

novadens



WESTEN
The smart choice for your home comfort

Highest efficiency, maximum in comfort and easiest in use



WESTEN

Westen introduces Novadens the new wall hung condensing range (combi, heating only and with storage models) designed to offer all you can expect from a condensing boiler ensuring the highest efficiency, the maximum in comfort and the easiest in use.



Saving

Higher efficiency means energy saving that is gas expenditure remarkable cutback. 4 stars according to CE/92/42 (European standard defining the boilers efficiency)



Easiness of use

Westen made the Novadens condensing boilers easier in use thanks to the digital display, the operational mode lights and the regulation knobs



Low noise level

Westen provided Novadens with a new soundproofing heat exchanger's external casing that makes these boilers quiet in ignition and operation



Compact dimensions

Novadens have been designed to allow an easy fitting anywhere: inside a cupboard in case space saving represent an issue (only 760x450x345mm)

		COMBI		HEATING ONLY
		Novadens 240	Novadens 280	Novadens 1.240
Maximum DHW heat input	kW	24,7	28,9	-
Maximum heating heat input	kW	20,5	24,7	24,7
Maximum DHW heat output	kW	24	28	-
Maximum heating heat output 80/60°C	kW	20	24	24
Maximum heating heat output 50/30°C	kW	21,6	25,9	25,9
Minimum heat output 80/60°C	kW	6,8	8,7	6,8
Minimum heat output 50/30°C	kW	7,4	9,5	7,4
Energetic efficiency (92/42/CEE)		★★★★	★★★★	★★★★
Average efficiency (DIN 4702-T8)	%	109,8	109,8	109,8
Nominal efficiency	%	97,6	97,6	97,6
Nominal efficiency 50/30°C	%	105,1	105	105,1
Efficiency at 30%	%	107,5	107,5	107,5
NOx class (EN 483)		5	5	5
Minimum working temperature	°C	-5	-5	-5
Expansion vessel capacity/pre-charge	l/bar	8/0,5	8/0,5	8/0,5
Heating temperature range	°C	25/80	25/80	25/80
Domestic hot water temperature range	°C	35/60	35/60	10/60
Continuous DHW production ΔT 25°C	l/min	13,8	16,1	-
Maximum pressure on heating circuit	bar	3	3	3
Maximum pressure DHW circuit	bar	8	8	-
Coaxial flue system Ø60/100 max length	m	10	10	10
Dual flue system Ø80 max length	m	80	80	80
Maximum flue mass flow rate	kg/s	0,012	0,014	0,012
Minimum flue mass flow rate	kg/s	0,003	0,004	0,003
Maximum flue temperature	°C	73	75	73
Dimensions (h x l x p)	mm	760x450x345	760x450x345	760x450x345
Net weight	kg	44	45	45
Gas type		Natural gas/LPG	Natural gas/LPG	Natural gas/LPG
Power consumption	W	150	155	150
Grade of protection		IPX5D	IPX5D	IPX5D

- > Stainless steel heat exchanger
- > Pre-mixing group including modulating fan
- > Electric 3 way valve for all models
- > Enhanced stainless steel domestic hot water heat exchanger (combi models)
- > Automatic by-pass
- > Circulating pump with built-in air vent
- > Built-in climatic regulation (outdoor sensor as optional)
- > Remote control available as optional
- > User friendly control panel/digital display
- > System to prevent pump and 3 way valve sticking operating every 24 hours
- > Full anti-frost device
- > Central heating safety valve set at 3 bar

TEMPERATURE REGULATION ACCESSORIES*



REMOTE CONTROL

- automatic processing of the heating flow water temperature
- room thermostat and timer
- self-check: detection and description up to 13 anomalies
- display and regulation of boiler's parameters, like room temperature and external temperature, DHW and central heating water temperature
- connection to the boiler through an interface card (only combi and heating only models)

*as optional

novadens boiler

Novadens Boiler is the new Westen condensing storage boiler, that combines very high technology with peerless sanitary performances.



Saving

Higher efficiency means energy saving that is gas expenditure remarkable cutback. 4 stars according to CE/92/42 (European standard defining the boilers efficiency)



Exchanger

Stainless steel heat exchanger which ensures reliability and long life



Advance electronics

Novadens Boiler is provided with a digital control panel with push buttons and wide LCD display with text and symbols



High sanitary performance

Westen has provided Novadens Boiler with a 45 lt cylinder which grants a domestic hot water production up to 385 lt in 30' (ΔT 30°C). The cylinder takes only 5' to recover the set temperature.

- > 45 lt stainless steel AISI 316L cylinder
- > Pre-mixing group including modulating fan
- > Electric 3 way valve
- > Automatic by-pass
- > Circulating pump with built-in air vent
- > Anti-legionella system
- > Multifunction display
- > Built-in climatic regulation (outdoor sensor as optional)
- > Remote control available as optional
- > System to prevent pump and 3 way valve sticking operating every 24 hours
- > Full anti-frost device
- > Central heating safety valve set at 3 bar
- > Cylinder safety valve set at 8 bar

Westen recommends the use of temperature regulation accessories to have the highest efficiency, the maximum comfort and the easiest in use.



OUTDOOR SENSOR

- adjustment of the central heating water temperature according to the real outdoor temperature
- the central heating water temperature is the minimum necessary assuring the maximum condensation
- quick reaction to sudden change of weather
- less heat losses in the piping thanks to a lower temperature

		Novadens Boiler 240
Maximum DHW heat input	kW	24,7
Maximum heating heat input	kW	20,5
Maximum DHW heat output	kW	24
Maximum heating heat output 80/60°C	kW	20
Maximum heating heat output 50/30°C	kW	21,6
Minimum heat output 80/60°C	kW	6,8
Minimum heat output 50/30°C	kW	7,4
Energetic efficiency (92/42/CEE)		★★★★
Average efficiency (DIN 4702-T8)	%	109,8
Nominal efficiency	%	97,6
Nominal efficiency 50/30°C	%	105,1
Efficiency at 30%	%	107,5
NOx class (EN 483)		5
Minimum working temperature	°C	-5
Expansion vessel capacity/pre-charge	l/bar	7,5/0,5
Heating temperature range	°C	25/80
Domestic hot water temperature range	°C	10/60
Continuous DHW production ΔT 25°C	l/min	13,8
DHW production at ΔT 30°C	l/30'	385
Maximum pressure on heating circuit	bar	3
Maximum pressure DHW circuit	bar	8
Coaxial flue system \varnothing 60/100 max length	m	10
Dual flue system \varnothing 80 max length	m	80
Maximum flue mass flow rate	kg/s	0,012
Minimum flue mass flow rate	kg/s	0,003
Maximum flue temperature	°C	73
Dimensions (h x l x p)	mm	950x600x466
Net weight	kg	66
Gas type		Natural gas/LPG
Power consumption	W	150
Grade of protection		IPX5D

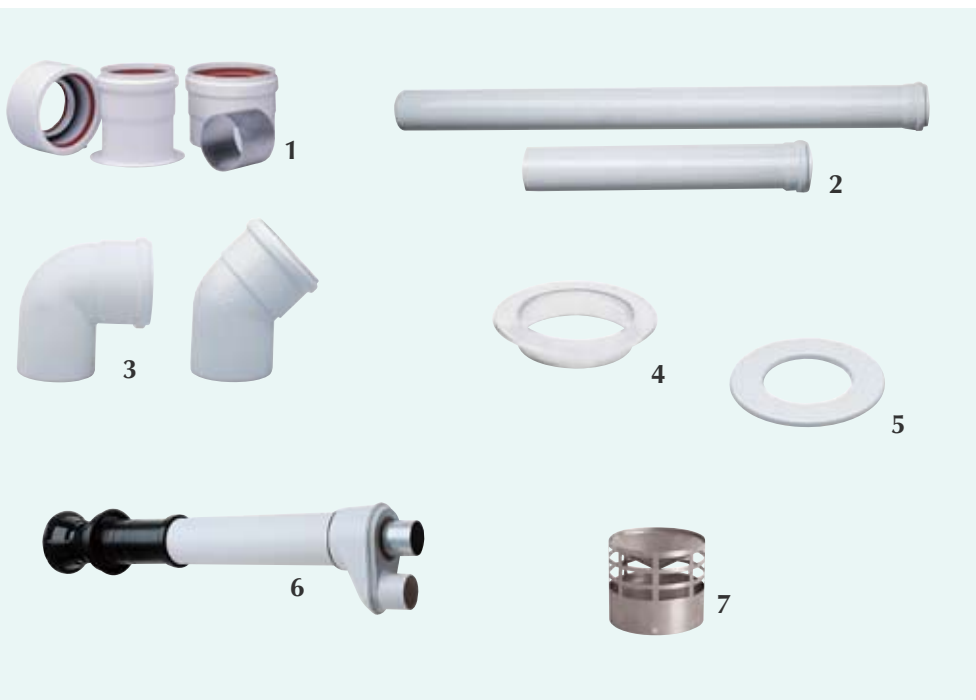
FLUE ACCESSORIES

COAXIAL FLUE SYSTEM



- 1 **COAXIAL FLUE TUBES WITH TERMINAL**
Length: 750 mm
• with proof terminal
• sealing collar.
KHG714059611
- 2 **COAXIAL 93° BEND**
KHG714059715
- 3 **VERTICAL CHIMNEY TERMINAL**
Ø 80/125
KHG714093510
- 4 **REDUCTION FROM 80/125 TO 60/100**
KHG714093910
- 5 **PITCHED ROOF TILE**
To be used with a vertical chimney terminal.
It is adjustable from 15° to 45°.
KHG714093710
- 6 **COAXIAL FLUE TUBES EXTENSION**
Length: 1000 mm
KHG714059514
- 7 **COAXIAL 45° BEND**
KHG714059815
- 8 **FLAT ROOF TILE**
To be used with a vertical chimney terminal.
KHG714093610
- 9 **INTERNAL SEALING COLLAR Ø 100**
KHG714017710

DUAL FLUE SYSTEM



- 1 **DUAL FLUE SYSTEM**
It includes:
• flue reduction
• intake connection.
KHG714059113
- 2 **TUBE Ø 80**
L = 1000 KHG714059411
L = 500 KHG714059910
- 3 **90°/45° BEND Ø 80**
90° Ø 80 KHG714059211
45° Ø 80 KHG714059311
- 4 **EXTERNAL SEALING COLLAR Ø 80**
KHG714018411
- 5 **INTERNAL SEALING COLLAR Ø 80**
KHG714018510
- 6 **DUAL FLUE VERTICAL CHIMNEY TERMINAL**
For dual system single outlet on the roof.
KHG714093810 (adapter)
KHG714093510
- 7 **DUAL FLUE TERMINAL Ø 80**
KHG714010410

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