

# Commercial Hot & Cold Water Softeners

Essential water softening technology for:

- Hotels
- Restaurants
- Hospitals
- Nursing homes
- Food processing plants
- Many commercial applications



# Commercial Hot & Cold Water Softeners

## Applications

An extensive range of water softeners providing treatment of hard water for all commercial and industrial plant such as dishwashers, glasswashers, laundry equipment, heating systems etc.

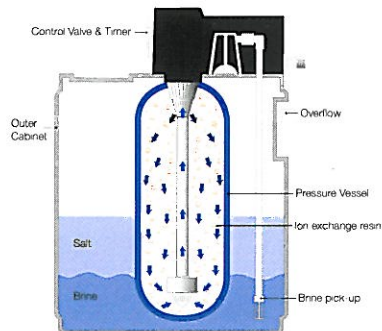
## Benefits

Softening water provides important financial and operational benefits:

- prevents scale formation on metal surfaces
- improves performance of heating elements
- lowers servicing costs
- reduces machines downtime
- increases equipment life
- improves cleaning quality
- reduces outlay on cleaning chemicals

## Operation

Water passes through a cylinder containing ion exchange resin beads. The hardness salts - calcium and magnesium ions - are attracted to the resin and removed from the water supply. The resin is automatically cleaned or 'regenerated' by rinsing a small amount of brine through the cylinder. The accumulated hardness does not enter the water supply, but is automatically flushed away to a nearby drain. Refreshed by regeneration, the resin is again ready to remove hardness minerals.



Cabinet softener operation

## Controlling regeneration

The frequency of regeneration depends on the hardness and volume of water being used. It takes place automatically and is initiated in one of the following ways:

### Timer Controlled

The frequency is set by pushing in the pins on the skipper wheel. Once set the softener will automatically regenerate at the pre-determined interval - normally at 2am. There is also a manual override to enable a regeneration to be initiated at any other time.

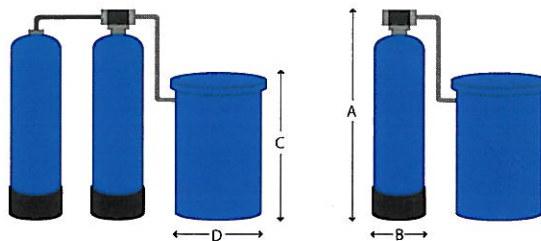
### Commander Control

Regeneration still typically takes place at 2am. This unit measures the daily water usage and statistically averages the last 7 days consumption - ignoring very low or zero water usage. The computer will determine if the softener has sufficient remaining capacity to supply the next days needs. If not it will initiate regeneration.

### Duplex Meter Controlled

The system comprises of two cylinders and a control valve. The softening capacity of each vessel is entered into the control valve and regeneration is initiated once the first cylinder is exhausted. The second cylinder will then operate whilst the first regenerates and vice versa. This system provides an uninterrupted soft water supply and is by far the most versatile and the most cost effective for salt consumption.

CABINET WATER SOFTENERS (Cold, Hot)					
MODEL>	AT5	AT10/ HW10	AT14/ HW14	AT18/ HW18	AT23
HEIGHT (mm)	540	731	14624	17062	28437
WIDTH (mm)	275	5849	11699	13648	22750
DEPTH (mm)	450	222	263	263	263
CAPACITY (Ltrs)	660	1494	2250	2900	3700
SALT (Kg) per regeneration	0.7	1.5	2.4	2.8	3.5
WATER PRESSURE	Minimum 1.5 Bar. Maximum 4.0 Bar				
WATER TEMPERATURE	Maximum 35°C. 60°C. Protect from freezing.				
ELECTRICAL SUPPLY	24/240v VAC 3 amps - must be on a maintained supply (constant)				
CONNECTIONS	¾ inch inlet and outlet (other fittings available on request) Adequate drainage and overflow facilities required.				



Duplex configuration for 24 hour supply      Simplex configuration

SIMPLEX & DUPLEX WATER SOFTENERS (Cold, Hot)														
CYLINDER MODEL>	10	14	18	20	23	30 HW30	40	50 HW50	60	70	80 HW80	120	180	250
A (mm)	652	779	845	982	820	1109	1338	1592	1440	1592	1592	1831	1795	2024
B (mm)	204	204	238	204	254	254	254	254	305	331	331	356	534	610
C (mm)	584	584	628	628	800	800	800	870	870	1060	1060	1060	1080	1080
D (mm)	324	324	444	444	465	465	465	560	560	560	560	560	755	755
CAPACITY (Ltrs)	1494	2278	2929	3255	3743	4882	6643	8304	9965	11625	13286	19930	29895	41520
SALT (Kg) per regeneration	1.5	2.4	2.8	3	3.5	4.2	5.6	7	8	9.5	10.5	16	23.5	32
Minimum 1.5 Bar. Maximum 4.0 Bar														
Maximum 35°C. 60°C. Protect from freezing.														
24/240v VAC 3 amps - must be on a maintained supply (constantly connected)														
¾ inch to 2 inch, dependant on unit size (other fittings available on request) Adequate drainage and overflow facilities required.														