



DEHOUST
ENERGY. HEAT. WATER.

Technical Data Sheet

DEHOUST GWtec® 140, 240, 340, 440, 540, 640 Greywater treatment plants for greywater reuse



Certified to
NSF/ANSI 350





Dimensions / Weights / Volumes

Greywater Connect Type	DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Article No.	825070	825071	825072	825073	825074	825075
Treatment capacity GPD	792 – 1,321	2,642	3,962	5,283	6,604	7,925 – 9,246
Number of persons	100	200	300	400	500	600
Effective volume of service water tank (gal)	792	1,057	2 x 1,057	3 x 1,057	5 x 1,057	7 x 1,057
Effective volume of greywater tank (gal)	792	1,057	2 x 1,057	3 x 1,057	6 x 1,057	8 x 1,057
Dimensions (W/H/D)	15'11" / 6'4" / 8'11"	Variant A: 18'10" / 7'5" / 9'6" Variant B: 16'7" / 7'5" / 9'6"	Variant A: 29'6" / 7'5" / 9'6" Variant B: 26'11" / 7'5" / 9'6"	Variant A: 39'4" / 7'5" / 9'6" Variant B: 34'5" / 7'5" / 9'6"	Variant B: 58'2" / 7'5" / 9'6"	Variant B: 74'2" / 7'5" / 9'6"
Direct link to the system configurations on our website		 	 	 		
Required clearance above tank (in)	At least 28"					
Noise level (dB)	max. 48 dB(A)					
Total weight (lb)	2,085	2,837	4,533	6,440	10,421	13,792
Total weight when filled (lb)	18,620	24,883	45,318	68,171	120,646	163,706

Technology

Greywater Connect Type	DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Greywater tank prefilter (in)	MAX coarse filter 0.02					
Filter material	Hollow fiber membrane filter / PESM membrane surface					
Membrane filter pore size (nm)	20					
Filtration stage	Ultrafiltration					
Free outlet	Type AB					
Mainswater make-up	acc. to DIN EN 1717*)					
Mainswater make-up category	5*)					
Rainwater make-up	optional					
Plant controller	Fully automatic with real-time access					



*) **Backflow protection (potable make-up):** EN 1717 Category 5 (air gap) – incorporated in NSF/UL certification; equivalent to ASME A112.1.2 (US). This ensures that the public water supply is protected.



Connection requirements

Greywater Connect Type	DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Article No.	825070	825071	825072	825073	825074	825075
Connection cable	Fixed connection					
Rainwater make-up connection	1 ¼" IT					
Mains water make-up connection	1" IT					
Inlet/overflow connections	4"					
Tank drain connection	1 ½" IT					
Coarse filter backwash connection	1" ET					
Backwash IN	1 ¼" IT					
Backwash OUT	1 ¼" IT					

Electrical Data

Greywater Connect Type	DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Network connection	yes					
Condition for network connection	LAN or WLAN stable connection without firewall					
Voltage supply (fusing)	120/240 V / 60 Hz / 16 A					
Power input (W)	2310		2440			
Current input (A)	5.9		6.2			
Energy use/consumption (BTU/ft³)	48,28					
Floating output	yes					
Pressure booster	optional (DPA 14-40 Connect)					
Pressure booster power input (W)	2960					
Pressure booster voltage supply (fusing)	120 V / 60 Hz / 16 A					
Class of protection:	IP 56					
Insulation class	F					



- ▶ All GWtec® units must be installed in a dry, frost-free and ventilated technical room or containerized solution.
- ▶ The installation and maintenance requirements according to ANSI/NSF 350 C and UL979 must be observed.



ANSI/NSF-Standard 350 Classification

Greywater Connect Type	DEHOUST GWtec®140	DEHOUST GWtec®240	DEHOUST GWtec®340	DEHOUST GWtec®440	DEHOUST GWtec®540	DEHOUST GWtec®640
Article No.	825070	825071	825072	825073	825074	825075
Building types	Class C: multi-family and commercial / type: laundry & bathing					
Types of wastewaters treated (influent)	Greywater, Laundry and bathing					
Uses of treated water (effluent)	Non-potable indoor use and irrigation applications					

Service water quality for GWtec® model series

Effluent criteria for Class C classification according to ANSI/NSF Standard 350

Measure		Class C	
		Test average	Single sample maximum
CBODs	mg/L	10	25
TSS	mg/L	10	30
Turbidity	NTU	2	5
Escherichia coli ¹	MPN/100 mL	2.2	200
pH	SU	6.0 to 9.0	N/A ²
Storage vessel disinfection	mg/L	≥ 0.5 to ≥ 2.5	N/A
Color		MR ³	N/A
Odor		MR	N/A
Oily film and foam		Not detectable	Not detectable
Energy consumption		MR	N/A



Throughout the testing process, the Dehoust GWtec systems complied with all specified target values, consistently performing better than required by staying below the prescribed limits. The NSF product listing is publicly available on the NSF website.



LRT's (Log-Reduction-Targets) of Blue-Ribbon Commission are not part of this overview.

¹ calculated as geometric mean

² N/A = not applicable

³ MR = measured and reported only, there is no criteria requirement for these values



Explanation of signs and abbreviations

<	Less than
>	Greater than
®	Registered Trademark
A	Ampere
BTU	The BTU (British Thermal Unit) is a unit of measurement that indicates the amount of energy required to raise the temperature of one pound of water by one degree Fahrenheit.
dB	Decibel
EG	External thread (female)
ft	Feet
Firewall	A firewall is a protective technology that separates network areas from each other
gal	Gallons
GPD	Gallons per day
GWtec®	name/type of grey water treatment system
h	Hour
Hz	Hertz
IG	Internal thread (male)
in	Inch
IP56	Item is protected from dust and strong water jets
L	Liter
Lb.	Pound
mg	milligram
min	Minute
N/A	not applicable
nm	Nanometer (1 mm = 1.000.000 nm)
Nm	Newton meter
V	Volt
W x H x D	Width x height x depth

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The information in this publication is subject to change. We reserve the right to make technical changes without prior notice. Performance specifications are non-binding; a guaranteed feature cannot be derived from them. The terms and conditions agreed with our order confirmation shall apply exclusively.

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

