

Waterplus™ Filtration Solutions – OXIPLUS¹² Filters

Waterplus Pre-Engineered Filtration Systems are rugged, dependable water treatment solutions designed for the rigors of the industrial and municipal markets.

Combining industry leading filtration knowledge with the correct application of OxiPlus¹² media, Waterplus has created efficient and durable filtration systems that are designed to operate at high loading rates for use in the reduction of total suspended solids, silt density, and iron. A common application of OxiPlus¹² filters is the creation of high purity water for industrial use.



Product Features

- Reduced installation costs for these pre-engineered, skid mounted pressure vessels that are pre-piped and pre-wired for economical installations.
- Reduced system footprint sizes for OxiPlus¹² allow for high filter loading rates while maintaining treatment efficiency due to the hydrophilic properties of the media.
- Suitable for sand/anthracite or greensand/anthracite retrofits.
- Unique straightforward design allows each vessel to operate via a single three-way valve eliminating the need for a dedicated backwash pump.
- Particulate removal efficiency down to 10 microns.
- Standard stainless steel distribution hub and laterals.
- Dual 12" x 16" clam style manways for ease of access and long life.
- Standard design has 100 psig non-code pressure vessels.

OxiPlus ¹² Model Specifications						
Model Number	(Tank Qty) and Size	Total Surface Area (ft ²)	Flow Range (gpm)			Backwash Rate 13.9 gpm/ft ²
			3.00 gpm/ft ²	6.00 gpm/ft ²	9.00 gpm/ft ²	
OT024060	(3) 24x60	9.42	28	57	84	44
OT024060	(4) 24x60	12.57	38	75	113	44
OT030060	(3) 30x60	14.73	44	88	133	68
OT030060	(4) 30x60	19.63	59	118	177	68
OT036060	(3) 36x60	21.21	64	127	191	96
OT036060	(4) 36x60	28.27	85	170	254	96
OT042060	(3) 42x60	28.86	87	173	260	134
OT042060	(4) 42x60	38.48	115	231	346	134
OT048060	(3) 48x60	37.70	113	226	339	175
OT048060	(4) 48x60	50.26	151	302	452	175
OT054060	(3) 54x60	47.71	143	286	429	221
OT054060	(4) 54x60	63.62	191	382	573	221



WATERPLUS

ENGINEERED SOLUTIONS

OXIPLUS¹²

Introduction

OxiPlus¹² is a black filter media used for removing soluble iron, manganese, hydrogen sulfide, arsenic, and radium from groundwater supplies. The manganese dioxide coated surface of the OxiPlus¹² acts as a catalyst in the oxidation reduction reaction of iron and manganese. The silica sand core of OxiPlus¹² allows it to withstand waters that are low in silica, TDS, and hardness without breakdown. OxiPlus¹² can also filter out particles down to 10 microns in size. This media has an NSF-61 certification for use in treating potable water.

Application

OxiPlus¹² is more robust and is effective at higher operating temperatures and higher differential pressures than standard Greensand Plus™. Higher MnO₂ surface content at 12% minimum vs. 4.5-5% for competitive products, can provide for longer run times between backwashes and a greater margin of safety. Systems may be designed using either vertical or horizontal pressure filters, as well as gravity filters.

Physical Properties

Composition: Manganese dioxide coated silica sand

Bulk Density: 84 lb/ft³ (1.35 kg/L)

Mesh Sizes: 18 x 45 mesh

Uniformity Coefficient: Less than 1.50

Packaging: ½ ft³ bags, 1 m³ supersacks

Operation

pH: 6.2 – 8.5

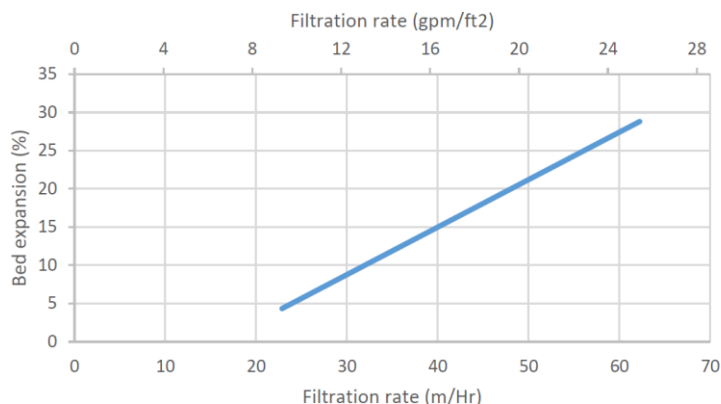
Bed Depth: 12"- 36" depending on application

Freeboard: 40% of bed depth (min)

Typical Treatment Loading Rate: 2-8 gpm/ft²

Backwash Rate: 15-18 gpm/ft², 8-10 minutes, temperature dependent

Bed Expansion (20°C)



(OxiPlus¹² data based on preliminary analyses)

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