

## A True Salt-Free Alternative, Delivering Quality Water You Can Rely On

Voltea's DiEntry is the *next generation* of home water purification system, addressing the most pressing water issues in the market: quality, taste and waste. The DiEntry leverages Voltea's patented Membrane Capacitive Deionisation (CapDI) technology to reduce total dissolved solids (TDS) from the water, while minimizing maintenance and cost.

The DiEntry is simple to install, use and maintain, requiring no salt and providing great quality water to all points of the home.

The DiEntry requires prefiltration, a pressure tank and post filtration to create a whole home water treatment solution able to handle suspended solids, dissolved solids and disinfectants present in the water. The ancillary components can be provided by Voltea if required.

TECH SPECS : DiEntry

DiEntry Skid  
Part#: 102775



DiEntry Module  
Part#: 101284  
(placed inside the system)



This DiEntry is Tested and Certified by NSF International against NSF/ANSI Standard 42 for materials and structural integrity requirements.



LISTED WATER PURIFIER E480861

## The Future of Residential Water Treatment

The DiEntry has unlimited benefits for dealers of water treatment technologies. Our innovative DiEntry offers a true salt-free water treatment system that will remove hardness and TDS from the water, giving your customers the healthy, great tasting water they desire.

TECH SPECS : DiEntry

# Feed Water Guidelines

PARAMETER	UNIT	RANGE
Total Dissolved Solids	ppm	<1,300
Total Organic Carbon	ppm	<20
Total Suspended Solids	ppm	<10
Free Chlorine	ppm	<5
pH		2 - 10
Iron	ppm	<0.3
Fats, Oils, Grease	ppm	<0.5
Temperature	°F / °C	33 - 104 / 1 - 40
Chemicals		Contact Voltea

Water outside of this specification may affect performance and void the DiEntry Warranty

## Scope Of Supply

### IN THE BOX

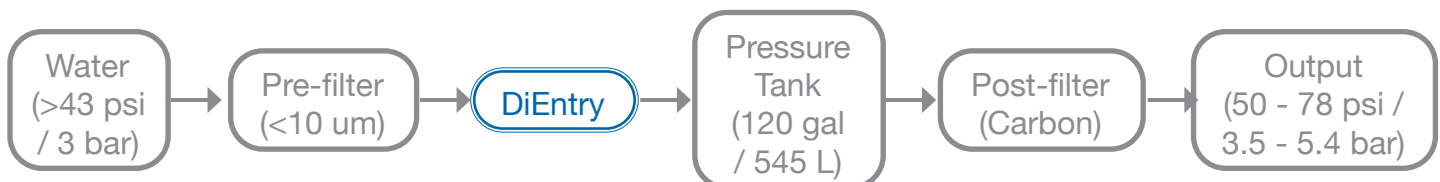
DiEntry Skid: 21" x 18" x 43", 60 lbs  
 Part# 102775 54 x 46 x 110 cm, 28 kg  
 DiEntry Module: 14" x 14" x 24", 90 lbs  
 Part# 101284 36 x 36 x 61 cm, 41 kg  
 (Shipped on a pallet, forklift/lift gate required)  
 HS Code: 8421.9900.40, 8421.2100.00  
 Quick Check and Startup Guide  
 Flow Blocks (0.5 - 1.5 gpm/1.9 - 5.6 L/min)

### ONLINE RESOURCES

DiEntry Manual  
 Trouble Shooting Guide  
 Installation/Operation Videos  
 Performance and Settings Guide  
 5 Year Limited Warranty  
 User registration required  
[www.voltea.com](http://www.voltea.com)

## Process Flow

The DiEntry is designed to remove TDS. It is recommended that the system is coupled with pre and post filtration, as well as a storage tank as shown in the following process flow



# Technical Specification

## TECH SPECS : DiEntry

PERFORMANCE	<b>Output Flow Rate</b>	0.5 - 1.5 gpm / 1.9 - 5.6 L/min
	<b>Salt Removal</b>	25 - 85 %
	<b>Water Recovery</b>	40 - 90 %
	<b>Performance</b>	Contingent on feed water quality See sizing for confirmation of performance
SYSTEM SPECIFICATION	<b>System Dimensions (L x W x H)</b>	1'4" x 1'9" x 3'6" 0.4 x 0.53 x 1.05 m
	<b>Weight</b>	177 lbs / 80 kg (installed weight)
	<b>Feed Inlet (from prefiltration)</b>	3/4" Female NPT
	<b>Product Outlet (to tank)</b>	3/4" Female NPT
	<b>Automatic Bypass (around DiEntry)</b>	3/4" Female NPT (installed externally)
	<b>Waste (to drain, &lt;15 psi backpressure)</b>	3/4" Female NPT
OPERATIONAL REQUIREMENTS	<b>Power Requirements</b>	0.31 kW, 1 ph 110 - 240 VAC / 50 - 60 Hz, 15 A
	<b>Feed Pressure</b>	43 - 290 psi / 2.0 - 20 bar
	<b>Output Pressure</b>	50 - 78 psi / 3.5 - 5.4 bar
	<b>Start/Stop Pressures</b>	(Adjustable) 50 - 78 psi / 3.5 - 5.4 bar
	<b>Automatic Bypass Pressure</b>	Adjustable
	<b>Ambient Temperature</b>	33 - 104 °F / 1 - 40 °C
	<b>Water Temperature</b>	33 - 104 °F / 1 - 40 °C
	<b>Automatic Clean in Place</b>	3/4 gal / 3 L tank Citric acid 50 %
CONTROLS	<b>Controls</b>	Simple push buttons
	<b>Display</b>	Liquid Crystal Display
	<b>Data Available</b>	Output TDS, Total volume treated, Alarms
	<b>Remote Monitoring</b>	Available through Website WiFi Required www.DiEntry.com

## Sizing Guide

Please refer to the below sizing table prior to installation to ensure correct DiEntry set up, and optimized performance for the water quality. Failure to do so can impact the performance, and may void the warranty.

To use, select the closest match to your feed water quality, and input the correct settings, and flow block to set the performance of the DiEntry you are installing.

### Water Quality - Option Selection

		WATER QUALITY		PERFORMANCE			SET-UP	
PARAMETER		FEED	OUTPUT	FLOW	gpm / L/min			
TDS	ppm	270	40	Output	1.5 / 5.5	TDS	<b>A</b>	
Hardness	ppm	170	34	Feed	1.7 / 6.4	Flow Block	<b>Red</b>	
	gpg	10	2	Waste	0.2 / 0.9	CIP Option	<b>1</b>	
pH		7.5	7.3	Recovery	85 %			
TDS	ppm	400	75	Output	1.0 / 3.9	TDS	<b>B</b>	
Hardness	ppm	170	28	Feed	1.2 / 4.8	Flow Block	<b>Green</b>	
	gpg	10	1.7	Waste	0.2 / 0.9	CIP Option	<b>1</b>	
pH		7.5	7.3	Recovery	83 %			
TDS	ppm	550	135	Output	1.0 / 3.9	TDS	<b>D</b>	
Hardness	ppm	170	43	Feed	1.2 / 4.8	Flow Block	<b>Green</b>	
	gpg	10	2.5	Waste	0.2 / 0.9	CIP Option	<b>1</b>	
pH		7.5	7.3	Recovery	83 %			
TDS	ppm	700	100	Output	0.7 / 2.8	TDS	<b>C</b>	
Hardness	ppm	200	40	Feed	1.1 / 4.1	Flow Block	<b>Blue</b>	
	gpg	11.7	2.3	Waste	0.4 / 1.4	CIP Option	<b>2</b>	
pH		7.8	7.5	Recovery	67 %			
TDS	ppm	1000	250	Output	0.5 / 1.9	TDS	<b>E</b>	
Hardness	ppm	350	93	Feed	0.9 / 3.3	Flow Block	<b>Grey</b>	
	gpg	20	5.4	Waste	0.4 / 1.4	CIP Option	<b>2</b>	
pH		7.8	7.5	Recovery	60 %			

Please contact your Sales Manager, or Service if further support is required.  
 Further details can be found in the Installation Manual, [www.Voltea.com](http://www.Voltea.com)  
[Service@Voltea.com](mailto:Service@Voltea.com)

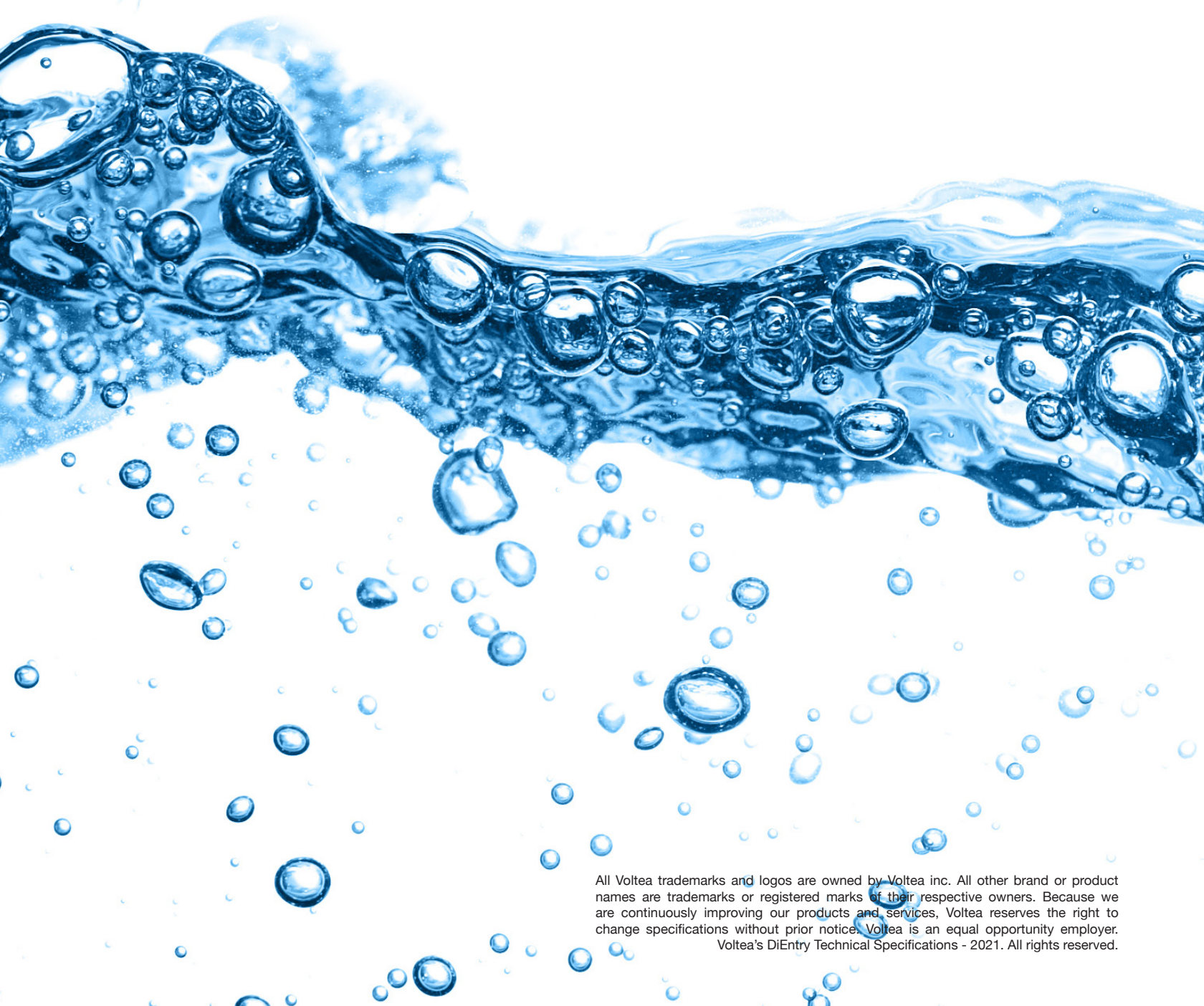
SIZING GUIDE: DiEntry



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