













2020 Condensing



							
	Aspen	Aspen Combi	Aspen Light Commercial	K2	K2 Combi	Alpine	Alpine Commercial
Fuel	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Gas/LP	Gas/LP
Efficiency (AFUE)	 95% to 96%	 95%	Up to 95% Thermal Efficiency	 95%	 95%	 95%	Up to 95% Thermal Efficiency
Input MBH	85-270	155	320 & 399	80-180	120, 150, & 180	80-285	399-800
Sizes	5	1	2	5	2	1 (floor) 4 (wall & floor)	5
Venting	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Water or Steam	Water	Water	Water	Water	Water	Water	Water
Control System	Sage2.3	Sage2.3	Sage2.3	Sage2.3	Sage2.3	Sage2.3	Sage2.2
Domestic Hot Water*	Alliance SL or Alliance LT	Built-in	Alliance SL or Alliance LT	Alliance SL or Alliance LT	Built-in	Alliance SL or Alliance LT	Alliance SL or Alliance LT
Heat Exchanger	Stainless Steel (fire tube)	Stainless Steel (fire tube)	Stainless Steel (fire tube)	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Warranty**	5-yr Parts	5-yr Parts	5-yr Parts	5-yr Parts	5-yr Parts	5-yr Parts	1-yr Parts

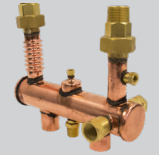
CONDENSING BOILER FEATURED OPTIONAL ENHANCEMENTS



Sage Zone Control Calculates heating demand from different zones and “re-sizes” the boiler to increase condensing, save fuel, and prevent short-cycling. Choice of Circulator Control Panel or Valve Control Panel.

K2 Fastpipe

Make K2 connections* simple with this ready-made primary/secondary piping solution that saves installation time and cost.



*For use with heating-only K2 boilers

* All domestic hot water systems are optional, except where noted.
** Warranty not applicable for commercial installations

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



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Product Information Model, Size, Efficiency, Ratings

Aspen – Gas, Stainless Steel, Condensing

Model No.	AFUE %	Input MBH (min-max)	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	DHW Flow* Rate (GPM)	Vent Size (In.)
ASPN-085	96.0	8.5-85	79	69	—	2 or 3
ASPN-110	96.0	11-110	103	90	—	2 or 3
ASPN-155	95.0	15.5-155	145	126	—	3
ASPN-205	95.0	20.5-205	189	164	—	3
ASPN-270	95.0	27-270	252	219	—	3
COMBI MODEL						
ASPNC-155	95.0	15.5-155	145	126	4.0	3

*Flow rate based on 70° temp. rise

Aspen Light Commercial – Gas, Stainless Steel, Condensing

Model No.	AFUE %	Input MBH (min-max)	Gross Output (MBH)	Net AHRI (MBH)	MAWP (PSI)	Vent Size (In.)
ASPN-320	95.0	32-320	304	264	80	4
ASPN-399	95.0	39.9-399	379	330	80	275

K2 – Gas, Stainless Steel, Condensing

Model No.	AFUE %	Input MBH (min-max)	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	DHW Flow* Rate (GPM)	Vent Size (In.)
K2WT-080B	95.0	8-80	74	64	—	2 or 3
K2WT-100B	95.0	10-100	94	82	—	2 or 3
K2WT-120B	95.0	12-120	112	97	—	3
K2WT-150B	95.0	15-150	142	123	—	3
K2WT-180B	95.0	18-180	169	147	—	3
COMBI MODELS						
K2WTC-135B	95.0	12-120	112	97	3.3	3
K2WTC-180B	95.0	18-180	169	147	4.5	3

*Flow rate based on 70° temp. rise

Alpine – Gas, Stainless Steel, Condensing

Model No.	AFUE %	Input MBH (min-max)	DOE Heat. Cap. (MBH)	Net AHRI (MBH)	Vent Size (In.)
*80-210 MODELS ARE AVAILABLE FOR WALL ("W" suffix) OR FLOOR ("F" suffix)					
ALP080B*	95.0	16-80	72	63	2 or 3
ALP105B*	95.0	21-105	96	83	2 or 3
ALP150B*	95.0	30-150	136	118	3
ALP210B*	95.0	42-210	194	169	3
FLOOR MOUNTED MODELS					
ALP285B	95.0	57-285	262	228	3 or 4



Optional Equipment – Part Numbers

Model	Sage Zone Control		FastPipe: Ready-made Primary/Secondary Piping	LWCO Kit	Service Parts Repair Kit
	Circulator Panel	Valve Panel			
Aspen	104590-01	104589-01	N/A	105591-01	108033-01
Aspen Light Commercial	104590-01	104589-01	N/A	N/A	106260-03
K2WT	104590-01	104589-01	80-120 MBH: 106259-01 150, 180 MBH: 106259-02	105591-01	106260-02
Alpine	104590-01	104589-01	N/A	100592-01	105319-03
Alpine Commercial	104590-01	104589-01	N/A	N/A	N/A
X-C	N/A	N/A	N/A	N/A	106260-02

Alpine Commercial – Gas, Stainless Steel, Condensing

Model	RATINGS			Net AHRI Water Rating (MBH)	Thermal Efficiency	Water Content (Gal.)	Heat Transfer Area (SQ. FT.)	Gas Connection	Supply & Return Connection	Intake/Vent Diameter
	Minimum Input (MBH)	Maximum Input (MBH)	Gross Output (MBH)							
ALP399C	80	399	375	326	94.1	3.4	41.8	3/4" NPT	1-1/2" NPT	4"
ALP500C	100	500	475	422	97.0	4.2	50.8	3/4" NPT	1-1/2" NPT	4"
ALP600C	125	625	594	517	95.0	5.4	76.2	1" NPT	2" NPT	6"
ALP700C	145	725	689	599	95.0	5.4	76.2	1" NPT	2" NPT	6"
ALP800C	160	800	760	661	95.0	6.2	87.0	1" NPT	2" NPT	6"

Alliance LT – Thermoplastic-lined Indirect Water Heater

Model	Storage (gallons)	First Hour (gal./hr.)		Boiler Output ² (6 GPM @ 200°F) BTU/hr.	Boiler Water Continuous Flow		Standby Heat Loss (°F/hr.)
		@115°F	@140°F		Flow Rate (gal./min.)	Head Loss (ft./w.c.)	
AL30LT	30	295	225	150,000	6	7	0.72
AL55LT	55	325	255	150,000	6	7	0.72
AL80LT	80	350	280	150,000	6	7	0.56
AL80CLT*	80	485	395	235,000	14	14	0.45
AL119CLT*	119	605	495	295,000	14	20	0.42

*Commercial model

Alliance SL – Hydrastone-lined Indirect Water Heater

Model	Storage (gallons)	First Hour (gal./hr.)		Boiler Output ² (6 GPM @ 200°F) BTU/hr.	Boiler Water Continuous Flow		Standby Heat Loss (°F/hr.)
		@115°F	@140°F		Flow Rate (gal./min.)	Head Loss (ft./w.c.)	
AL27SL	27	295	225	150,000	6	7	0.78
AL35SL	35	300	230	150,000	6	7	0.72
AL50SL	50	320	250	150,000	6	7	0.56
AL70SL	70	340	270	150,000	6	7	0.45
AL70CSL*	70	475	385	235,000	14	14	0.45

*Commercial model

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