



**Process Description:**

Pretreated feedwater enters the integral break tank via a prefilter which protects the reverse osmosis membrane from particulate contamination. Built-in high pressure pumps on each stream pressurise the water to the spirally wound polyamide membrane. The water which passes through the membrane is purified (permeate) eg 98% of dissolved salts are removed and the remainder (concentrate) flushes the contaminants to drain. The purified water (permeate) from the Elite is then piped to a storage reservoir or, for the direct feed model, to the distribution ringmain. Unused permeate is returned to the Elite and reprocessed. The twin stream facility enables continuous production of purified water during periods of maintenance and cleaning.

**The Elite Twin Stream RO incorporates:**

- Particulate prefilter.
- Feedwater break/chemical cleaning tank.
- Microprocessor control monitoring/cleaning.
- Permeate and feedwater digital conductivity meters.
- Autoflush and permeate rinse.
- Permeate and concentrate flow meters.
- Cleaning pipework safety interlock.
- Permeate sample port.

**Accessories available:**

- Additional filtration and softener pretreatment.
- Programmable standby time clock (direct feed models).
- Installation of distribution ringmain.

**Technical Specification**

|                                    | RO12HP | RO16HP | RO20HP | RO24HP | RO30HP |
|------------------------------------|--------|--------|--------|--------|--------|
| Permeate output                    |        |        |        |        |        |
| @ 10°C (m <sup>3</sup> /hr)        | 0.50   | 0.67   | 0.80   | 1.00   | 1.25   |
| Max feed (m <sup>3</sup> /hr)      | 1.50   | 1.50   | 2.40   | 2.40   | 2.40   |
| Drain flow (m <sup>3</sup> /hr)    | 0.22   | 0.29   | 0.33   | 0.54   | 0.54   |
| Recovery rate (m <sup>3</sup> /hr) | 70%    | 70%    | 70%    | 70%    | 70%    |
| Dimensions:                        |        |        |        |        |        |
| Height                             | 1750   | 1750   | 1750   | 1750   | 1750   |
| Width mm                           | 400    | 800    | 800    | 800    | 800    |
| Length mm                          | 920    | 920    | 920    | 920    | 920    |
| Weight Kg                          | 140    | 180    | 200    | 200    | 200    |

**Purite Limited**  
 Bandet Way, Thame,  
 Oxon., OX9 3SJ. England.  
**Tel:** +44 (0) 1844 217141  
**Fax:** +44 (0) 1844 218098  
**web site:** <http://www.purite.com/>  
**e-mail:** [mail@purite.com](mailto:mail@purite.com)



ISO9001/EN 46001