

*Give the best back to earth*

# BIOXYMOP MAX WASTEWATER TREATMENT UNIT

## FROM 51 TO 980 PE

FIXED CULTURE ON FLUIDIZED BED (IFAS)  
POLYESTER (GRP)

**6346 - 51 to 980 PE**

### 1 Technical definition

The BIOXYMOP MAX micro-stations are designed according to the aerobic submerged fixed culture process and are used to treat domestic wastewater from collective housing.

Designed to be simple and easy to install, this system guarantees the most effective treatment (CE marking).

Parameters	BOD <sub>5</sub>	COD	TSS
Discharge (mg/l)*	11	75.5	15
Yields (%)*	96	88.8	95

\*Test performed with raw water at 300 mg/L TSS, 300 mg/l BOD5 and 675 mg/l COD (in accordance with the requirements of EN12566-3+A2).

### 2 Operation

The micro-stations are composed of 3 compartments:

- Primary settling tank (1)
- Aeration basin (2)
- Clarifier (3)

Domestic wastewater arrives in the primary settling tank where the heaviest materials are retained at the bottom and the floating materials on the surface.

The pretreated effluent then passes into the aeration basin where the dissolved pollution is eliminated by the purifying bacteria attached to the free supports.

The last stage of the treatment takes place in the clarifier. The treated effluent is separated there from suspended solids. In this same compartment, two pumps enable the recirculation of sludge towards the aeration basin and the extraction of excess sludge towards the primary settling tank.

The treated effluent meets the requirements of EN12566-3 and the amended Order of 21 July 2015.

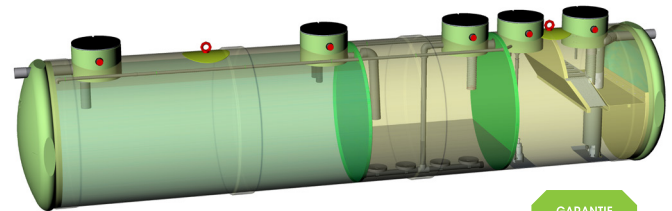
Treated wastewater can be discharged in two ways:

- by drainage and infiltration into the soil (recommended).
- by discharge into the surface water environment, subject to compliance with the technical prescriptions in force and an authorization from a research department.

### New 2022 for the entire 6346 range

- New manholes (RH602) with pre-drilled holes in DN100 (for cabling, air supply or secondary ventilation)
- New double prefilter at the outlet of the primary settling tank + easier access (new manhole)
- Optional sludge extraction kit
- Addition of a strainer at the outlet of the aeration basin and clarifier and a grid at the outlet of the manhole to retain the bacterial supports.
- D160 in and out on the whole range
- Reinforced partitions
- Easy pump installation
- New accessories for manual screening, distribution, collection
- Improved signage and traceability


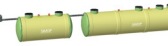


CE



GARANTIE  
CONTRE LA  
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20 ANS

### PRESENTATION OF THE WHOLE RANGE

	Capabilities	Visuals
MONOBLOC 1 single tank for the 3 compartments	60-80-100-130-200-250	
2 TANKS IN SERIES 1 tank for the particulate settling + 1 Clarification tank (aeration tank + clarifier)	160-200-250-300-360-420-490	
2 monoblocks stations in parallel 2 monoblocks in parallel	400 and 500	
2 parallel sets of 2 tanks in series 2 parallel sets of 2 tanks in series	320-400-500-600-720-840-980	

For systems > 980 PE, please contact us for a project study

**Important** 1 WWTP 6346 always consists of

- One or more GRP tanks
- One or more electromechanical kits containing pumps and blowers
- An electronic cabinet (single or double)

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**6346 - 51 to 980 PE**

# BIOXYMOP MAX 51 TO 250 PE

WITH INTEGRATED PRIMARY SETTLING TANK

## MONOBLOCK

FIXED CULTURE ON FLUIDIZED BED (IFAS)

### 1 Technical definition

Designed to treat domestic effluents, BIOXYMOP are compact, aerobic, biological purification units developed in polyester tanks, divided in three compartments : A primary decanter, followed by an aeration basin, then a clarifier equipped with lamellar blocks, with recycling and automatic extraction of the decanted sludge.

These systems are designed to guarantee a discharge into the surface water environment, in accordance with the decree of July 21, 2015, after a start-up period of the micro-station of about 1 month.

Order of 21/07/2015 for loads < 2,000 PE, as amended by the Order of August 24, 2017.

Parameters	Concentration maximum To be complied with	Performance minimum to be achieved	Concentration redhibitory
	Average daily*	Average daily*	Average daily*
BOD <sub>5</sub>	35 mg/l	60 %	70 mg/l
COD	200 mg/l	60 %	400 mg/l
TSS	-	50 %	85 mg/l

\* These performances are obtained for a biodegradable domestic effluent, under normal conditions of use, care and maintenance, in accordance with the prescriptions of the user guide.

In case of collection of effluents from collective kitchens, a grease separator must be installed upstream of the system. It is recommended to install a bar screen upstream of the system to avoid any risk of clogging of the pipes or clogging of the pumps.

### Special features of this range

- Monoblock
- Ø2300mm or 3000mm (depending on capacity)
- **Power supply in 380V**
- side channel blowers for supply of air to aeration tanks, with optional sealed housing
- Outdoor electrical cabinet on base

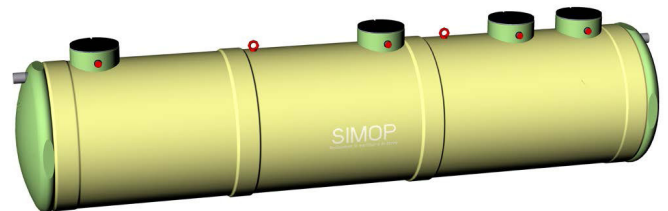
### 2 Operating principle

After separation of settleable matter in the primary clarifier, the effluent flows into the aeration tank, where the suspended bacteria, fixed on HDPE supports, are sequentially oxygenated.

Part of the sludge collected at the bottom of the clarifier is recirculated to the aeration tank. Excess sludge is returned to the primary settling tank, which must be emptied periodically.



A complete guide is available upon request.



### 3 Installation/Commissioning

The installation must be in accordance with the manual. In case of installation on hydromorphic ground or in the presence of groundwater, the water table must not exceed the outlet water line.

Fill the compartments simultaneously with clear water, in 30 cm increments, while backfilling to the same height.

After connection (water, air, electricity), a company approved by SIMOP will commission the unit, in the presence of the company that carried out the installation.

**Note** To accelerate the development of the purifying bacteria at start-up, it is recommended that the aeration compartment be seeded only with biomass from activated sludge treatment, with a volume equal to 1/3 of the activation basin.

Be careful to fill all compartments simultaneously (with clear water for the primary clarifier and the clarifier).

### 4 Maintenance

BIOXYMOP units require regular maintenance due to their electromechanical equipment and the biological process with the generation of excess sludge (linked to bacterial growth), which must be eliminated. A maintenance contract must be signed with a specialist approved by SIMOP as soon as the units is put into service. The guarantee of results, operation and electromechanical parts can only be acquired under this condition.

#### WWTP Maintenance:

- The aeration and recirculation times, pre-programmed in the factory, must be checked and adjusted, if necessary, according to the actual use of the unit.

- Floats located on the surface of the clarifier must be evacuated regularly and sufficiently to avoid any excessive accumulation.

- A draining of 2/3 of the primary clarifier must be done every 6 months by an approved drainer (period to be adjusted according to the use).

- For the maintenance of electromechanical devices, a visit (at least once a year) is necessary and is included in the maintenance contract.

# BIOXYMOP MAX 51 TO 250 PE

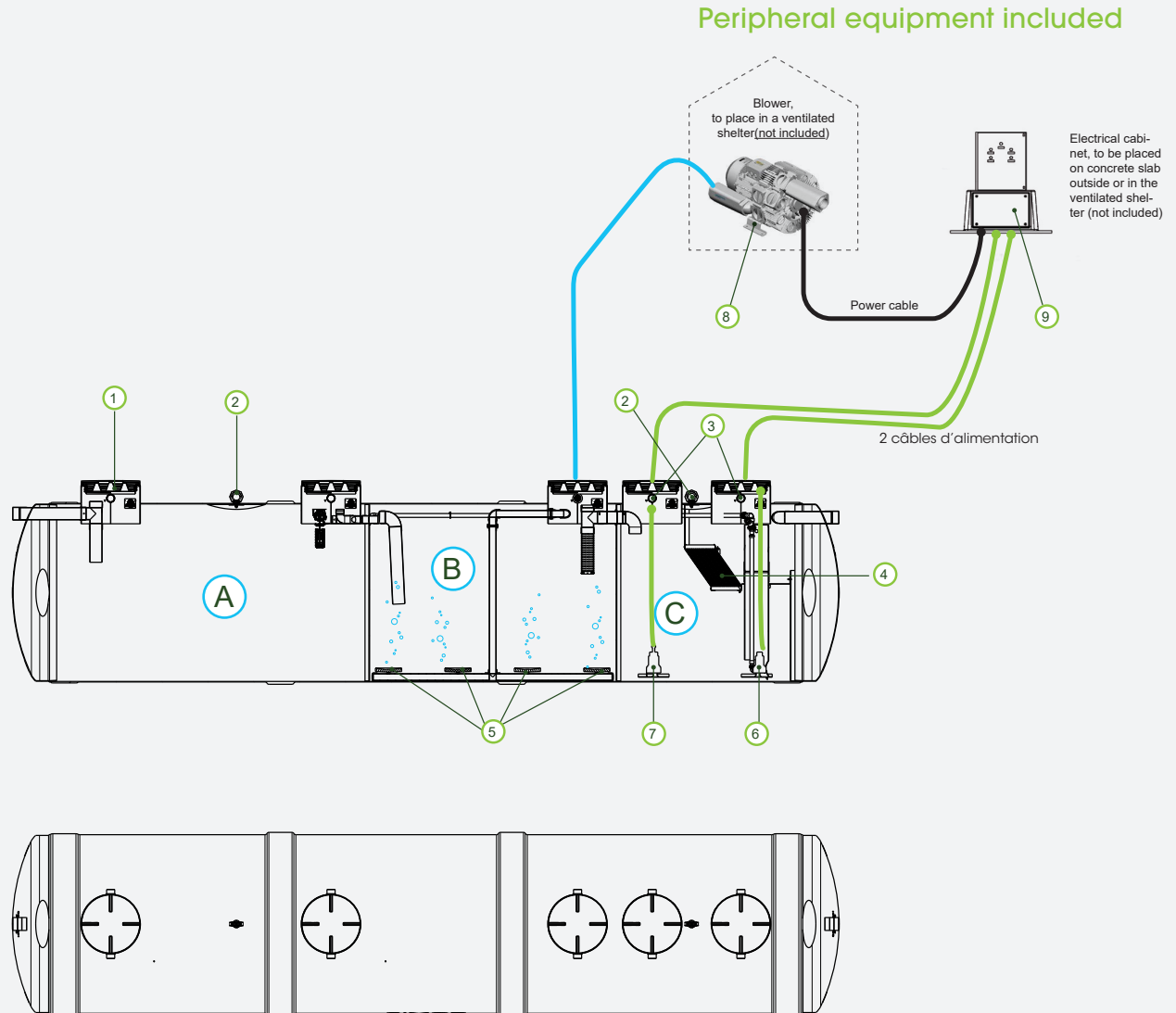
WITH INTEGRATED PRIMARY SETTLING TANK

MONOBLOCK

FIXED CULTURE ON FLUIDIZED BED (IFAS)

6346 - 51 to 980 PE

## Diagram of the unit



## Details

- Ⓐ Primary settling tank
- Ⓑ Aeration basin
- Ⓒ Clarifier

- ① Ventilation DN 100
- ② Lifting rings
- ③ Cable duct for pumps DN 100
- ④ Lamellar blocks
- ⑤ Air diffuser discs
- ⑥ Sludge recirculation pump
- ⑦ Sludge extraction pump

- ⑧ Blower
- ⑨ Standard electrical cabinet (for the power supply of the blower and the two pumps)

**OPTION:**

Screw-on extensions ref. RH602

Ø 600 and H= 250 mm (one maximum per manhole).

# BIOXYMOP MAX 51 TO 250 PE

WITH INTEGRATED PRIMARY SETTLING TANK

**MONOBLOCK**

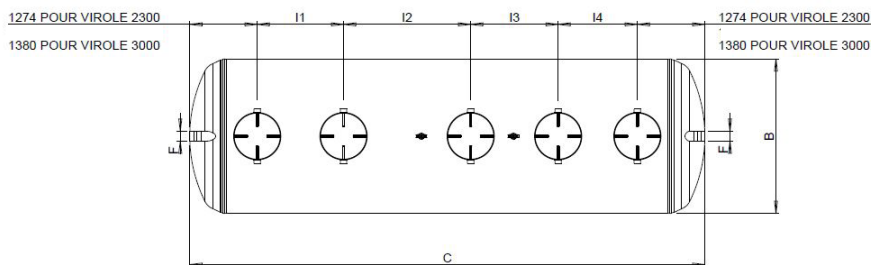
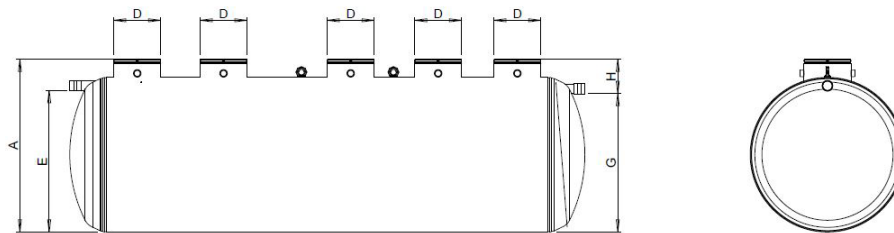
FIXED CULTURE ON FLUIDIZED BED (IFAS)

**6346 - 51 to 980 PE**

Choice of WWTP (example of the plan with 3 Manholes)

**OXYMOP MONOBLOC :**

- 51 to 250 PE
- with primary decanter and treatment system (aeration basin + clarifier) in one tank



Reference	PE	Dimensions													
		A	ØB	C	ØD	Number of Man Holes (MH)	I1	I2	I3	I4	E	F	G	H	Empty weight (Kg)
		Maximum height	Ø Max. outer shell	Maximum length	Ø passage		Position of the Man Hole (MH)				INLET WATER LINE	Ø flow	OUTLET WATER LINE	Δ A/G	Kg
Shell Ø 2300															
BIOXYMOP6346/60-23	51 to 60	2584	2330	8694	600	5	1639	2396	967	1150	2104	160	2054	530	1854
BIOXYMOP6346/80-23	61 to 80			10710			2856	3195							2270
BIOXYMOP6346/100-23	81 to 100			12545			3893	3993							2537
BIOXYMOP6346/130-23	101 to 130			16095			5585	5191							1577
Shell Ø 3000															
BIOXYMOP6346/200-30	161 to 200	3294	3040	15182	600	5	4940	4705	1422	1356	2808	160	2758	536	5128
BIOXYMOP6346/250-30	201 to 250		3040	18556			6596	5880	2065	1356					6125

	Capacities							Lifting distance
	Primary decanter compartment		Aeration basin compartment		Clarifier compartment			
	Volume m³	Mirror surface m²	Volume m³	Mirror surface m²	Volume m³	Storage m³	Mirror surface m²	
Shell Ø 2300								
BIOXYMOP6346/60-23	12.77	4.61	9.36	3.45	9.41	5	16.4	4550
BIOXYMOP6346/80-23	17.13	6.22	12.48	4.6				5900
BIOXYMOP6346/100-23	21.57	7.84	15.6	5.75				2000
BIOXYMOP6346/130-23	28.17	10.28	20.28	7.47	12	6.5	19.13	
Shell Ø 3000								
BIOXYMOP6346/200-30	44.19	12.36	31.2	8.87	18.4	10	22.52	2000
BIOXYMOP6346/250-30	55.17	15.49	39	11.09	22.67	12.5		

# BIOXYMOP MAX 51 TO 250 PE

WITH INTEGRATED PRIMARY SETTLING TANK

**MONOBLOCK**

FIXED CULTURE ON FLUIDIZED BED (IFAS)

**6346 - 51 to 980 PE**

## Station equipment

The station includes various electromechanical equipment, such as two recirculation and two extraction pumps, two side channel blowers as well as two control cabinets, in a waterproof polyester box (IP66), on a base. All technical data sheets are available in the general manual.

### Core elements of the unit:

Mandatory items per WWTP (1 GRP tank + 1 electrical kit + 1 electrical cabinet)

Station reference	PE	Electrical kit 1 blower + 2 submersible pumps + connection accessories			Electrical cabinet (see FT6339) waterproof, for outdoor installation on concrete slab	
		Reference		Quantity	Reference	Quantity
		KOXY3 without cabin for blower	KOXY3 with blower cabin			
BIOXYMOP6346/60-23	51 to 60	KOXY3/6336/2-23-1	KOXY3/6336/2-23-1/C	1	AE301/6339/2-A or AE301/6339/2-A-mono	1
BIOXYMOP6346/80-23	61 to 80		KOXY3/6336/2-23-1-mono/C			
BIOXYMOP6346/100-23	81 to 100	KOXY3/6336/3-23-1	KOXY3/6336/3-23-1/C	1	AE301/6339/3-A	1
BIOXYMOP6346/130-23	101 to 130	KOXY3/6336/4-23-1	KOXY3/6336/4-23-1/C	1	AE301/6339/4-A	1
BIOXYMOP6346/200-30	161 to 200	KOXY3/6336/1-30-1	KOXY3/6336/1-30-1/C	1		1
BIOXYMOP6346/250-30	201 to 250			1		1

### Available additional options :

SIMOP offers upstream and downstream treatment of the BIOXYMOP, as well as flow metering equipment.

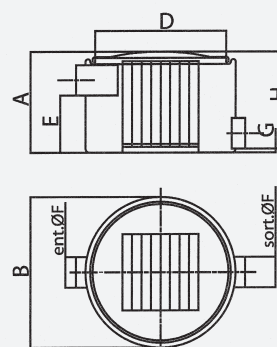
Station reference	PE	Bar screen	Metering channel (see FT6342)	Tertiary treatment by UV radiation (see FT6345)		Phosphoric treatment (see data sheet FT6343)		Sludge silos (see data sheet FT6331)
			Approach channel Venturi channel	Reference	Quantity	Reference	Quantity	
BIOXYMOP6346/60-23	51 to 60	Manual : DG2/15-160 (FT 6360)  Auto : DGI/6341/1 (FT 6341)	CANA/6342/1	AD120	1	KPO4/6343/1	1	3 references : - SBT3/6331/20 - SBT3/6331/25 - SBT3/6331/30  Optional, consult us.
BIOXYMOP6346/80-23	61 to 80		CANV/6342/1					
BIOXYMOP6346/100-23	81 to 100							
BIOXYMOP6346/130-23	101 to 130					KPO4/6343/2	1	
BIOXYMOP6346/200-30	161 to 200		CANA/6342/2					
BIOXYMOP6346/250-30	201 to 250		CANV/6342/2					

#### + Options

- Anchoring belt
- Screw-on extension RH602
- Overfill detection alarm visual and audible **ANL22/14320**
- Sludge suction kit DN80, 2 per primary clarifier: OD3/2300, OD3/2500, OD3/3000 (depending on tank diameter)
- See options for automatic bar screen and venturi channel on FT6341 and 6342

Dimensions of the manual bar screen

Reference	Technical data sheet	Dimensions in mm								Total volume (liters)
		A	Ø B	C	Ø D	E	Ø F	G	H	
DG2/15-160	6360	654	790	1090	400	278	160	28	626	160



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**6346 - 51 to 980 PE**

## BIOXYMOP MAX 131 TO 490 EH

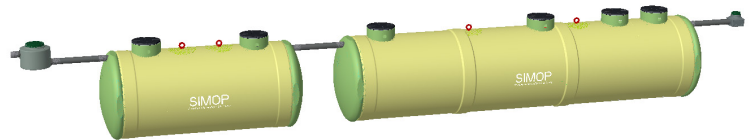
WITH SEPARATE PRIMARY SETTLING TANK

VERSION WITH 2 TANKS IN SERIES

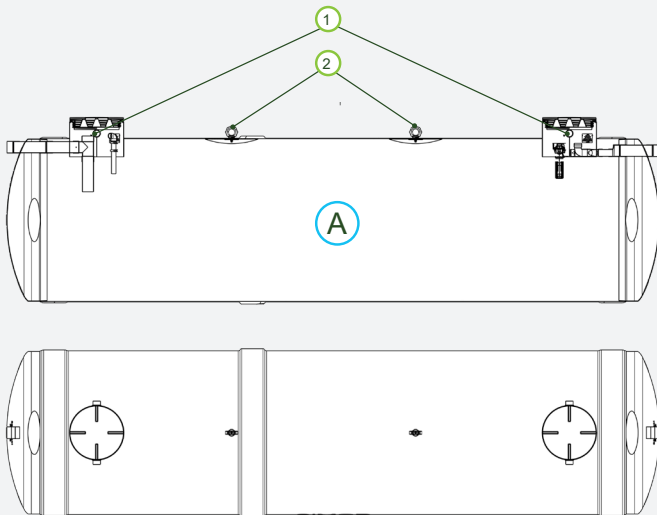
FIXED CULTURE ON FLUIDIZED BED (IFAS)

### Special features of this range

- 2 tanks in series: 1 primary settling tank then a tank containing the aeration basin and the clarifier ("BACLA")
- Ø2300mm and 3000mm
- **Power supply in 380V**
- 1 side channel blower (can be supplied in a watertight box)
- 1 Outdoor electrical cabinet on base

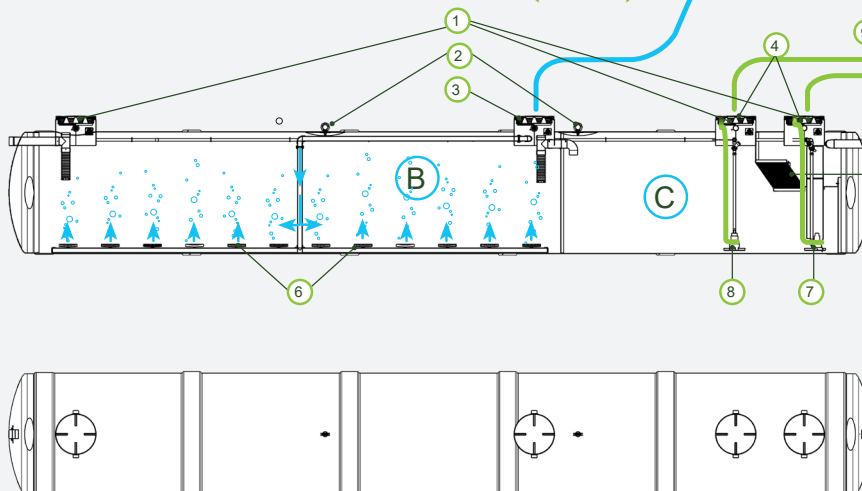


### Diagram of the primary clarifier

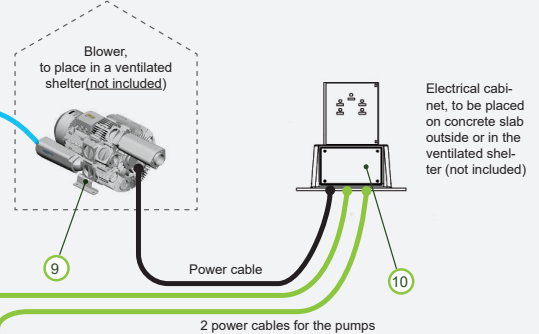


- Ⓐ Primary settling tank
- Ⓑ Aeration basin
- Ⓒ Clarifier
- ① Ventilation DN 100
- ② Lifting rings
- ③ Air supply connection (Blower)
- ④ Cable passage for pumps DN 100 (1/manhole)
- ⑤ Lamellar blocks
- ⑥ Air diffuser discs
- ⑦ Sludge recirculation pump
- ⑧ Sludge extraction pump
- ⑨ Blower
- ⑩ Standard electrical cabinet (for the power supply of the blower and the two pumps)

### Schematic of the aeration basin (Bacla)



### Peripheral equipment included



**OPTION:**  
Screw-on extensions ref. RH602  
Ø 600 and H= 250 mm (one maximum per manhole).  
See data sheet 6678.

WASTEWATER TREATMENT | WWTP > 20 PE

Update 18-6-2024

# BIOXYMOP MAX 131 TO 490 EH

WITH SEPARATE PRIMARY SETTLING TANK

VERSION WITH 2 TANKS IN SERIES

FIXED CULTURE ON FLUIDIZED BED (IFAS)

**6346 - 51 to 980 PE**

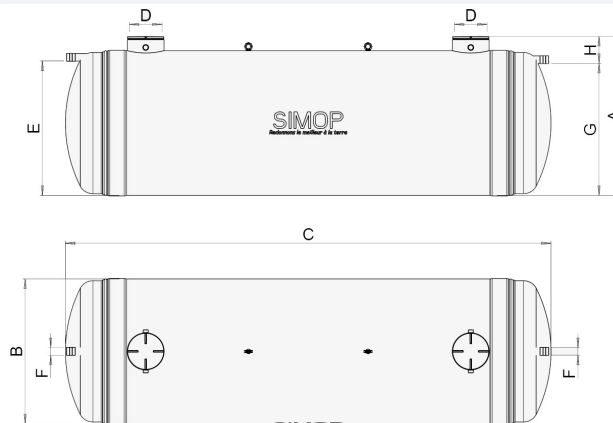
## Technical characteristics of the components

### BIOXYMOP in series:

- 131 to 490 PE

- with two dependent tanks: a settling tank and a second treatment tank (aeration basin + clarifier BACLA)

Available versions	PE	A	ØB	D	Component	Option: extension shaft (H=250mm)
	Mini/maxi	Maximum height	Max. outer shell Ø	ØPassage		
<b>Shell Ø 2300</b>						
BIOXYMOP6346/160-23	131 to 160	2584	2330	600	1 decanter + 1 aeration and clarification basin	RH602
BIOXYMOP6346/200-23	161 to 200					
BIOXYMOP6346/250-23	201 to 250					
<b>Shell Ø 3000</b>						
BIOXYMOP6346/300-30	251 to 300	3294	3040	600	1 decanter + 1 aeration and clarification basin	RH602
BIOXYMOP6346/360-30	301 to 360					
BIOXYMOP6346/420-30	361 to 420					
BIOXYMOP6346/490-30	421 to 490					



## Technical characteristics of primary decanters

Reference Primary settling tank	PE	A	ØB	C	ØD	Number of MH	E	ØF	G	H	Primary decanter compartment		Weight Kg
	Mini/maxi	Maximum height	Ø Shell	Maximum decanter length	Ø MH		INLET WATER LINE	Ø flow	OUTLET WATER LINE	Volume m <sup>3</sup>	S. to mirror m <sup>3</sup>		
<b>Shell Ø 2300</b>													
DP3/6321/35-23-2	131 to 160	2584	2314	9222	600	2	2110	160	2060	550	34.41	12.48	1228
DP3/6321/44-23-2	161 to 200			11782							43.21	15.71	1610
DP3/6321/55-23-2	201 to 250			14342							54.23	21.47	1991
<b>Shell Ø 3000</b>													
DP3/6321/66-30	251 to 300	3320	3024	10159	600	2	2808	160	2758	562	66.6	18.54	2452
DP3/6321/79-30	301 to 360			12147							79.79	22.29	2912
DP3/6321/92-30	361 to 420			14141							92.98	26.04	3373
DP3/6321/107-30	421 to 490			16456							108.37	30.42	3908

# BIOXYMOP MAX 160 TO 490 EH

WITH SEPARATE PRIMARY SETTLING TANK

VERSION WITH 2 TANKS IN SERIES

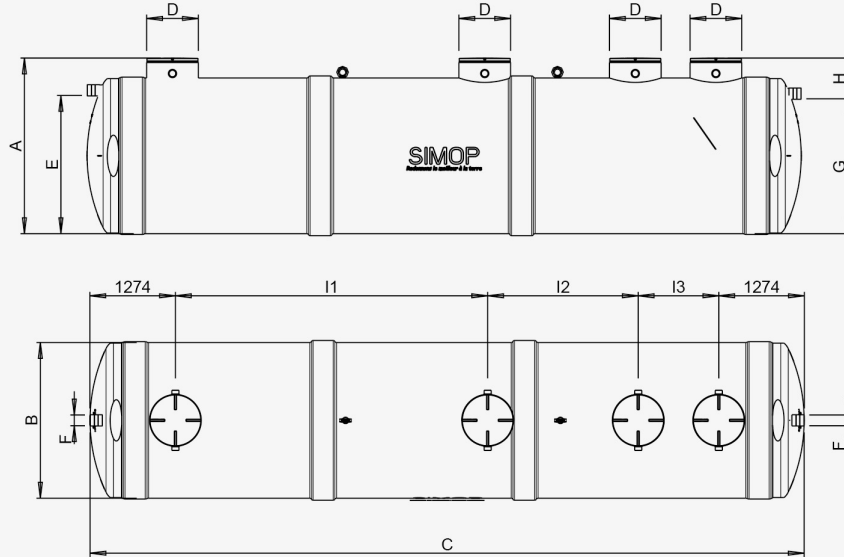
FIXED CULTURE ON FLUIDIZED BED (IFAS)

*Give the best back to earth*

**6346 - 51 to 980 PE**

Attention : the primary settling tank and the aeration basin must be sized for the same number of PE.

## Choice and dimensions of aeration basin



## Choice and dimensions of aeration basin

Reference	PE	Dimensions											
		A	ØB	C	ØD	Number of Man Holes (MH)	I1	I2	I3	E	F	G	H
		Height	Ø Sleeve max. outer	Maximum length	Ø passage		Position of the Man Hole (MH)			INLET WATER LINE	Ø flow	OUTLET WATER LINE	Δ A/G
Shell Ø 2300													
BACLA6346/160-23	131 to 160	2584	2330	10639	600	4	4650	2242	1200	2054	160	2004	580
BACLA6346/200-23	161 to 200			13121			6246	3027	1300				
BACLA6346/250-23	201 to 250			16380			8705	3827	1300				
Shell Ø 3000													
BACLA6346/300-30	251 to 300	3294	3040	11447	600	4	5192	2010	1486	2758	160	2708	586
BACLA6346/360-30	301 to 360			13499			6585	2669	1486				
BACLA6346/420-30	361 to 420			15552			7980	3263	1550				
BACLA6346/490-30	421 to 490			17947			9607	3966	1615				

	Aeration basin compartment		Clarifier compartment			Lifting distance	Weight
	Volume m <sup>3</sup>	Mirror surface m <sup>2</sup>	Volume m <sup>3</sup>	Storage m <sup>3</sup>	Mirror surface m <sup>2</sup>		
Shell Ø 2300							
BACLA6346/160-23	24.55	9	14.59	8	19.13	3200	2650
BACLA6346/200-23	30.79	11.3	18.04	10	21.87	3600	3255
BACLA6346/250-23	38.59	14.8	22.01	12.5	24.6	4800	4003
Shell Ø 3000							
BACLA6346/300-30	46.8	12.44	23.43	15	27.3	3600	4501
BACLA6346/360-30	56.16	14.93	27.85	18	27.3	5000	5217
BACLA6346/420-30	65.51	17.41	32.27	21	30.71	5000	5900
BACLA6346/490-30	76.43	20.32	37.42	24.5	34.13	3500	6552

WASTEWATER TREATMENT | WWTP > 20 PE

Update 18-6-2024



# BIOXYMOP MAX 160 TO 490 EH

WITH SEPARATE PRIMARY SETTLING TANK

VERSION WITH 2 TANKS IN SERIES

FIXED CULTURE ON FLUIDIZED BED (IFAS)

**6346 - 51 to 980 PE**

## Station equipment

The station includes various electromechanical equipment, such as two recirculation and two extraction pumps, two side channel blowers as well as two control cabinets, in a waterproof polyester box (IP66), on a base. All technical data sheets are available in the general manual.

### Core elements of the unit:

Mandatory items per unit (2 GRP tanks + 1 electrical kit + 1 electrical cabinet)

Station reference	PE	Electrical kit 1 blower + 2 submersible pumps + connection accessories		Quantity	Electrical cabinet (see FT6339) waterproof, for outdoor installation on concrete slab	
		Reference	Reference		Quantity	
BIOXYMOP6346/160-23	131 to 160	KOXY3/6336/4-23-1	KOXY3/6336/4-23-1/C	1	AE301/6339/4-A	1
BIOXYMOP6346/200-23	161 to 200	KOXY3/6336/5-23-1	KOXY3/6336/5-23-1/C	1		
BIOXYMOP6346/250-23	201 to 250	KOXY3/6336/6-23-1	KOXY3/6336/6-23-1/C	1	AE301/6339/5-A	1
BIOXYMOP6346/300-30	251 to 300	KOXY3/6336/2-30-2	KOXY3/6336/2-30-2/C	1		
BIOXYMOP6346/360-30	301 to 360					
BIOXYMOP6346/420-30	361 to 420	KOXY3/6336/4-30-1	KOXY3/6336/4-30-1/C	1	1	
BIOXYMOP6346/490-30	421 to 490					

### Available additional options :

SIMOP offers treatments upstream and downstream of the BIOXYMOP as well as flow metering equipment.

Station reference	PE	Bar screen	Metering channel (see FT6342)	Tertiary treatment by UV radiation (see FT6345)		Phosphoric treatment (see data sheet FT6343)		Sludge silos (see data sheet FT6331)
			Approach channel Venturi channel	Reference	Quantity	Reference	Quantity	
BIOXYMOP6346/160-23	131 to 160	Manual : DG2/15-160 (FT 6360)  Auto : DGI/6341/1 (FT 6341)	CANA/6342/2	AD200	1	KPO4/6343/2	1	3 references : - SBT3/6331/20 - SBT3/6331/25 - SBT3/6331/30  Optional, consult us.
BIOXYMOP6346/200-23	161 to 200		CANV/6342/2					
BIOXYMOP6346/250-23	201 to 250		CANA/6342/4 CANV/6342/4	BD200	1	KPO4/6343/3	1	
BIOXYMOP6346/300-30	251 to 300							
BIOXYMOP6346/360-30	301 to 360							
BIOXYMOP6346/420-30	361 to 420							
BIOXYMOP6346/490-30	421 to 490			1				

+ Options

- Anchor belt 10T/10M + WINCH **CA3/6394/10T**
- Screw-on extension shaft RH602 (2+4)
- Sludge suction kit DN80, 2 per primary clarifier: OD3/2300 and OD3/3000

# BIOXYMOP MAX 400 TO 500 EH

WITH INTEGRATED PRIMARY SETTLING TANK

VERSION WITH 2 MONOBLOC STATIONS IN PARALLEL

FIXED CULTURE ON FLUIDIZED BED (IFAS)

*Give the best back to earth*

**6346 - 51 to 980 PE**

## Special features of this range

- 2 monobloc tanks in parallel
- For 400 and 500 EH, in diameter 3000
- **Power supply in 380V**
- 1 single electrical cabinet for the whole station
- Suitable accessories: bar screen, distribution and collection manhole

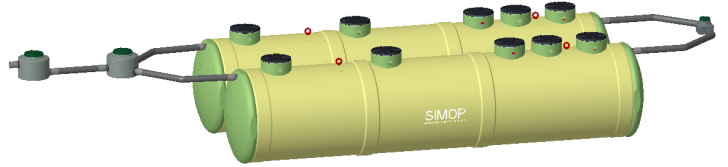


Diagram of the station: →page 5

Reference of unit	Detail
BIOXYMOP6346/400-30	2 x BIOXYMOP6346/200-30
BIOXYMOP6346/500-30	2 x BIOXYMOP6346/250-30

## Station equipment

→ See the details of the BIOXYMOP6346/200-30 and BIOXYMOP6346/250-30 monoblock on page 6

The station includes various electromechanical equipment, such as two recirculation and two extraction pumps, two side channel blowers as well as two control cabinets, in a waterproof polyester box (IP66), on a base. All technical data sheets are available in the general manual.

### Core elements of the unit:

Mandatory items per unit (2 GRP tanks + 1 electrical kit + 1 electrical cabinet)

Station reference	PE	Electrical kit			Electrical cabinet (see FT6339)	
		1 blower + 2 submersible pumps + connection accessories			waterproof, for outdoor installation on concrete slab	
		Reference	Quantity	Reference	Quantity	
BIOXYMOP6346/200-30	361 to 400	KOXY3/6336/1-30-1	KOXY3/6336/1-30-1/C	2	AE301/6339/4-AD	1
BIOXYMOP6346/250-30	491 to 500					

### Available additional options :

SIMOP offers treatments upstream and downstream of the BIOXYMOP as well as flow metering equipment.

Station reference	PE	Bar screen	Metering channel	Tertiary treatment by UV radiation (see FT6345)		Phosphoric treatment (see data sheet FT6343)		Sludge silos (see data sheet FT6331)
			(see FT6342)	Reference	Quantity	Reference	Quantity	
BIOXYMOP6346/400-30	361 to 400	Manual : DG2/15-160 (FT 6360)	Approach channel Venturi channel					3 references : - SBT3/6331/20 - SBT3/6331/25 - SBT3/6331/30
BIOXYMOP6346/500-30	491 to 500	Auto : DGI/6341/1 (FT 6341)	CANA/6342/4 CANV/6342/4	BD200	1	KPO4/6343/2	1	Optional, consult us.

+ Options

- Anchor belt 10T/10M + WINCH CA3/6394/10T
- Screw-on extension shaft RH602 (2+5)
- Sludge suction kit DN80, 2 per primary settling tank: OD3/3000

Ref distribution and collection manholes	Designation	Ø (mm)	Total height (mm)	Ø inlet / outlet (mm)
REP2/04/04	Manhole cover	400 x 400	400	100
REC2/02/13	Collection manhole	400 x 400	1300	100
REP2/160	Manhole cover	790	653.5	160
REP4/160 and REC4/160	Distribution and collection manhole without cover	1300	1077	160
Optional REP4/160/CV and REP4/160/CVG REC4/160/CV and REC4/160/CVG	CV: with green space cover CVG : with green space cover and anti-fall grid	1300	1066	160

# BIOXYMOP MAX 320 TO 980 EH

WITH SEPARATE PRIMARY SETTLING TANK

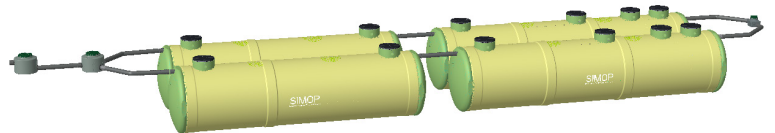
2 PARALLEL UNITS OF 2 TANKS IN SERIES

FIXED CULTURE ON FLUIDIZED BED (IFAS)

6346 - 51 to 980 PE

## Special features of this range

- For units with a capacity > 300 PE
- 2 units of 2 tanks in series
- Possibility to use only 50% of the station during low load periods
- 1 single electrical cabinet for the whole station
- Suitable accessories: bar screen, distribution and collection manhole



Diagrams and characteristics of the station : →page 8 to 10

Version reference	PE	Dimensions		Component		Option: extension shaft
		A	B	Decanter in m <sup>3</sup>	Aeration basin	
	Mini/Maxi	maximum height	Ø Outer shell max			
SHELL Ø 2300						
BIOXYMOP6346/400-23	321 to 400	2584	2330	2 x DP3/6321/44-23-2	2 x BACLA6346/200-23	RH602
BIOXYMOP6346/500-23	401 to 500	2584	2330	2 x DP3/6321/55-23-2	2 x BACLA6346/250-23	
SHELL Ø 3000						
BIOXYMOP6346/600-30	501 to 600	3294	3040	2 x DP3/6321/66-30	2 x BACLA6346/300-30	RH602
BIOXYMOP6346/720-30	601 to 720			2 x DP3/6321/79-30	2 x BACLA6346/360-30	
BIOXYMOP6346/840-30	721 to 840			2 x DP3/6321/92-30	2 x BACLA6346/420-30	
BIOXYMOP6346/980-30	841 to 980			2 x DP3/6321/107-30	2 x BACLA6346/490-30	

# BIOXYMOP MAX 320 to 980 EH

WITH SEPARATE PRIMARY SETTLING TANK

2 PARALLEL UNITS OF 2 TANKS IN SERIES

FIXED CULTURE ON FLUIDIZED BED (IFAS)

*Give the best back to earth*

**6346 - 51 to 980 PE**

## Station equipment

The station includes various electromechanical equipment, such as two recirculation and two extraction pumps, two side channel blowers as well as two control cabinets, in a waterproof polyester box (IP66), on a base. All technical data sheets are available in the general manual.

### Core elements of the unit:

Mandatory items per unit (4 GRP tanks + 2 electrical kits + 1 double electrical cabinet)

Station reference	PE	Electrical kit 1 blower + 2 submersible pumps + connection accessories			Electrical cabinet (see FT6339) waterproof, for outdoor installation on concrete slab	
		Reference		Quantity	Reference	Quantity
		KOXY3 without cabin for blower	KOXY3 with blower cabin			
BIOXYMOP6346/320-23	301 to 320	KOXY3/6336/4-23-1	KOXY3/6336/4-23-1/C	2	AE301/6339/4-AD	1
BIOXYMOP6346/400-23	321 to 400	KOXY3/6336/5-23-1	KOXY3/6336/5-23-1/C	2		
BIOXYMOP6346/500-23	401 to 500					
BIOXYMOP6346/600-30	501 to 600	KOXY3/6336/2-30-2	KOXY3/6336/2-30-2/c	2	AE301/6339/5-AD	1
BIOXYMOP6346/720-30	601 to 720					
BIOXYMOP6346/840-30	721 to 840	KOXY3/6336/4-30-1	KOXY3/6336/4-30-1/C	2		1
BIOXYMOP6346/980-30	841 to 980					

### Available additional options :

SIMOP offers treatments upstream and downstream of the BIOXYMOP as well as flow metering equipment.

Station reference	PE	Bar screen	Metering channel (see FT6342)	Tertiary treatment by UV radiation (see FT6345)		Phosphoric treatment (see data sheet FT6343)		Sludge silos (see data sheet FT6331)
			Approach channel Venturi channel	Reference	Quantity	Reference	Quantity	
BIOXYMOP6346/320-23	301 to 320	Manual : DG2/15-160 (FT 6360)  Auto : DGI/6341/1 (FT 6341)	CANVA/6342/4 CANV/6342/4	BD200	1	KPO4/6343/2	2	3 references : - SBT3/6331/20 - SBT3/6331/25 - SBT3/6331/30  Optional, consult us.
BIOXYMOP6346/400-23	321 to 400							
BIOXYMOP6346/500-23	401 to 500							
BIOXYMOP6346/600-30	501 to 600							
BIOXYMOP6346/720-30	601 to 720					KPO4/6343/3	2	
BIOXYMOP6346/840-30	721 to 840							
BIOXYMOP6346/980-30	841 to 980							

#### + Options

- Anchor belt 10T/10M + WINCH **CA3/6394/10T**
- Screw-on extension shaft RH602 (2+4)
- Sludge suction kit DN80, 2 per primary clarifier: OD3/2300 and OD3/3000

See details of the manual bar screen → ▲7

See details of collection and distribution manholes → p 12