

Rinnai-Brivis Changeover and Upgrade Options (EXTERNAL HEATERS)

Existing EXTERNAL Heater	Energy Star Rating	Comparative Energy Consumption (CEC)	Closest in Operation & Energy Efficiency	Energy Star Rating	Comparative Energy Consumption (CEC)	Savings vs. Existing Heater	Better Energy Efficiency	Energy Star Rating	Comparative Energy Consumption (CEC)	Savings vs. Existing Heater	Best Energy Efficiency	Energy Star Rating	Comparative Energy Consumption (CEC)	Savings vs. Existing Heater
Brivis Model		MJ/m3/Year	Brivis Model		MJ/m3/Year	%	Brivis Model		MJ/m3/Year	%	Brivis Model		MJ/m3/Year	%
Classic														
Auto EMS 20e	3.1	169	SP421U	4.8	136	20%	BX520	5.1	132	22%	SP623EN	6.0	120	29%
Auto EMS 20e XA	3.1	169	SP421U	4.8	136	20%	BX520	5.1	132	22%	SP623EN XA	6.0	120	29%
Auto EMS 26e	2.1	188	SP430U	4.2	146	22%	BX526	5.0	133	29%	SP630EN	6.0	120	36%
Auto EMS 26e XA	2.1	188	SP430U	4.2	146	22%	BX526	5.0	133	29%	SP630EN XA	6.0	120	36%
Buffalo 52	1.1	235	BX315C	3.9	152	35%	BX520	5.1	132	44%	SP623EN	6.0	120	49%
Buffalo 85	2.0	200	BX320C	3.8	154	23%	BX520	5.1	132	34%	SP623EN	6.0	120	40%
Buffalo 85 XA	2.0	200	BX320C	3.8	154	23%	BX520	5.1	132	34%	SP623EN XA	6.0	120	40%
Buffalo 85 EMS	3.1	169	BX320C	3.8	154	9%	BX520	5.1	132	22%	SP623EN	6.0	120	29%
Buffalo 85 EMS XA	3.1	169	BX320C	3.8	154	9%	BX520	5.1	132	22%	SP623EN XA	6.0	120	29%
Buffalo 85 EMS 2	3.1	169	BX320C	3.8	154	9%	BX520	5.1	132	22%	SP623EN	6.0	120	29%
Buffalo 85 EMS 2 XA	3.1	169	BX320C	3.8	154	9%	BX520	5.1	132	22%	SP623EN XA	6.0	120	29%
Buffalo 120	1.7	210	BX326C	3.5	159	24%	BX526	5.0	133	37%	SP630EN	6.0	120	43%
Buffalo 120 XA	1.7	210	BX326C	3.5	159	24%	BX526	5.0	133	37%	SP630EN XA	6.0	120	43%
Buffalo 120 EMS	2.4	187	BX326C	3.5	159	15%	BX526	5.0	133	29%	SP630EN	6.0	120	36%
Buffalo 120 EMS XA	2.4	187	BX326C	3.5	159	15%	BX526	5.0	133	29%	SP630EN XA	6.0	120	36%
Buffalo 120 EMS 2	2.4	187	BX326C	3.5	159	15%	BX526	5.0	133	29%	SP630EN	6.0	120	36%
Buffalo 120 EMS 2 XA	2.4	187	BX326C	3.5	159	15%	BX526	5.0	133	29%	SP630EN XA	6.0	120	36%
Buffalo HE5	4.4	142	SP421U	4.8	136	4%	BX520	5.1	132	7%	SP623EN	6.0	120	15%
Buffalo HE7	5.0	133	BX526	5.0	133	0%	-	-	-	-	SP630EN	6.0	120	10%
Buffalo 15	2.8	176	BX315C	3.9	152	14%	BX520	5.1	132	25%	SP623EN	6.0	120	32%
Buffalo 20	2.8	176	BX320C	3.8	154	13%	BX520	5.1	132	25%	SP623EN	6.0	120	32%
Buffalo 20 XA	2.8	176	BX320C	3.8	154	13%	BX520	5.1	132	25%	SP623EN XA	6.0	120	32%
Buffalo 26	2.8	176	BX326C	3.5	159	10%	BX526	5.0	133	24%	SP630EN	6.0	120	32%
Buffalo 26 XA	2.8	176	BX326C	3.5	159	10%	BX526	5.0	133	24%	SP630EN XA	6.0	120	32%
BX315	3.9	152	BX315C	3.5	152	0%	BX520	5.1	132	13%	SP623EN	6.0	120	21%
BX320	3.8	154	BX320C	3.5	154	0%	BX520	5.1	132	14%	SP623EN	6.0	120	22%
BX320 XA	3.8	154	BX320C	3.5	154	0%	BX520	5.1	132	14%	SP623EN XA	6.0	120	22%
BX326	3.5	159	BX326C	3.5	159	0%	BX526	5.0	133	16%	SP630EN	6.0	120	25%
BX326 XA	3.5	159	BX326C	3.5	159	0%	BX526	5.0	133	16%	SP630EN XA	6.0	120	25%
BH20	5.1	131	BX520	5.1	132	-1%	-	-	-	-	SP623EN	6	120	8%
BH28	5.5	126	BX526	5.0	133	-6%	-	-	-	-	SP630EN	6	120	5%
MPS														
MPS HE 20e	5.1	132	SP521EN	5.0	133	-1%	-	-	-	-	SP623EN	6.0	120	9%
MPS HE 20e V2	5.1	132	SP521EN	5.0	133	-1%	-	-	-	-	SP623EN	6.0	120	9%
MPS HE 20e V2 XA	5.1	132	SP521EN XA	5.0	133	-1%	-	-	-	-	SP623EN XA	6.0	120	9%
MPS HE 20e V3	5.1	132	SP521EN	5.0	133	-1%	-	-	-	-	SP623EN	6.0	120	9%
MPS HE 20e V3 XA	5.1	132	SP521EN XA	5.0	133	-1%	-	-	-	-	SP623EN XA	6.0	120	9%
MPS HE 30e	5.1	132	SP530EN	5.0	133	-1%	-	-	-	-	SP630EN	6.0	120	9%
MPS HE 30e XA	5.1	132	SP530EN XA	5.0	133	-1%	-	-	-	-	SP630EN XA	6.0	120	9%
MPS HE 30e V3	5.5	126	SP530EN	5.0	133	-6%	-	-	-	-	SP630EN	6.0	120	5%
MPS HE 30e V3 XA	5.5	126	SP530EN XA	5.0	133	-6%	-	-	-	-	SP630EN XA	6.0	120	5%
MPS ME 20e	4.0	150	SP421U	4.8	136	9%	SP521EN	5.0	133	11%	SP623EN	6.0	120	20%
MPS ME 20e V2	4.0	150	SP421U	4.8	136	9%	SP521EN	5.0	133	11%	SP623EN	6.0	120	20%
MPS ME 20e V2 XA	4.0	150	-	-	-	-	SP521EN XA	5.0	133	11%	SP623EN XA	6.0	120	20%
MPS ME 20e V3	4.0	150	SP421U	4.8	136	9%	SP521EN	5.0	133	11%	SP623EN	6.0	120	20%
MPS ME 20e V3 XA	4.0	150	-	-	-	-	SP521EN XA	5.0	133	11%	SP623EN XA	6.0	120	20%
MPS ME 30e	4.0	150	SP430U	4.2	146	3%	SP530EN	5.0	133	11%	SP630EN	6.0	120	20%
MPS ME 30e XA	4.0	150	-	-	-	-	SP530EN XA	5.0	133	11%	SP630EN XA	6.0	120	20%
MPS ME 30e V3	4.0	150	SP430U	4.2	146	3%	SP530EN	5.0	133	11%	SP630EN	6.0	120	20%
MPS ME 30e V3 XA	4.0	150	-	-	-	-	SP530EN XA	5.0	133	11%	SP630EN XA	6.0	120	20%
Universal														
SP521U	5.0	133	SP521EN	5.0	133	0%	-	-	-	-	SP623EN	6.0	120	10%
SP521U XA	5.0	133	SP521EN XA	5.0	133	0%	-	-	-	-	SP623EN XA	6.0	120	10%
SP530U	5.0	133	SP530EN	5.0	133	0%	-	-	-	-	SP630EN	6.0	120	10%
SP530U XA	5.0	133	SP530EN XA	5.0	133	0%	-	-	-	-	SP630EN XA	6.0	120	10%
SP535U	5.0	133	SP530EN XA	5.0	133	11%	-	-	-	-	SP630EN XA	6.0	120	10%
SP615U	6.0	120	SP623EN	6.0	120	0%	-	-	-	-	-	-	-	-
SP623U	6.0	120	SP623EN	6.0	120	0%	-	-	-	-	-	-	-	-
SP623U XA	6.0	120	SP623EN XA	6.0	120	0%	-	-	-	-	-	-	-	-
SP630U	6.0	120	SP630EN	6.0	120	0%	-	-	-	-	-	-	-	-
SP630U XA	6.0	120	SP630EN XA	6.0	120	0%	-	-	-	-	-	-	-	-
SP635U	6.0	120	SP630EN XA	6.0	120	0%	-	-	-	-	-	-	-	-

Operating Cost Comparative Analysis

The 'Comparative Energy Consumption' (CEC) value relates to the Australian Gas Association (AGA) testing for the purposes of Energy Star Ratings. The CEC represents the MJ/Hour/m3 of gas consumption for the reference home heat load, for 600 hours operation per annum. To compare the gas operating costs for a specific home (in \$), one requires the 'Heated Area' of the home (m²), the Ceiling Height (m), the Cost of Gas (cents / MJ), and the CECs for each appliance.

Annual Gas Cost = Heated Volume x CEC x Cost of Gas.

Comparative Analysis Example

System	Old heater: (1.7 Star) circa 1979	New heater: (6 Star)	Savings
Heated Area (m ²)	220	220	
Ceiling Height (m)	2.4	2.4	
Heated Volume (m ³)	528	528	
Cost of Gas (Cents/MJ)	2.09	2.09	
CEC	210	120	43%
Annual Gas Cost (\$)	\$2,317	\$1,324	\$993

Actual savings may vary due to variations in factors such as fuel cost, house size, thermal insulation and heater usage patterns. * Source: Sustainability Victoria 2020

NOTE:

Changeover units may require modifications to be undertaken on items such as duct size connections, flue arrangements, zone connections, etc. Always refer to Installation Manuals for details. It is the installers responsibility to ensure the replacement unit is fit for purpose and consideration must be given to the functional differences between the 'new & old' appliance. These difference must be communicated to the product owner. For more information refer to: **Rinnai-Brivis Sales Bulletin-B17-003 Heater**