

Table 12: Key Usage Parameters by Product

Product	Life (years)	Usage	Usage Unit	% stby	% off	% discon	Comment
Refrigerators	16	N/A	KWh/year	N/A	N/A	N/A	Assumed continuous operation. Climate factors applied (refer Table 17).
Freezers	20	N/A	KWh/year	N/A	N/A	N/A	Assumed continuous operation. Climate factors applied (refer Table 17).
Clothes Washers – top and front	12	312	Cycle pa	0%	100%	0%	Off mode derived from AS/NZS2040 registration data and is an average of off and end of cycle modes
Clothes Dryers	16	60	Cycle pa	0%	100%	0%	Average – varies by state. Reduced moisture and smaller loads than rated assumed
Dishwashers	16	175	Cycle pa	0%	100%	0%	Off mode derived from AS/NZS2007 registration data and is an average of off and end of cycle modes
Microwaves	8.5	50	Hours pa	95%	5%	0%	Off is mechanical type
Lighting – living areas	N/A	2	Hours/day	N/A	N/A	N/A	Per fitting, based on technology share and light intensity/floor area
Lighting – non living	N/A	0.5	Hours/day	N/A	N/A	N/A	Per fitting, based on technology share and light intensity/floor area
Television	10*	2600	Hours pa	40%	50%	10%	Hours increasing over time. Average new composite TV based on sales weighted model for CRT, LCD and plasma types . * Life: CRT 15 years, Projection 8 years.
VCR	8	429	Hours pa	88%	2%	10%	Few units have off mode
DVD	6	358	Hours pa	65%	25%	10%	Hours increasing. Composite of players and hard drive/recorders
Set-top Box – free-to-air digital	7	2600	Hours pa	50% *	40% *	10%	*Modes are: Active Standby/Passive Standby
Set-top Box – subscription	7	2600	Hours pa	50% *	50% *	0%	*Modes are: Active Standby/Passive Standby Pay TV boxes rarely disconnected as access key data can be lost
Home Entertainment Other	10	550	Hours pa	60%	20%	20%	Intrusive data: 20% unplugged, 18% off, 8% AS and 53% PS
Games Consoles	6	110	Hours pa	5%	75%	20%	0.3 hours per day usage
Computers – desktop	6	875	Hours pa	4%	86%	10%	Off may allow soft boot in some cases
Computers – laptop	6	600	Hours pa	25%	30%	45%	400 hours usage plus 50% added for battery charge periods
Monitors	6	390	Hours pa	60%	30%	10%	65% PC on time for usage, balance assumed to be standby
Miscellaneous IT Equipment switched	6	875	Hours pa	60%	30%	10%	Products that are usually switched off with the PC
Miscellaneous IT Equipment unswitched	6	875	Hours pa	85%	5%	10%	Products that are not often switched off with the PC
Electric Kettle	N/A	1.5	L/person/day	N/A	N/A	N/A	Few kettles have standby
Other Standby	10	1433	Hours pa	20%	40%	40%	Based on 2005 Intrusive, hours on=active standby

Notes: Refrigerators and freezers do not have usage impacts, only climate see Section 6.6.5.5. Data for pools and spas based on a sub-model developed by GWA (2007a) which has variations at a state level for pumps and heating. Water beds are adjusted by climate. Percentage of modes are share of time for non-active period. Assumed lifetimes for other products: all water heaters 12 years (except solar 15 years), cooking 20 years, AC non-ducted 10 years, AC ducted 14 years, gas non-ducted 14 years, gas ducted 20 years.