

# PLANET TECHNOLOGY – ALC



## ANNUAL POWER SAVINGS IN EXCESS OF \$1k AND NO EXTRACTION CANOPY REQUIRED

Making the right choice for the planet has never been as easy, or as good for your bottom line.

By recovering the heat from the steam generated during the operation of the dishwasher to heat the incoming rinse water, the Starline ALC will provide your establishment with:

- ✓ Significant reductions in operating costs in excess of \$2,000 per year\*
- ✓ Considerable reduction in steam emissions which eliminates the need for an extraction canopy in most locations\*\*.

### Additional Benefits:

- Improved operating environment: Drawing air from the machine during the cycle ensures minimal emissions during the cycle and when the hood is opened.
- Same great dishwasher: The ALC is constructed from heavy duty stainless steel and will provide excellent wash results year-after-year, as per the renowned AL.
- Lower cost water treatment options: The cold inlet water required by the ALC is cheaper and easier to treat than a hot water supply.
- Polish-free glasswasher: Operating 40 second cycles efficiently on cold water and providing accelerated drying results makes the ALC a ideal part of a high capacity polish-free glasswashing system.

**STARLINE**<sup>®</sup>  
PROFESSIONAL WASH SYSTEMS  
CALL US ON 0800 STARLINE  
INFO@WASHTECH.CO.NZ

\*Savings calculations assume 20°C inlet temperature, with 20 medium cycles run per hour, 8 hours per day, 360 days per annum, at average power cost of \$0.20 per kWh.

\*\*Full certification from SEED is available on request.

 0800 782 754

 [www.starline.co.nz](http://www.starline.co.nz)



# ALC vs AL

Energy Consumption Comparison  
Indicative and for Discussion Purposes only

Assumptions:  
Days usage per annum 360  
Hours operation per day 8  
Average cycles per hour 30  
Power cost (kWh) \$0.20



Starline AL  
Standard  
Hot Water  
3 Phase/15 Amp  
40/60/90 second cycles  
Canopy Required



Starline ALC  
Heat Recovery  
Cold Water  
3 Phase/15 Amp  
40/60/90 second cycles  
Canopy not required\*

Rinse Water Usage (per day):		
Water consumption per cycle (L)	2.4	2.4
Total water usage per hour (L)	72	72
Total water usage per day (L)	576	576
Rinse Water Heating (per day):		
Onsite heating to 65°C (from 20°C)	31.91	
Standard machine heating to 83°C **	19.85	
Dishwasher with HRU to 83°C ***		30.49
Daily Rinse Water Heating Cost:	\$ 10.35	\$ 6.10
Annual Rinse Water Heating Cost:	\$ 3,727.00	\$ 2,195.00
Forecast Annual Cost Savings:		\$ 1,531.00
Forecast 10-Year Cost Savings:		\$ 15,314.98

Plus: Reduced Cost of Extraction: \$ \_\_\_\_\_  
The ALC emits significantly less steam and is certified for installation without an extraction canopy.

Plus: Reduced Cost of Water Treatment: \$ \_\_\_\_\_  
It is generally more economical to treat cold water, making dishwashers with HRUs plus a softening system ideal for hard water sites.

Total Forecast Savings For Your Restaurant: \$ \_\_\_\_\_

This is intended as an indicative analysis of the potential differences in operating costs for discussion purposes only. The total operating cost of both models will be higher once the water used to fill the machine and wash heating etc. are accounted for.

\*SEED certified for installation without a canopy in most locations. Certification available on request.

\*\*Reduction in inlet temp between onsite heating and dishwasher will vary due to a number of factors. In this example it is assumed to be 10°.

\*\*\*In factory trials the Washtech ALC HRU produces >20° of heating from a 20° cold water supply when operating on the medium cycle.