

## 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
- FRP Pressure Vessels
- 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

### ⚠ WARNING

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

### NOTICE

For indoor installation only.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

**NOTICE**

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

**Performance**

	PWRO4401	PWRO4402	PWRO4403
Ordering Code	7100152	7100153	7100154
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	3/4	1	1 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

**NOTICE**

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.

**Options**

MODEL NO.	ORDERING CODE	DESCRIPTION
PWTNK165PKG	7100459	165 gal tank whole house option*
PWTNK300PKG	7100460	300 gal tank whole house option*
PWTNK500PKG	7100461	500 gal tank whole house option*

**NOTICE**

Must purchase separate; RO system requires separate RO storage tank/delivery pump - refer to Options table above

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

**NOTICE**

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**Feed Water Guidelines**

- pH . . . . . 6 to 9
- Hardness (maximum) . . . . . Less than 1 grain per gallon as CaCO<sub>3</sub> (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 H<sub>2</sub>S . . . . . 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.

