



# iPOLISHER S Series Units



iPOLISHER units are a simple, practical and inexpensive high purity storage and distribution systems designed for stand alone service or integration for use with any iPURE pure water generation system.

Each cGMP compliant assembly efficiently combines several pure water treatment processes into a single, compact unit designed to maintain and distribute pure water. These units can store and distribute from 10 to 250 gallons per minute of high purity water and when configured appropriately can deliver water meeting any of the current pharmaceutical, industrial and/or laboratory reference standards.

Each system is supplied completely assembled, factory tested and ready for field installation. Typical applications for these systems include; ultra-pure water for the electronics, pharmaceutical and power industries; process water for the food, beverage and chemical industries and pure water for research, pilot facilities and laboratories.



# iPOLISHER - S Series

## Specifications

Model	S-010	S-020	S-030	S-040	S-050	S-090
<b>Design</b>						
Distribution Flow Rate GPM (LPM)*	10.0 (37.9)	20.0 (75.7)	30.0 (113.6)	40.0 (151.4)	40.0-50.0 (151.4-189.3)	60.0-90.0 (227.1-340.7)
Draw Flow Rate GPM (LPM)	6.0 (22.7)	14.0 (53.0)	24.0 (90.8)	30.0 (113.6)	30.0-40.0 (113.6-151.4)	45.0-75.0 (170.3-283.9)
Supply Permeate PSIG (BAR)*	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)
Max Temp °F (°C)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)
<b>Connections</b>						
Suction	1" TC	1 1/2" TC	1 1/2" TC	1 1/2" TC	2" TC	2" TC
Discharge	1" TC	1 1/2" TC	1 1/2" TC	1 1/2" TC	2" TC	2" TC
Drain	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
<b>Pumps</b>						
Pump Type	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal
Motor HP (KW)	3.0 (2.2)	3.0 (2.2)	5.0 (3.7)	7.5 (5.5)	7.5 (5.5)	15.0 (11.0)
RPM @ 60/50 HZ****	3450 (2900)	3450 (2900)	3450 (2900)	3450 (2900)	3450 (2900)	3450 (2900)
<b>UV Sterilization</b>						
Type	254 nm	254 nm	254 nm	254 nm	254 nm	254 nm
<b>Final Filter</b>						
Style	Single	Single	Multi-Round	Multi-Round	Multi-Round	Multi-Round
Rating	0.2 Micron	0.2 Micron	0.2 Micron	0.2 Micron	0.2 Micron	0.2 Micron
Quantity	1	1	3	3	3	3
Length	10"	20"	10"	20"	20"	30"
<b>Electrical</b>						
Standard Voltage	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH
Optional Voltage	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH
<b>System Dimensions**</b>						
L x W x H inch (cm)	37 x 48 x 67 (94 x 121 x 170)	37 x 48 x 67 (94 x 121 x 170)	58 x 71 x 60 (147 x 180 x 152)	58 x 71 x 60 (147 x 180 x 152)	58 x 71 x 60 (147 x 180 x 152)	57 x 72 x 72 (145 x 183 x 183)
Weight lb. (Kg)	1500 (680)	1500 (680)	1500 (680)	2500 (1134)	2500 (1134)	3000 (1361)

\* Product flow rates and recovery are based on equipment test parameters

\*\* Does not include operating space requirements

\*\*\*\* Operation at 50 HZ supply will reduce unit pressures and flow rates. Consult factory for details.

## Operating Limits

Maximum Feed Temperature °F (°C)	185 (85.00)	Maximum Free Chlorine ppm	0
Minimum Feed Temperature °F (°C)	40 (4.44)	Maximum pH (Continuous)	11
Maximum Ambient Temperature °F (°C)	120 (48.89)	Minimum pH (Continuous)	5
Minimum Ambient Temperature °F (°C)	40 (4.44)	Maximum pH (Cleaning 30 Min.)	12
Minimum Suction Pressure ft (m)	4 ft (1.2)	Minimum pH (Cleaning 30 Min.)	2
Maximum Operating Pressure psi (bar)	125 (8.6)	Maximum Turbidity NTU	<1

## S Series Units

### Standard Features

- Standard flow ranges from 10 to 250 GPM
- Modular design for easy expansion
- Epoxy-coated steel frame for floor mounting
- Stainless steel, high efficiency, sanitary supply pump
- UV sterilization system
- Sub-micron absolute filtration system
- High purity diaphragm shut off valves
- Stainless steel pressure gauges
- Sanitary tri-clamp connections
- cGMP compliant design

### Optional Features

- Duplex pump system
- Duplex final filtration system
- Water quality monitoring system
- Flow or pressure monitoring system
- Ozone generation and distribution system
- Pure water cooling/heating system
- Pure water divert system
- Cartridge ultra-filtration system
- PP, PVDF, SS pipe manifolds

# iPOLISHER - S Series

## Specifications

Model	S-125	S-150	S-175	S-200	S-250
<b>Design</b>					
Distribution Flow Rate GPM (LPM)*	125.0 (473.2)	150.0 (567.8)	175.0 (662.5)	200.0 (757.1)	250.0 (946.4)
Draw Flow Rate GPM (LPM)	100.0 (378.5)	120.0 (454.3)	130.0 (492.1)	155.0 (586.7)	175.0 (662.5)
Supply Pressure PSIG (BAR)*	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)	125.0 (8.6)
Max Temp °F (°C)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)	185.0 (85.0)
<b>Connections</b>					
Suction	2 1/2" TC	3" TC	4" TC	4" TC	4" TC
Discharge	2 1/2" TC	3" TC	4" TC	4" TC	4" TC
Drain	1/2"	1/2"	1/2"	1/2"	1/2"
<b>Pumps</b>					
Pump Type	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal	Sanitary Centrifugal
Motor HP (KW)	20.0 (14.7)	25.0 (18.4)	25.0 (18.4)	25.0 (18.4)	40.0 (29.4)
RPM @ 60/50 HZ****	3450 (2900)	3450 (2900)	3450 (2900)	3450 (2900)	3450 (2900)
<b>UV Sterilization</b>					
Type	254 nm	254 nm	254 nm	254 nm	254 nm
<b>Final Filter</b>					
Style	Multi-Round	Multi-Round	Multi-Round	Multi-Round	Multi-Round
Rating	0.2 Micron	0.2 Micron	0.2 Micron	0.2 Micron	0.2 Micron
Quantity	7	7	7	7	12
Length	20"	30"	30"	30"	30"
<b>Electrical</b>					
Standard Voltage	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH	460V/60 HZ/3 PH
Optional Voltage	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH	230V/60 HZ/3 PH
<b>System Dimensions**</b>					
L x W x H inch (cm)	81 x 84 x 101 (206 x 213 x 257)	81 x 84 x 101 (206 x 213 x 257)	81 x 84 x 101 (206 x 213 x 257)	81 x 84 x 101 (206 x 213 x 257)	76 x 102 x 93 (193 x 259 x 236)
Weight lb. (Kg)	4000 (1361)	4000 (1361)	4000 (1361)	4000 (1361)	5500 (2495)

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Minimum Ambient Temperature °F (°C)	40 (4.44)	Maximum pH (Cleaning 30 Min.)	12
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- Duplex pump system
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