ALUMAX

250 - 1065 kW Condensing Boiler with Premix Burner

A-west distributors

HIGH EFFICIENCY CONDENSING BOILER WITH PREMIX BURNER

- High efficiency up to 108%
- Small foot print
- Environmentally friendly
- Cascade up to 16 boilers together
- Up to 8:1 modulation ratio
- Low flue gas temperature (35°C - 65°C)
- MODBUS BMS interface
- Flue gas temperature to return water temperature difference 3°C - 5°C
- Optional outdoor weatherproofing

European quality floor standing condensing boiler with high tech aluminium heat exchanger and premix burner.

AIRATHERM

Exclusive Australian distributors for Gassero

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CONDENSING TECHNOLOGY WITH ALUMAX FLOOR STANDING CONDENSING BOILER

ADVANTAGES OF ALUMAX FLOOR STANDING CONDENSING BOILERS

- Heat exchanger with aluminium-silicon alloy.
- Metal fibre coated stainless steel premix burner.
- High efficiency premix burner technology provides optimum combustion efficiency throughout the entire modulation range.
- Environmental friendly condensing technology. Alumax boilers provide class 6 NOx.
- Up to 8:1 modulation ratio
- 3°C - 5°C flue gas and boiler return water temperature differential provides high energy saving.
- High efficiency even at high capacities. (Up to 108% at 50°C/30°C and 97.5% at 80°C/60°C)
- Alumax boilers are compatible with building MODBUS automation systems.
- Alumax boilers can be cascaded up to 16 boilers (1 master and up to 15 slave boilers)
- MODBUS BMS Interface

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EXCELLENT THERMAL CONDUCTIVITY AND UP TO 108% EFFICIENCY WITH INNOVATIVE CASTING TECHNOLOGY WITH SPECIAL FLEXIBLE ALUMINIUM ALLOY

- Protective oxide coating on aluminium body provides excellent corrosion resistance and long life.
- Heat transfer area is increased by pins located on the interior surface of aluminium body. Pins are developed with high heat transfer technology and increases the heat transfer coefficient creating resistance to slow down high temperature flue gas as it passes through them. This efficiently transfers maximum heat to the water.
- Thanks to the applied technology of the aluminium sections, higher boiler temperatures are transferred to the water with final flue gas temperature of 56°C to atmosphere. With this technology, high efficiency can be achieved with low emissions.

Superior safety systems

- High operating water pressure safety of 600kPa pressure.
- Automatic air vent.
- Low water pressure safety checks the boiler water pressure continuously. If the pressure drops below 0.8 bar, the system will shut down automatically.
- High temperature safety; if boiler water temperature exceeds 95°C, sensors will shut down the system to protect itself.
- Flue gas temperature safety; this detects flue gas temperature with flue gas sensor. If flue temperature exceeds the limit, the system will shut down automatically.
- Frost protection; if the boiler water temperature drops below 4°C the boiler will automatically heat the water to a temperature of 15°C to avoid frost risk to the boiler.
  (Note: Boiler electrical supply must be on and boiler must be in stand-by state for using this function.)
- High and low voltage protection; boiler is protected against voltage fluctuation.

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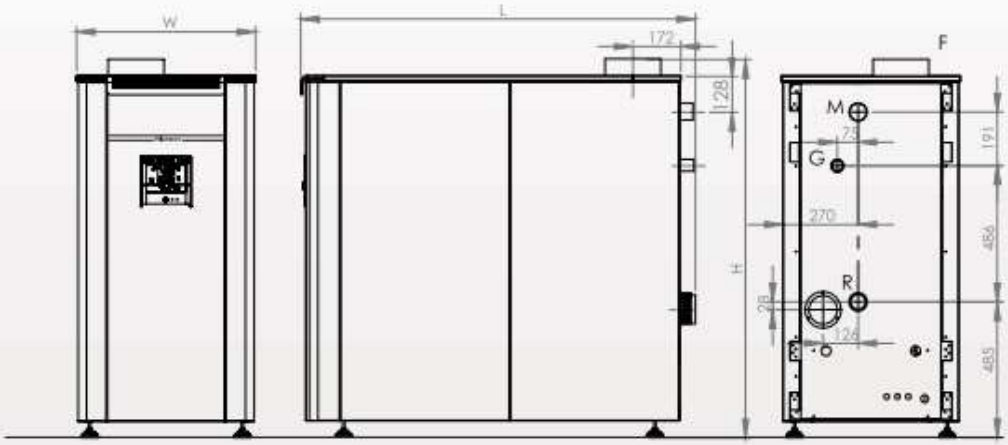
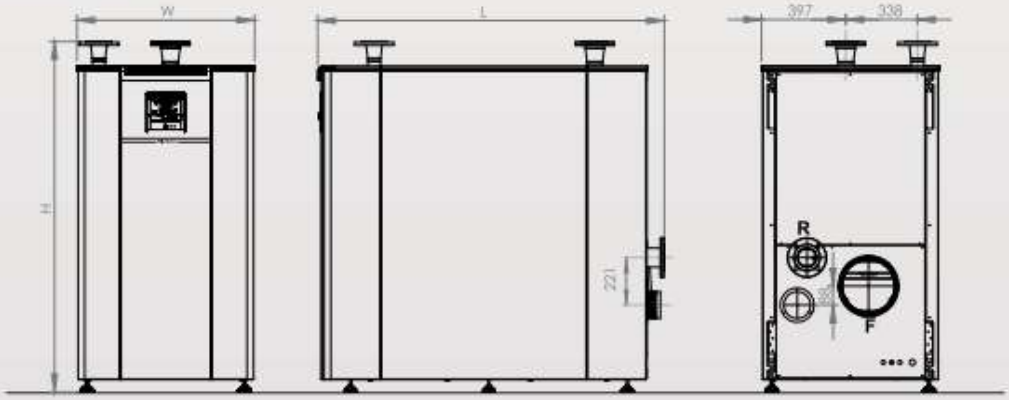
GENERAL BOILER DIMENSIONS

Alumax 250 - 300



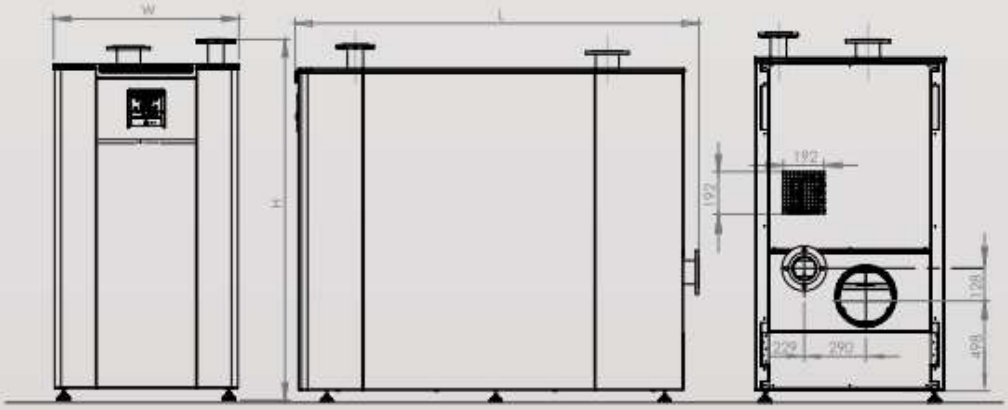
M: Water outlet connection: 50mm F: Flue diameter: 200 mm
R: Water inlet connection : 50mm G: Gas inlet : 1 ¼" W: 690 L: 1460 H: 1360mm

Alumax 350/430/535/640/710



M: Water outlet connection : 100mm F: Flue diameter: 250 mm
R: Water inlet connection : 100mm G: Gas inlet : 2½" W: 935mm L: 1715mm H: 1600mm

Alumax 880 - 1065



M: Water outlet connection : 125mm F: Flue diameter: 250 mm
R: Water inlet connection : 125mm G: Gas inlet : 2½" W: 935mm L: 2110mm H: 1600mm

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OPTIONAL ACCESSORIES FOR COMFORT USE AND ENERGY SAVINGS

AVS37 USER INTERFACE

You can adjust day - week program - holiday program - comfort program - economy - boiler setting - pool setting - legionella function - solar collector - zone control - floor heating - cascade setting - winter and summer setting.

QAA55 Room Unit:
It has to be well placed where it can be measure room temperature.

QAA75 Wireless Room Unit:
It has to be well palced where it can be measure room temperature. You can adjust with this time and day setting, operation unit (language selection), time programming, holiday setting, heating unit, DHW temperature, meintanence setting.

QAC345 Outside Air Sensor:
This is NTC type sensor. It can works between -50°C to 70° C. Tolerance between +1 / -1K. 1,5mm² or 7,2mm diameter copper cable must be use for connection. The allowed cable lenght is 120 m.

QCI345 Cascade Connection Unit

QAZ36 Immersion Type Sensor
This is NTC type sensor.
It can work between 0 - 95°C
Tolerance is +0,5 / -0,5 K.

QAD36 Clamp Type Sensor
It can work between -30°C to 125° C.
Tolerance is +0,5 / -0,5 K.

AVS82 Interface Connection Cable

QZW672 Web Server
It can work with computer or smart phone via web. You can have a possiblities of control via smart phones (iphone or android). You can put your system diagram into OZW672 with ACS790 PC software. You will see trace the system andinformations. You can control 1, 4 or 16 boilers depends on OZW model. There are a possibilities of ethernet and USB port. There are 2 digital inlet for faulty message. You can view faulty via web. It can sent a faulty message up to 4 users. It can sent faulty massages with e-mail to users via web periodically.

AVS75 Additional Module
Relay connections, solar collector connection, swimming pool water heating and 3 way valve connection can be done with this unit.

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HIGHER EFFICIENCY COMPACT BOILERS WITH HIGH CAPACITY

Higher efficiency with high capacity cascade system with premix burner

- Cascade possibilities up to 16 boilers with 1 master and up to 15 slave boilers.
- This system allows systems to work continuously even with individual boiler faults.
- Save energy with high modulating range and condensing technology.

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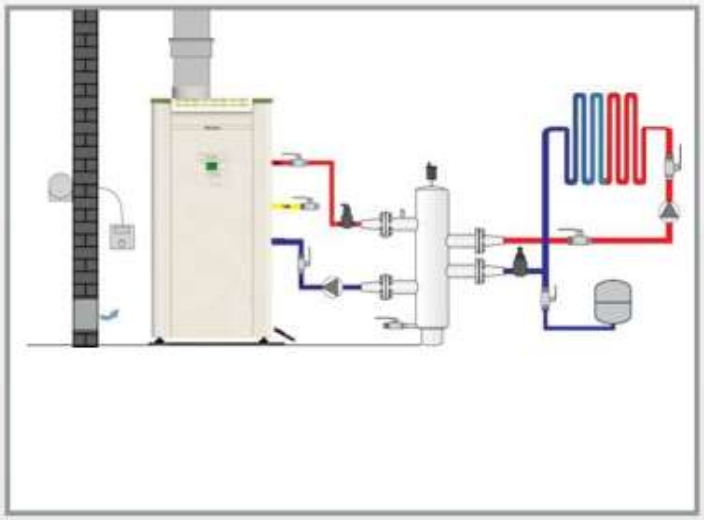
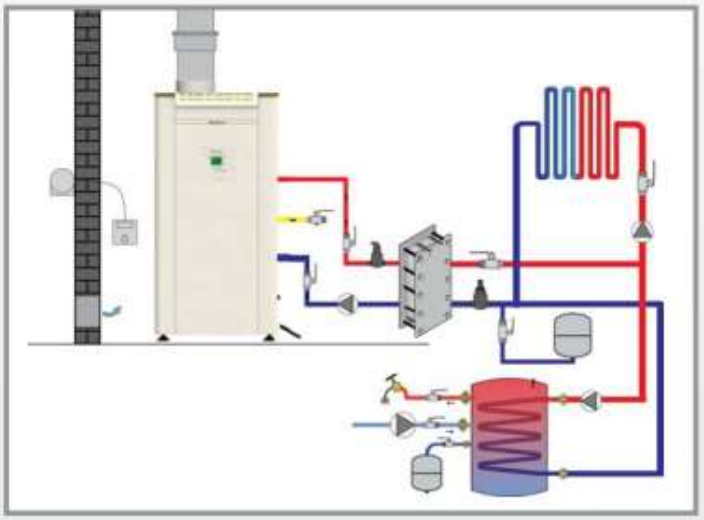
CASCADE CONNECTION SYSTEMS

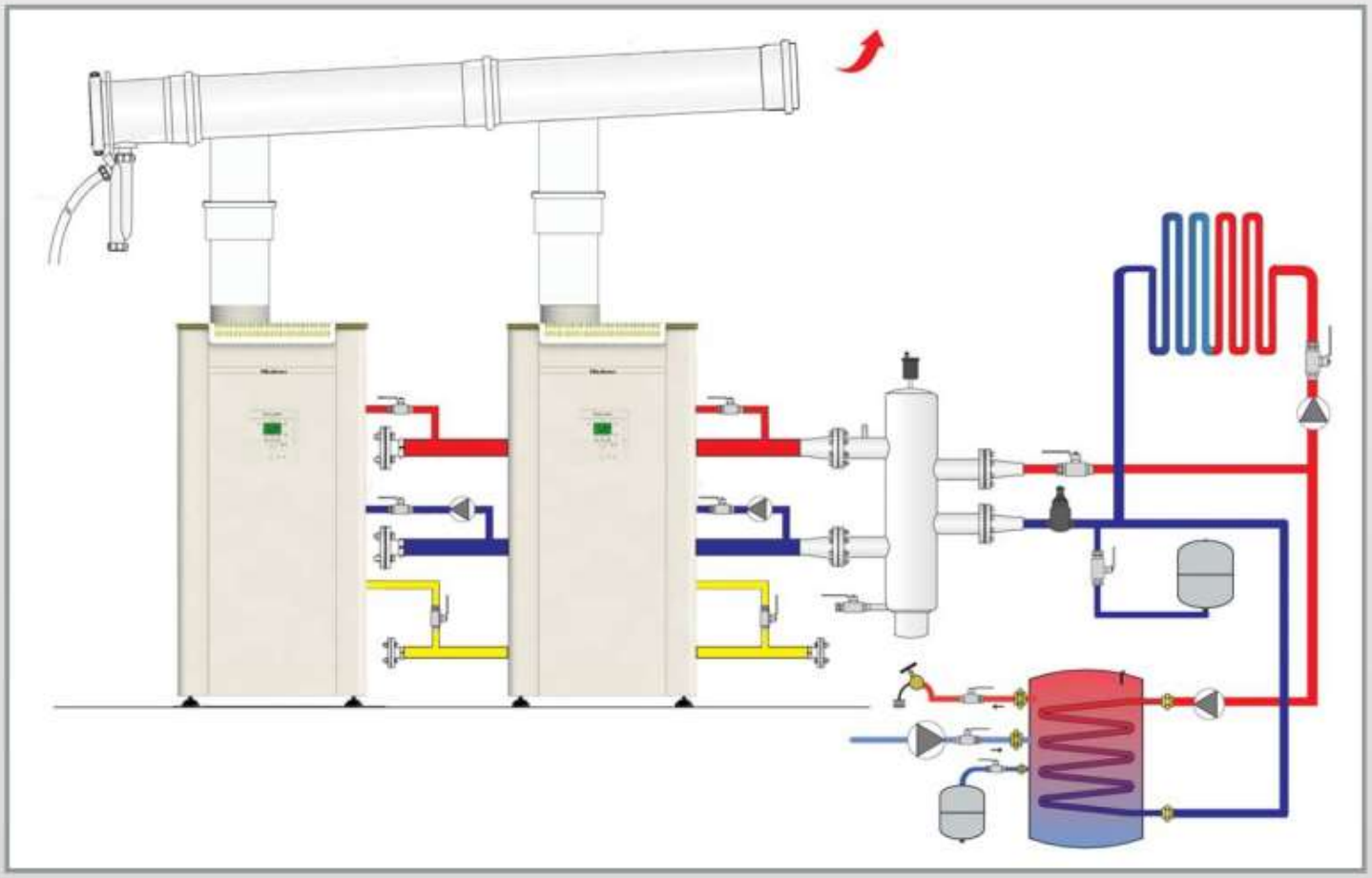
Single boiler connection example



Single boiler, heat exchanger and DHW tank connection



Double boiler cascade system



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ALUMAX TECHNICAL SPECIFICATIONS

MODEL		ALUMAX 250	ALUMAX 300	ALUMAX 350	ALUMAX 430	ALUMAX 535	ALUMAX 640	ALUMAX 710	ALUMAX 880	ALUMAX 1065	ALUMAX 1315	ALUMAX 1550
General												
Nominal output (80-60)°C high fire	kW	237	280	328	416	500	602	670	825	1000	1220	1454
Nominal output (80-60)°C low fire	kW	47	47	64	82	99	74	130	124	153	210	243
Nominal output (50-30)°C high fire	kW	254	302	352	446	541	642	712	885	1066	1315	1555
Nominal output (50-30)°C low fire	kW	51	51	70	91	107	81	146	142	172	235	266
Hi limit temperature	°C	95										
Combustion and Efficiency												
Nominal gas consumption - Natural Gas (LHV)	MJ/hr	871	1026	1206	1530	1836	2214	2468	3058	3690	4539	5364
Gas Pressure min	kPa	1.5										
Gas Pressure max	kPa	4										
Nett Efficiency @ (80-60)°C Nominal	%	98.06	98.18	98.04	97.94	98.23	97.91	97.77	97.71	97.65	97.3	97.6
Min Nett Efficiency @ (80-60)°C Nominal	%	96.00	96.06	96.26	96.75	97.11	96.98	95.72	95.72	96.88	96.50	97.07
Nett Efficiency @ (50-30)°C Nominal	%	108.11	107.61	107.06	107.96	107.64	107.47	108.70	107.52	108.18	107.18	107.40
Min Nett Efficiency @ (50-30)°C Nominal	%	105.25	106.24	106.21	105.03	106.11	106.42	104.10	104.58	104.85	104.72	104.43
Flue gas temperature (80-60)°C MAX	°C	69	72	69	69	70	68	70	70	69	70	68
Flue gas temperature (50-30)°C MAX	°C	46	59	45	46	48	45	43	46	45	46	45
NOx class		6										
NOx value	mg/kwh	35	41	34	39	21	16	23	32	32	40	37
Electric												
Main supply 50Hz	PH/AMPS	1/1.1	1/1.3	1/1.5	1/1.9	1/2.8	1/3.7	1/3.8	3/3.7	3/5.5	3/5.6	3/5.7
Connections												
Boiler water inlet/outlet connections		50mm	50mm	DIN100	DIN100	DIN100	DIN100	DIN100	DIN125	DIN125	DIN125	DIN125
Boiler gas inlet		32mm	32mm	DIN50	DIN65	DIN65	DIN65	DIN65	DIN65	DIN65	DIN65	DIN65
Condensation drainage	Ø-mm	25	25	25	25	25	25	25	25	25	25	25
Air inlet connection	Ø-mm	125	125	125	200	200	200	200	200	200	200	200
Flue diameter	Ø-mm	200	200	250	250	250	250	250	250	250	250	250
Dimensions - length	mm	1460	1460	1220	1420	1705	1705	1705	2140	2140	2730	2730
Dimensions - width	mm	690	690	835	935	935	935	935	935	935	985	985
Dimensions - height	mm	1360	1360	1600	1600	1600	1600	1600	1600	1600	1600	1600
Weight dry	kg	205	240	351	381	415	446	468	574	640	820	860
Water content	LT	60	62	68	75	98	110	130	142	156	210	240

Design & specification subject to change without notice, for design critical applications please consult your agent.

Standard features include:

Available for internal and external applications
Dutch manufactured aluminium silicon alloy heat exchanger
Condensing boiler exceeding 97% efficiency @80/60
VSD premix low NOx technology
Siemens HLI Modbus standard
Factory tested for efficiency & output