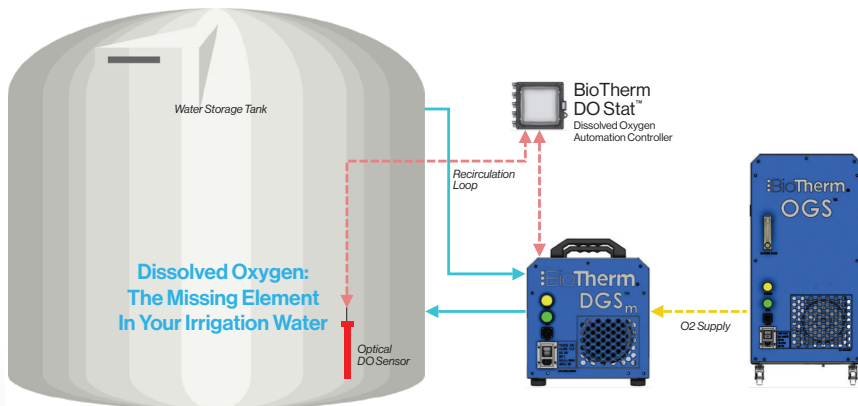
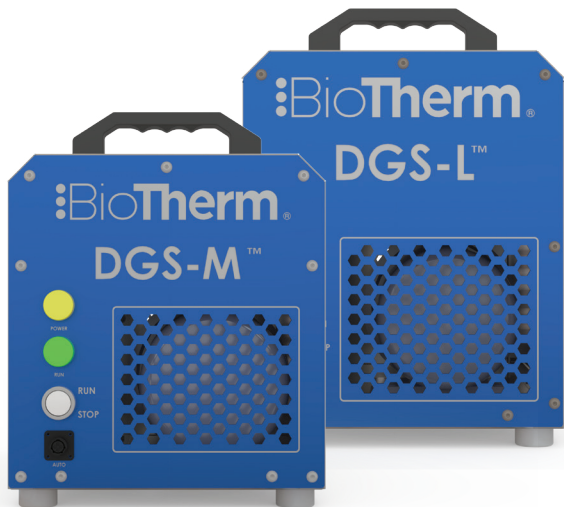


DGS™ Series Dissolved Gas Systems



Applications

- Water Tank Recirculation / Reservoir Oxygenation
- NFT
- Deep Water Culture

The BioTherm DGS Dissolved Gas System™ is a highly efficient gas to liquid infusion technology that increases measurable dissolved oxygen (DO) levels in irrigation water.

The DGS system can be accompanied by BioTherm's Oxygen Generation system (OGS) or an oxygen tank can be used for O2 supply. DO stat is available as an accessory for real-time O2 monitoring.

The DGS is built on a stainless steel frame, making it corrosion-resistant and able to withstand the elements of the growing environment. Easily integrated to existing DO control systems.

Features & Benefits

- Plug & play system application
- Enhanced oxygen levels in irrigation water
- Enhanced root growth
- Improved photosynthesis
- Increased plant metabolism
- Prevention of root rot and other pathogens
- Improved nutrient uptake

What You'll Need

- Oxygen Supply - [OGS™ (Oxygen Generation System) or O2 Tank]



Accessories



◀ Oxygen Generation (OGS™)

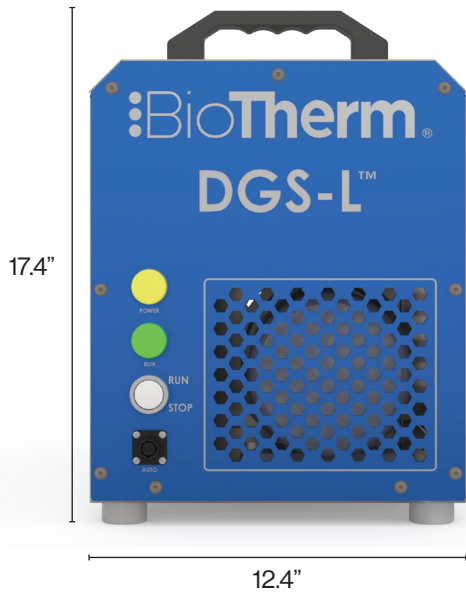
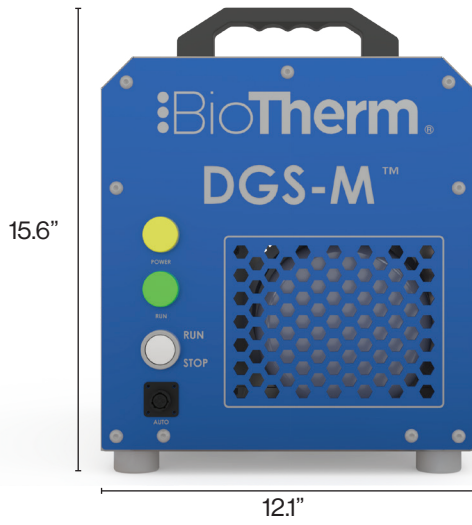
BioTherm offers an oxygen generation package so you don't need to worry about oxygen tanks. BioTherm's OGS pulls ambient air and purifies it into pure oxygen for your DO system.

DO Stat ▶

The DO Stat reads dissolved oxygen levels and temperature in your irrigation lines or tank and controls the O2 infusion process.



DGS Dissolved Gas Systems



DGS Dissolved Gas Systems

MODEL	DGS-M	DGS-L	DGS-XL
LIQUID FLOW CAPACITY (WATER)			
Flow Rate, GPM	20	50	100
Daily Performance Capacity, GPD*	4000	10000	20000
Max. System Water Pressure, PSIG	40		
OPERATING PARAMETERS			
System Temperature Range, °F	40-140		
Max. Solid Allowance, microns	< 100		
OXYGEN FEED			
Recommended Gas Flow, LPM	3-4	4-6	6-10
Min. Gas Delivery Pressure, PSIG	15		
Max. Gas Delivery Pressure, PSIG	40		
ELECTRICAL REQUIREMENTS			
AC Voltage, VAC	115	115	115
Phase	1	1	1
Frequency, Hz	60	60	60
Pump Size, Hp	1/2	1.5	1.5
Full Load Amps	10.0A	11.2A	11.2A
PUMP			
Pump Type	TEFC		
Wetted Parts Materials	Buna-n / 316 SS / Ceramic and Carbon Mechanical Seal		
CONTROL			
Power Switch IEC Connection	On/Off		
Dissolved Oxygen (DO) Sensor**	Optical, 0-40 ppm (+/- 1.5 ppm)		
CONNECTIONS			
Inlet (Union), in	1	2	2
Discharge (Union), in	1	2	2 1/2
System Gas Fitting for External O ₂	Push-to-Connect Fitting for 3/8in OD Tube		
Regulator Connection Type	CGA 540		
DIMENSIONS AND WEIGHT			
Height, inches	15.6	17.4	39.8
Width, inches	12.1	12.4	23.1
Length, inches	18.3	27.25	26.1
Weight, lb	42	63	107

*Tested at 77F. Performance rates will vary depending on source water, temperature, and elevation.