



DEHOUST
ENERGY. HEAT. WATER.

Technical Data Sheet

DEHOUST GWtec® 140, 240, 340, 440, 540, 640

Greywater treatment plants for greywater reuse





Greywater Connect Type		DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Dimensions / weights / volumes	Article No.	813371	813372	813373	813374	813392	813393
	Treatment capacity Litre/day	3000 – 5000	10000	15000	20000	25000	30000-35000
	Number of persons	100	200	300	400	500	600
	Effective volume of service water tank (Litre)	3000	4000	2 x 4000	3 x 4000	5 x 4000	7 x 4000
	Effective volume of greywater tank (Litre)	3000	4000	2 x 4000	3 x 4000	6 x 4000	8 x 4000
	Dimensions (mm)	4850x2720x1920	Variant A: 5750x2900x2250 Variant B: 5050x2900x2250	Variant A: 9000x2920x2250 Variant B: 8200x2920x2250	Variant A: 12000x2920x2250 Variant B: 10500x2920x2250	Variant B: 17730x2920x2250	Variant B: 22600x2920x2250
	Required clearance above tank (mm)		At least 700				
	Noise level (dB)		max. 48 dB(A)				
	Total weight (kg)	946	1287	2056	2921	4727	6256
	Total weight when filled (kg)	8446	11287	20556	30922	54724	74256
Technologies	Greywater tank prefilter (mm)		MAX coarse filter 0.5				
	Filter material		Hollow fibre membrane filter / PESM membrane surface				
	Membrane filter pore size (nm)		20				
	Filtration stage		Ultrafiltration				
	Free outlet		Type AB				
	Mains water make-up		acc. to DIN EN 1717				
	Mains water make-up category		5				
	Rainwater make-up		optional				
	Plant controller		Fully automatic with real-time access				
Electrical data	Network connection		yes				
	Condition for network connection		Stable connection without firewall				
	Voltage supply (fusing)		400 V / 50 Hz / 16 A				
	Power input (W)	2310	2440				
	Current input (A)	5.9	6.2				
	Energy use/consumption (kWh/m³)		0.5				
	Floating output		yes				
	Pressure booster		optional (DPA 14-40 Connect)				
	Pressure booster power input (W)		2960				
	Pressure booster voltage supply (fusing)		230 V / 50 Hz / 16 A				
	Class of protection:		IP 54				
	Insulation class		F				



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Connections	Article No.	813371	813372	813373	813374	813374	813393
	Connection cable (m)	Fixed connection					
	Rainwater make-up connection	1 ¼ "					
	Mains water make-up connection	1" IT					
	Inlet/overflow connections	DN 100					
	Tank drain connection	1 ½" IT					
	Coarse filter backwash connection	1" OT					
	Backwash IN	1 ¼" IT					
	Backwash OUT	1 ¼" IT					



- ▶ All GWtec® units must be installed in a dry, frost-free and ventilated technical room.
- ▶ The maintenance requirements according to DIN EN 16941-2 must be observed.
- ▶ Outside Europe, the Country-specific regulations, standards and laws must be observed as a matter of priority!

Please, use our digital service in this PDF document:



You can find drawings of the system configurations of the different variants on our website www.dehoust.com - click on the symbols below to go directly there.

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Article No.	813371	813372	813373	813374	813392	813393
Direct link to the system configurations on our website						



Water quality of treated greywater GWtec®

Example of guideline values for bacteriological monitoring according to EN 16941-2

Parameter CFU/100 ml	Spray application	Non-spray application			Test method		System type
	Pressure washing, garden sprinkling and car wash	WC- flushing	Garden watering	Laundry, i.e. clothes washing machine use	Spray application	Non-spray application	
Escherichia coli	Not detected	250	250	Not detected	EN ISO 9308-1	EN ISO 9308-3	Single site and communal domestic systems
Intestinal enterococci	Not detected	100	100	Not detected	EN ISO 7899-2 or EN ISO 7899-1	EN ISO 7899-1	Single site and communal domestic systems
Legionella pneumophila	10	N/A ¹	N/A	N/A	EN ISO 11731	N/A	Where analysis is necessary as indicated by risk assessment
Total coliforms ²	10	1 000	1 000	10	EN ISO 9308-1	EN ISO 9308-3	Single site and communal domestic systems



Country-specific regulations, standards and laws must be observed as a matter of priority!

¹ N/A = not available

² "Total coliforms" is an indicator parameter for operational interpretation. The bacteriological guideline values given for treated greywater reflect the need to control the quality of treated water for supply and use.



Water quality of treated greywater GWtec®

Example of values for general system monitoring according to EN 16941-2

Parameter ³	Spray application	Non-spray application			Test method	System type
	Pressure washing, garden sprinkling and car wash	WC-flushing	Garden watering	Laundry, i.e. clothes washing machine use		
Turbidity (NTU)	< 10,0	< 10,0	N/A	< 10	EN ISO 7027-1	All systems
pH	5 bis 9,5	5 bis 9,5	5 bis 9,5	5 bis 9,5	EN ISO 10523	All systems
Residual chlorine (mg/Litre)	< 2,0	< 2,0	< 5,0	< 2,0	EN ISO 7393-2	All systems, when used
Residual bromine (mg/Litre)	0,0	< 5,0	0,0	< 5,0	EN ISO 10304-1	All systems, when used



Country-specific regulations, standards and laws must be observed as a matter of priority!

³ In addition to these parameters, all systems should be checked for suspended solids and colour. The treated greywater should be visually clear, free from floating debris and not objectionable in colour for all uses. Colour is particularly relevant for washing machine use.

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The country-specific approvals and installation regulations must be complied with.



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