






















2020 Cast Iron



									
	ESC	ES2	Series 3	Series 2	X-2	Independence & Independence PV	MegaSteam	MPO-IQ (DV optional)	V8H
Fuel	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Oil	Oil	Oil
Efficiency (AFUE)	Up to 85%	85%	84%	84%	84%	81%-83%	86%	 87%	85% (87% w/opt. kit)
Input MBH (GPH-oil)	60-243	70-280	70-280	38-276	70-280	62-385	0.60-1.65	0.60-1.65	0.75-2.60
Sizes	7	7	7	8	7	10 (IN) 4 (INPV)	4	5	7 (water) 7 (steam)
Venting	Direct	Chimney (lined)	Chimney	Chimney	Chimney	Chimney Induced Draft	Chimney	Chimney Direct	Chimney
Water or Steam	Water	Water	Water	Water	Water	Steam	Steam	Water	Water or Steam
Control System						Standard	Standard		
IQ Option Card Compatible*				No Has Integrated LWCO	No Has Integrated LWCO	No	No		No
Domestic Hot Water**	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Alliance SL/LT or optional tankless coil	Alliance SL or Alliance LT	Alliance SL/LT or optional tankless coil
Heat Exchanger	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	3-Pass Cast Iron	3-Pass Cast Iron	Cast Iron
Warranty	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime	10 Years Limited	10 Years Limited	Limited Lifetime	Limited Lifetime

** All domestic hot water systems are optional

NOTE: This guide does not include all boilers/products manufactured by U.S. Boiler Company, Inc. Please refer to current U.S. Boiler Co. trade price book, product catalog, website (www.usboiler.net), or contact your local sales representative of Burnham brand products for information on the complete product line.



- Alliance LT & Alliance SL**
- Indirect water heaters
 - Thermoplastic lined (LT) or Hydrastone lined (SL)
 - Highly corrosion resistant
 - Use with any boiler
 - 10 year limited warranty



- IQ Option Cards***
- Plug and play installation of enhanced boiler functions. Features include Outdoor Reset, Low Water Cutoff, and Aquastat.



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Product Information Model, Size, Efficiency, Ratings

ESC – Gas, Cast Iron, Water

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
ESC3C	85.5	60	52	45	3
ESC4C	85.4	91	78	68	3
ESC5C	85.3	121	104	90	3
ESC6C	85.2	152	130	113	3
ESC7C	85.0	182	156	136	3
ESC8C	84.5	212	180	157	4
ESC9C	84.0	243	206	179	4

ES2 – Gas, Cast Iron, Water

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
ES23	85.0	70	59	51	4
ES24	85.0	105	89	77	5
ES25	85.0	140	119	103	6
ES26	85.0	175	149	130	6
ES27	85.0	210	178	155	7
ES28	85.0	245	208	181	7
ES29	85.0	280	238	207	8

Series 3 – Gas, Cast Iron, Water

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
303	84.0	70	59	51	4
304	84.0	105	88	77	5
305	84.0	140	117	102	6
306	84.0	175	146	127	6
307	84.0	210	176	153	7
308	84.0	245	205	178	7
309	84.0	280	234	203	8

Series 2 – Gas, Cast Iron, Water

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
202E	84.0	38	32	28	3
203E	84.0	69	58	50	4
204E	84.0	103	87	76	5
205E	84.0	138	116	101	6
206E	84.0	172	145	126	6
207E	84.0	207	174	151	7
208E	84.0	241	202	176	7
209E	84.0	276	232	202	8

X-2 – Gas, Cast Iron, Water

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
X-203	84.0	70	59	51	4
X-204	84.0	105	88	77	5
X-205	84.0	140	117	102	6
X-206	84.0	175	146	127	6
X-207	84.0	210	176	153	7
X-208	84.0	245	205	178	7
X-209	84.0	280	234	203	8

Independence – Gas, Cast Iron, Steam

Model No.	AFUE %	Input MBH	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Net AHRI (Sq. Ft.)	Vent Size (In.)
CHIMNEY VENTED MODELS (INDEPENDENCE)						
IN3	81.9	62	51	38	158	4
IN4	82.0	105	87	65	271	5
IN5	82.0	140	115	86	358	6
IN6	82.1	175	144	108	450	6
IN7	82.1	210	173	130	542	7
IN8	82.1	245	202	152	633	7
IN9	82.2	280	231	173	721	8
IN10	79.5*	315	260**	195	812	8
IN11	79.5*	349	288**	216	900	9
IN12	79.5*	385	318**	239	996	9
POWER VENTED MODELS (INDEPENDENCE PV)						
IN3PV	83.2	62	52	39	163	4
IN4PV	82.2	105	87	65	271	5
IN5PV	82.2	140	116	87	363	6
IN6PV	82.2	175	145	109	454	6

*Thermal Efficiency **Gross Output

Alliance LT – Indirect Water Heater, Thermoplastic-lined

Model	Storage (gal.)	First Hour (gal./hr.) @140°F	Boiler Output (6 GPM @ 200°F) MBTU/hr.	Flow Rate (gal./min.)	Standby Heat Loss (°F/hr.)
AL30LT	30	225	150	6	0.72
AL55LT	55	255	150	6	0.72
AL80LT	80	280	150	6	0.56
AL80CLT*	80	395	235	14	0.45
AL119CLT*	119	495	295	14	0.42

Alliance LT – Indirect Water Heater, Thermoplastic-lined

Model	Storage (gal.)	First Hour (gal./hr.) @140°F	Boiler Output (6 GPM @ 200°F) MBTU/hr.	Flow Rate (gal./min.)	Standby Heat Loss (°F/hr.)
AL27SL	27	225	150	6	0.78
AL35SL	35	230	150	6	0.72
AL50SL	50	250	150	6	0.56
AL70SL	70	270	150	6	0.45
AL70CSL	70	385	235	14	0.45

MPO-IQ – Oil, 3-Pass Cast Iron, Water

Model No.	AFUE %	Burner Cap. (GPH)	DOE Heat Cap. (MBH)	Net AHRI (MBH)	Flue Collar (In.)
MPO-IQ84	87.0	0.60	74	64	5
MPO-IQ115	87.0	0.80	101	88	5
MPO-IQ147†	87.0	1.05	129	112	6
MPO-IQ189†	87.0	1.35	167	145	6
MPO-IQ231†	87.0	1.65	203	177	7

† DV Option Available

MegaSteam – Oil, 3-Pass Cast Iron, Steam

Model No.	AFUE %	Burner Cap. (GPH)	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Net AHRI (Sq. Ft.)	Flue Collar (In.)
MST288	86.0	0.75	92	69	288	6
MST396	86.0	1.05	127	95	396	6
MST513	86.0	1.35	164	123	513	6
MST629	86.0	1.65	201	151	629	7

V8H – Oil, Cast Iron, Water or Steam

Model No. (W-Water) (S-Steam)	AFUE %	Burner Cap. (GPH)	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Net AHRI (Sq. Ft.)	Flue Collar (In.)
V8H3W V8H3S	85.0† 85.1	1.05 0.75	125 91	109 68	— 283	6
V8H4W V8H4S	85.3† 85.3	1.35 1.05	162 127	141 95	— 396	6
V8H5W V8H5S	85.3† 85.4	1.65 1.35	198 164	172 123	— 512	7
V8H6W V8H6S	85.3† 85.7	1.90 1.65	228 201	198 151	— 629	7
V8H7W V8H7S	85.3† 84.7	2.10 2.10	252 252	219 189	— 787	8
V8H8W V8H8S	82.0* 81.4*	2.35 2.35	269** 266**	234 200	— 833	8
V8H9W V8H9S	82.3* 82.3*	2.60 2.60	299** 298**	260 224	933	8

*Thermal Efficiency **Gross Output †Upgradable to 87% AFUE with kit

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