

Oxygen Radical Source ORS

Evactron ORS Specifications and Use

<http://evactron.com/>

ORS (Oxygen Radical Sources) for Evactron® D-C Models 25, 40 and 45

The Standard ORS-s is supplied with each system unless optional ORS is ordered.



ORS-s
Standard Evactron ORS

- Two Piece Assembled body
- KF 40 fittings between pieces
- Viton O-rings and valve seals
- High vacuum tested to $< 5 \times 10^{-7}$ Torr
- Detachable electrode/match assembly
- Low vapor pressure pipe thread sealant used
- MKS micropirani gauge
- Two-way solenoid valve for vacuum shut-off
- Variable solenoid valve for gas flow control.
- Three-way valve for selection of a plasma feed gas or dry Nitrogen for purging
- Compatible with vacuum systems of electron microscopes that operate in the 10^{-5} - 10^{-6} Torr range.



ORS-h
High Vacuum ORS

- One piece ss body
- KF 40 fitting to chamber
- Viton O-rings and valve seals
- He leak tested to $< 10^{-8}$ atm cc/sec
- MKS micropirani gauge with VCR fitting
- High vacuum compatible shutoff valve with Swagelok fitting
- No pipe thread fittings exposed to high vacuum
- High vacuum compatible shutoff valve with viton seal
- ORS-h is designed to be pumped to 10^{-8} Torr range
- Variable solenoid valve controls flow
- Three way valve selects Nitrogen purge or Plasma gas



ORS-u
Ultra-High Vacuum ORS

- One piece Body
- CF 2.75 flange attachment fits ORS to chamber
- All metal seals and valve seats
- He Leak tested to $< 10^{-9}$ atm cc/sec
- Ultra low permeation of outside gases into the vacuum
- MKS micropirani gauge with VCR fitting
- Can be baked up to 80° C
- High vacuum compatible shut-off valve with viton seal
- Variable solenoid valve controls flow
- Three way valve selects Nitrogen purge or Plasma gas

Other ORS Options

ORS-C This model is similar to the ORS-s but has a manual needle valve to adjust flow and a MKS 945 pirani vacuum sensor. *For Evactron-c model only.*

ORS-10 This model is similar to the ORS-c but has only a variable solenoid valve to control flow and no separate shut off valve. *For Evactron-10 model only.*



XEI SCIENTIFIC, INC.

1755 EAST BAYSHORE RD, SUITE 17
REDWOOD CITY, CA 94063
MAIN 1.650.369-0133 1.800.500.0133
FAX 650.363.1659 info@evactron.com
sales@evactron.com 1.415.566.5774

