

MEA® Grease Separator



Automatic Grease Separator

Standard Grease Separator

Full Disposal Grease Separator

HDPE Grease Separator

Sewage Lifting System

MEA Group GmbH

SUCCESS IN BUILDING, BUILDING SUCCESS

- Founded in Bavaria, Germany, in 1886
- Over 130 years of experience
- Global supplier of drainage systems
- Production bases in: Germany, France, Czech Republic, China

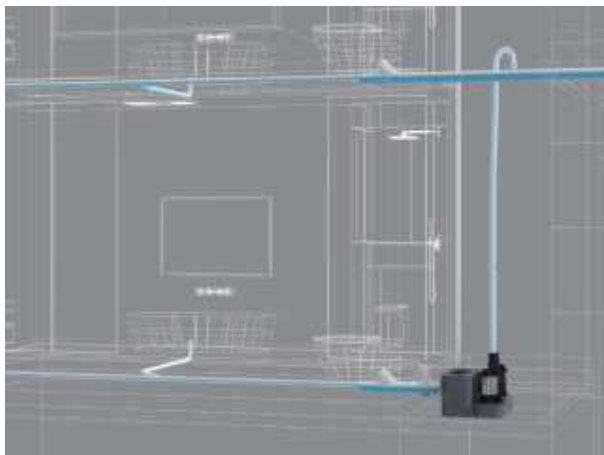




- Adhere to German quality, 15 years experience in Chinese market
- Businesses cover Asia-Pacific, Australia, North America
- Provide the best drainage system solutions and products to customers



- Linear drainage system
- Stainless steel drainage system
- Grease separators
- Sewage lifting system



Why Choose MEA Grease Separator

The Advantage of MEA Grease Separator



- > Fully enclosed running, no odor
- > Two stage separation, automatic remove oil and sludge
- > Automatic heating, constant temperature
- > Intelligent man-machine interface, automatic monitoring and alarm
- > EU CE certification, conform to EN1825-1:2004

Harm of grease



Pipeline blockage

pump corrosion

pipe wall corrosion

impact drainage efficiency and shortens service life

Corrosion and thinning of pipelines lead to the collapse of municipal pipe network

Disadvantages of traditional grease traps



Odor

Space occupation

Easy blocked

Germ breeding, environmental pollution

Silt deposit, difficult to clean and maintain

Product Selection

$$NS = Q_s \times f_d \times f_t \times f_r$$

Remarks:

$$Q_s = \frac{\text{number of meals per day} \times \text{Water consumption per meal} \times \text{Peak factor}}{\text{Kitchen running time}}$$

> Density factor(f_d):

For grease densities $>0.94\text{g/m}^3$, $f_d=1.5$, otherwise $f_d=1.0$

> Temperature factor(f_t):

Temperature of wastewater $>60^\circ\text{C}$, $f_t=1.3$, otherwise $f_t=1$

> Detergent and rinsing agent factor(f_r):

Never used, $f_r=1.0$, otherwise $f_r=1.3$

Automatic & Standard & Full Disposal Grease Separator

Nominal sizes Number of diners during peak hours L/S	2	4	7	10	15	20	25
Canteens, Kitchens, Hospitals	<200	<500	500-800	800-1200	1200-1600	1600-2200	2200-2800
Restaurants	<100	<400	400-700	700-1500	1000-1500	1500-2000	2000-2500

Remarks: 1. For high oil content wastewater and approaching the max number of diners of the model, it is recommended to use a larger model
2. Any issues during selection process, please contact technical department

HDPE Grease Separator

Nominal sizes Number of diners during peak hours L/S	5	7	10	15	20	30	40
Canteens, Kitchens, Hospitals	<500	500-800	800-1200	1200-1600	1600-2200	2200-2800	2800-4500
Restaurants	<400	400-700	700-1500	1000-1500	1500-2000	2000-2500	2500-4000

Remarks: 1. For high oil content wastewater and approaching the max number of diners of the model, it is recommended to use a larger model
2. Any issues during selection process, please contact technical department

MEA Automatic Grease Separator

 CE Certification



Product Characteristics

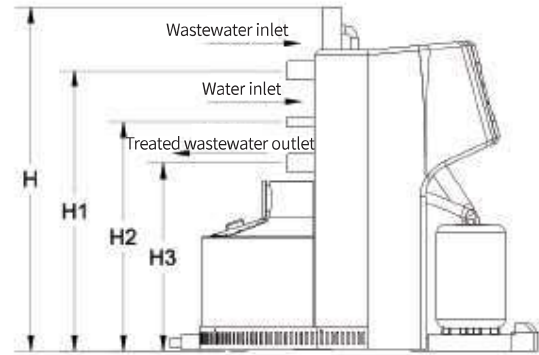
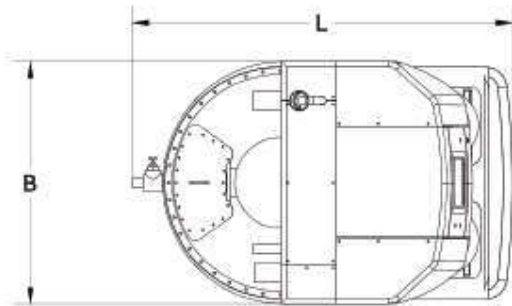
- > Material: SS304/316, customizable thickness 3mm or 5mm
- > Two stage separation, first remove sludge than oil
- > Efficient sludge removal, dehydration and anti-blocking
- > Automatic induction grease thickness, drain oil without water
- > Auto-running, fewer personnel operation
- > Siemens PLC control system
- > Touch screen, visual running, built-in user manual
- > Patented appearance, plastic coating surface, easy-clean

Advantages of stainless steel tank

- > Corrosion resistance, high temperature resistance
- > Easy-clean
- > Chemical resistance
- > Durable & long service life

Product Size

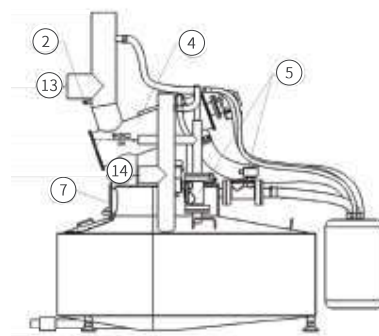
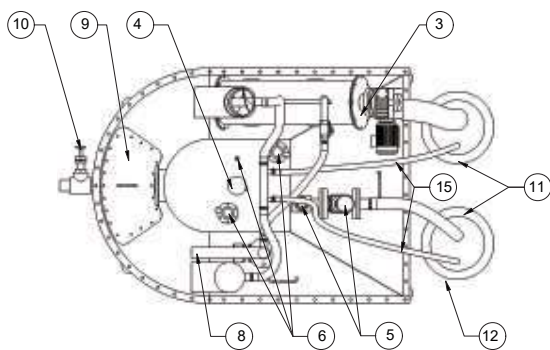
Technical Parameter



Model	Nominal size (L/S)	Inlet/Outlet DN(mm)	Vent DN (mm)	B(mm)	L(mm)	H(mm)	H1(mm)	H2(mm)	H3(mm)	Weight (kg)	Volume (L)
GS-7A	7	100	100	1360	2100	2000	1620	1300	1090	720	1100
GS-10A	10	150	100	1360	2550	2000	1620	1300	1090	960	1600
GS-15A	15	150	100	1360	3450	2000	1620	1300	1090	1080	2400

Power Supply: 380V, 50Hz Rated Power: 4KW(GS-7A, GS-10A); 5.5KW(GS-15A)

Structure drawing



- | | | | | |
|------------------------------|--|----------------------|------------------------|--------------------|
| ① 10.2 inch LCD touch screen | ④ Liquid level sensor | ⑦ Sightglass | ⑩ Drain valve | ⑬ Wastewater inlet |
| ② Water flow sensor | ⑤ Automatic oil discharge device | ⑧ Water inlet device | ⑪ 60L collection drums | ⑭ Outlet |
| ③ Sludge removal device | ⑥ Automatic heating and temperature sensor | ⑨ Inspection door | ⑫ Weighing sensor | ⑮ Vent |

MEA Standard Grease Separator

 CE Certification



Product Characteristics

Large sludge separation chamber

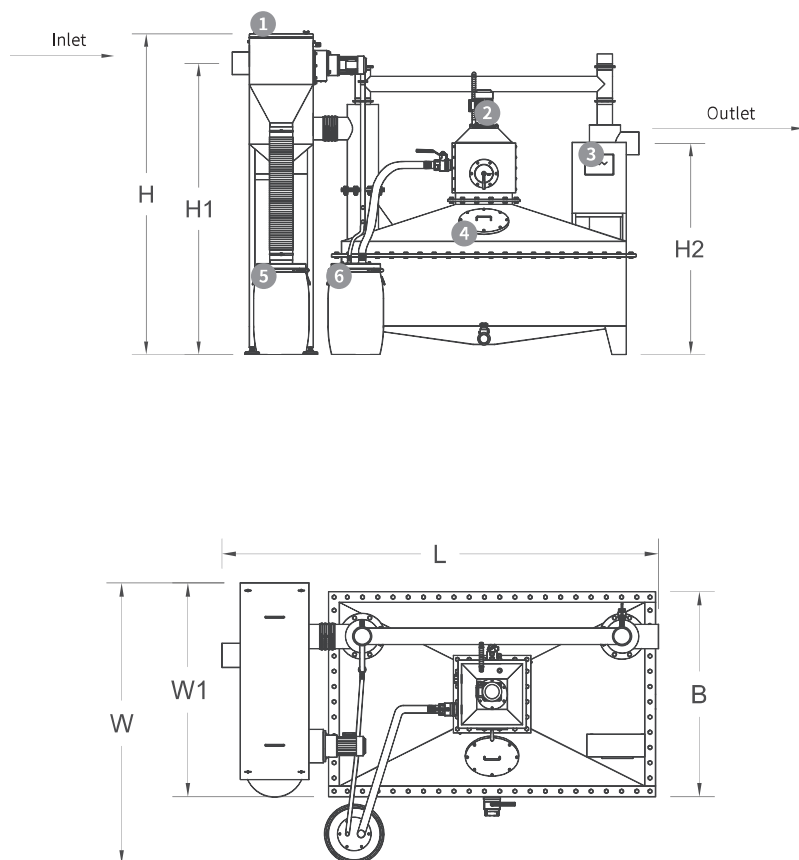
Surrounding heated grease collection chamber

Rapid oil-water separation with agitating

Fully enclosed running

- > Customizable ss 304 or 316, tank thickness of 2.5mm
- > Two stage separation, auto remove sludge with diameter greater than 1.5mm
- > Self cleaning brush, overflow sensor
- > Auto-heating, optional constant temperature mode
- > Large grease sightglass with manual cleaning handle
- > manual and optional automatic oil discharge device
- > Enclosed running, no odor
- > Detachable, can pass through channels $\geq 850\text{mm}$
- > Interchangeable inlet and outlet positions
- > Single chip microcomputer system, user-friendly human-machine interface

Product Structure



- ① **Sludge removal device**
removal sludge over 1.5mm, self-cleaning to avoid clogging, forced start to prevent overflow, hose clamp connection
- ② **Grease collection chamber**
auto-agitating, sightglass, auto-heating, discharge device, level sensor
- ③ **Control cabinet**
HMI, RS-485
- ④ **Grease separator chamber**
flow control baffle, drain, vent, inspection hole, detachable
- ⑤ **60L grease drum**
- ⑥ **60L sludge drum**

Technical Parameter

Model	Nominal size (L/S)	Inlet DN(mm)	Outlet DN(mm)	Vent DN (mm)	B(mm)	L(mm)	H(mm)	W1(mm)	W(mm)	H1(mm)	H2(mm)	Weight (kg)
GS-2S	2	150	100	100	845	2330	2130	1290	1440	1950	1360	550
GS-4S	4	150	100	100	845	2430	2230	1290	1440	2050	1460	570
GS-7S	7	150	150	100	1045	2514	2230	1290	1540	2050	1486	640
GS-10S	10	150	150	100	1245	2814	2230	1302	1742	2050	1486	665
GS-15S	15	150	150	100	1545	3214	2230	1583	2023	2050	1486	830
GS-20S	20	150	150	100	1845	4114	2230	1845	2285	2050	1486	1060
GS-25S	25	150	150	100	1845	4714	2230	1845	2285	2050	1486	1170

Power Supply: 220V, 0Hz Rated Power: 3.1KW

MEA Full Disposal Grease Separator

 CE Certification



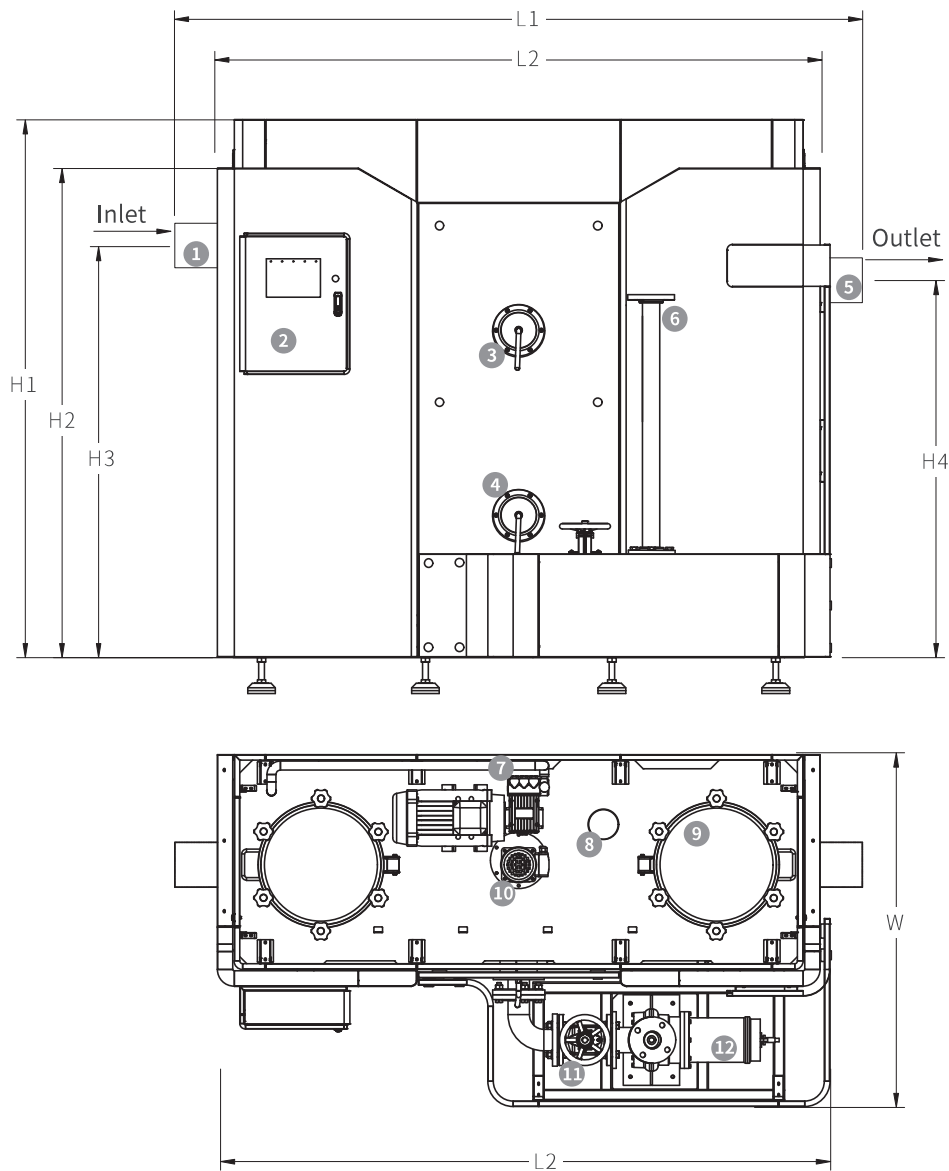
Product Characteristics

- > Chamber thickness 2.5mm, durable
- > Integrated separation chamber
- > Enclosed running, no odor
- > Double sightglass for grease and sludge
- > Cleaning device and agitator
- > Manual/automatic control mode
- > Simple operation and maintenance
- > Patented appearance, easy-clean

Product Accessories

- > Made of stainless steel
- > 400mm manhole
- > DN100 vent
- > Double sightglass for grease and sludge, with manual cleaning handle
- > Cleaning device and agitator
- > Cleaning device with centrifugal pump
- > DN65 disposal device, pump with cutting vanes
- > Control cabinet

Product Size



- ① Inlet
- ② Control cabinet
- ③ Sightglass for grease
- ④ Sightglass for sludge
- ⑤ Outlet
- ⑥ Disposal connection with flange
- ⑦ Cleaning device
- ⑧ Vent
- ⑨ Manhole
- ⑩ Mixing device
- ⑪ Stop valve
- ⑫ Disposal pump

Technical Parameter

Model	Nominal size (L/S)	Inlet DN(mm)	Outlet DN(mm)	Vent DN (mm)	L1(mm)	L2(mm)	W(mm)	H1(mm)	H2(mm)	H3(mm)	H4(mm)	Weight (kg)	Volume (L)
GS-2W	2	100	100	100	2010	1710	1146	1515	1343	1095	1002	514	745
GS-4W	4	100	100	100	2010	1710	1286	1515	1343	1095	1002	547	905
GS-7W	7	150	150	100	2434	2134	1246	1902	1730	1454	1334	709	1500
GS-10W	10	150	150	100	2434	2134	1491	1902	1730	1454	1334	773	2000
GS-15W	15	150	150	100	2798	2498	1564	2102	1930	1654	1534	933	3000
GS-20W	20	150	150	100	2798	2498	1916	2102	1930	1654	1534	1027	4000

Power Supply: 380V, 50Hz Rated Power: 4.3KW

MEA HDPE Grease Separator

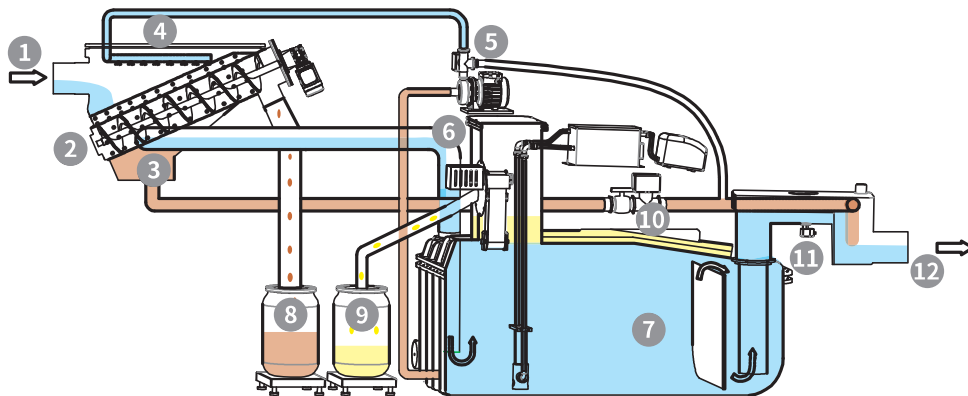
 CE Certification



Product Characteristics

- > HDPE, 12mm wall thickness, integrated molding
- > Enclosed running, no odor
- > Two stage separation, auto remove sludge
- > large sludge separation chamber, Multiple overflow points
- > Large blade spiral separation, separate 5-180mm sludge
- > Spiral device with reverse blades, squeezing function
- > Self cleaning brush, automatic flushing with high-pressure pump
- > Optional automatic oil discharge, Maximum 25L/h
- > Automatic heating, constant temperature mode
- > Automatic running through level sensor, sludge removal machine automatically reverses to prevent jamming
- > Detachable, convenient installation
- > Intelligent monitoring, automatic warning

Technical Parameter



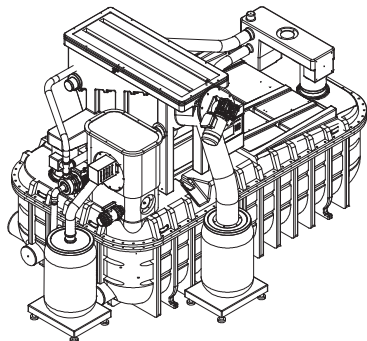
- | | | |
|----------------------------|---|-------------------------------|
| ① Inlet | ⑤ Sludge discharge & cleaning pump | ⑨ Grease drum |
| ② Sludge separator chamber | ⑥ Automatic oil removal device (optional) | ⑩ Manual and automatic valves |
| ③ Settling tank | ⑦ Grease separator chamber | ⑪ Level sensor |
| ④ Cleaning device | ⑧ Sludge drum | ⑫ Outlet |

Technical Parameter

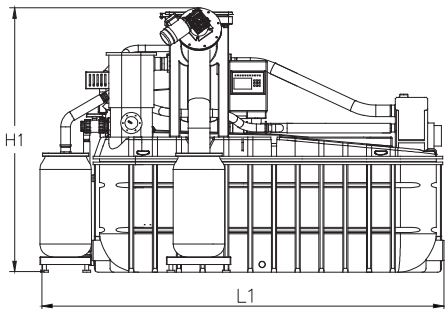
Model	GS-5H	GS-7H	GS-10H	GS-15H	GS-20H	GS-30H	GS-40H
Nominal size(L/S)	5	7	10	15	20	30	40
Inlet DN(mm)	160	160	160	160	160/200	160/200	160/200
Outlet DN(mm)	160	160	160	160	160/200	160/200	160/200
L1 (mm)	2428	2428	2428	3145	3145	5885	5885
H1 (mm)	1895	2065	2315	2065	2315	2065	2315
H2 (mm)	1705	1785	2035	1785	2035	1785	2035
W(mm)	1840	1840	1840	1900	1900	1900	1900
Volume (L)	1500	1776	2410	3620	4800	7240	9600
Empty Weight (kg)	275	295	315	387	466	720	840
Full Weight (kg)	1775	2071	2725	4007	5266	7960	10440
Min mounting size	3300*2600	3300*2600	3300*2600	4200*2900	4200*2900	6800*2900	6800*2900

Power Supply: 380V, 50Hz Rated Power: 2.93KW

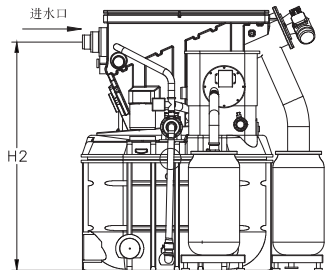
MEA GS-5/7/10/15/20H



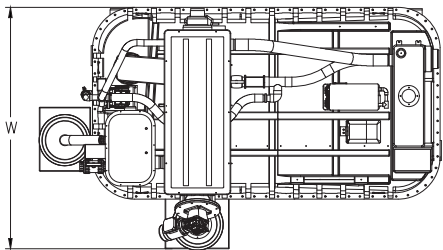
Front view



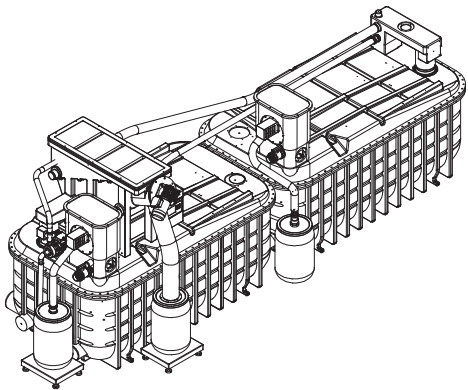
Side view



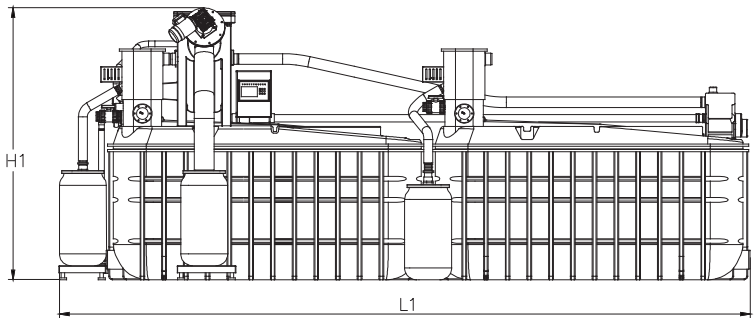
Vertical view



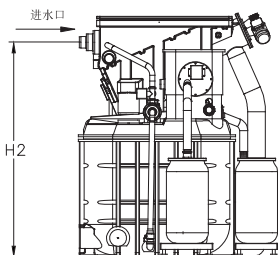
MEA GS-30/40H



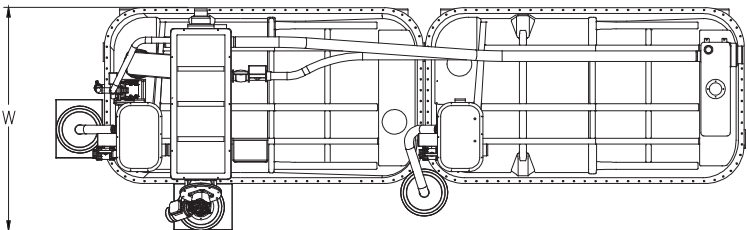
Front view



Side view



Vertical view



MEA Sewage Lifting System



Steady-Blauwal

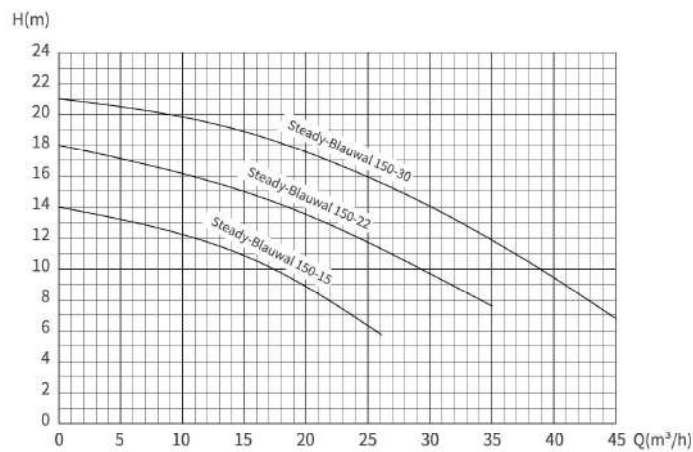
Fully enclosed automatic operation



Steady-Blauwal 150

  CE Certification

Performance Curve



Product Characteristics

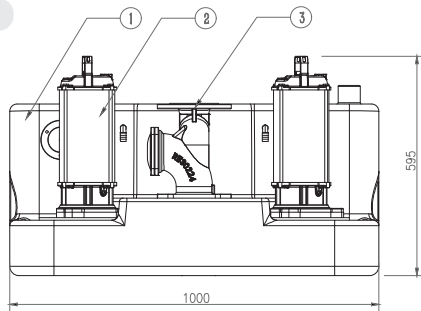
- > Air pressure/liquid level control
- > Enclosure protection level IP68
- > Large channel, non blocking
- > Multiple water inlets
- > Metal impeller
- > Control cabinet
- > Used for kitchen and domestic wastewater

Product Accessories

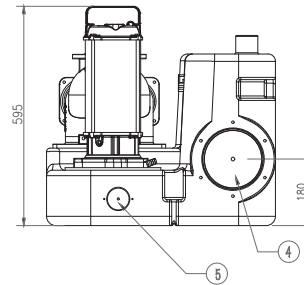
Accessories	Tank	Pump body	Impeller	Bearing	Mechanical seal	Fastenings	Seal	Non-return valve
Material	HDPE	Ductile iron	Ductile iron	SUS410	SiC	SUS304	ABS / NBR / SUS304	Valve body: grey iron HT200
Technical parameter	150L	Double pump	Swirl/Channel type	Deep groove ball bearing	Double ended	—	Ø110	DN80 (2个)

Product Size

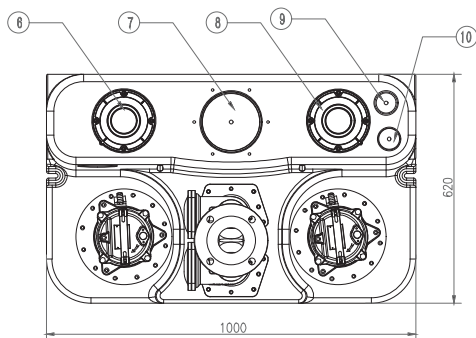
Front view



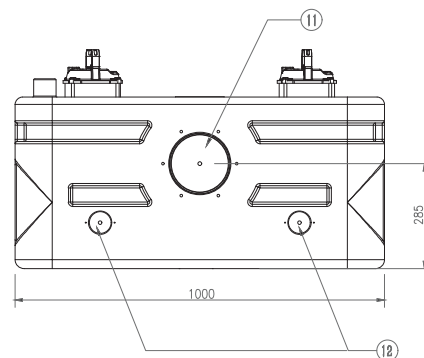
Side view



Vertical view



Rear view



- ① 150L tank
- ② Dry-Pump(2 units)
- ③ Double way two-in-one non-return valve
- ④ Side inlet DN150
- ⑤ Side inlet DN40
- ⑥ Level sensor

- ⑦ Top inlet DN150
- ⑧ Inspection hole
- ⑨ Vent DN50
- ⑩ Top inlet DN40
- ⑪ Back inlet DN150
- ⑫ Back inlet DN40

Technical Parameter

PARAMETER TABLE

Number of pumps	Double pump
Motor type	Full head dry motor
Model	Steady-Blauwal 150-15/22/30
Power Supply	380V / 50Hz
Rated Power (KW)	1.5/2.2/3.0
Revolutions Per Minute(RPM)	2950
Run mode	S3
Max number of start-stop	60
Work-temperature (°C)	40
Max work-temperature (°C)	65
Impeller type	Swirl/Channel type
Max passing size (mm)	50
Non-return valve	Double way two-in-one, DN80, PN10

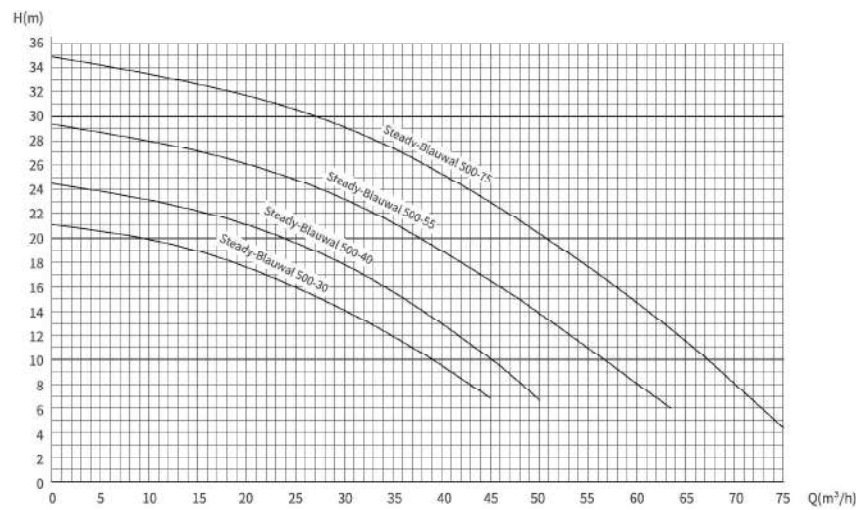
PARAMETER TABLE

Insulation level	F
Protection level(excluding control cabinet)	IP68
Protection level(Control cabinet)	IP65
Cable length (pump to control cabinet) (m)	5
Tank material	HDPE
Volume(L)	150
Number of inlets	9
Inlet diameter	DN40/DN150
Outlet diameter	DN80
Vent diameter	DN50
Weight (kg)	99/105/109
Length*Width*Height (mm)	1000X620X595

Steady-Blauwal 500

  CE Certification

Performance Curve



Steady-Blauwal 500-30/40

Product Characteristics

- > Air pressure/liquid level control
 - > Enclosure protection level IP68
 - > Large channel, non blocking
 - > Multiple water inlets
- > Metal impeller
 - > Control cabinet
 - > Used for kitchen and domestic wastewater



Steady-Blauwal 500-55/75

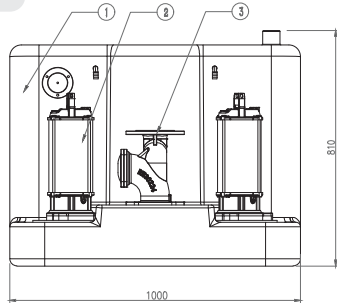
Product Accessories

Accessories	Tank	Pump body	Impeller	Bearing	Mechanical seal	Fastenings	Seal	Non-return valve
Material	HDPE	Ductile iron	Ductile iron	SUS410	SiC	SUS304	ABS / NBR / SUS304	Valve body: grey iron HT200
Technical parameter	150L	Double pump	Swirl/ Channel type	Deep groove ball bearing	Double ended	—	Ø110	DN80 (2个)

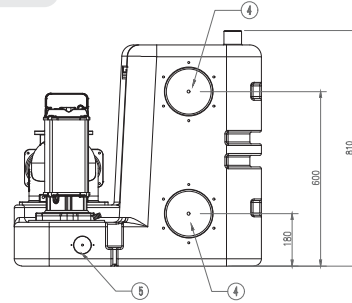
Steady-Blauwal 500-30/40

Product Size

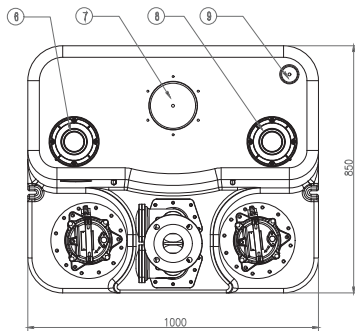
Front view



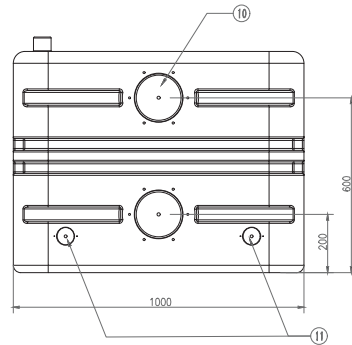
Side view



Vertical view



Rear view



- ① 500L tank
- ② Dry-Pump(2 units)
- ③ Double way two-in-one non-return valve
- ④ Side inlet DN150
- ⑤ Side inlet DN40
- ⑥ Level sensor

- ⑦ Top inlet DN150
- ⑧ Inspection hole
- ⑨ Vent DN50
- ⑩ Back inlet DN150
- ⑪ Back inlet DN40

Technical Parameter

PARAMETER TABLE

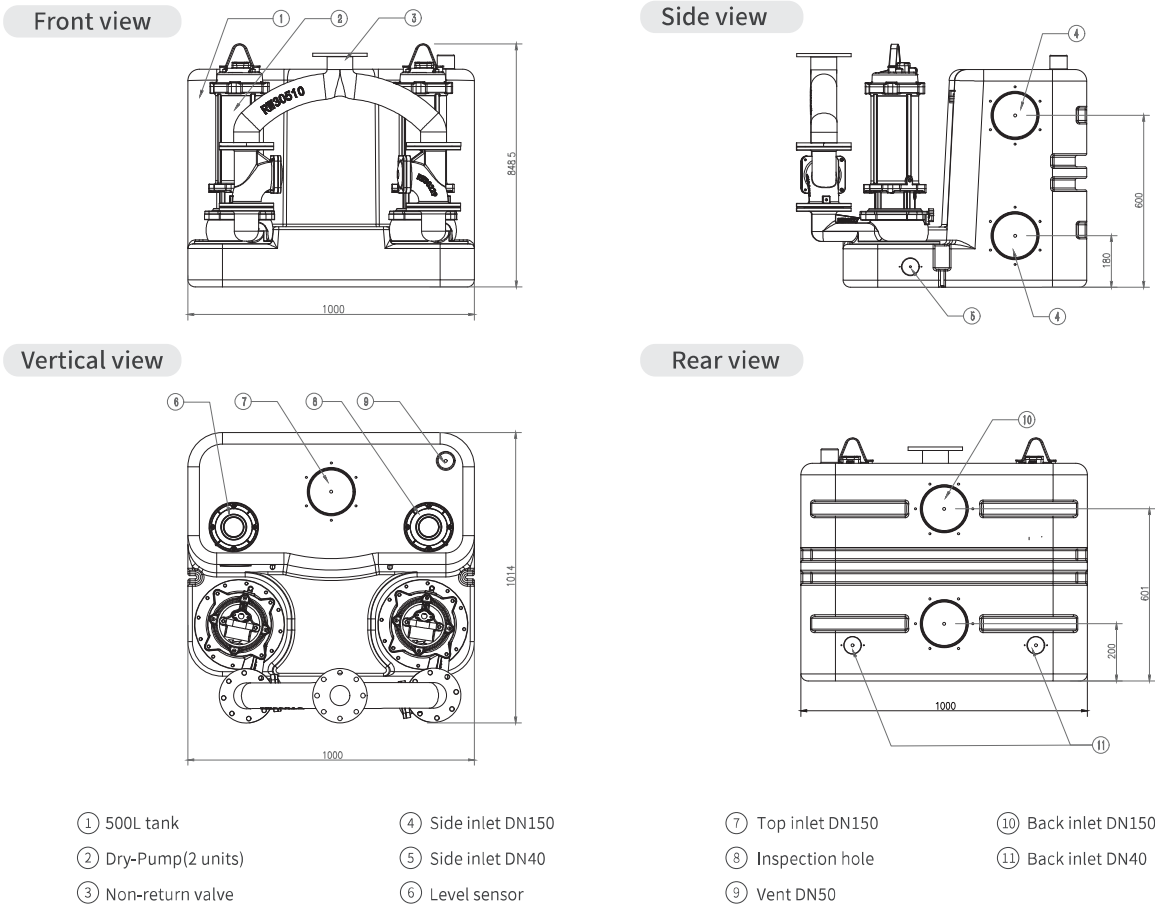
Number of pumps	Double pump
Motor type	Full head dry motor
Model	Steady-Blauwal 500-30/40
Power Supply	380V / 50Hz
Rated Power (KW)	3.0/4.0
Revolutions Per Minute(RPM)	2950
Run mode	S3
Max number of start-stop	60
Work-temperature (°C)	40
Max work-temperature (°C)	65
Impeller type	Swirl/Channel type
Max passing size (mm)	50
Non-return valve	Double way two-in-one, DN80, PN10

PARAMETER TABLE

Insulation level	F
Protection level(excluding control cabinet)	IP68
Protection level(Control cabinet)	IP65
Cable length (pump to control cabinet) (m)	5
Tank material	HDPE
Volume(L)	500
Number of inlets	11
Inlet diameter	DN40/DN150
Outlet diameter	DN80
Vent diameter	DN50
Weight (kg)	130/136
Length*Width*Height (mm)	1000X1014X848

Steady-Blauwal 500-55/75

Product Size



Technical Parameter

PARAMETER TABLE	
Number of pumps	Double pump
Motor type	Full head dry motor
Model	Steady-Blauwal 500-55/75
Power Supply	380V / 50Hz
Rated Power (KW)	5.5/7.5
Revolutions Per Minute(RPM)	2950
Run mode	S3
Max number of start-stop	60
Work-temperature (°C)	40
Max work-temperature (°C)	65
Impeller type	Swirl/Channel type
Max passing size (mm)	50
Non-return valve	DN80;PN10

PARAMETER TABLE	
Insulation level	F
Protection level(excluding control cabinet)	IP68
Protection level(Control cabinet)	IP65
Cable length (pump to control cabinet) (m)	5
Tank material	HDPE
Volume(L)	500
Number of inlets	11
Inlet diameter	DN40/DN150
Outlet diameter	DN80
Vent diameter	DN50
Weight (kg)	236/244
Length*Width*Height (mm)	1000X1014X848

Certification And Test Report



After-sales Service

Focus on product quality, care about user experience

- Equipment installation guide
- Equipment commissioning guide
- Equipment maintenance guide





Official Website

SUCCESS IN BUILDING, BUILDING SUCCESS



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