



## WATER TREATMENT EQUIPMENT CHECKLIST

### APPLICATION

- Water analysis (send 500 mL (16 oz) sample to laboratory for analysis)
- On-site testing (total chlorine, free chlorine, hydrogen sulfide, hardness, iron, silt density index)
- Capacity required (cubic meters or gallons required per day) peak and average
- Water quality required (turbidity, hardness, iron or manganese leakage allowable, TDS)
- Peak flow rate (liters per minute or gallons per minute)
- Consumption pattern, e.g. continuous treated water required (duplex or triplex system), intermittent or reservoir
- Water temperature and pressure (flowing and static)
- Other problems (iron, taste, odour, staining, cloudiness or colour, oil, chlorine)

### OPERATION AND REGENERATION

- Demand regeneration (pressure differential or volumetric meter)
- Delayed demand regeneration (regenerates only when needed. but delayed to a preset time-of-day)
- Parallel or alternating operation (all units on line or one on standby)

### FACILITIES

- Access to installation site (width and height of doorways)
- Space requirement (total area, ceiling height)
- Incoming pipe size and maximum flow rate available for backwashing
- Electrical power available (voltage hertz and phase)
- Access to drain facilities, drains capable of carrying waste flow
- Floor loadings (allowable operating weight)
- Local Code and Bylaws applicable

### SPECIAL CONSTRUCTION OR ACCESSORIES (may affect delivery)

- Materials of construction: steel, stainless steel or fiberglass tanks, piping, etc.
- ASME code tanks (need address of the installation site at the time of order)
- Special tank sizes (additional sideshell, low clearance)
- Finish painting (standard is epoxy enamel)
- Skid-mounting: pre-piping and/or pre-wiring on skid-mounted, multiple tank systems
- Seismic (earthquake) protection
- Special media ports: manways, hand-holes, inspection ports, sample ports
- Special controls: PLC, Data logging, remote monitoring, alarms
- Pre-filtration aids (cyclone separator, static mixer, chemical feed)
- NEMA rating required (NEMA 4 usually standard)