

phase2 Water Purifier

Cost Analysis (Assuming list price)



Cost Per Litre (CPL) Analysis of phase2 (Australian Dollars), fully configured as a Starter System with 2 Expansion Packs, at list price. Capital cost is amortised over 5 and 7 years.

Compare *phase2* with other technologies to reveal the true "cost per litre" of each system. The basic conclusion is that mainly due to energy-savings, *phase2* produces water much more cheaply than traditional distillers, and other water purification technologies...

Annual Production Capacity:

phase2 produces 18 litres per hour x 24 x 365 x 0.8 (assuming 80% utilisation)
 Total 126,144 litres/year (33,327 gallons/year)

CAPEX:

Fully configured *phase2* system at list price:

1 x Starter System	\$16,508
2 x Expansion Packs	<u>\$14,398</u>
Total	\$30,906

CAPEX, amortised at 12% pa over 5 years \$8,168 / 126,144 = **\$0.065 per litre** (\$0.245 per gallon)
 CAPEX, amortised at 12% pa over 7 years \$6,482 / 126,144 = **\$0.051 per litre** (\$0.194 per gallon)

OPEX:

Water: On a 2 second setting (typical), *phase2* waste/distillate ratio is 22/78%, so to produce 126,144 litres/year requires 161,723 litres input.
 At \$1.00 per thousand litres (kL), annual cost of water is:
 \$161.72 / 126,144 = \$0.001 per litre (\$0.005 per gallon)

Electricity: *phase2* consumes 0.12 kWh per litre, so at \$0.12 per kWh: = \$0.014 per litre (\$0.055 per gallon)

Service and maintenance: A Consumables Pack is required every 6 months, plus 2 hours internal labour. Also assume worst-case scenario that a service call for 4 hours was required during the year:

2 x Consumables Pack (\$294 ea)	\$588	
4 x Labour (\$30/hr)	\$120	
4 x Service Call (\$60/hr)	<u>\$240</u>	
Total per year	\$948 / 126,144	= \$0.008 per litre (\$0.028 per gallon)

OPEX Total = **\$0.023 per litre** (\$0.088 per gallon)

Total Production Cost of Water (CAPEX + OPEX):

- Amortised over 5 years **\$0.088 per litre** (\$0.333 per gallon)
 - Amortised over 7 years **\$0.074 per litre** (\$0.282 per gallon)
- After Amortising Capital:**
- OPEX Only **\$0.023 per litre** (\$0.088 per gallon)

Find out more...

For information on the phase2 water purifier, or to discuss your needs, contact H2AU directly:

+61 2 4351 9200

water@h2au.com

Or contact your distributor...



Prices in Australian Dollars, as at 14 January 2004. Subject to change without notice. Cost analysis is an example only and may vary according to local costs, interest rates, etc. Prices are ex-factory. Excludes GST, duties, tariffs and other charges if applicable. Interest for amortisation is compounded monthly. Gallons are US Gallons.

phase2 Water Purifier

Cost Analysis

(Assuming 30% off list price)



Cost Per Litre (CPL) Analysis of phase2 (Australian Dollars), fully configured as a Starter System with 2 Expansion Packs, at volume pricing of 30% off list price. Capital cost is amortised over 3 and 5 years.

Compare *phase2* with other technologies to reveal the true "cost per litre" of each system. The basic conclusion is that mainly due to energy-savings, *phase2* produces water much more cheaply than traditional distillers, and other water purification technologies...

Annual Production Capacity:

phase2 produces 18 litres per hour x 24 x 365 x 0.8 (assuming 80% utilisation)
 Total 126,144 litres/year (33,327 gallons/year)

CAPEX:

Fully configured *phase2* system at volume pricing, 30% off list price:

1 x Starter System	\$11,556
2 x Expansion Packs	<u>\$10,078</u>
Total	\$21,634

CAPEX, amortised at 12% pa over 3 years \$8,537 / 126,144 = **\$0.068 per litre** (\$0.256 per gallon)
 CAPEX, amortised at 12% pa over 5 years \$5,718 / 126,144 = **\$0.045 per litre** (\$0.172 per gallon)

OPEX:

Water: On a 2 second setting (typical), *phase2* waste/distillate ratio is 22/78%, so to produce 126,144 litres/year requires 161,723 litres input.
 At \$1.00 per thousand litres (kL), annual cost of water is:
 \$161.72 / 126,144 = \$0.001 per litre (\$0.005 per gallon)

Electricity: *phase2* consumes 0.12 kWh per litre, so at \$0.12 per kWh: = \$0.014 per litre (\$0.055 per gallon)

Service and maintenance: A Consumables Pack is required every 6 months, plus 2 hours internal labour. Also assume worst-case scenario that a service call for 4 hours was required during the year:

2 x Consumables Pack (\$294 ea)	\$588	
4 x Labour (\$30/hr)	\$120	
4 x Service Call (\$60/hr)	<u>\$240</u>	
Total per year	\$948 / 126,144	= \$0.008 per litre (\$0.028 per gallon)

OPEX Total = **\$0.023 per litre** (\$0.088 per gallon)

Total Production Cost of Water (CAPEX + OPEX):

- Amortised over 3 years **\$0.091 per litre** (\$0.344 per gallon)
 - Amortised over 5 years **\$0.068 per litre** (\$0.260 per gallon)
- After Amortising Capital:**
- OPEX Only **\$0.023 per litre** (\$0.088 per gallon)

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