

**CapDI[®] SYSTEMS
TECHNICAL SPECIFICATIONS**

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We specialize in tunable water purification that is designed to remove total dissolved salts (TDS) from a variety of water sources, ranging from tap water and brackish groundwater to industrial process water. CapDI achieves this at a lower economic cost and reduced environmental impact than any other available technology.

Voltea's CapDI technology purifies water types ranging from residential consumer appliances to large-scale industrial plants. Our systems are modular, allowing easy expansion to meet any increased water demands.

CapDI Benefits

- Automated cleaning
- Remote monitoring available
- High water recovery, up to 90 %
- Tunable TDS reduction, up to 90 %
- Complete system monitoring and feedback
- Dynamic Control - controlled output water quality
- Customizable system sizing to reach client needs
- Operation at high temperatures, up to 60 °C (140 °F)
- Low energy usage, 0,4 - 0,8 kWh/m³ (1.5 - 3.0 kWh/kgal)
- Patented Membrane Capacitive Deionization Technology

Quality Assurance

- CE Certified
- UL on request
- Factory Acceptance Test on request
- Systems and modules quality control tested
- Voltea Remote Monitoring and Control package

Feed Water Quality

PARAMETER	UNIT	RANGE	INTERMITTENT
Removal Limit	Δppm	0 - 2000	
Total Dissolved Solids (TDS)	ppm	0 - 4000	
Total Organic Carbon	ppm	< 15	
Chemical Oxygen Demand	ppm	< 50	< 100
Turbidity	NTU	< 4	< 100
Fats, Oils, Greases	ppm	< 0.5	
Total Suspended Solids (TSS)	ppm	< 4	< 20
Free Chlorine	ppm	< 1	< 25
pH	-	2 - 10	1 - 12
Iron total	ppm	< 0.5	
Total Hardness (CaCO ₃)*	ppm	< 1000	
M Alkalinity (as CaCO ₃)*	ppm	< 1000	
Pre-filtration	μm	5	
Temperature	°C	1 - 60	
Chemicals	-	Contact Voltea	

* Limits depend on set TDS reduction and water recovery



IS-2H

CapDI IS-2H Industrial Series 1-2 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air (*air optional*)

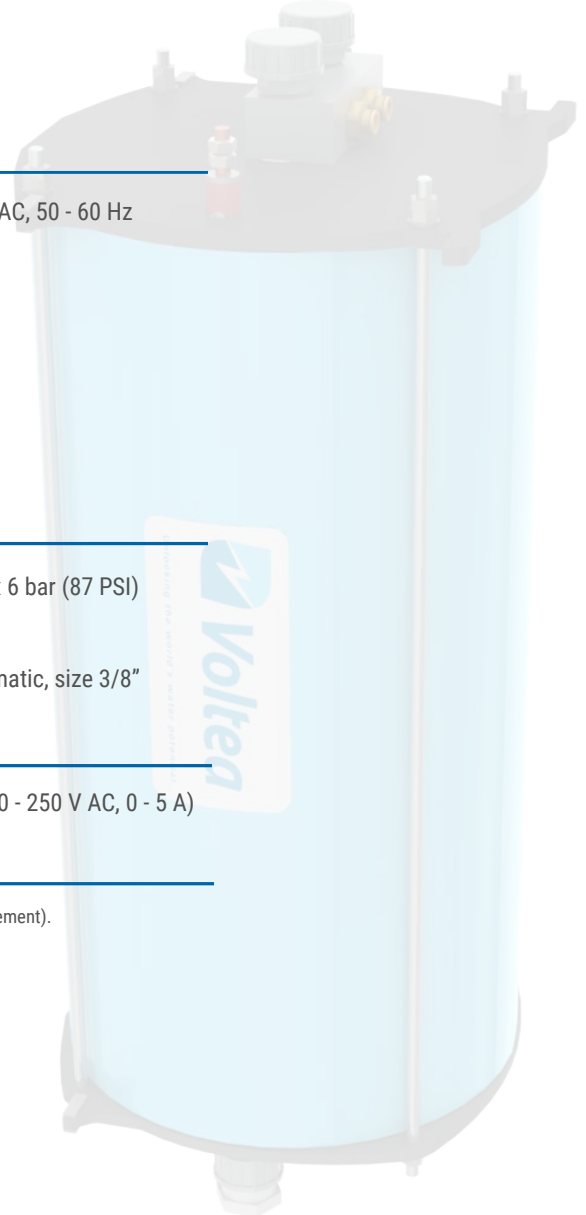
Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	0 - 40 L/min (0 - 11 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	0,2 - 1 m ³ /h (0.9 - 4.4 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %
System Specification	Input Power Requirements*	1-ph 1.8 kW, 110 (or 230, please specify) V AC, 50 - 60 Hz
	System Dimensions (L x W x H)	0,86 x 0,7 x 1,3 m (2'10" x 2'4" x 4'3")
	Service Space	0,8 m (2'7") from edge of system
	Weight**	250 kg (550 lbs)
	Feed Inlet Coupling	.5" union
	Product Outlet Coupling	.5" union
Concentrate/Waste Outlet Coupling	.5" union	
Operational Requirements	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line (<i>optional</i>)	50 L/min (1.8 CFM) @ 6 bar (87 PSI), pneumatic, size 3/8"
	Operating Ambient Air Temperature***	< 25 °C (< 77 °F)
Inputs/ Outputs	Start / Stop	Input - Potential free contact (0 - 30 V DC / 0 - 250 V AC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 V DC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).

**Weight without modules

***Without added cooling



IS-6H

CapDI IS-6H Industrial Series 3-6 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air

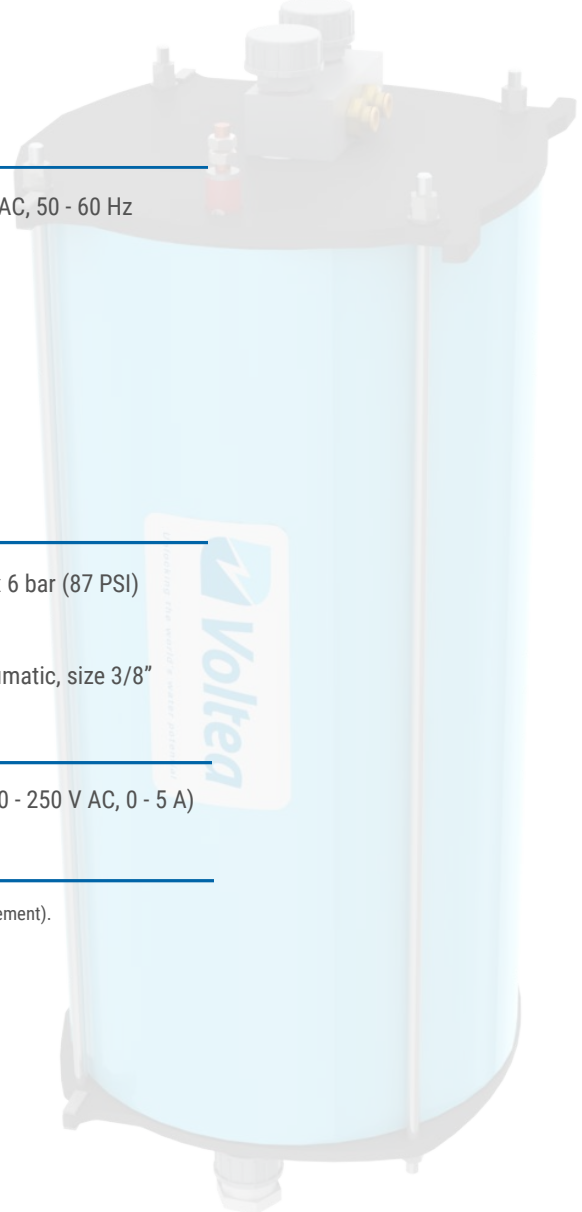
Inlet/Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	9 - 150 L/min (2.4 - 40 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	0,5 - 3 m ³ /h (2.2 - 13.2 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %
System Specification	Input Power Requirements*	1-ph 5.7 kW, 110 (or 230, please specify) V AC, 50 - 60 Hz
	System Dimensions (L x W x H)	1,15 x 0,9 x 1,66 m (3'9" x 2'11" x 5'6")
	Service Space	0,8 m (2'7") from edge of system
	Weight**	400 kg (880 lbs)
	Feed Inlet Coupling	1" union
	Product Outlet Coupling	1" union
Operational Requirements	Concentrate/Waste Outlet Coupling	1" union
	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line	100 L/min (3.5 CFM) @ 6 bar (87 PSI), pneumatic, size 3/8"
Inputs/Outputs	Operating Ambient Air Temperature***	< 25 °C (< 77 °F)
	Start / Stop	Input - Potential free contact (0 - 30 V DC / 0 - 250 V AC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 V DC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).

**Weight without modules

***Without added cooling



IS-12H

CapDI IS-12H Industrial Series 7-12 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

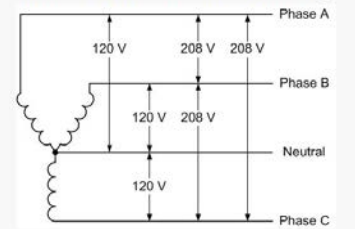
- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air

Inlet/Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	0 - 150 L/min (0 - 33 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	1,1 - 7 m ³ /h (4.8 - 30.8 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %

System Specification	Input Power Requirements*	230 VAC, 50 Hz, 33A, 7.5 kW (Common in EU) OR 208 VAC, 60 Hz, 40A, 7.5 kW (Common in USA) Refer to phase diagram**
	System Dimensions (L x W x H)	1,5 x 0,9 x 2,2 m (4'11" x 3' x 7'2")
	Service Space	0,8 m (27") from edge of system
	Weight***	550 kg (1,210 lbs)
	Feed Inlet Coupling	1.5" union
	Product Outlet Coupling	1.5" union
	Concentrate/Waste Outlet Coupling	1.5" union

Three Phase Four Wire Wye



Operational Requirements	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line	100 L/min (3.5 CFM) @ 6 bar (87 PSI), pneumatic, size 3/8"
	Operating Ambient Air Temperature**** < 25 °C (< 77 °F)	

Inputs/Outputs	Start / Stop	Input - Potential free contact (0 - 30 VDC / 0 - 250 VAC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 VDC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).
 **For alternatives, please contact a Voltea representative
 ***Weight without modules
 ****Without added cooling

IS-24H

CapDI IS-24H Industrial Series 13-24 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

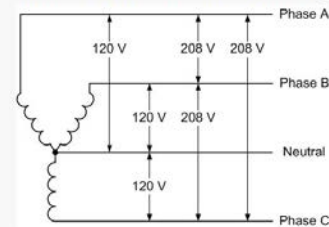
- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air

Inlet/Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	20 - 312 L/min (5 - 82 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	2 - 10 m ³ /h (8.8 - 44 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %

System Specification	Input Power Requirements*	400 VAC (WYE), 50 Hz, 24A, 16 kW (Common in EU) OR 480 VAC (DELTA), 60 Hz, 8A, 6 kW AND 208 VAC, 60 Hz, 33A, 7.5 kW (Common in USA) Refer to phase diagram**
	System Dimensions (L x W x H)	2,9 x 1,1 x 2,2 m (9'8" x 3'7" x 7'2")
	Service Space	0,8 m (2'7") from edge of system
	Weight***	950 kg (2,094 lbs)
	Feed Inlet Coupling	2" union
	Product Outlet Coupling	2" union
	Concentrate/Waste Outlet Coupling	2" union

Three Phase Four Wire Wye



Operational Requirements	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line	200 L/min (7 CFM) @ 6 bar (87 PSI), pneumatic, size 1/2"
	Operating Ambient Air Temperature****	< 25 °C (< 77 °F)

Inputs/Outputs	Start / Stop	Input - Potential free contact (0 - 30 VDC / 0 - 250 VAC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 VDC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).
 **For alternatives, please contact a Voltea representative
 ***Weight without modules
 ****Without added cooling

IS-36H

CapDI IS-36H Industrial Series 25-36 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

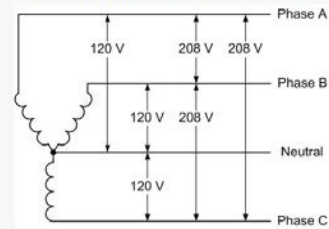
- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air

Inlet/Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	31 - 501 L/min (8 - 133 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	2 - 15 m ³ /h (8.8 - 66 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %

System Specification	Input Power Requirements*	400 VAC (WYE), 50 Hz, 35A, 23 kW (Common in EU) OR 480 VAC (DELTA), 60 Hz, 13A, 10 kW AND 208 VAC, 60 Hz, 50A, 11 kW (Common in USA) Refer to phase diagram**
	System Dimensions (L x W x H)	4,4 x 1,1 x 2,2 m (14'3" x 3'7" x 7'1")
	Service Space	0,8 m (2'7") from edge of system
	Weight***	1,200 kg (2,645 lbs)
	Feed Inlet Coupling	2" union
Product Outlet Coupling	2" union	
Concentrate/Waste Outlet Coupling	2" union	

Three Phase Four Wire Wye



Operational Requirements	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line	300 L/min (10.5 CFM) @ 6 bar (87 PSI), pneumatic, size 1/2"
	Operating Ambient Air Temperature****	< 25 °C (< 77 °F)
Inputs/Outputs	Start / Stop	Input - Potential free contact (0 - 30 VDC / 0 - 250 VAC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 VDC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).
 **For alternatives, please contact a Voltea representative
 **Weight without modules
 ***Without added cooling

IS-48H

CapDI IS-48H Industrial Series 37-48 Module Skid



Design and Scope of Supply

- IS System User Manual
- Capable of ambient or high temperature feed water
- Built-in monitoring; flow, pressure, conductivity, module voltage
- Skids can take up to full accompaniment of modules

IS Features

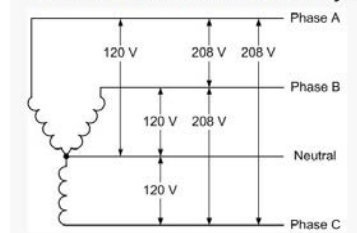
- Voltea Remote Monitoring and Control available
- Automated System CIP (Clean-In-Place); chemical and/or air

Inlet/Pure Outlet Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	31-501 L/min (8 -133 gpm)
System Pressure	0 - 10 bar (0 - 145 PSI)
Module Pressure	0 - 6 bar (0 - 87 PSI)
User Interface	HMI Panel

Performance	Net Produced Flow	2,6 - 20 m ³ /h (11.5 - 88 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %

System Specification	Input Power Requirements*	400 VAC (WYE), 50 Hz, 45A, 30 kW (Common in EU) OR 480 VAC (DELTA), 60 Hz, 13A, 10 kW AND 208 VAC, 60 Hz, 66A, 15 kW (Common in USA) Refer to phase diagram**
	System Dimensions (L x W x H)	5,6 x 1,1 x 2,3 m (18'5" x 3'7" x 7'7")
	Service Space	0,8 m (2'7") from edge of system
	Weight***	1,500 kg (3,307 lbs)
	Feed Inlet Coupling	2.5" union
	Product Outlet Coupling	2.5"
	Concentrate/Waste Outlet Coupling	2.5"

Three Phase Four Wire Wye



Operational Requirements	Water Feed Pressure	3 bar (44 PSI) at the flow rate required, max 6 bar (87 PSI)
	Water Temperature	1 - 60 °C (34 - 140 °F)
	Compressed Air Line	400 L/min (14 CFM) @ 6 bar (87 PSI), pneumatic, size 1/2"
	Operating Ambient Air Temperature****	< 25 °C (< 77 °F)

Inputs/Outputs	Start / Stop	Input - Potential free contact (0 - 30 VDC / 0 - 250 VAC, 0 - 5 A)
	External Pump	Output - Potential free contact (24 VDC)

*Actual power consumption will depend on module and settings used (typically 30-60% of input power requirement).

**For alternatives, please contact a Voltea representative

***Weight without modules

****Without added cooling

DK

CapDI DK System Development Kit



Design and Scope of Supply

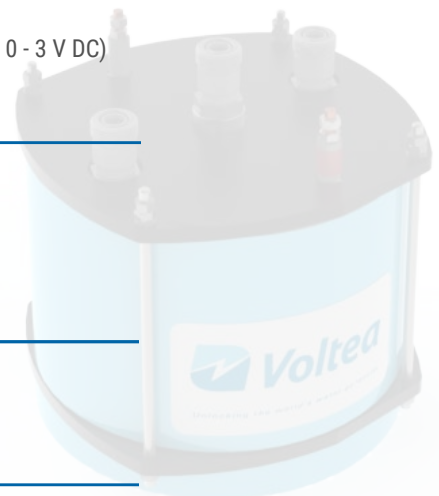
- Two 5 µm filters
- CapDI DK User Manual
- Laptop control and monitoring software
- On-site installation and training package
- Reduced size industrial or appliance design CapDI Modules
- Built-in monitoring; flow, pressure, conductivity, module voltage, current

DK Features

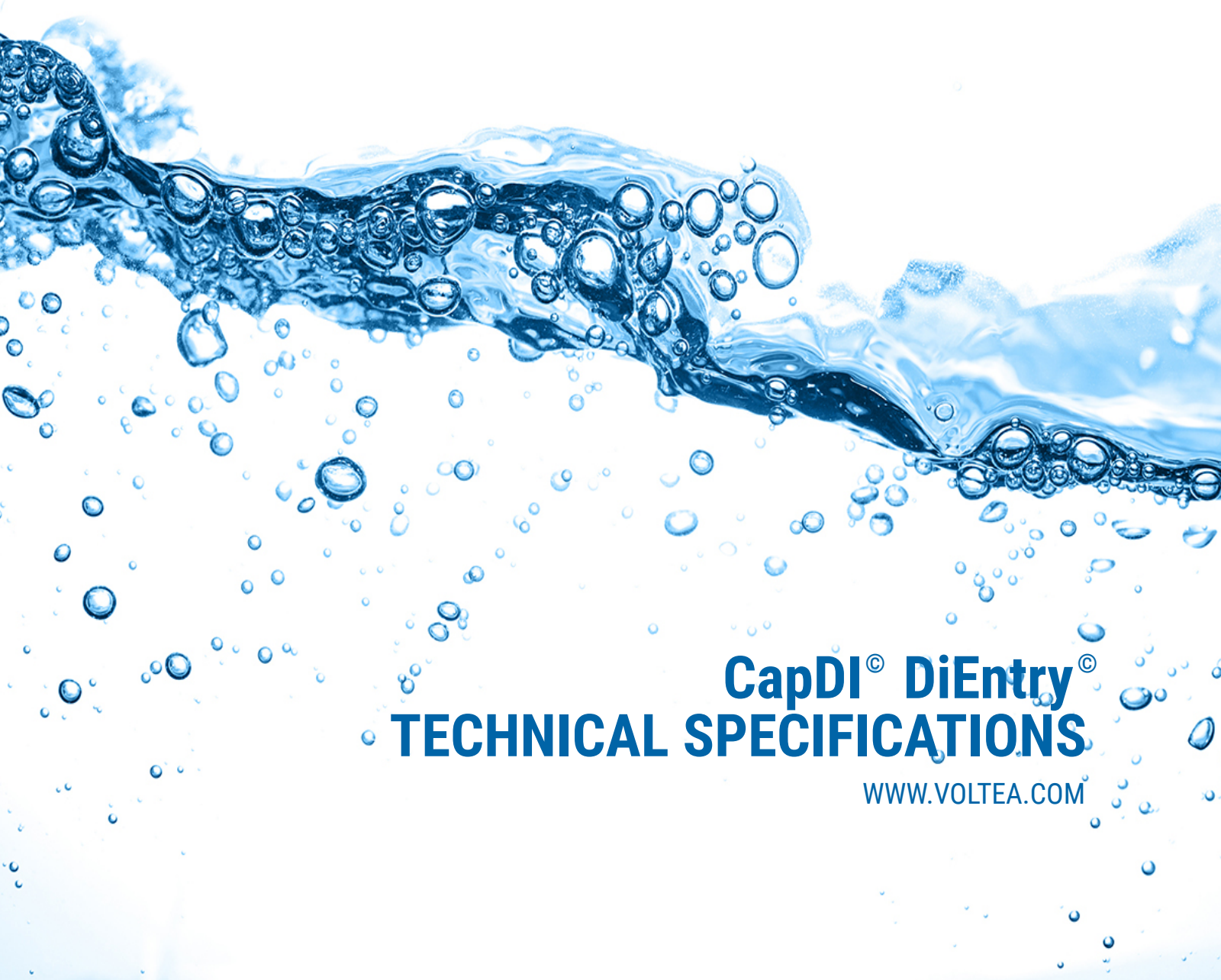
- In-line 10" slim-line filter housing
- Laptop with intuitive control program
- System monitoring and data recording
- Data analysis and calculation templates

In/Out Conductivity Meters	0 - 10 mS/cm
Total Flow Meter	0 - 10 L/min (0.1 - 2.6 gpm)
System Pressure	0 - 2,5 bar (0 - 36 PSI)
Module Voltage	0 - 3 V
Module Current	0 - 240 A

Performance	Flow Rate Capacity*	0,2 - 2,5 L/min (0.1 - 0.7 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %
System Specification	System Power Requirements	Single - Phase (110 - 240 V AC / 50 - 60 Hz)
	System Dimensions (L x W x H)	75 x 50 x 60 cm (2'6" x 1'8" x 1'11")
	Service Space	0,8 m (2'7") from edge of system
	Weight**	52 kg (114 lbs)
	Feed Inlet Coupling	10 mm tubing push-in connection
	Product Outlet Coupling	10 mm tubing push-in connection
	Power Output to Modules	(Low Range: 1 - 60 A / 0 - 10 V DC) (High Range: 5 - 240 A / 0 - 3 V DC)
	Compatible Modules	(Low Range: VS-1, VS-2, Custom) (High Range: Custom)
System Requirements	Water Feed***	Test barrel
	Water Temperature***	1 - 60 °C (34 - 140 °F)
	Operating Ambient Air Temperature**** < 35 °C (< 95 °F)	
Inputs/Outputs	Control	Voltea laptop control program
	Data Output	txt. file format for Voltea analysis template



*Actual performance will depend on module used and settings
**Weight without modules
***Please contact Voltea if unavailable
****If higher than this, additional cooling may be required



CapDI[®] DiEntry[®]
TECHNICAL SPECIFICATIONS

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CapDI Benefits

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- Tunable TDS reduction, up to 90 %
- Complete system monitoring and feedback
- Dynamic Control - controlled output water quality
- Customizable system sizing to reach client needs
- Operation at high temperatures, up to 35 °C (95 °F)
- Low energy usage, 0,4 - 0,8 kWh/m³ (1.5 - 3.0 kWh/kgal)
- Patented Membrane Capacitive Deionization Technology

Quality Assurance

- NSF/ANSI 42
- CE Certified
- UL Listed
- Factory Acceptance Test on request
- Systems and modules quality control tested
- Voltea Remote Monitoring and Control package

Feed Water Quality

PARAMETER	UNIT	RANGE	INTERMITTENT
Removal Limit	Δppm	≤ 1300	
Total Dissolved Solids (TDS)	ppm	≤ 2000	
Total Organic Carbon	ppm	< 10	
Chemical Oxygen Demand	ppm	< 20	< 100
Turbidity	NTU	< 4	< 100
Fats, Oils, Greases	ppm	< 0.5	
Total Suspended Solids (TSS)	ppm	< 4	< 20
Free Chlorine	ppm	< 2	< 25
pH	-	2 - 10	1 - 12
Iron total	ppm	< 0.5	
Total Hardness (CaCO ₃)*	ppm	< 1000	
M Alkalinity (as CaCO ₃)*	ppm	< 1000	
Pre-filtration	μm	5	
Temperature	°C	1 - 35	
Chemicals	-	Contact Voltea	

* Limits depend on set TDS reduction and water recovery





Design and Scope of Supply

- DiEntry User Manual
- Chemical container and containment tray
- Membrane Capacitive Deionization DiEntry Module
- Built-in monitoring; flow, conductivity, module voltage
- Automated cleaning triggered by cycles

DiEntry Features

- Automated system CIP (Clean-In-Place)
- Automated safety bypass line
- Voltea remote monitoring and data collection available

Pure Outlet Conductivity Meters	0 - 10 mS/cm
Flow Meter	0 - 30 L/min (0 - 7.9 gpm)
User Interface	Built-in Display

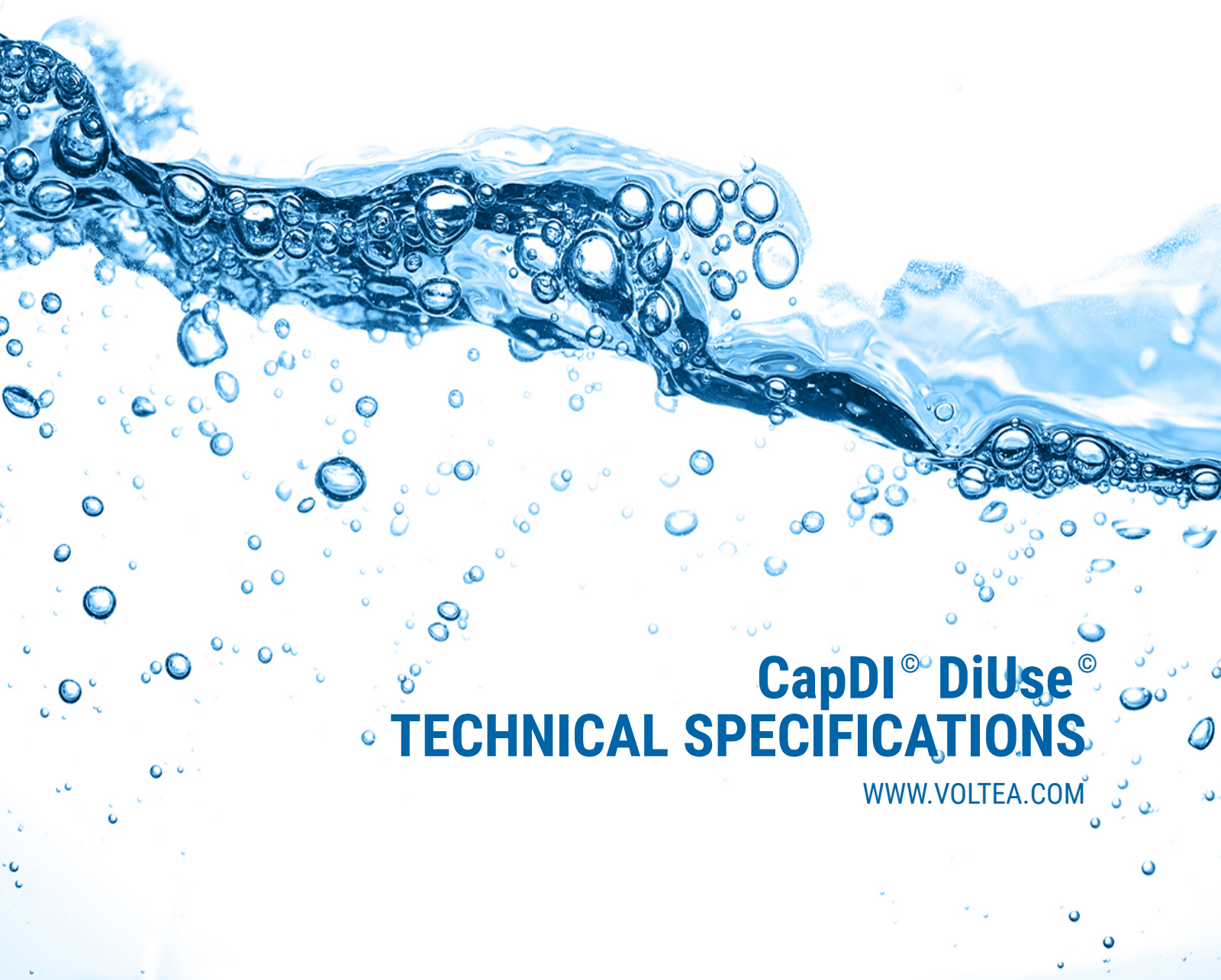
Performance	Produced Flow Rate*	2 - 12 L/min (0.5 - 3.2 gpm)
	Instant Flow Rate*	0,6 - 15,1 L/min (0.2 - 4 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	40 - 90 %
System Specification	Average Power Requirements	0.31 kW, Single - Phase (110 - 240 V AC / 50 - 60 Hz)
	System Dimensions (L x W x H)	0,4 x 0,53 x 1,05 m (1'4" x 1'9" x 3'6")
	Power Output to Modules	0 - 125 A / 0 - 1.2 V DC
	Weight**	30 kg (67 lbs)
	Feed Inlet Coupling	3/8" push fit (1/2" adapter included)
	Product Outlet Coupling	1/2" push fit
	Concentrate/Waste Outlet Coupling	1/2" push fit
Automatic Bypass Line	1/2" push fit	
Operational Requirements	Water Feed Pressure	3 - 20 bar (43 - 290 PSI)
	Water Pressure Produced***	≤ 4,8 bar (≤ 70 PSI)
	Operating Ambient Air Temperature	< 35 °C (< 95 °F)
In/Out Puts	Start / Stop	Pressure switch (standard) or external 24 V DC signal
	Cleaning	Procedure
Control (Auto/Manual)		Automatic
Storage		3 L chemical container
Controls	Remote Control / Data Monitoring	Total flow, conductivity, average voltage, cycles count, alarms (SIM card/GSM bit internet or local)
	Parameter Change	Local



*Depends on TDS reduction and water recovery

**Weight without module

***Depends on flow target



CapDI[®] DiUse[®]
TECHNICAL SPECIFICATIONS

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- Operation at high temperatures, up to 35 °C (95 °F)
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- Patented Membrane Capacitive Deionization Technology

Quality Assurance

- CE Certified
- UL Listed
- Factory Acceptance Test on request
- Systems and modules quality control tested
- Voltea Remote Monitoring and Control package

Feed Water Quality

PARAMETER	UNIT	RANGE	INTERMITTENT
Removal Limit	Δppm	≤ 1300	
Total Dissolved Solids (TDS)	ppm	≤ 2000	
Total Organic Carbon	ppm	< 10	
Chemical Oxygen Demand	ppm	< 20	< 100
Turbidity	NTU	< 4	< 100
Fats, Oils, Greases	ppm	< 0.5	
Total Suspended Solids (TSS)	ppm	< 4	< 20
Free Chlorine	ppm	< 2	< 25
pH	-	2 - 10	1 - 12
Iron total	ppm	< 0.5	
Total Hardness (CaCO ₃)*	ppm	< 1000	
M Alkalinity (as CaCO ₃)*	ppm	< 1000	
Pre-filtration	μm	5	
Temperature	°C	1 - 35	
Chemicals	-	Contact Voltea	

* Limits depend on set TDS reduction and water recovery





Design and Scope of Supply

- DiUse User Manual
- Chemical container and containment tray
- Membrane Capacitive Deionization DiUse Module
- Built-in monitoring; flow, conductivity, module voltage
- Automated cleaning triggered by cycles

DiUse Features

- Automated System CIP (Clean-In-Place)
- Voltea remote monitoring and control available

Pure Outlet Conductivity Meters	0 - 10 mS/cm
Flow Meter	0 - 10 L/min (0 - 2.6 gpm)
User Interface	Built-in Display

Performance	Produced Flow Rate*	0,3 - 2,2 L/min (0.08 - 0.58 gpm)
	Instant Flow Rate*	0,5 - 4 L/min (0.13 - 1.06 gpm)
	Salt Removal	25 - 90 %
	Water Recovery	50 - 90 %
System Specification	Average Power Requirements	0.13 kW, Single - Phase (110 - 240 V AC / 50 - 60 Hz)
	System Dimensions (L x W x H)	0,32 x 0,43 x 0,64 m (1'0" x 1'5" x 2'1")
	Power Output to Modules	0 - 65 A / 0 - 2 V DC
	Weight**	17 kg (37 lbs)
	Feed Inlet Coupling	3/8" push fit
	Product Outlet Coupling	3/8" push fit
Concentrate/Waste Outlet Coupling	3/8" push fit	
Operational Requirements	Water Feed Pressure	3 - 20 bar (43 - 290 PSI)
	Water Pressure Produced***	≤ 3,5 bar (≤ 51 PSI)
	Operating Ambient Air Temperature	< 35 °C (< 95 °F)
In/Out Ports	Start / Stop	Pressure switch (standard) or external 24 V DC signal
Cleaning	Procedure	Automated chemical cleaning
	Control (Auto/Manual)	Automatic: on cycles of operation
	Storage	1 L chemical container
Controls	Remote Control / Data Monitoring	Total flow, conductivity, average voltage, cycles count, alarms (SIM card/GSM bit internet or local)
	Parameter Change	Local

*Depends on TDS reduction and water recovery

**Weight without module

***Depends on flow target

