MAINTENANCE HEATING COST ESTIMATE (1000L SPA @ 38'C)

ANNUAL AVERAGE AMBIENT TEMPERATURE

MELBOURNE														
HEATER TYPE	HEATER MODEL	AMBIENT TEMP	COP	INPUT POWER	HEAT OUTPUT	INPUT POWER (HEATER + 350W CIRC)	UNIT COST ($/kW) inc GST	WATER VOLUME	TEMP LOSS (OVER 24HR)	POWER REQ'D TO RECOVER TEMP	COST TO MAINTAIN TEMP LOSS EACH DAY			
											DAILY	WEEKLY	MONTHLY	ANNUAL
SV3	5.25 kw	18'C	1.00	5.25	5.25 kw	5.60 kw	$0.393	1000 L	4 'C	4.67 kwH	$1.96	$13.69	$59.50	$714.04
5.5kW SV Series Heat Pump	**5.50 kw**	**18'C**	**4.15**	**0.90**	**3.74 kw**	**1.25 kw**	**$0.393**	**1000 L**	4 **'C**	**4.67 kwH**	**$0.61**	**$4.30**	**$18.67**	**$224.03**
8.8kW SV Series Heat Pump	8.80 kw	18'C	4.40	1.55	6.82 kw	1.90 kw	$0.393	1000 L	4 'C	4.67 kwH	$0.51	$3.58	$15.54	$186.49
12kW SV Series Heat Pump	12.00 kw	18'C	4.58	2.05	9.39 kw	2.40 kw	$0.393	1000 L	4 'C	4.67 kwH	$0.47	$3.28	$14.26	$171.11

Notes:

1) Ambient temperate based on annual average temperatures in relevant cities
2) COP based on listed ambient temperature and an averaged COP when heating with water temp of 27'C and heating with water temp of 38'C
3) Electricity tariffs based on information listed by Canstar Blue (Oct 2023) for relevant capital cities and include 10% GST
4) Temp loss and therefore amount of heating required to maintain set temp of 38'C based on hourly temp losses with spa hard cover on and no spa use