

Nor-Cal offers a standard vacuum chamber, which incorporates the features required by many of our surface science customers at an affordable price. The chamber's geometry offers maximum flexibility, making it suitable for many types of studies and experiments. Seventeen ports can accommodate viewports, doors, feedthroughs, manipulators or analytical instruments. This design can be used as a platform and modified to meet your own specific requirements.

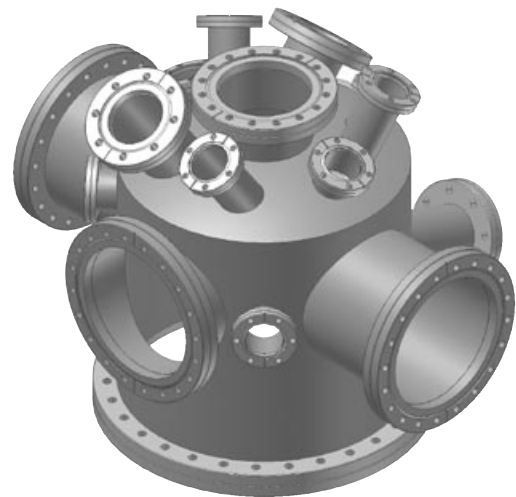
SPECIFICATIONS

Materials

- Body and flanges:** 304 stainless steel
- Finish:** Electropolished inside and out
- Pump flange:** 14⁵/₈ inch female wire seal or 14 inch CF flange
- Port tubing:** Oversized 1³/₄ on all 2³/₄ CF flanged ports
- Ports:** 17, with CF flanges
- Temperature range:** ≤450°C.
- Vacuum range:** ≥10⁻¹⁰ Torr
- Leak rate:** ≤1 × 10⁻⁹ standard cc/sec.

Order Information

| MODEL NUMBER | PUMPING PORT FLANGE (PORT 17) |
|--------------|-------------------------------|
| SAC-12WS | 14.62 Female Wire Seal |
| SAC-12CF | 14.00 CF |



Surface Analysis Chamber Port Configuration

| PORT NUMBER | FLANGE TYPE | TUBE OD | TARGET POINT | FOCAL LENGTH | POLAR ANGLE |
|-------------|-----------------------|-------------------------------|--------------|--------------|-------------|
| 1 | 6.00 CF | 4 | B (0,0,8) | 7.50 | 0° |
| 2 | 8.00 CF | 6 | B (0,0,8) | 7.50 | 90° |
| 3 | 2.75 CF | 1 ³ / ₄ | B (0,0,8) | 7.25 | 90° |
| 4 | 8.00 CF | 6 | A (-2,0,8) | 8.50 | 90° |
| 5 | 6.00 CF | 4 | A (-2,0,8) | 7.25 | 90° |
| 6 | 4.50 CF | 2 ¹ / ₂ | A (-2,0,8) | 8.50 | 40° |
| 7 | 2.75 CF | 1 ³ / ₄ | A (-2,0,8) | 8.25 | 35° |
| 8 | 2.75 CF | 1 ³ / ₄ | A (-2,0,8) | 6.50 | 23° |
| 9 | 4.50 CF | 2 ¹ / ₂ | A (-2,0,8) | 9.50 | 35° |
| 10 | 2.75 CF | 1 ³ / ₄ | E (0,0,6) | 7.25 | 90° |
| 11 | 8.00 CF | 6 | C (2,0,8) | 8.50 | 90° |
| 12 | 2.75 CF | 1 ³ / ₄ | C (2,0,8) | 9.00 | 35° |
| 13 | 2.75 CF | 1 ³ / ₄ | C (2,0,8) | 6.50 | 23° |
| 14 | 2.75 CF | 1 ³ / ₄ | C (2,0,8) | 9.00 | 25° |
| 15 | 4.50 CF | 2 ¹ / ₂ | C (2,0,8) | 10.00 | 110° |
| 16 | 2.75 CF | 1 ³ / ₄ | C (2,0,8) | 7.75 | 40° |
| 17 | 14.62 FWS or 14.00 CF | 12 | B (0,0,8) | 8.00 | 180° |
| 18 | 2.75 CF | 1 ³ / ₄ | D (0,0,10) | 7.25 | 90° |