

Compact sewage disposal unit with plastic – or steel tank.

Sanimaster PE, VA

Application

HOMA Sanimaster compact sewage disposal units are suitable for pumping sewage and waste water from areas below the sewer level (see DIN EN 12056). With their large tank volumes and high performance submersible waste water pumps they are the ideal solution for the disposal from large private, commercial or public buildings, hospitals, schools etc. The compact design allows a packed installation with minimum space requirement. The horizontal installation of the pumps ensures a deflection-free passage of the conveyed material without unnecessary pipe bends. With flanged gate valves fitted between the tank and the pumps, the twin pump unit operates even with one pump disassembled for maintenance or repair. The tanks are available in different materials with volumes from 180 up to 1000 litres.

DIN EN 12050-1: Conformity and design approved and controlled by LGA.

Pumped liquid: Clear water or drainage water, waste water or sewage containing soft solids. Max. liquid temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

Flood protected single or twin pump lifting station consisting of:

Collecting tank: Odour and gas tight tank.

Plastic tank:

Total volume 400 l, tandem installation with two tanks up to 800 l.

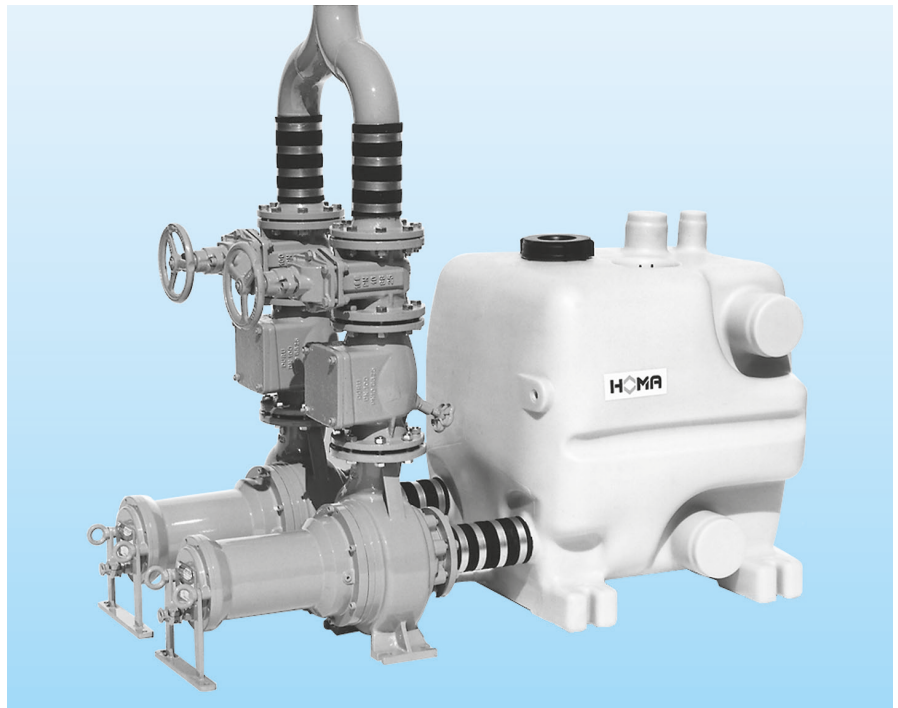
Inlets: DN 150 horizontal (3x), DN 100 vertical.

Air vent DN 70.

Connection for diaphragm pump DN 50. Cleaning cover with screw cap. Connections for pneumatic level control and float switch.

Stainless tank: Total volume 180 l up to 1000 l (larger volumes on request).

Inlet: DN 150 horizontal. Air vent DN 70. Connection for diaphragm pump BSP 1½" F. Cleaning cover with screw cap. Connections for pneumatic level control and float switch.



Pumps: Single stage sewage pumps. Horizontal installation, discharge vertical.

Impellers: Enclosed single-vane impeller (M) or vortex impeller (V).

Motors: Fully submersible, pressure tight electric motors 400-415 V / 3 Ph. Thermal sensors embedded in the winding. Insulation class H. Degree of protection IP 68. Large diameter stainless steel rotor shaft, pre-lubricated bearings.

Seals: Combination of two mechanical seals (silicon-carbide) in a separate oil chamber. Oil inspection from outside. Electronical seal probe fitted into the oil chamber on request.

Materials

Collecting tank	see tank types
Motor housing, pump housing, impeller	Cast iron EN-GJL-250
Rotor shaft, screws	Stainless steel
Seal kit	NBR

Equipment supplied

Tank with 1 pump or 2 pumps. Elastic hose connections with bands for tank inlet, connection tank-pump, air vent and diaphragm pump. 1 Elastic union piece DN 100 per pump for discharge connection (with flange DN 80 or DN 100 depending on the pump type). Pneumatic level control. Electronic control panel.

Pump types - Technical Data

Curve no.	Pump type	Motor output P ₂ (kW)	Speed (rpm)	Nominal current (A)	Weight (kg)
Discharge DN 80 / Spherical clearance 70 mm					
①	TP 70 M 13/4 D	0,9	1450	2,6	40
②	TP 70 M 16/4 D	1,3	1450	3,4	40
③	TP 70 M 26/4 D	1,9	1450	5,5	66
④	TP 70 M 31/4 D	2,4	1450	6,3	66
⑤	TP 70 M 36/2 D	2,9	2900	6,3	56
Discharge DN 100 / Spherical clearance 80 mm					
⑥	MXS 2336-D44	2,6	1450	6,2	82
⑦	MXS 2338-D44	2,6	1450	6,2	82
⑧	MXS 2340-T34	2,9	1450	5,8	118
⑨	MXS 2342-T44	3,7	1450	7,2	122
⑩	MXS 2344-T54	5,0	1450	9,9	132
⑪	MXS 2346-T64	6,5	1450	13,1	135
⑫	MXS 2328-T72	9,5	2900	18,8	120
⑬	MXS 2330-T82	11,5	2900	22,2	123
⑭	MXS 2332-P92	14,4	2900	27,0	178
⑮	MXS 2334-P102	19,6	2900	36,9	178

Voltage 400V/3Ph

Direct start (DOL) up to 4 kW, above 4 kW star-delta start

Tank types

Type	Material	Total volume ¹⁾	Operating-volume ¹⁾
PE 40	Polyethylene	400 l	220 l
PE 80	Polyethylene	800 l ²⁾	440 l
VA 18	Stainless steel 1.4301 ³⁾	180 l	80 l
VA 30	Stainless steel 1.4301 ³⁾	300 l	135 l
VA 50	Stainless steel 1.4301 ³⁾	500 l	225 l
VA 100	Stainless steel 1.4301 ³⁾	1000 l	600 l

1) Special design with larger total volume on request.

2) Two tanks in tandem installation

3) Standart version, tanks in stainless steel 1.4571 on request

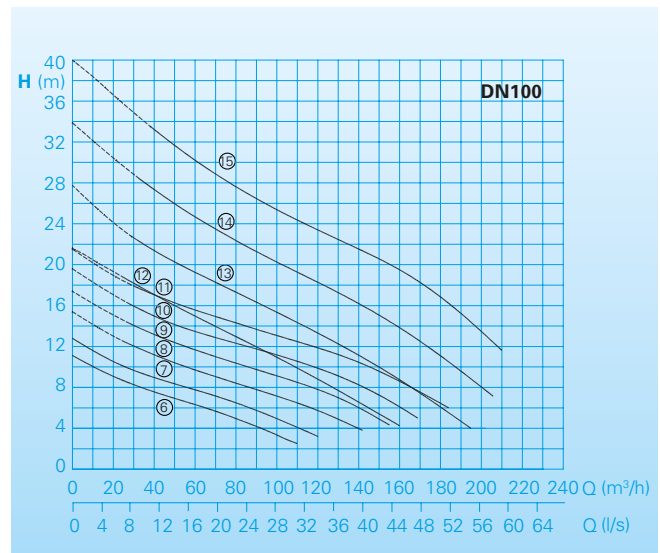
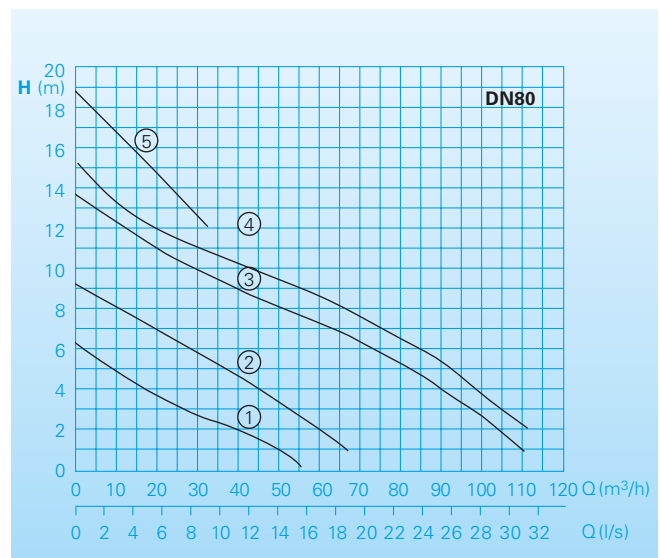
Combinations of tanks and pumps

Pump types	available in combination with tank types:					
	PE 40	PE 80	VA 18	VA 30	VA 50	VA 100
TP 70 M 13/4 D	S+T	-	S+T	S+T	S+T	-
TP 70 M 16/4 D	S+T	-	S+T	S+T	S+T	-
TP 70 M 26/4 D	S+T	-	S+T	S+T	S+T	-
TP 70 M 31/4 D	S+T	-	S+T	S+T	S+T	-
TP 70 V 36/2 D	S+T	-	S+T	S+T	S+T	-
MXS 2336-D44	S+T	T	-	S+T	S+T	T
MXS 2338-D44	S+T	T	-	S+T	S+T	T
MXS 2340-T34	S+T	T	-	S+T	S+T	T
MXS 2342-T44	S+T	T	-	S+T	S+T	T
MXS 2344-T54	S+T	T	-	S+T	S+T	T
MXS 2346-T64	S+T	T	-	S+T	S+T	T
MXS 2328-T72	S+T	T	-	-	S+T	T
MXS 2330-T82	S+T	T	-	-	S+T	T
MXS 2332-P92	S+T	T	-	-	S+T	T
MXS 2334-P102	S+T	T	-	-	S+T	T

S+T: Available as single pump station (S) with 1 pump or as twin pump station (T) with 2 pumps

T: Available only as twin pump station (T) with two pumps

Performances



Type identification chart

Series **Sanimaster** **PE 40 T** **TP70M26/4D** **Ex**

Tank material

PE = Polyethylene
VA = Stainless steel

Tank volume (liter/10)

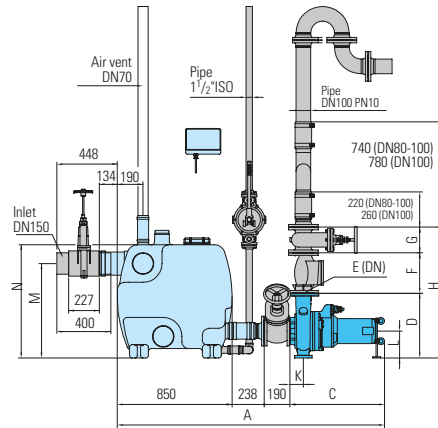
number of pumps

S = 1 pump (Single pump station)
T = 2 pumps (Twin pump station)

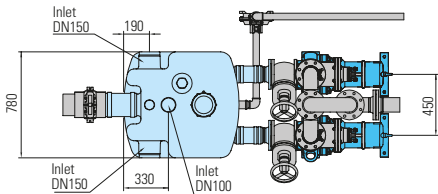
Type designation of sewage pump

With explosion proof motors (on request)

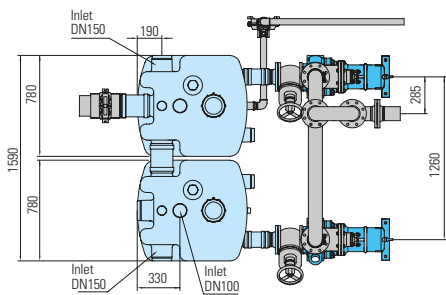
Tank types PE 40 / PE 80



PE 40 S/T



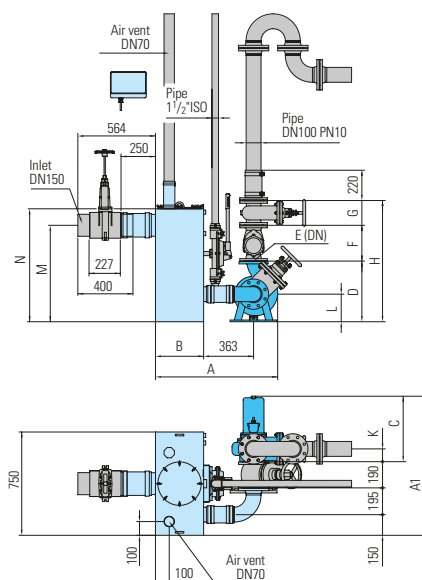
PE 80 T



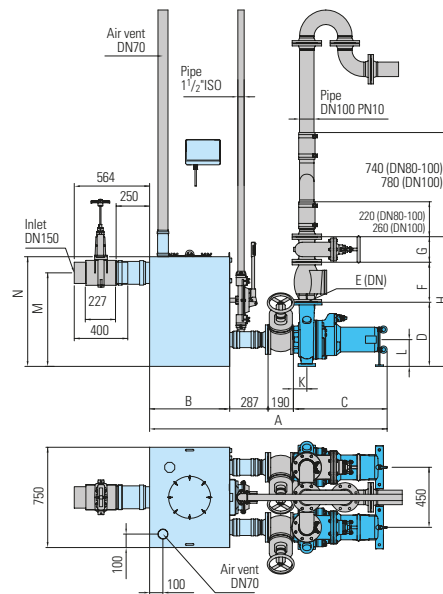
Dimensions (all dimensions in mm)

Tank type	with pump type	A	A1	B	C	D	E	F	G	H	K	L	M	N
PE 40 S-	TP 70M13 up to 16/D4	1717	-	-	435	369	80	260	180	813	90	200	700	840
PE 40 T-	TP 70M26 up to 31/4D	1758	-	-	476	440	80	260	180	884	93	200	700	840
	TP 70V 36/2D	1754	-	-	472	369	80	260	180	813	90	200	700	840
	MXS2336 up to 38/D44	1776	-	-	494	400	100	300	190	894	93	200	700	840
	MXS2340 up to 42/T(3)44	1911	-	-	629	480	100	300	190	974	100	200	700	840
	MXS2444 up to 46/T(5)64	1984	-	-	702	480	100	300	190	974	100	200	700	840
	MXS2328 up to 30/T(7)82	1977	-	-	695	400	100	300	190	894	93	200	700	840
	MXS2332 up to 34/P(7)82	2122	-	-	840	400	100	300	190	894	93	200	700	840
PE 80 T-	MXS2336 up to 38/D44	1776	-	-	494	400	100	300	190	894	93	200	700	840
	MXS2340 up to 42/T(3)44	1911	-	-	629	480	100	300	190	974	100	200	700	840
	MXS2444 up to 46/T(5)64	1984	-	-	702	480	100	300	190	974	100	200	700	840
	MXS2328 up to 30/T(7)82	1977	-	-	695	400	100	300	190	894	93	200	700	840
	MXS2332 up to 34/P(7)82	2122	-	-	840	400	100	300	190	894	93	200	700	840
VA 18 S-	TP 70M13 up to 16/D4	846	974	350	435	369	80	260	180	813	90	200	700	820
	TP 70M26 up to 31/4D	888	1015	350	476	440	80	260	180	884	93	200	700	820
	TP 70V 36/2D	846	1011	350	472	369	80	260	180	813	90	200	700	820
VA 18 T-	TP 70M13 up to 16/D4	1266	-	350	435	369	80	260	180	813	90	200	700	820
	TP 70M26 up to 31/4D	1307	-	350	476	440	80	260	180	884	93	200	700	820
	TP 70V 36/2D	1303	-	350	472	369	80	260	180	813	90	200	700	820
VA 30 S-	TP 70M13 up to 16/D4	1516	-	600	435	369	80	260	180	813	90	200	700	820
VA 30 T-	TP 70M26 up to 31/4D	1557	-	600	476	440	80	260	180	884	93	200	700	820
	TP 70V 36/2D	1553	-	600	472	369	80	260	180	813	90	200	700	820
	MXS 2336 up to 38/D44	1575	-	600	494	400	100	300	190	894	93	200	700	820
	MXS 2340 up to 42/T(3)44	1710	-	600	629	480	100	300	190	974	100	200	700	820
	MXS 2444 up to 46/T(5)64	1783	-	600	702	480	100	300	190	974	100	200	700	820
	MXS 2328 up to 30/T(7)82	1776	-	600	695	400	100	300	190	894	93	200	700	840
	MXS 2332 up to 34/P(7)82	1921	-	600	840	400	100	300	190	894	93	200	700	840
VA 50 S-	TP 70M13 up to 16/D4	1916	-	1000	435	369	80	260	180	813	90	200	700	820
VA 50 T-	TP 70M26 up to 31/4D	1957	-	1000	476	440	80	260	180	884	93	200	700	820
	TP 70V 36/2D	1953	-	1000	472	369	80	260	180	813	90	200	700	820
	MXS 2336 up to 38/D44	1975	-	1000	494	400	100	300	190	894	93	200	700	820
	MXS 2340 up to 42/T(3)44	2110	-	1000	629	480	100	300	190	974	100	200	700	820
	MXS 2444 up to 46/T(5)64	2183	-	1000	702	480	100	300	190	974	100	200	700	820
	MXS 2328 up to 30/T(7)82	2176	-	1000	695	400	100	300	190	894	93	200	700	840
	MXS 2332 up to 34/P(7)82	2321	-	1000	840	400	100	300	190	894	93	200	700	840
VA 100 T-	MXS 2336 up to 38/D44	2223	-	1250	494	400	100	300	190	894	93	200	1000	1200
	MXS 2340 up to 42/T(3)44	2358	-	1250	629	480	100	300	190	974	100	200	1000	1200
	MXS 2444 up to 46/T(5)64	2431	-	1250	702	480	100	300	190	974	100	200	1000	1200
	MXS 2328 up to 30/T(7)82	2424	-	1250	695	400	100	300	190	894	93	200	700	840
	MXS 2332 up to 34/T(7)82	2569	-	1250	840	400	100	300	190	894	93	200	700	840

Tank types VA 18 S



Tank types VA 18 T, VA 30-50 S+T, VA 100 T



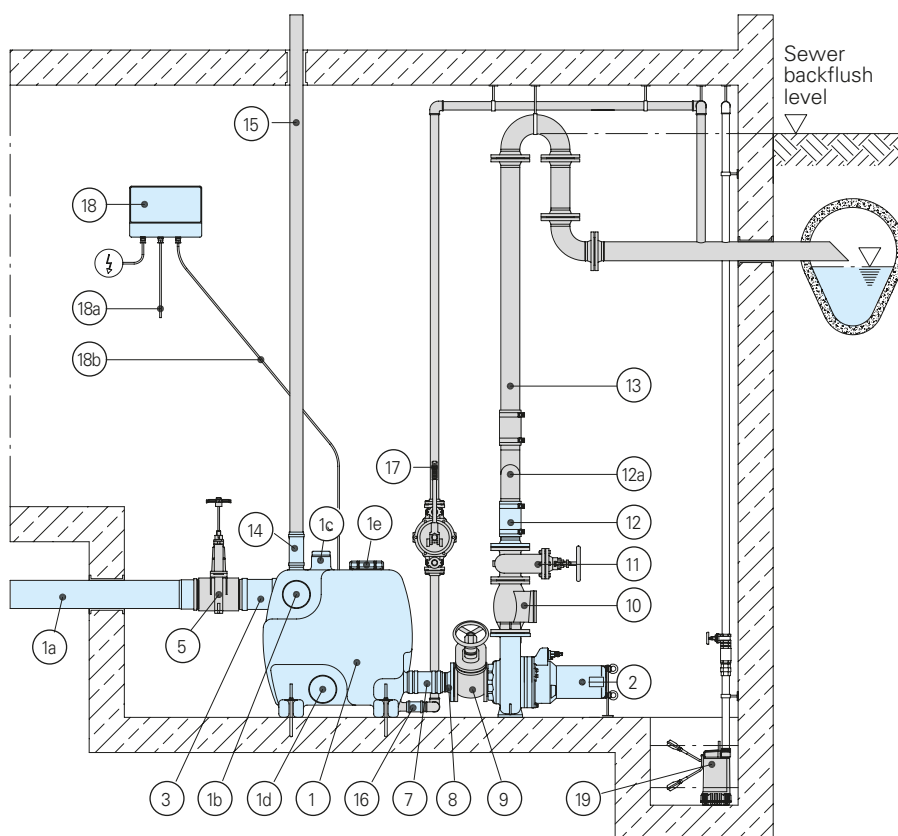
Control panel

Pneumatic level control series PS with pressure operation. Available with float switch control on request. Electronic control box for control and monitoring of all main functions.

- Plastic housing IP 54 (DOL start) IP65(star-delta-start)
- Motor protection
- Motor contactor resp. star-delta-combination
- Motor fuses (only star-delta-star)
- Manual-0-automatic switch
- Pilot lights for operation, direction of rotation, alarm and faults
- Volt free contact for remote signal
- Mains-operated alarm with buzzer
- Mains-independent alarm with battery charger for storage battery 9V
- Temperature control of the pump-motors
- Power voltage 400-415 V / 3Ph
- Control voltage 230-240 V / 1Ph
- Twin pump station control panel additionally with auto-change over after each pump cycle, operation of second pump at high flow, automatic change to stand by pump in case of pump failure.

On request available with HCON-Control Panel (see accessories).

Installation



Accessories

Part Description	Dim.	Part No.	Part Description	Dim.	Part No.	Part Description	Dim.	Part No.
① Collecting tank		*	⑩ Flanged swing check valve with gasket and screws, cleaing cover andaeration fixture	DN 80 DN 100	2212807 2212809	⑭ Elastic union pipe for air vent pipe	DN 70	*
①a Horizontal inlet	DN 150		⑪ Flanged gate valve with gasket and fixing bolts, discharge pipe PN 10	DN 80 DN 100	2216080 2216100	⑮ Air vent pipe	DN 70	on request
①b Alternative horizontal inlet/upper tank connection	DN 150		⑫ Flanged elastic piece with gasket and screws PN 10,	DN80 DN80/100 DN100	2159021 ** **	⑯ Elastic union piece with gasket and screws	BSP1 1/2"	*
①c Vertical inlet	DN 100		⑫a Flanged union piece with gasket and screws for twin pump station PE 40	DN80/ 80 DN80/100 DN100/100 DN100/150	2155080 2155081 2155100 2155150	⑰ Diaphragm pump	BSP1 1/2" M 8502455	
①d lower tank connection	DN 150		ditto fo twin pump station PE80	DN100/100 DN100/150	2155200 2155205	⑱ Control panel with pneumatic or float switch level control		*
①e Cleaning cover			⑬ Flanged discharge pipe consisting of:			⑱a Power cable for pump motor		*
② Sewage pump		*	– Flanged FF-piece, gasket and screws	DN 80 DN 100 DN 150	2152081 2152201 2152251	⑱b Pneumatic pressure hose		*
③ Elastic hose connector inlet	DN 150	*	– additional m	DN 80 DN 100 DN 150	2150080 2150100 2150150	⑲ Submersible drainage pump series		see individual leaflet
⑤ PVC-inlet valve	DN 100 DN 150	2214110 2214160	– 90° flanged elbow with gasket and screws	DN 80 DN 100 DN 150	2153302 2153303 2153353	Chromatic, H 117 or TP 28		
⑦ Elastic hose connector	DN 100	*	– 180° flanged elbow with gasket and screws	DN 80 DN 100 DN 150	2153401 2153403 2153453			
⑧ Flanged pipe socket	DN 100	*						
⑨ Flanged gate valve with gasket and fixing bolts, pump inlet PN 10	DN 100 DN 150	2216100 2216150						

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