

**cascade connection upto 16 boilers** superior safety systems high efficiency condensing boilers **109% efficiency**  
**hot water temperature safety over 95** Coenvironmental friendly high modulation ration **low flue gas temperature**  
**42kW to 2200kW capacity range** fully automatic operation control and operation over the internet with web-server **NOx class 5**  
**CE certified** compact design – high efficiency **automatic frost protection function**

# Gassero

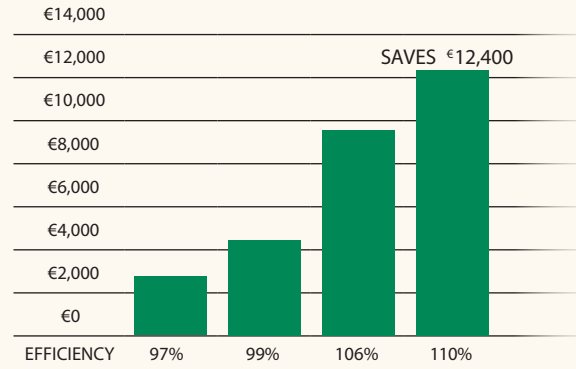
technology for your comfort



# Ultrabox 210 - 945kW



## 3 - Year Fuel Savings



## A penny saved is a penny earned.

What if we would tell you that Ultrabox is the most efficient boiler in its class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.

**16**

Boiler Cascade Sequencing

**1:8**

Modulation Ratio

## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.

**%110**

Annual Average Efficiency

Cutting Edge Fire Tube Design

$\Delta T = 40^{\circ}C$

**11bar**

Working Pressure

Smallest Footprint  
**0,70m<sup>2</sup>**

**0mm**  
Side Clearance

**34 mg/kW**  
NOx

## Installers best friend

Unparalleled installation flexibility. With zero side clearance the installed footprint is upto 30% smaller than competitive boilers.

## Total control across the Globe

Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.



Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	Nox Class
	Min kW	Max kW	50/30 °C	80/60 °C		
Ultrabox 210	32,6	212,1	107,22	97,9	1:7	5
Ultrabox 255	37,7	256,5	107,26	97,8	1:7	5
Ultrabox 315	37,7	317,8	107,48	98,3	1:7	5
Ultrabox 420	32,6	424,3	107,22	97,7	1:13	5
Ultrabox 465	32,6	468,6	107,24	97,85	1:15	5
Ultrabox 510	37,7	513	107,26	97,8	1:14	5
Ultrabox 570	37,7	574,3	107,37	97,91	1:16	5
Ultrabox 630	37,7	635,6	107,48	98,03	1:17	5
Ultrabox 765	37,7	769,5	107,26	97,8	1:21	5
ultrabox 945	37,7	953,4	107,48	98,03	1:26	5

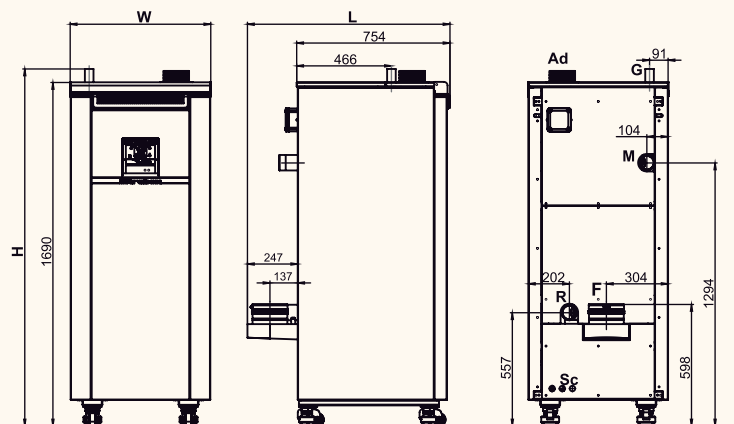
\*Information subject to change without notice

Gassero Isi Teknolojileri San. Ltd.  
Istanbul Endustri ve Ticaret Serbest Bolgesi (Free Zone)  
4. Sokak, Parsel NO. 110, 34957, Tuzla, Istanbul, Turkey



# Ultrabox 210-945 kW

## Dimensions & Connections



**ULTRABOX 210/255/315**

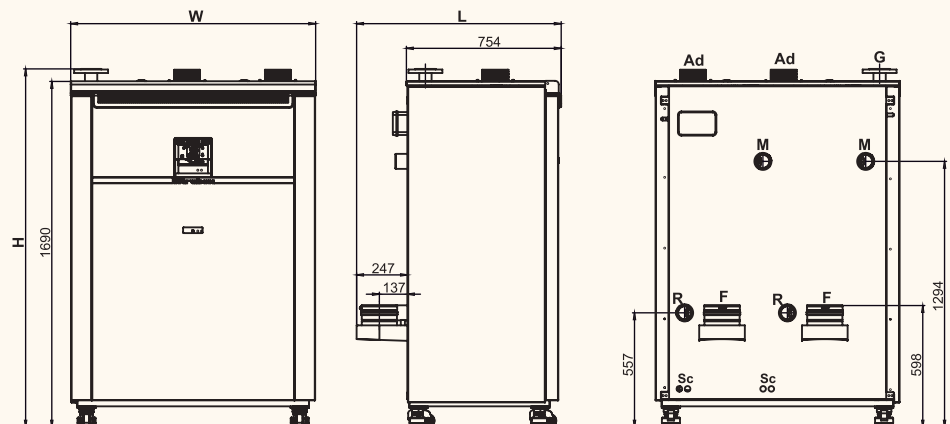
**M** : Water outlet connection: 2 1/2"

**F** : Flue diameter: Ø170 mm

**R** : Water inlet connector: 2 1/2"

**G** : Gas inlet: 1 1/4"

**W** : 690 **L** : 995 **H** : 1750



**ULTRABOX 420/465/510/570/630**

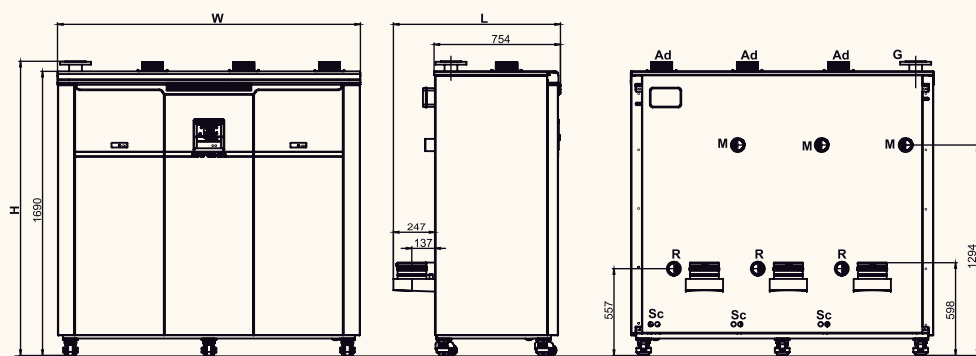
**M** : Water outlet connection: 2 1/2"

**F** : Flue diameter: Ø170 mm

**R** : Water inlet connector: 2 1/2"

**G** : Gas inlet: 2"

**W** : 1190 **L** : 995 **H** : 1750



**ULTRABOX 765/945**

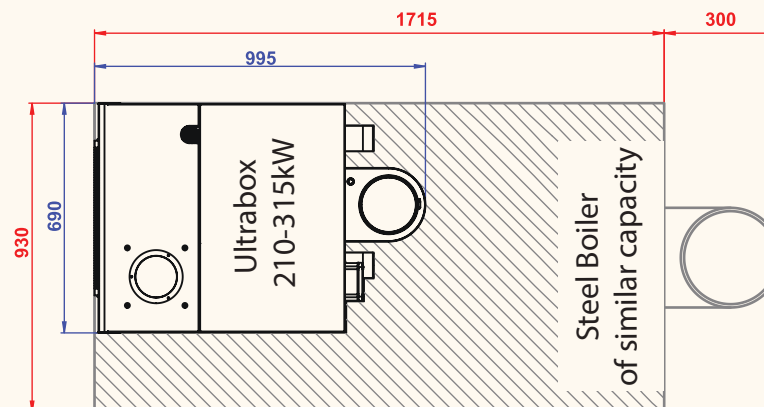
**M** : Water outlet connection: 2 1/2"

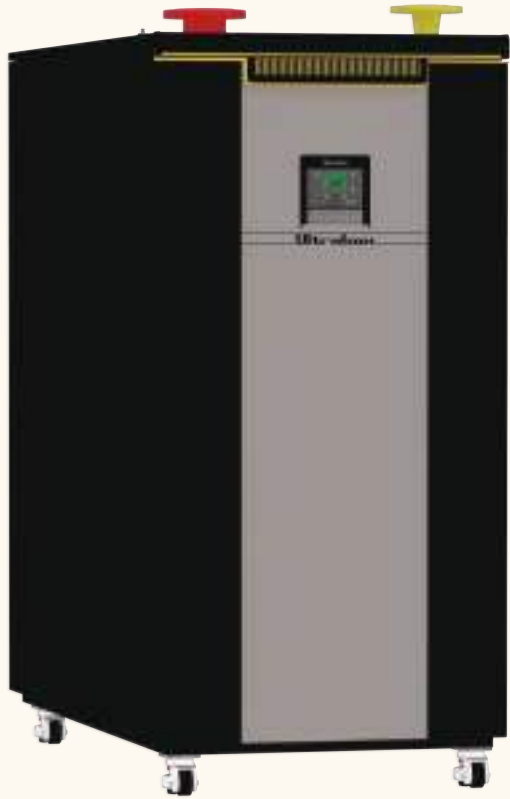
**F** : Flue diameter: Ø170 mm

**R** : Water inlet connector: 2 1/2"

**G** : Gas inlet: 2 1/2"

**W** : 1800 **L** : 995 **H** : 1750

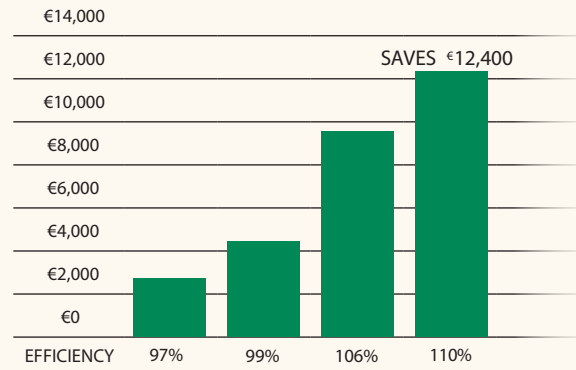




# Ultrabox 1100 - 1125kW



## 3 - Year Fuel Savings



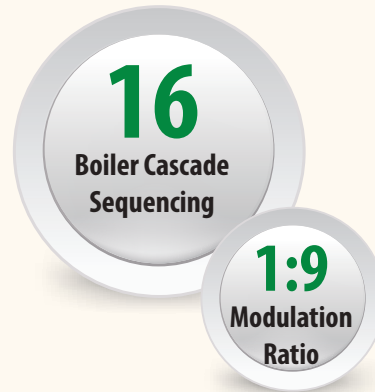
## A penny saved is a penny earned.

What if we would tell you that Ultrabox is the most efficient boiler in its class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.



## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.

Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	NOx	
	Min kW	Max kW	50/30 °C	80/60 °C		Class	mg/kWh
Ultrabox 1000	123,2	1058,9	107,19	97,26	1:9	5	41
Ultrabox 1125	123,2	1116,4	107,19	97,47	1:9	5	48

## Total control across the Globe

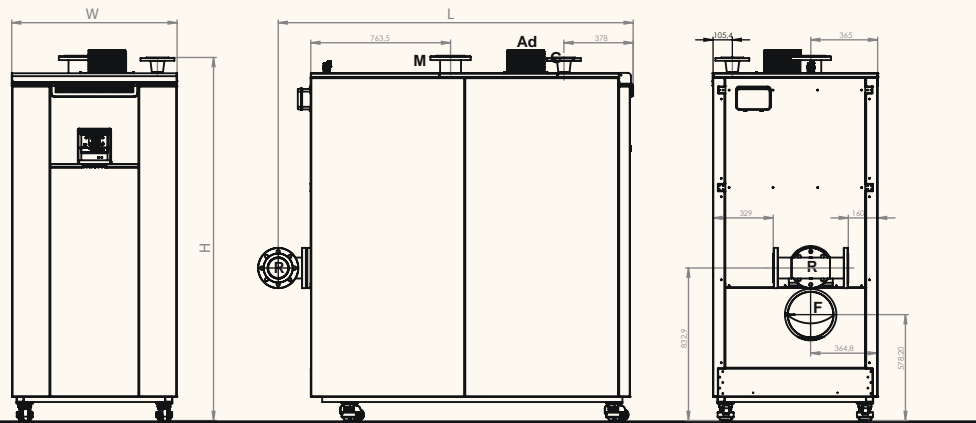
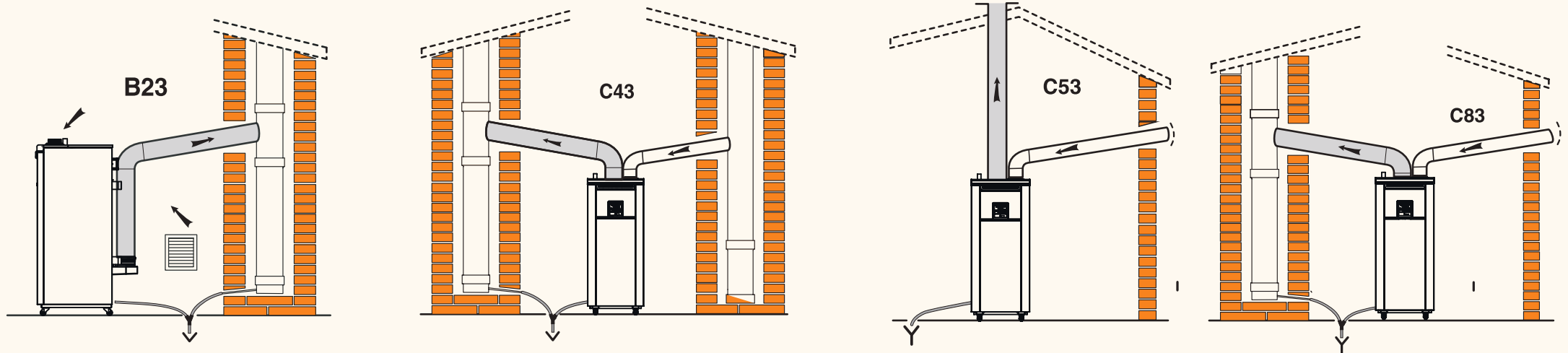
Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.



\*Information subject to change without notice



# Ultrabox 1125 kW



## ULTRABOX 1125

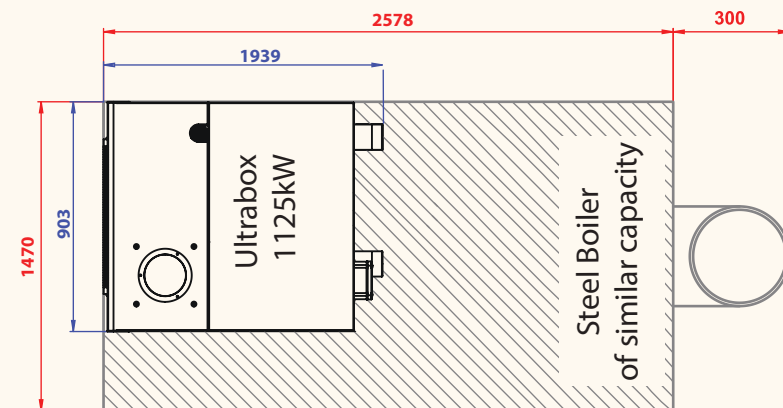
M : Water outlet connection: 4"

F : Flue diameter: Ø250 mm

R : Water inlet connecton: 4"

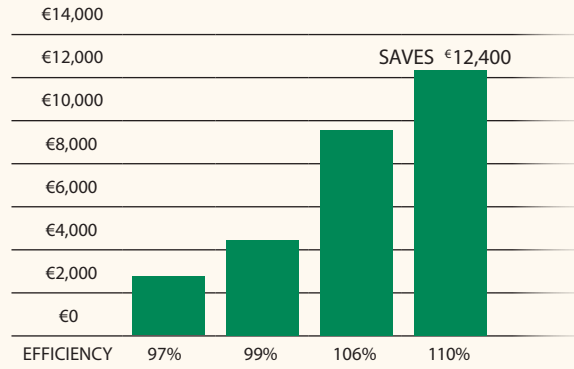
G : Gas inlet: 2 1/2"

W : 903 L : 1939 H : 2021





### 3 - Year Fuel Savings



# Alubox 150 -2200 kW



## A penny saved is a penny earned.

What if we would tell you that Alubox is the most efficient boiler in its class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.

**%110**  
Annual Average  
Efficiency

**Aluminium**  
Heat exchanger

**16**

Boiler Cascade  
Sequencing

**1:7**

Modulation  
Ratio

## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.

## Total control across the Globe

Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.



Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	NOx	
	Min kW	Max kW	50/30 °C	80/60 °C		Class	mg/kWh
Alubox 150	30,04	149,1	108,6	98,2	1:5	5	
Alubox 208	36,4	208	104	97,7	1:6	5	33,86
Alubox 290	51,6	290,6	107,5	97,9	1:6	5	62,6
Alubox 540	84,7	539,2	105	97,3	1:7	5	38
Alubox 700	107,8	708,4	107,4	97,3	1:7	5	48
Alubox 1100	160,7	1107,6	107,1	97,3	1:7	5	53
Alubox 2200kW	160,7	2215,2	107,1	97,3	1:14	5	53

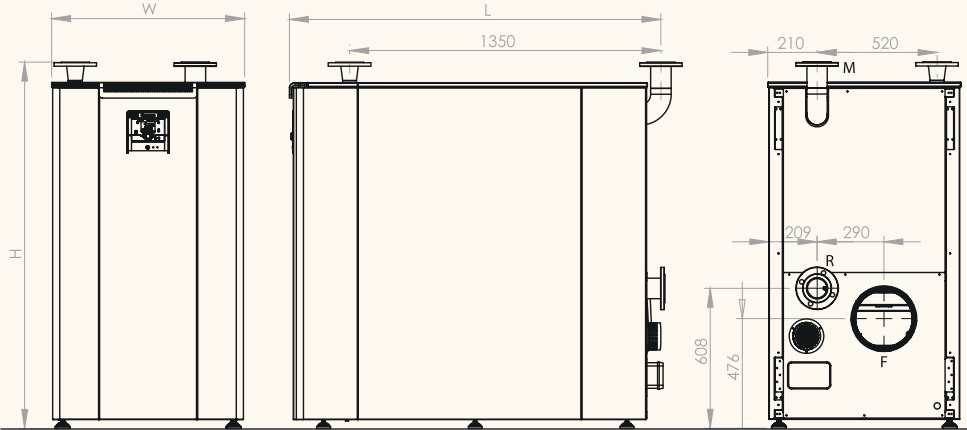
\*Information subject to change without notice

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Istanbul Endustri ve Ticaret Serbest Bolgesi (Free Zone)  
4. Sokak, Parsel NO. 110, 34957, Tuzla, Istanbul, Turkey



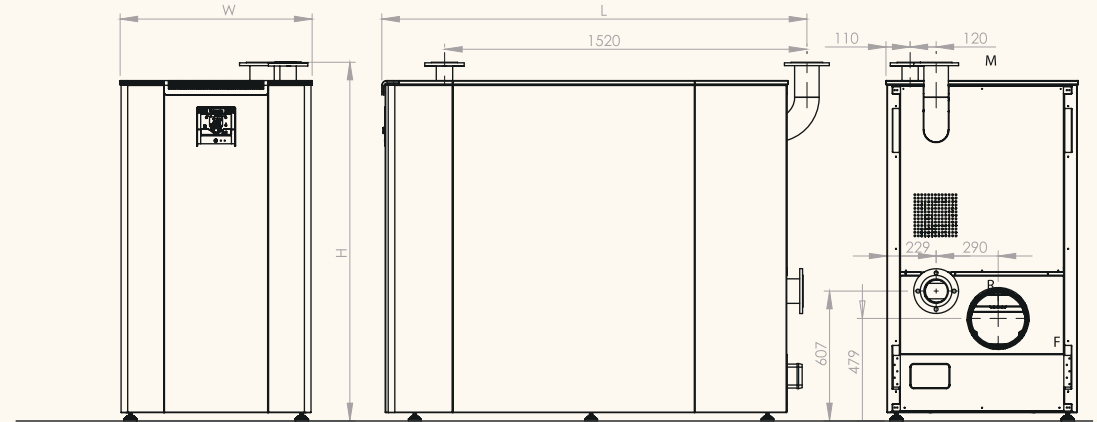
# Alubox 150-2200 kW

## Dimensions & Connections



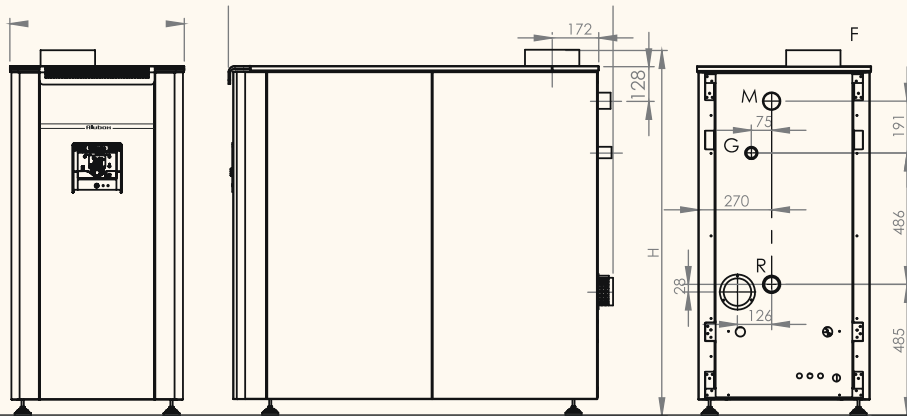
### ALUBOX 208/290

M : Water outlet connection: 2"      F : Flue diameter: Ø200 mm  
 R : Water inlet connector: 2"      G : Gas inlet: 1 1/4"  
 W : 645 L : 1420 H : 1350



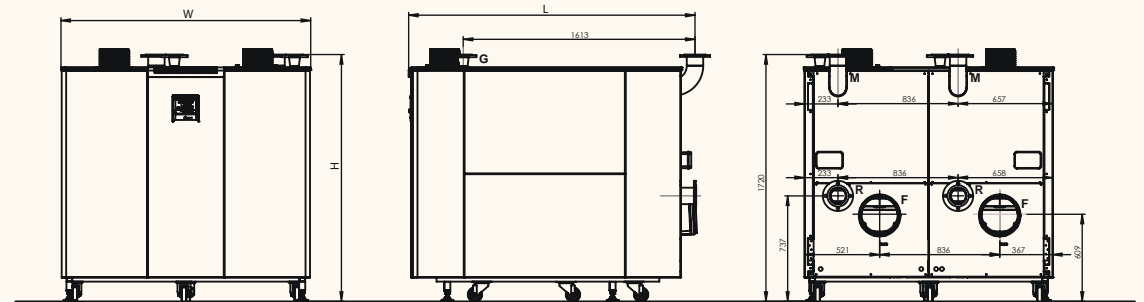
### ALUBOX 1100

M : Water outlet connection: 4"      F : Flue diameter: Ø250 mm  
 R : Water inlet connector: 4"      G : Gas inlet: 2 1/2"  
 W : 898 L : 1993 H : 1720



### ALUBOX 540/700

M : Water outlet connection: 3"      F : Flue diameter: Ø250 mm  
 R : Water inlet connector: 3"      G : Gas inlet: 2 1/2"  
 W : 838 L : 1600 H : 1590



### ALUBOX 2200

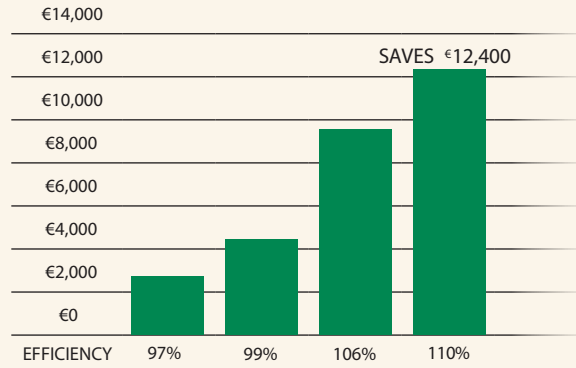
M : Water outlet connection: 4"      F : Flue diameter: Ø250 mm  
 R : Water inlet connector: 4"      G : Gas inlet: 2 1/2"  
 W : 1738 L : 1993 H : 1720



# Superbox 160-1060kW



## 3 - Year Fuel Savings



## A penny saved is a penny earned.

What if we would tell you that Superbox is the most efficient boiler in it's class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.

**%110**  
Annual Average  
Efficiency

**Stainless**  
Heat exchanger

**16**

Boiler Cascade  
Sequencing

**1:20**

Modulation  
Ratio

## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.

Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	NOx	
	Min kW	Max kW	50/30 °C	80/60 °C		Class	mg/kWh
Superbox 160	23,4	158,8	109	97,2	1:7	4	98,76
Superbox 265	26,8	264,8	107	97,1	1:10	5	42,56
Superbox 530	29,1	527,3	106,5	96,6	1:18	5	50
Superbox 1060	29,1	1051,9	106,6	96,5	1:36	5	59

\*Information subject to change without notice

## Total control across the Globe

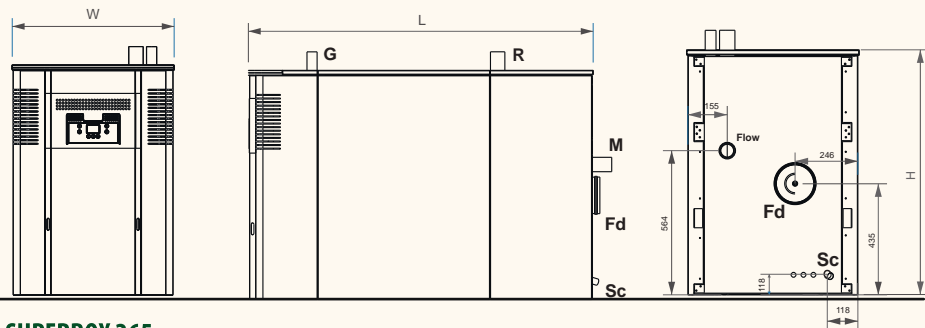
Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.





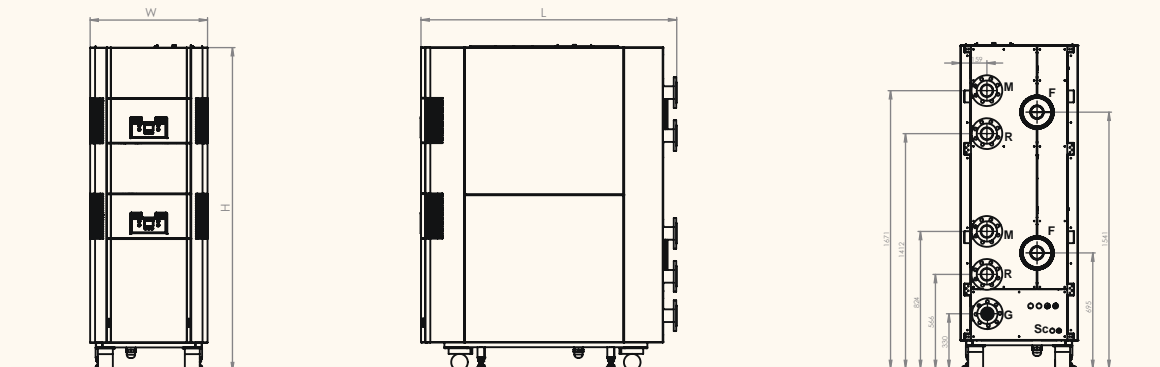
# Superbox 160-1060kW

## Dimensions & Connections



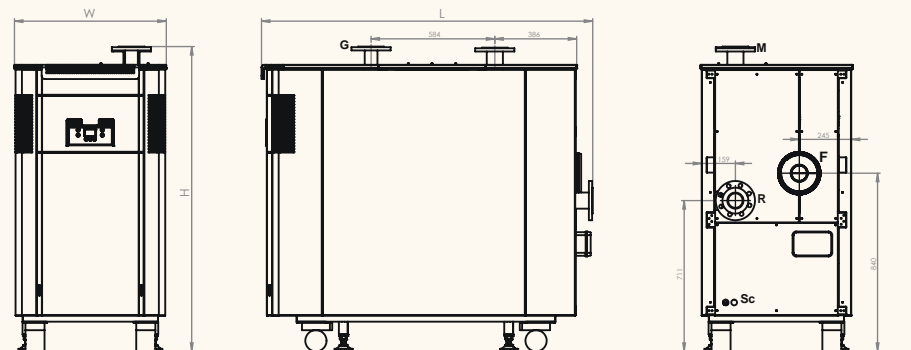
### SUPERBOX 265

**M** : Water outlet connection: 2"      **F** : Flue damer:  $\varnothing$ 150 mm  
**R** : Water inlet connecton: 2"      **G** : Gas inlet: 1 1/4"  
**W** : 640 **L** : 1560 **H** : 1140



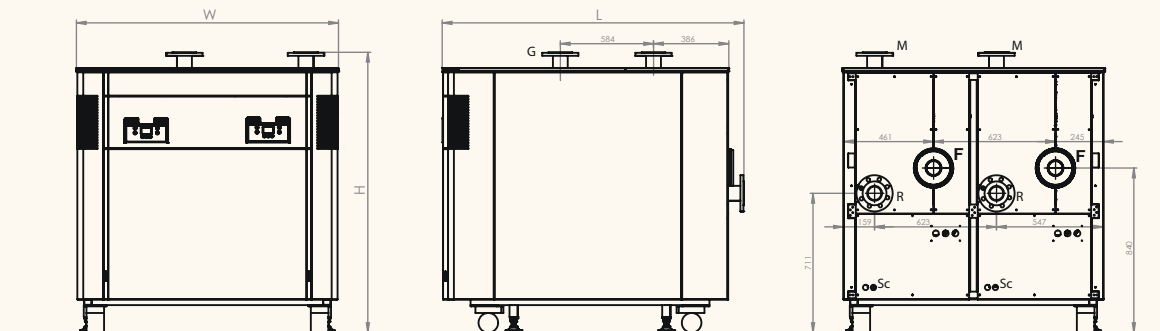
### SUPERBOX 1060 V

**M** : Water outlet connection: 2 1/2"      **F** : Flue damer:  $\varnothing$ 180 mm  
**R** : Water inlet connecton: 2 1/2"      **G** : Gas inlet: 2"  
**W** : 715 **L** : 1560 **H** : 1942



### SUPERBOX 530

**M** : Water outlet connection: 2 1/2"      **F** : Flue damer:  $\varnothing$ 180 mm  
**R** : Water inlet connecton: 2 1/2"      **G** : Gas inlet: 1 1/4"  
**W** : 715 **L** : 1560 **H** : 1430

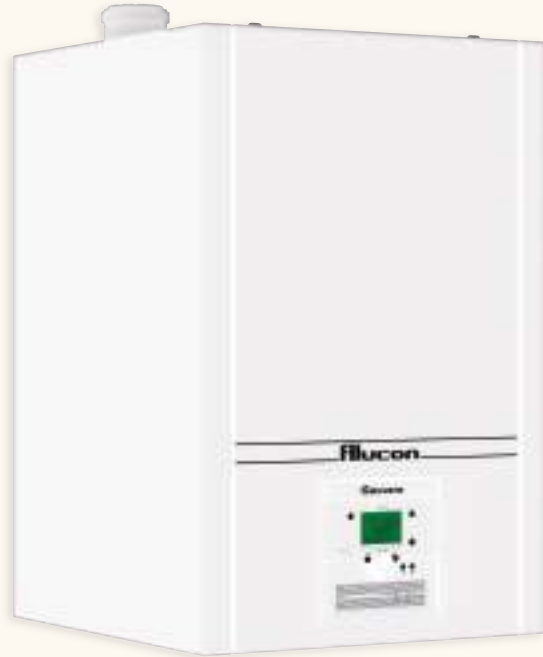


### SUPERBOX 1060 H

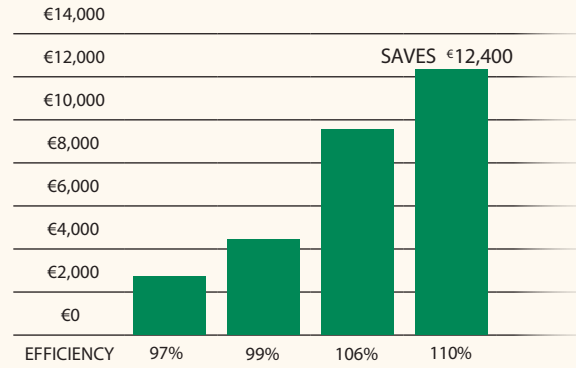
**M** : Water outlet connection: 2 1/2"      **F** : Flue damer:  $\varnothing$ 180 mm  
**R** : Water inlet connecton: 2 1/2"      **G** : Gas inlet: 2"  
**W** : 1340 **L** : 1560 **H** : 1430



# Alucon 90 -150kW



## 3 - Year Fuel Savings



## A penny saved is a penny earned.

What if we would tell you that Alucon is the most efficient boiler in it's class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

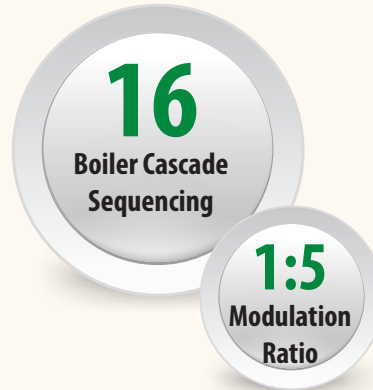
Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.



## Installers best friend

Unparalleled installation flexibility. With zero side clearance the installed footprint is upto 30% smaller than competitive boilers.



## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.

Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	NOx Class
	Min kW	Max kW	50/30 °C	80/60 °C		
Alucon 90	26,6	91	108,1	98,4	1:4	5
Alucon 115	26,6	118,1	108,1	98,2	1:5	5
Alucon 125	30,4	128	108,6	98,3	1:5	5
Alucon 150	30,4	149,1	108,6	98,2	1:5	5

## Total control across the Globe

Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.

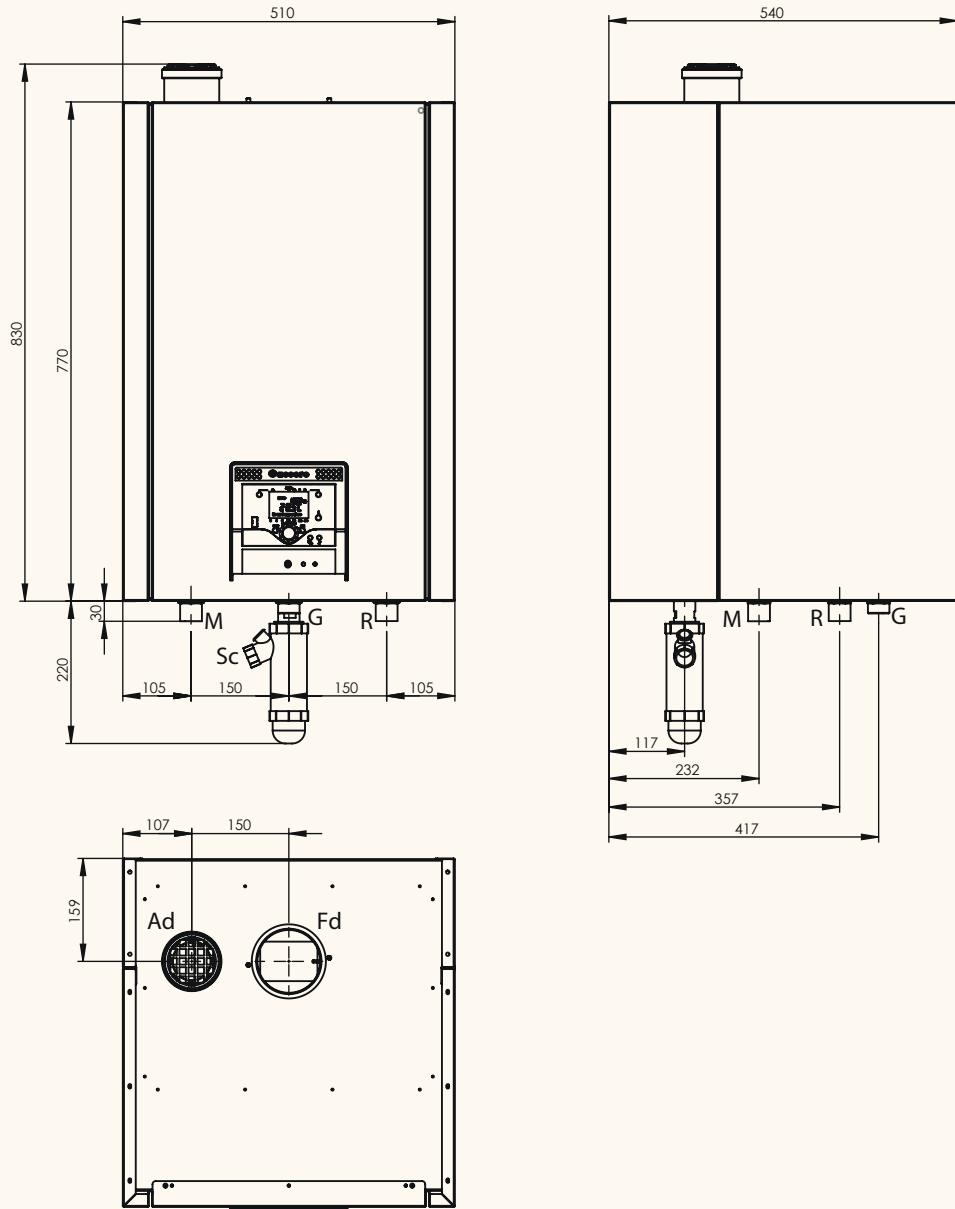


\*Information subject to change without notice



# Alucon 90 -150kW

## Dimensions & Connections



### ALUCON 60kW

Sc : Condensate drain - 25mm  
M : Flow 1"  
R : Return 1"  
G : Gas inlet 1"  
Fd : Flue outlet 100mm  
Ad : Air intake 85mm

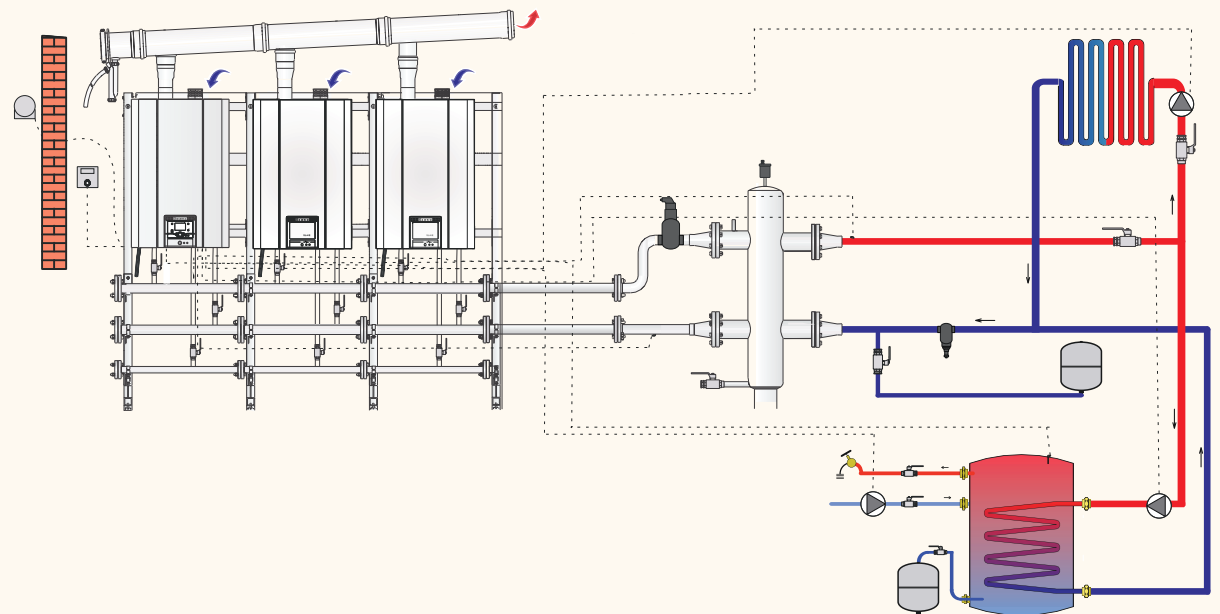
### ALUCON 90 - 115kW

Sc : Condensate drain - 25mm  
M : Flow 1"  
R : Return 1"  
G : Gas inlet 1"  
Fd : Flue outlet 100mm  
Ad : Air intake 85mm

### ALUCON 125 - 150kW

Sc : Condensate drain - 25mm  
M : Flow 1"  
R : Return 1"  
G : Gas inlet 1"  
Fd : Flue outlet 100mm  
Ad : Air intake 85mm

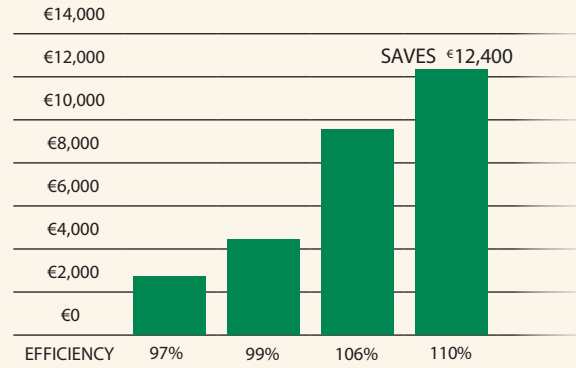
## Cascade Installation Example



# Wallcon 42-160kW



## 3 - Year Fuel Savings



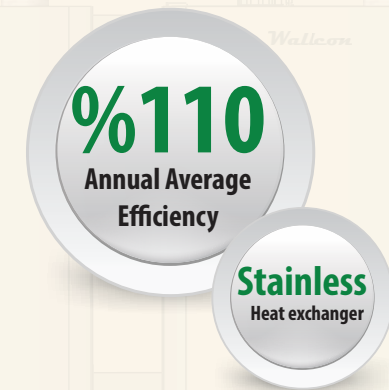
## A penny saved is a penny earned.

What if we would tell you that Wallcon is the most efficient boiler in it's class? It operates on wide range of flow rates with low pressure drop.

## Incredible automation. Built-in

Upto 16 boilers cascade sequencing with no extra equipment needed. In addition to one heating circle and DHW, each boiler controls upto 3 additional heat circles (zone control).

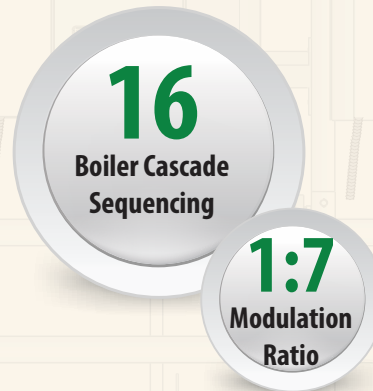
Automatic frost protection, built-in time program per each day of the week, weekdays, weeks or weekends. Just set and forget.



## Safe and reliable

Each boiler is equipped with state of the art technology available today.

Every second 9 sensors are monitoring boiler's operation feeding data to 31 safety subsystems.



## Installers best friend

Unparalleled installation flexibility. With zero side clearance the installed footprint is upto 30% smaller than competitive boilers.

Model Name	Heat Output 50/30 °C		Thermal Efficiency %		Turndown Ratio	NOx	
	Min kW	Max kW	50/30 °C	80/60 °C		Class	mg/kWh
Wallcon 42	8,5	42	106,8	97,1	1:5	5	35,68
Wallcon 50	8,5	51	106,3	96,4	1:6	5	42,99
Wallcon 67	16	67,1	107,2	96,9	1:4	5	34,1
Wallcon 115	29,3	116,1	108,4	97,1	1:4	5	17,13
Wallcon 125	18,4	126	108,2	96,4	1:7	5	51,72
Wallcon 160	23,4	158,8	109	97,2	1:7	4	98,76

\*Information subject to change without notice

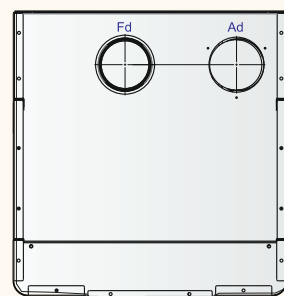
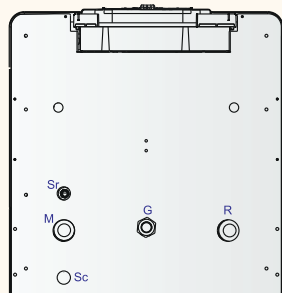
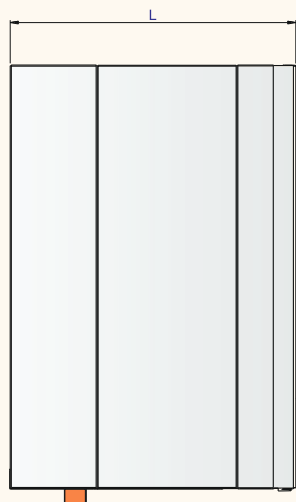
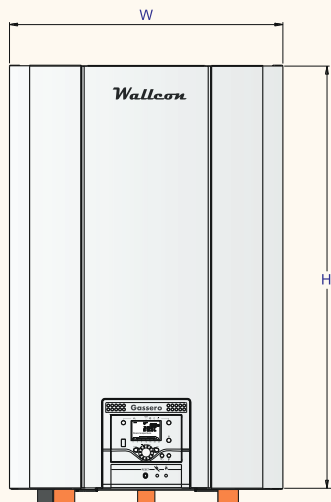
## Total control across the Globe

Keeps you in complete control across the country or across the world thanks to the web-server connectivity feature.



# Wallcon 42-160kW

## Dimensions & Connections



### WALLCON 42-50 kW

**Sc** : Condensate drain - 25mm  
**Sr** : Safety drain - 1/2"  
**M** : Flow 1"  
**R** : Return 1"  
**G** : Gas inlet 3/4"  
**Fd** : Flue outlet 80mm  
**Ad** : Air intake 80mm  
**W x L x H** = 446 x 390 x 654

### WALLCON 67 kW

**Sc** : Condensate drain - 25mm  
**Sr** : Safety drain - 1/2"  
**M** : Flow 1"  
**R** : Return 1"  
**G** : Gas inlet 3/4"  
**Fd** : Flue outlet 80mm  
**Ad** : Air intake 80mm  
**W x L x H** = 446 x 480 x 654

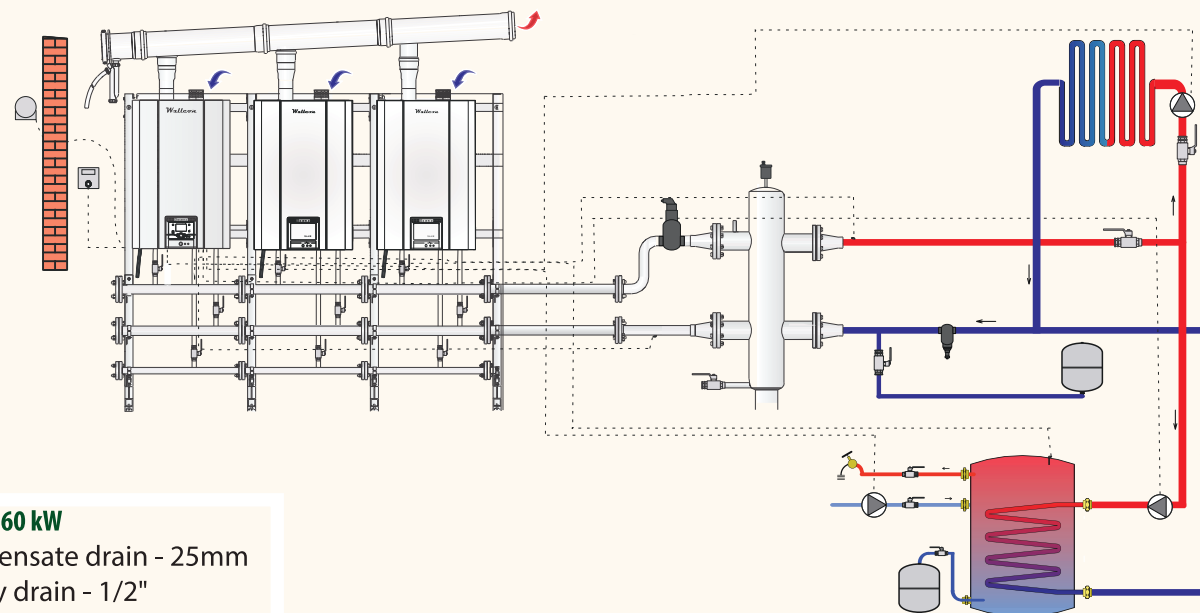
### WALLCON 160 kW

**Sc** : Condensate drain - 25mm  
**Sr** : Safety drain - 1/2"  
**M** : Flow 1 1/4"  
**R** : Return 1 1/4"  
**G** : Gas inlet 1"  
**Fd** : Flue outlet 100mm  
**Ad** : Air intake 100mm  
**W x L x H** = 557 x 690 x 860

### WALLCON 115-125 kW

**Sc** : Condensate drain - 25mm  
**Sr** : Safety drain - 1/2"  
**M** : Flow 1 1/4"  
**R** : Return 1 1/4"  
**G** : Gas inlet 1"  
**Fd** : Flue outlet 100mm  
**Ad** : Air intake 100mm  
**W x L x H** = 557 x 580 x 865

## Cascade Installation Example



Type Of Product	WALLCON 42		WALLCON 50		WALLCON 67		WALLCON 115		WALLCON 125 B		WALLCON 160 B		SUPERBOX 160 B		SUPERBOX 265		SUPERBOX 530		SUPERBOX 1060 SV		SUPERBOX 1060 SH		
	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	
General																							
Type Of Flue Installation	B23-C13-C33-C43-C53-C63-C83								B23-C43 C53-C63-C86				B23-C43 C53-C63-C86		B23		B23		B23		B23		
Fuel type-Gas category	2H.2E.2LL.3B/P								2H.2E.2LL.3B				2H.2E.2LL.3B		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		
Nominal Heat Input Qn	kw	8,0	39,4	8,0	48,0	15,0	63,0	27,0	108,5	17,0	121,0	21,5	152,0	21,5	152,0	25	250	27,2	498,5	27,2	996,9	27,2	996,9
Nominal Heat Output Pn at (80-60) °C	kw	7,6	38,3	7,6	46,3	14,4	61,0	26,1	105,4	16,4	116,2	20,9	146,0	20,9	146,0	24,2	242,8	26,3	481,7	26,3	962,1	26,3	962,1
Nominal Heat Output Pn at (50-30) °C	kw	8,5	42,0	8,5	51,0	16,0	67,1	29,3	116,1	18,4	126,0	23,4	158,8	23,4	158,8	26,8	264,8	29,1	527,3	29,1	1051,9	29,1	1051,9
Water Operating Pressure	bar	0,8	3,0	0,8	3,0	0,8	4,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0
Maximum Operation Temperature	°C	85		85		85		90		90		90		90		90		90		90		90	
Cut-off Temp. for Limit Termostad	°C	85		85		85		105		105		105		105		105		105		105		105	

### Efficiency & Emissions

Heating Efficiency Q max (80-60) °C	%	97,1		96,4		96,9		97,1		96,0		96,1		96,1		97,1		96,6		96,5		96,5	
Heating Efficiency Q min (80-60) °C	%	94,9		94,9		96,0		96,8		96,4		97,2		97,2		96,7		96,5		96,5		96,5	
Heating Efficiency Q max (50-30) °C	%	106,8		106,3		106,5		107,0		104,1		104,5		104,5		105,9		105,5		105,3		105,3	
Heating Efficiency Q min (50-30) °C	%	106,0		106,0		107,2		108,4		108,2		109,0		109,0		107,0		106,5		106,6		106,6	
Partial Load, Return 30°C (Direct Method)	%	106,7		106,9		107,9		107,6		109,2		109,1		109,1		106,4		107,0		107,0		107,0	
Flue Gas Temperature (80-60) °C	°C	63,4	74,9	63,4	81,7	62,9	82,0	58,9	77,1	56,3	88,0	59,4	82,5	59,4	82,5	55,4	80,8	59,8	80,3	59,7	80,5	59,7	80,5
Flue Gas Temperature (50-30) °C	°C	42,7	52,8	42,7	64,1	39,8	62,7	32,7	63,5	31,5	64,8	32,4	62,6	32,4	62,6	31,0	81,0	30,6	43,2	30,6	43,9	30,6	43,9
CO2 Emissions G20 ( Hi: 34.02 MJ/m³)	%	8,9	9,2	8,9	9,2	8,9	9,2	8,8	9,3	8,7	9,4	9,2	9,4	9,2	9,4	8,6	9,2	8,90	9,10	8,90	9,20	8,90	9,20
CO Emissions G20 ( Hi: 34.02 MJ/m³)	ppm	1	84	1	98	2	80	1	98	1	144	1	174	1	174	2	144	2	110	2	205	2	205
NOX Emissions G20 ( Hi: 34.02 MJ/m³)	mg/kWh	35,68		42,99		34,1		17,13		51,72		98,76		98,76		42,56		50,00		59,00		59,00	
NOX Class		5		5		5		5		5		4		4		5		5		5		5	
Flue Gas Mass G20 ( Hi: 34.02 MJ/m³)	g/sec	3,70	17,70	3,70	21,6	6,90	28,40	12,60	48,40	8,03	53,53	9,69	67,25	9,69	67,25	11,93	112,6	12,61	226,7	12,61	449,1	12,61	449,1
Nominal Water Circulating Mass Δt=20 C°	m³/h	1,81		2,19		2,89		4,99		5,42		6,83		6,83		11,39		22,67		45,23		45,23	
<b>Electrical &amp; Gas Connections</b>																							
Gas Supply G 20 ( Hi: 34.02 MJ/m³)	mBar	21		21		21		21		21		21		21		21		21		21		21	
Max Gas Supply Pressure G 20	mBar	25		25		25		25		25		25		25		25		25		25		25	
Min Gas Supply Pressure G 20	mBar	17		17		17		17		17		17		17		17		17		17		17	
Power Supply Voltage / Frequency	VAC/Hz	230-50											230-50										
Power Supply Voltage Tolerance	%	(+%15) / (- %10)											(+%15) / (- %10)										
Electrical Power Max.Absorbed	w	220		250		280		300		300		400		400		450		900		1800		1800	
Electrical Power on Stand-By	w	17		17		17		17		17		17		17		17		34		34		34	
Working Conditions, Temperature	°C	+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	

### Boiler Connections & Dimensions

Boiler Max. Flue Length C11/C33	m	2		2		2		2		-		-		-		-		-		-		-	
Boiler Max. Flue Length C43-C53-C63-C83	m	30		30		25		25		-		-		-		-		-		-		-	
Boiler Max. Flue Length B23	m	30		30		25		25		-		-		-		-		-		-		-	
Boiler Flow Connection	INCH	1"		1"		1"		1 1/4"		1 1/4"		1 1/4"		1 1/4"		2"		2 1/2"		2 1/2" x 2 pcs		2 1/2" x 2 pcs	
Boiler Return Connection	INCH	1"		1"		1"		1 1/4"		1 1/4"		1 1/4"		1 1/4"		2"		2 1/2"		2 1/2" x 2 pcs		2 1/2" x 2 pcs	
Boiler Gas Connection	INCH	3/4"		3/4"		3/4"		1"		1"		1"		1"		1 1/4"		2"		2 1/2"		2 1/2"	
Siphon Connection for Condens Water	Ø (mm)	25		25		25		25		25		25		25		25		25		25		25	
Fresh Air Connection	Ø (mm)	80		80		80		100		100		100		100		100		100 x 2 pcs		100 x 4 pcs		100 x 4 pcs	
Flue Gas Pipe Diameter	Ø (mm)	80		80		80		100		100		100		100		150		180		180 x 2 pcs		180 x 2 pcs	
Boiler Weight, Dry	kg	34		34		44		92		92		98		110		242		389		565		574	
Boiler Dimensions WxLxH	mm	446x390x654						557x580x865				557x690x865		555x780x950		640x1560x1140		715x1560x1430		706x1540x1998		1340x1560x1430	

### 3 Speed, Energy Efficiency & Modulating Pump Recommendations.



Type Of Product	ALUBOX 208		ALUBOX 290		ALUBOX 540		ALUBOX 700		ALUBOX 1100 (990kw)		ALUBOX 1100		ALUBOX 2200		ALUCON 90		ALUCON 115		ALUCON 125		ALUCON 150			
	max	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max		
General																								
Type Of Flue Installation	B23		B23		B23		B23		B23		B23		B23		B23-C13-C33-C43-C53-C63-C83									
Fuel type-Gas category	I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		I2H G20 mbar		2H,12E G20 mba		2H,12E G20 mba		2H,12E G20 mba		2H,12E G20 mba	
Nominal Heat Input Qn	kw	35,3	200,0	48,0	280,0	81,9	517,0	101,4	661,0	150,5	1026,8	150,5	1029,6	150,5	2059,2	24,1	88,3	24,1	112,3	28,3	123,5	28,3	143,1	
Nominal Heat Output Pn at (80-60) °C	kw	34,5	195,2	46,7	274,1	79,1	502,9	97,8	643,1	146,0	999,1	146,0	1001,8	146,0	2003,6	23,3	86,3	23,3	109,5	27,4	120,8	27,4	139,8	
Nominal Heat Output Pn at (50-30) °C	kw	36,4	208,0	51,6	290,6	84,7	539,2	107,8	708,4	160,7	999,3	160,7	1107,6	160,7	2215,2	26,6	91,0	26,6	118,1	30,4	128,0	30,4	149,1	
Water Operating Pressure	bar	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	0,8	6,0	
Maximum Operation Temperature	°C	90		90		90		90		90		90		90		90		90		90		90		
Cut-off Temp. for Limit Termostad	°C	95		95		95		95		95		95		95		95		95		95		95		
<b>Efficiecv &amp; Emissions</b>																								
Heating Efficiency Q max (80-60) °C	%	97,6		97,9		97,3		97,3		97,3		97,3		97,3		98,4		98,2		98,3		98,2		
Heating Efficiency Q min (80-60) °C	%	97,7		97,3		96,6		96,5		97,0		97,0		97,0		97,4		97,4		97,2		97,2		
Heating Efficiency Q max (50-30) °C	%	104,0		103,8		104,0		107,4		107,0		107,0		107,0		105		104,8		104,4		103,2		
Heating Efficiency Q min (50-30) °C	%	103,2		107,5		105,0		107,0		107,1		107,1		107,1		108,1		108,1		108,6		108,6		
Partial Load, Return 30°C (Direct Method)	%	107,4		107,3		106,7		108,6		108,0		108,0		108,0										
Flue Gas Temperature (80-60) °C	°C	53,2	63,4	54,2	64,6	55,5	63,6	61,4	65,8	61,9	64,6	61,9	64,6	61,9	64,6	54,7	61,4	54,7	64,9	55,8	61,8	55,8	70,3	
Flue Gas Temperature (50-30) °C	°C	29,0	52,7	29,0	47,4	30,3	40,1	34,2	34,5	29,4	33,8	29,4	33,8	29,4	33,8	20,6	44,8	30,6	53,5	31	44,9	31	47,1	
CO2 Emissions G20 ( Hi: 34.02 MJ/m³)	%	8,8	9,3	8,8	9,8	8,9	9,1	8,9	9,4	9,0	9,3	9,0	9,3	9,0	9,3	9,1	9,3	9,1	9,3	9,3	9,5	9,3	9,5	
CO Emissions G20 ( Hi: 34.02 MJ/m³)	ppm	1	24	2	34	2	29	5	33	6	44	6	44	6	44									
NOX Emissions G20 ( Hi: 34.02 MJ/m³)	mg/kWh	33,86		62,60		38,00		48,00		48,00		53,00		53,00										
NOX Class		5		5		5		5		5		5		5		5		5		5		5		
Flue Gas Mass G20 ( Hi: 34.02 MJ/m³)	g/sec	16,51	89,27	22,45	119,6	37,95	235,1	46,98	292,4	69,05	459,6	69,05	459,6	69,05	919,3	11	51	11	39	12	54	12	63	
Nominal Water Circulating Mass Δt=20 C°	m³/h	8,94		12,50		23,19		30,46		42,97		47,63		47,6 x 2 pcs		3,91		5,08		5,50		6,41		
<b>Electrical &amp; Gas Connections</b>																								
Gas Supply G 20 ( Hi: 34.02 MJ/m³)	mBar	21		21		21		21		21		21		21		21		21		21		21		
Max Gas Supply Pressure G 20	mBar	25		25		25		25		25		25		25		25		25		25		25		
Min Gas Supply Pressure G 20	mBar	17		17		17		17		17		17		17		17		17		17		17		
Power Supply Voltage / Frequency	VAC/Hz	230-50										380-50				230-50								
Power Supply Voltage Tolerance	%	(+%15) / (- %10)										(+%15) / (- %10)				(+%15) / (- %10)								
Electrical Power Max.Absorbed	w	450		450		1400		1400		2650		2650		5300		-		-		-		-		
Electrical Power on Stand-By	w	17		17		17		17		17		17		17		3		3		3		3		
Working Conditions, Temperature	°C	+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		
<b>Boiler Connections &amp; Dimensions</b>																								
Boiler Max. Flue Lenght C11/C33	m	-		-		-		-		-		-		-		-		-		-		-		
Boiler Max. Flue Lenght C43-C53-C63-C83	m	-		-		-		-		-		-		-		-		-		-		-		
Boiler Max. Flue Lenght B23	m	-		-		-		-		-		-		-		-		-		-		-		
Boiler Flow Connection	INCH	2"		2"		3"		3"		4"		4"		4" x 2 pcs		1"		1"		1"		1"		
Boiler Return Connection	INCH	2"		2"		3"		3"		4"		4"		4" x 2 pcs		1"		1"		1"		1"		
Boiler Gas Connection	INCH	1 1/4"		1 1/4"		2 1/2"		2 1/2"		2 1/2"		2 1/2"		2 1/2" x 2 pcs		1"		1"		1"		1"		
Siphon Connection for Condens Water	Ø (mm)	25		25		25		25		25		25		25 x 2 pcs		25		25		25		25		
Fresh Air Connection	Ø (mm)	100		100		125		125		-		-		-		85		85		85		85		
Flue Gas Pipe Diameter	Ø (mm)	200		200		250		250		250		250		250 x 2 pcs		100		100		100		100		
Boiler Weight, Dry	kg	262		295		481		561		722		722		1378		-		-		-		-		
Boiler Dimensions WxLxH	mm	645x1420x1350				840x1600x1590				890x1970x1590		890x1970x1590		1738x1993x1720		510X540X860		510X540X860		600X540X860		600X540X860		
<b>3 Speed, Energy Efficiency &amp; Modulating Pump Recommendations.</b>																								