

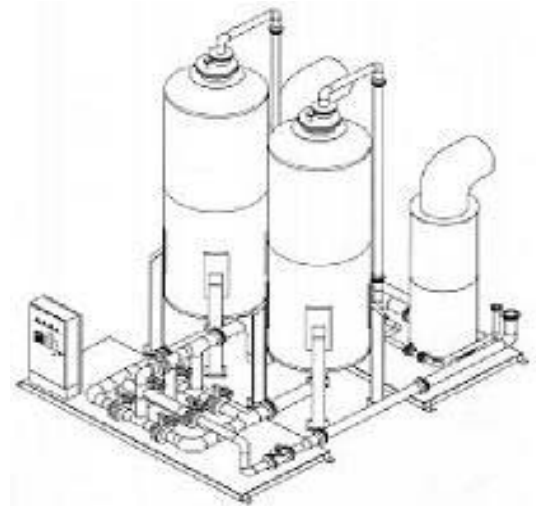
# TONNAGE SERIES

The Tonnage Series are designed for applications requiring large amounts of oxygen, or to replace bulk liquid oxygen storage vessels. Plants can be designed for outdoor or covered (standard) installations.



These plants are PLC controlled, and are inclusive of oxygen analyser. This Plant generates 283 sm<sup>3</sup>/hr (10,000 SCFH) of Oxygen for injection into a gold leaching process to improve Gold Recoveries and reduce Cyanide consumption. Plants with capacities up to 700m<sup>3</sup>/hr can be fabricated in our facility.

| MODEL     | Tonnes of Oxygen Per Day | Sm <sup>3</sup> /hr | Nm <sup>3</sup> /hr | Air & Oxygen Receivers (Litres) |
|-----------|--------------------------|---------------------|---------------------|---------------------------------|
| OA4.0-MT  | 4.00                     | 137.1               | 126.9               | 7,000                           |
| OA4.5-MT  | 4.50                     | 154.2               | 142.8               | 8,000                           |
| OA5.0-MT  | 5.00                     | 171.3               | 158.6               | 9,000                           |
| OA5.5-MT  | 5.50                     | 188.4               | 174.5               | 10,000                          |
| OA6.0-MT  | 6.00                     | 205.6               | 190.4               | 10,500                          |
| OA6.5-MT  | 6.50                     | 222.7               | 206.2               | 11,500                          |
| OA7.0-MT  | 7.00                     | 239.8               | 222.1               | 12,500                          |
| OA7.5-MT  | 7.50                     | 257.0               | 238.0               | 13,000                          |
| OA8.0-MT  | 8.00                     | 274.1               | 253.8               | 14,000                          |
| OA8.5-MT  | 8.50                     | 291.2               | 269.7               | 15,000                          |
| OA9.0-MT  | 9.00                     | 308.4               | 285.6               | 16,000                          |
| OA9.5-MT  | 9.50                     | 325.5               | 301.4               | 17,000                          |
| OA10.0-MT | 10.00                    | 342.6               | 317.3               | 18,000                          |
| OA11.0-MT | 11.00                    | 376.9               | 349.0               | 20,000                          |
| OA12.0-MT | 12.00                    | 411.2               | 380.7               | 21,000                          |
| OA13.0-MT | 13.00                    | 445.4               | 412.5               | 23,000                          |
| OA14.0-MT | 14.00                    | 479.7               | 444.2               | 25,000                          |
| OA15.0-MT | 15.00                    | 513.9               | 475.9               | 26,500                          |
| OA20.0-MT | 20.00                    | 685.2               | 634.6               | 35,000                          |



500 m<sup>3</sup>/hr Oxygen, Petrochemical Plant, New Zealand

- A. Larger sizes are available on request.
- B. Gas is measured at 1 atmosphere and 0°C.
- C. Standard Oxygen Pressure is 310 kPag (45psig).

## ***STANDARD FEATURES ON TONNAGE PLANTS***

- PLC Control of all process valves and alarm functions
- Integrated Oxygen Analyser fitted on Tonnage plants.
- Dew Point Analyser to measure content of moisture with Alarms
- All Electrically sensitive equipment are individually fuse protected
- Power surge protected
- Superior Internal screen design allows for less stress on Molecular sieve
- Superior Filtration Package.
- Air treatment Package mounted on a common skid for ease of installation
- Electronic Capacitive Sensor Auto Drains are fitted to all filters
- Electronic Auto Drains linked to PSA Alarm functions
- All Filters have D/P Gauges and Liquid Level site glass  
(Site glass not available on Pressure vessel Filters)
- Filter D/P Alarm. If filters not changed when due.
- Electronic Liquid Moisture alarm fitted to PSA (Shutdown alarm)
- Dual PSA Skid makes for smaller footprint and easier installation.
- Superior Stainless Steel valve design makes for lower maintenance
- Superior Valve Actuators makes for lower maintenance (4 million cycles before maintenance)
- All piping is welded hard piped sch-40 piping.
- Only flexible piping used is connected to Instrument Air for Actuators.
- Easy access to components for easier Maintenance.
- Superior Proprietary Muffler design for quieter operation on PSA and Desiccant dryers.

## ***SUPERIOR FILTRATION PACKAGE***

1. Large Mist Eliminator Filter with 8 – 15 year service life on the Element
2. 3 Stage Coalescing filters.
3. Large Carbon Adsorption Tower for Oil and Oil Vapour Removal
4. Desiccant Air Dryer for Super Dry Feed Air
5. Dryer Post Particle Filter.
6. Bekomat Electronic Auto Drains on all liquid Filters, Carbon Tower and Mist Eliminator