

For Residential and Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series PWRO440

Whole House Reverse Osmosis Systems

Floor Mount

Connection Size: 3/4" (20mm)

Max. Productivity: 2200, 4400 and 6600 gpd

Watts whole house floor mount reverse osmosis system with adjustable recovery. The PWRO440 series uses advanced design with state-of-the-art technologies and high-quality components to ensure years of trouble-free performance. Includes many standard features that are only available as options on other reverse osmosis systems.

Features

- Powder coated steel frame
- Inlet solenoid valve
- 20" prefilter
- Prefilter pressure gauge
- Multistage centrifugal pump
- Low-pressure protection with microprocessor auto reset
- Tank level input (dry contact)
- Pretreatment interlock input (dry contact)
- 2 1/2" liquid filled pump pressure gauge
- Stainless steel pressure vessel(s)
- Product flow meter
- Reject flow meter
- Concentrate needle valve
- Non-metallic recycle needle valve
- Feed water and product water TDS monitor

Added Capabilities

- Input for auto shutoff when storage tank is full
- Input for auto shutoff when pre-treatment is in regeneration

Applications

- Whole house
- Boiler feed water
- Humidifiers
- Greenhouses
- Process Water
- Car wash spot-free

PURE WATER



Series PWRO440

System Specifications

Membrane Size: 4" x 40" (102 x 1016mm)

Average membrane rejection: 98%

Prefilter: 2.5" x 20" (63.5 x 508mm)

Product Water Connection: 5/8" tubing OD (18mm)

Reject Water Connection: 5/8" tubing OD (18mm)

Feed Water Pressure (minimum): 20 psi (138 kPa)

Electrical Requirement: 230 VAC 60 Hz, 1 PH

Note: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Note: For indoor installation only.

Options

MODEL NO.	DESCRIPTION
PWTNK165PKG	165 gal tank whole house option*
PWTNK300PKG	300 gal tank whole house option*
PWTNK500PKG	500 gal tank whole house option*

*Includes atmospheric storage tank, product float switch, and repressure pump with built in controls.

Note: For indoor installation only.

Performance

	PWRO4401	PWRO4402	PWRO4403
Maximum Productivity (gallons per day) / (lpd)	2200 / 8328	4400 / 16,656	6600 / 24,984
Recovery (user adjustable)	15 - 75%	25 - 75%	32 - 75%
Number of Membranes	1	2	3
Replacement Membrane	PWMEM2200		
Feed Water Required (maximum)	10 gpm (38 lpm)	12 gpm (45 lpm)	14 gpm (53 lpm)
Drain Required (maximum)	10 gpm (38 lpm)	12 gpm (45 lpm)	14 gpm (53 lpm)
Motor Horse Power	$\frac{3}{4}$	1	1 $\frac{1}{2}$
Electrical Requirement	10 amps	12 amps	15 amps
Dimensions W x D x H	20" x 20" x 50" (600 x 600 x 1270mm)	20" x 20" x 50" (600 x 600 x 1270mm)	20" x 26" x 50" (600 x 660 x 1270mm)
Shipping Weight (estimated lbs)	120 lbs / 54 kgs	150 lbs / 68 kgs	180 lbs / 82 kgs

Notes: Maximum production based on a feed water of 77°F, SDI < 1, 1000 ppm TDS, and pH 7. Individual membrane productivity may vary (± 15%). May be operated on other feed waters with reduced capacity. Percent rejection is based on membrane manufacture's specifications; overall system percent rejection may be less.

Feed Water Guidelines

pH 6 to 9

Hardness (maximum) Less than 1 grain per gallon as CaCO₃ (Softened) or anti-scale chemical injection if not softened (contact your Watts representative)

Feed Water Pressure (minimum) 20psi

Temperature 35 - 100°F (2 - 38°C)

Free Chlorine (maximum) None Allowed

Iron (maximum). Less than .1mg/L

Oil and H₂S None Allowed

Turbidity Less than 1.0 NTU

Silt Density Index Less than 5.0 SDI

Notes:

* For all other guideline information please contact your Watts representative.

Note: Feed Water must be pretreated for scale prevention (softened), de-chlorinated (Carbon Filter), and free of sediment.



A Watts Water Technologies Company



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