1084	2320	1450	485	60	545		
	CASE + barrier bag	1050	2300	1451		80	565		
	PALLET + heat-shrink film	1050	2286	1335		30	565		
H1-260-3	CRATE + heat-shrink film	1084	2320	1450	535	60	595		
	CASE + barrier bag	1050	2300	1451		80	615		



5.0 FORMS

1

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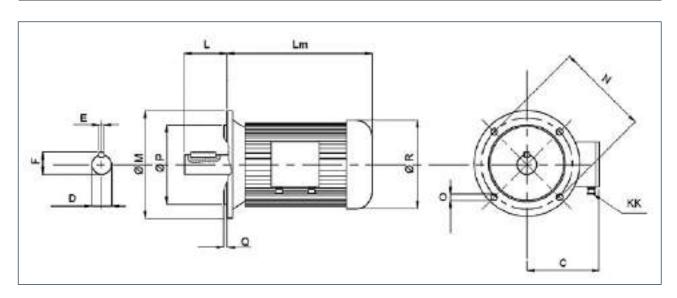
PLANT					
Separator fed by: Pump	YES		NO	í	Volumetric
separator red by, r dring			NO	Wh	hich type?
ls it a chopper pump?	YES		NO	Kw	Head:H[m]
Pump/Separator horizontal distance[m]				Vertical distan	nce from the separator [m]
Pre-mixed material	YES		NO	l	
Pump controlled by inverter	YES		NO	1	
Separator controlled by inverter	YES		NO		
Geographic areas					
Frequency [Hz] Volt [.V]			No. o	of phases
APPLICATION/SECTOR				•	
FARMING: Cattle farming sector	_		Livestock sector	r (specify)	
Pig farm sector					
BIOGAS: Livestock sector	Ь——				
From F.O.R.S.U.			Other sectors (s	specify)	
Other applications: please describe the process and where	the separation is required				
MATERIAL Manure		NO		1	
Manure Presence of straw	YES	NO	—	Dimen ^r	1
Presence of straw Other bedding material (specify)	YES	NO		Dimens	sions[mm]
Other bedding material (specify) Does the material come from stable washing systems?	YES	NO			
Does the material come from stable washing systems? Digestate	YES	NO NO	—	1	
Digestate Material description	YES	140		<u> </u>	
Total floating solids %			Tempera	oture [°C]	
Other	YES	NO		iture [c,	
Material description	TLJ	1111			
Total floating solids %			Tempera	ature [°C]	$\overline{}$
PURPOSE				Iture [0,	
Dry solids Clean liqu	bin				N or P separation
Other Clean Inqu					
Liquid phase use					
Solid phase use					
OPERATION CONDITIONS					
Operation hours per day		[h/da	ay]		
Operation hours per day		[m³,			
ACCESSORIES		=			
Equipped with compensator tank of 1 m ³	YES	NO		i	
Moisture Sensor	YES	NO		1	
Output solid support	YES	NO		1	
SCP control panel	YES	NO		1	
Raised tower platform for separator installation	YES	NO		i	
PACKAGING					
Pallet and nylon shrink film					
Cage provided with protective salt and rust protective bag f	for transport over sea				
Crate with shrink film for air transport					



6.0 ELECTRIC MOTOR



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Model	kW	Size	Code	С	D	Е	F	L	Lm*	M	N	0	Bores	Р	Q	R	le au	VV
Wodei	KVV	W Size	Code	mm no								no.	mm			kg	KK	
H1-150-2	2.2	100LR	MT100LR041453A	180	28	8	31	60	340	250	215	14.5	4	180	4	215	26	M25x1.5
H1-260-2	4	112M	MT1120M041453A	200	28	8	31	60	350	250	215	14.5	4	180	4	240	41	M25x1.5
H1-260-3	5.5	132S	MT1320S041453A	210	38	10	41	80	390	300	265	14.5	4	230	4	275	65	M25x1.5

The cable glands are made of plastic.

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

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.

^{*} With different brands ± 50 mm tolerances are possible.