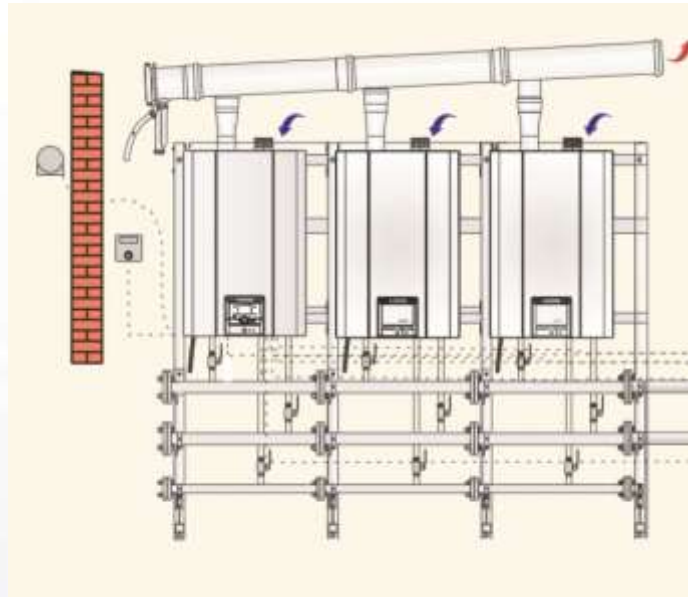


Alucon 50, 70, 90, 115, 125 & 150kW

Wall Hung Condensing Boilers



- Aluminium Heat Exchangers.
- Class 5 NOx.
- Fully Modulating Premix Burner.
- Turndown 50/7:1, 70/6.8:1, 90/6.4:1, 115/8.1:1, 125/6.6:1 & 150/7.6:1.
- Direct BMS Connectivity.
- Remote Monitoring Options. GSM / Web Connectivity.
- Full Range of Concentric and Single Walled Flue Components Including Cascade.
- Integral Cascade Functionality up to 16 boilers. (7.4kW – 2,363kW)
- Matched Mounting Frames and Cascade Hydraulics including Low Loss Headers or MatchedSystem Separation Plate Heat Exchangers.
- Externally Mounted Pump with Anti-Seize Program.
- Frost Protection Program.
- Integral Safety Controls Fully Compliant with British Standards.
- Natural Gas / LPG Compatible.
- Remote Monitoring Options. GSM / Web Connectivity.

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Alucon 50, 70, 90, 115, 125 & 150kW

Wall Hung Condensing Boilers

Product Type	Alucon 50		Alucon 70		Alucon 90		Alucon 115		Alucon 125		Alucon 150	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
General Type of Flue Installation Fuel type Gas Category Nominal Heat Input Q _n Nominal Heat Output P _n at (80-60)°C Nominal Heat Output P _n at (50-30)°C Water Operating Pressure Maximum Operating Temperature Cut-Off Temp. for Limit Thermostat												
823-853-C13-C33-C43-C53-C63-C83 12H 12E - Natural Gas G20 20-25 mbar												
Efficiency & Emissions												
Heat Efficiency Q _{max} (80-60)°C	97.7	97.2	97.2	98.4	98.2	98.2	98.3	98.2	98.3	98.2	98.2	98.2
Heat Efficiency Q _{min} (80-60)°C	96.9	96.7	96.7	96.8	96.8	96.8	97	97	97	97	97	97
Heat Efficiency Q _{max} (50-30)°C	105.9	103.9	103.9	105	104.8	104.8	104.4	104.4	104.4	103.2	103.2	103.2
Heat Efficiency Q _{min} (50-30)°C	108.1	108	108.2	108.2	108.2	108.1	108.1	108.1	108.1	108.1	108.1	108.1
Partial Load, Return 30°C (Direct Method)	108.6	108.4	108.5	108.5	108.7	108.5	108.5	108.5	108.5	108.4	108.4	108.4
Flue Gas Temperature (80-60)°C	54.7	55.4	72.1	54.7	61.4	56.8	64.9	56.9	61.8	56.9	61.8	70.3
Flue Gas Temperature (50-30)°C	29.5	30.1	52.3	30.2	44.8	30.2	53.5	30.5	44.9	30.5	47.1	47.1
CO2 Emissions G20 (Hi:34.02 MJ/m³)	9.3	9.1	9.6	9.4	9.3	9.4	9.4	9.5	9.5	9.5	9.5	9.6
CO Emissions G20 (Hi:34.02 MJ/m³)	44	29	152	27	120	27	156	24	140	24	140	169
NOx Emissions G20 (Hi:34.02 MJ/m³)	37	28	28	39	43	43	46	46	44	44	44	44
NOx Class	5	5	5	5	5	5	5	5	5	5	5	5
Flue Gas Mass G20 (Hi:34.02 MJ/m³)	3	22	5	6	6	6	9	9	54	9	9	63
Nominal Water Circulating Mass Δt=20°C	2.08	2.79	2.79	3.81	4.96	5.30	5.30	5.30	5.30	5.30	5.30	6.13
Water Pressure Loss Δt=20°C	130	180	180	170	280	310	310	310	310	310	310	400
Gas Supply G20 (Hi:34.02 MJ/m³)	20	20	20	20	20	20	20	20	20	20	20	20
Max Gas Supply Pressure G20	25	25	25	25	25	25	25	25	25	25	25	25
Min Gas Supply Pressure G20	17	17	17	17	17	17	17	17	17	17	17	17
Boiler Connections & Dimensions												
Power Supply Voltage / Frequency	230-50											
Power Supply Voltage Tolerance	(+15%)/(-10%)											
Electrical Power Max Absorbed	52	97	116	203	212	313	313	313	313	313	313	313
Working Conditions, Temperature	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40	+5/+40
IP Class	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D	IP X4D
Boiler Flow Connection	"	1	1	1	1	1	1	1	1	1	1	1
Boiler Return Connection	"	1	1	1	1	1	1	1	1	1	1	1
Boiler Gas Connection	"	1	1	1	1	1	1	1	1	1	1	1
Condensate Siphon Connection	Ø(mm)	25	25	25	25	25	25	25	25	25	25	25
Flue Pipe Diameter	Ø(mm)	100/150	100/150	100/150	100/150	100/150	100/150	100/150	100/150	100/150	100/150	100/150
Fresh Air Inlet Diameter	Ø(mm)	85	85	85	85	85	85	85	85	85	85	85
Flue Outlet Diameter	Ø(mm)	100	100	100	100	100	100	100	100	100	100	100
Boiler Weight Dry	kg	60	60	70	70	70	70	70	70	70	70	70
Boiler Diameter WxDxH	mm	510x540x830	510x540x830	510x540x830	510x540x830	510x540x830	600x540x820	600x540x820	600x540x820	600x540x820	600x540x820	600x540x820

