



## CLAS ONE CONDENSING



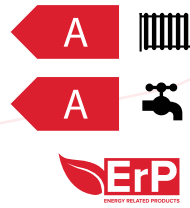
# CLAS ONE CONDENSING

- Long-lasting, high performances: with stainless steel Xtratech heat exchanger, with +142% increased flow sections.
- Reduced consumption: A+ class heating achievable with thermal regulation.

## Features

- LCD display
- Busbridge net communication protocol
- Auto, Comfort functions
- Optimised internal silencer
- Modulation ratio 1:7
- Installation in partially protected areas
- Flue gas discharge 80, 60

Energy Class

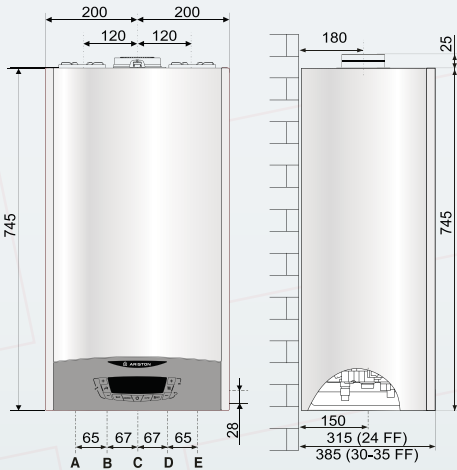


XtraTech™ stainless steel  
heat exchanger



TÜV RHEINLAND  
GROUP  
PERFORMANCE  
CERTIFICATE

www.tuv.com  
ID 0000056520



## KEY

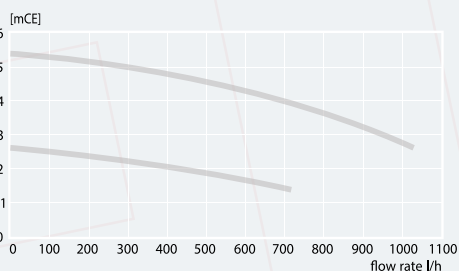
- A \ System flow  $\varnothing$  3/4" gas
- B \ Domestic hot water outlet  $\varnothing$  1/2" gas
- C \ Gas inlet  $\varnothing$  3/4" gas
- D \ Domestic Hot water intake  $\varnothing$  1/2" gas
- E \ System return  $\varnothing$  3/4" gas



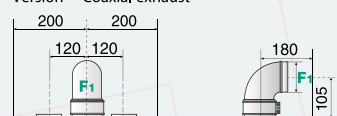
# CLAS ONE Condensing Technical Data



## Boiler residual head

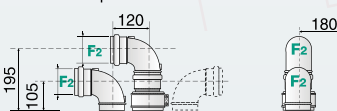


## Version - Coaxial exhaust



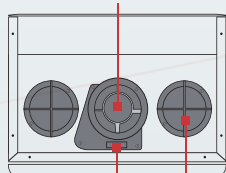
Maximum flue gas/air generation:  
 Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 7 m (35 kW)  
 Ø80/125: up to 33 m (24 kW) - 24 m (30 kW) - 27 m (35 kW)

## Versions - Split exhaust



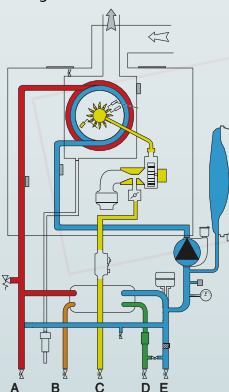
Maximum flue gas/air generation:  
 Ø80/80: up to 60 m (24 kW) - 50 m (30 kW) - 35 m (35 kW)  
 Ø60/60: up to 14 m (24 kW) - 14 m (30 kW) - 12 m (35 kW)

## Coaxial inlet/exhaust manifold



Flue gas analysis inspection point  
 Air inlet for split exhaust systems

## Hydraulic circuit diagram



Description	N° of boilers per pallet
CLAS ONE 24	14
CLAS ONE 30 - 35	12

## TECHNICAL DATA

24 30 35

### GENERAL

EC certification no. 0085CR0393  
 Boiler type C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X)  
 C83(X)-C93(X) - B23-B23P-B33

### POWER SPECIFICATIONS

Max/min nominal calorific flow rate (Pci) Qn	kW	22.0/3.7	28.0/4.3	31.0/5.0
Max/min nominal calorific flow rate (Pcs) Qn	kW	24.4/4.1	31.1/4.8	34.4/5.6
Domestic hot water max/min nominal calorific flow rate (Pci) Qn	kW	26.0/3.7	30.0/4.3	34.5/5.0
Domestic hot water max/min nominal calorific flow rate (Pcs) Qn	kW	28.9/4.1	33.3/4.8	38.3/5.6
Max/min power output (80°C-60°C) Pn	kW	21.4/3.4	27.4/3.9	30.2/4.7
Max/min power output (50°C-30°C) Pn	kW	23.6/3.9	30/4.5	33.5/5.3
Domestic hot water max/min power output Pn	kW	24.9/3.5	28.7/4.1	33.0/4.8
Combustion efficiency (of flue gas)	%	98	98	97.9
Nominal calorific flow rate efficiency (60/80°C) Hi/Hs	%	97.5/87.8	97.9/88.2	97.5/87.8
Nominal calorific flow rate efficiency (30/50°C) Hi/Hs	%	107.3/96.7	107.3/96.6	108.2/97.4
Efficiency at 30% at 30°C (condensation) Hi/Hs	%	109.8/98.9	109.6/98.7	109.6/98.7
Minimum calorific flow rate efficiency (60/80°C) Hi/Hs	%	93.1/83.8	91.1/82	93.3/84
Efficiency rating (dir. 92/42/EEC)	stars	★★★★		
Loss of burner gas when operating	%	2	2	2.1

### EMISSIONS

Available air pressure	Pa	100	100	100
NOx class	class	5		
Flue gas temperature (G20) (80°C-60°C)	°C	61	62	63
CO2 content (G20) (80°C-60°C)	%	9.2/8.9		
CO content (0%O2) (80°C-60°C)	ppm	141.8	123.8	106.5
CO2 content (G20) (80°C-60°C)	%	3.9	4.2	4.3
Maximum flue gas flow (G20) (80°C-60°C)	kg/h	42.1	48.6	56.1
Excess air (80°C-60°C)	%	23	25	26

### HEATING CIRCUIT

Expansion chamber inflation pressure	bar	1
Maximum heating pressure	bar	3
Expansion chamber capacity	l	8
Min/max heating temperature (high temperature range)	°C	35/82
Min/max heating temperature (low temperature range)	°C	20/45

### DOMESTIC HOT WATER

Domestic hot water max/min temperature	°C	36/60
Specific flow rate of domestic hot water (ΔT=30°C)	l/min	12.1 14.5 16.7
Quantity of hot water ΔT=25°C	l/min	14.5 17.4 20
Quantity of hot water ΔT=35°C	l/min	10.4 12.5 14.3
Hot water comfort rating (EN13203)	stars	★★★
Hot water minimum flow rate	l/min	2
Domestic hot water max/min pressure	bar	7/0.2

### ELECTRICAL

Power supply frequency/voltage	V/Hz	230/50
Total electrical power absorbed	W	104 114 115
Minimum ambient temperature for use	°C	> 0
Protection level for the electrical appliance	IP	X5D
Weight	kg	29.7 32.3 34.6

### CODE

	3301021	3301022	3301023
Energy class	A	A	A
Domestic hot water production energy class	A	A	A
Consumption profiles	XL	XL	XXL

# EDGES

HEATING SYSTEMS

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