

Rotating Cage Autoclave (RCA)

ITEM	QTY	DESCRIPTION
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(1) Rotating Cage Autoclave (RCA)

P/N: AC-400-M

Similar to Drawing #20420-1553

- Alloy C-276 Solid Forging, 5" I.D. x 11.75" Deep
- 1-Gallon capacity
- Design Criteria: 300°C (572°F) & 28 MPa (4,060 PSI)
- MAWP: 35 MPa (5,075 PSI)
- Bolted lid closure
- PTFE seal ring for operation up to 250°C (482°F); up to 28 MPa (4060 psi)
- C-276 seal ring for operation up to 300°C (572°F); up to 28 MPa (4060 psi)
- (4) 1/4" HiP ports in vessel lid
- (3) 3/8" NPT ports in vessel lid (plugged for electrodes)
- (2) 1/4" HiP valves for I/O gas
- (5) 1/4" HiP ports in vessel bottom
- (1) 1/4" HiP port in vessel bottom for drain
- (1) 1/4" HiP drain valve
- Safety burst disk assembly; C-276 housing with C-276 burst disk
- C-276 Pressure transducer with LED display
- NACE Sour Service approved analog pressure gauge
- SCR heater system; 240V-30A single phase
- Heater band with insulation jacket
- (4) Vessel lid mounted coupon holders, each holding
- (3) 50mm x 25mm x 5mm coupons that are isolated from holder
- (2) Stirring shaft mounted coupon holders, each holding
- (2) 50mm x 25mm x 5mm coupons that are isolated from holder
- Heavy Duty, CORTEST Inline variable speed magnetic-stirring device
- C-276 stir-shaft and impeller; 100-3000 RPM
- Materials Chemical Analysis and Strength Mill Certificates
- Factory Pressure Test, ASME Section VIII, Div. 1 Certificate

AC30 Controller

Drawing # 13300-032

- PLC based control
- 8" Color touch panel
- Temperature and variable speed stirring control
- Over temperature safety and alarms
- Over and under pressure safety and alarms
- Test/Cycle timer
- Temperature, Pressure, Stir RPM, and Test Duration data recording
- Recorded data may be downloaded to flash drive for processing
- 110/240 VAC auto-sensing input
- User adjustable viewing angle

Stand

- Fixed head design with retractable autoclave body (latest design)
- Heavy duty frame construction (foot print to be ~ 36" long x 24" wide)
- Industrial powder coated finish (Black)
- Retractable castors for easy stationary installation or mobility
- Houses autoclave and control enclosure
- Manual, hand-crank, body lowering assembly (Hand wheel to be ~ 10" diameter)
- S.S. Top work tray with no lip around edge of stand (latest design)
- Tool kit for operation and maintenance of system

Coupon Rack, Rotating Cage

- Designed in accordance with ASTM G170 & G184
- Accommodates (8) 75mm L x 19mm W x 3mm T coupons
- PEEK construction (limited to 250°C operation)
- Necessary mounting hardware

C-276 Spare Parts Kit (2.2-10 Liter) Includes:

- (4) Vessel bolts
- (25) PTFE Vessel seal rings
- (1) C-276 Vessel seal ring
- (1) Solution TC
- (1) Heater band TC
- (2) Safety burst disks
- (5) HiP sleeves
- (5) HiP gland nuts
- (2) HiP port plugs
- (1) System fuse set
- (2) Foot bushing
- (1) Graphite guide bushings for stirrer (short)
- (1) Graphite guide bushings for stirrer (long)
- (2) PTFE O-rings for stirrer
- (2) Stirrer Bearings
- (1) 1/4" HiP valve
- (3) 6' (2m) 1/4" tubing

Services Includes:

Documentation Package Includes:

- Installation / Operation Manuals on USB Flash Drive
- Material CERTS on USB Flash Drive
- As-Built Blueprint Drawings on USB Flash Drive

Equipment Installation/Training at Buyer's Site Includes:

- Inspection of materials
- Equipment installation at customer's site
- List of required materials and utilities
- (1) Cortest Technician
- Cortest pays airfare, lodging, and meals
- 3 days at buyer's site

Installation Notes:

- It is required that necessary utilities (electric and water) be located within 3ft of the system installation point within the lab.
- Additionally all test gases should be available within 3ft of the system installation point within the lab with necessary pressure regulators installed on the supply lines.

- Gas supplies will need to be connected to the test system, the required piping should be available on-site to make these connections.
- More details regarding the system installation may be provided after receipt of PO and after the overall system design has been finalized.

Export Crating

- (1) Large IPPC crate

Terms & Conditions

- Cortest Shipment: 16 to 18 weeks A.R.O.

Rotating Cylinder Electrode (RCE)

ITEM	QTY	DESCRIPTION
(1)		<u>Rotating Cylinder Electrode Lid Assembly (RCE)</u> P/N: ACO-110 <i>Drawing # 22410-376</i> • 220°C (428°F), 20 MPa (2900 psi) • Electrochemical components (1) C-276 HPHT water-cooled reference electrode (1) C-276 Counter Electrode holder (1) Pt-Nb counter electrode (5) Teflon electrical insulation washers • Accommodates 20mm or 80mm tubular specimen, electrically isolated from lid • C-276 Magnetic Stirrer; 2,000 RPM Maximum • Insulated compression fitting for specimen contact wires • Requires connection to potentiostat in order to obtain electrochemical measurements (sold separately)