

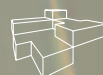


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DEPURBOX Series Domestic sewage treatment systems



Lowara



ITT Industries
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DEPURBOX SERIES

ADVANTAGES:

- Extremely high purification efficiency, for safe discharge into surface waters or ground.
- Highly resistant and compact system (quick to install, very small dimensions).

MARKET SECTORS

RESIDENTIAL



Example of installation

APPLICATIONS

- Disposal of domestic sewage where a public sewer system is not accessible.

SPECIFICATIONS

- Depurbox is a range of compact, **activated sludge** treatment systems that enable discharge of domestic sewage in accordance with EEC Directive 91/271.
The treated effluent can thus be discharged directly into the **sewer system** or into **surface waters** or **ground** (with an optional tertiary treatment).
- The system consists of:
a one-piece basin made of **fibreglass-reinforced polyester resin**, featuring three separate chambers corresponding to the three stages of the treatment process: **primary settlement, oxygenation** and **secondary settlement**;
a **Domo 7 VX single-phase electric pump** with Vortex impeller for effluent handling and oxygenation;
a **Venturi** oxygenation system which, together with the electric pump, ensures a typical treatment efficiency of **90%**;

- a **timer** for setting the required operating cycles; DN 100 inlet and outlet piping.
- Three sizes available:
Depurbox Base, up to 5 population equivalent;
Depurbox Maxi, featuring a separate primary settlement tank;
Depurbox Duo, with separate double tank and primary settler.
- **Quick and easy installation**: just prepare the excavation, position Depurbox, make the hydraulic and electrical connections (single-phase), then complete the burial by positioning the external air intake and inspection accesses.
- **Easy maintenance**: just check the condition of the sludge at periodic intervals and, if necessary, empty out the basin.

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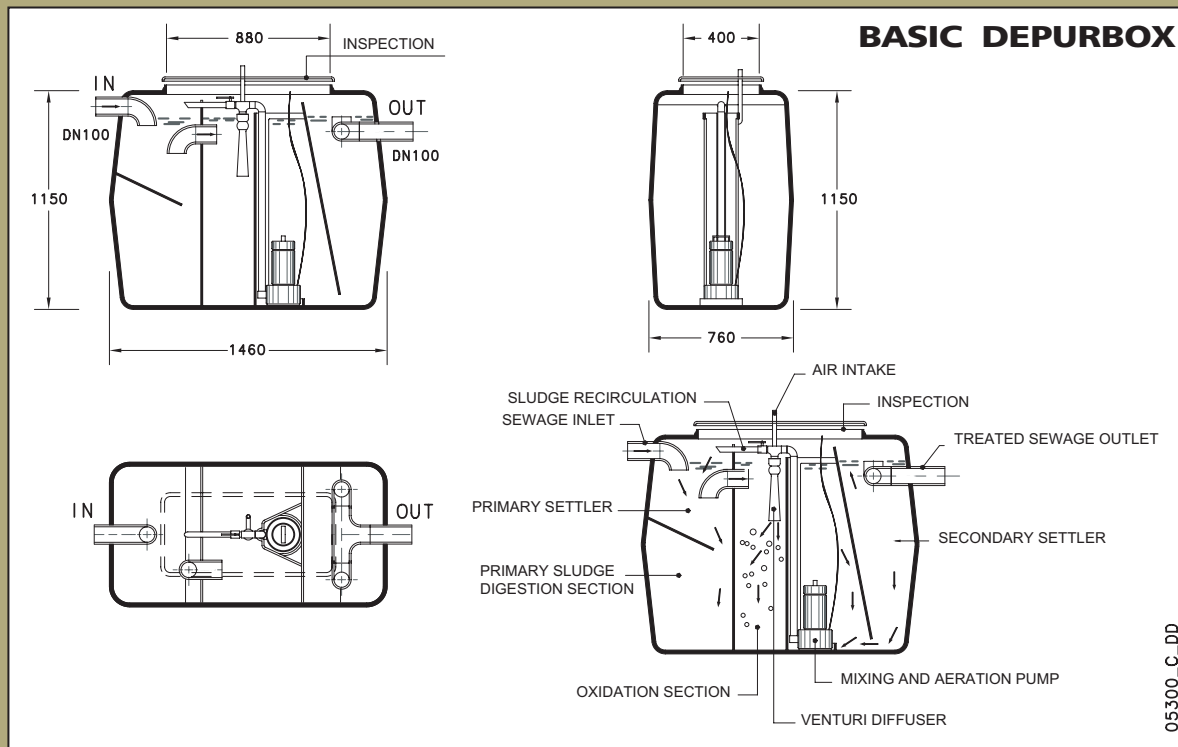
DEPURBOX TABLE

OPERATING PARAMETERS	Unit of measurement	MODEL		
		BASIC	MAXI	DUO
Type of premises		RESIDENTIAL		
Number of inhabitants (Population Equivalent)	up to	5	10	20
Per capita water supply	litres/head/day	200		
Daily discharge volume	m ³	1	2	4
Total useful volume	litres	1150	2050	3770
Primary settlement volume	litres	200	900	1470
Oxidation-nitrification volume	litres	750	950	1900
Secondary settlement volume	litres	200	200	400
Primary settlement time	hours	~ 1	~ 2	~ 2
Secondary settlement time	hours	> 2		
Settlement rising speed	m/h	0,3		
Average flow per hour	l/h	60	125	250
Maximum flow per hour	l/h	120	250	500
Pump power	W	550	550	1100
Daily organic load	kgBOD ₅ /day	0,3	0,6	1,2
Volumetric organic load	kgBOD ₅ /m ³ day	0,4	0,63	0,63
Supplied oxygen factor	kgO ₂ /kgBOD ₅	> 2,5		
Organic pollution	gBOD ₅ /head/day	60		
BOD ₅ concentration (outlet)	mg/l	< 30		
Treatment efficiency	%	90		

SUBSTANCE	MAXIMUM ADMISSIBLE CONCENTRATION IN WASTEWATER	
Ammonia nitrogen	mg/l	25
Nitric nitrogen	mg/l	25
Inlet BOD ₅ concentration	mg/l	300
Inlet COD concentration	mg/l	600
Phosphorus	mg/l	10
Fats	mg/l	20+30
pH	-	6 - 8
Total suspended solids	mg/l	300
Total surface-active agents	mg/l	10

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DIMENSIONS AND VERSIONS

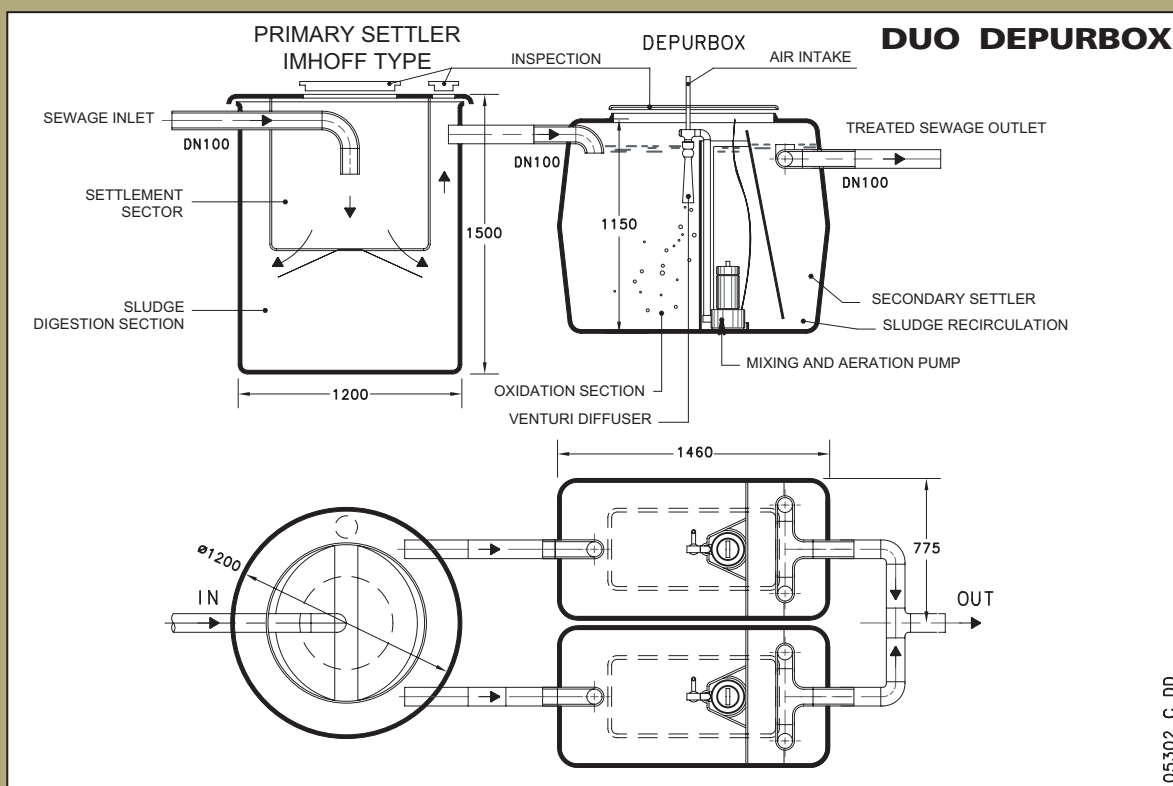
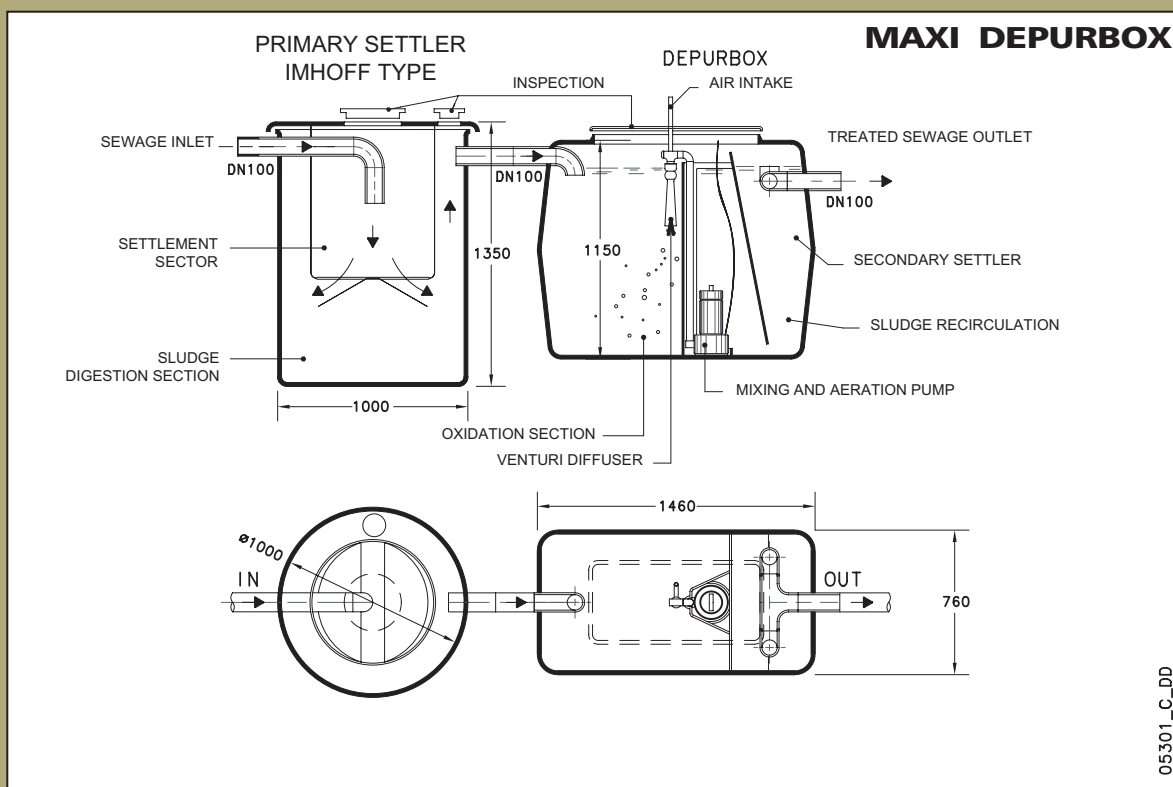


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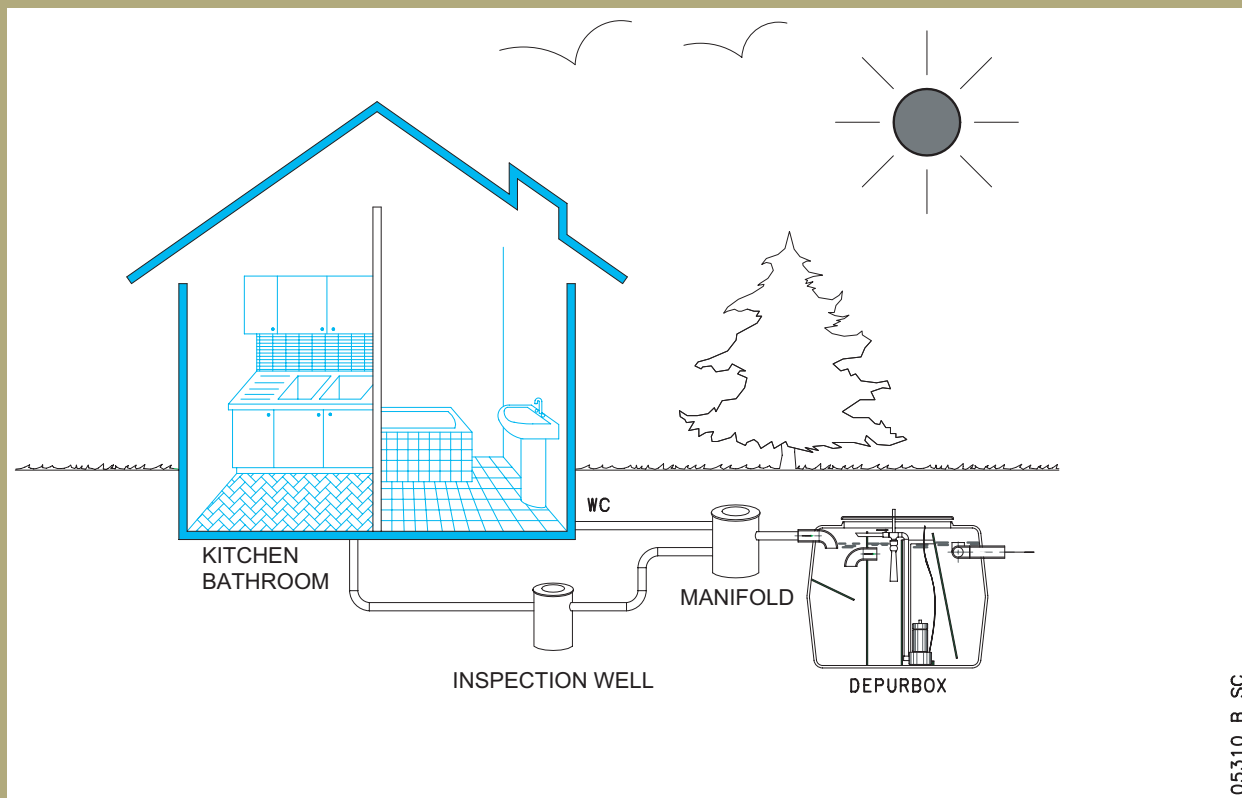
DIMENSIONS AND VERSIONS



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INSTALLATION EXAMPLE



NOTES:

- Adequate housing must be provided if the installation is to withstand foot traffic.
- If necessary, a Singlebox or Doublebox-type lifting station can be installed downstream or upstream of the system.



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