

Wall-hung, high-output premixed condensing boilers

Pictor Condensing KR 85



PICTOR CONDENSING LINE TECH KR 85

Wall-hung, premixed, condensing boiler for central heating only, sealed chamber.

Output 90.4 kW (50°C – 30°C).

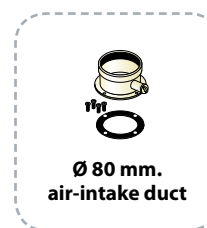
Pre-set to run on methane (can be transformed to run on propane).

- High efficiency stainless steel heat exchanger
- Total premixing burner
- Modulating gas valve with constant air-to-gas ratio
- Variable speed combustion fan
- 3-speed circulation pump
- Air-purging device on heat exchanger
- In-built air-vent collector
- Differential water pressure switch (flow-return) and minimum
- Flame modulation
- Electronic ignition and flame detection via ionization
- NTC immersion temperature probe on flow
- LCD interface with diagnostics
- Efficiency rating according to 92/42/CE: ★★★★★
- NOx emission class (EN 297): 5

Can be connected to:

- External water heater for DHW production (with anti-legionella and anti-frost function)
- Open Therm Remote Control
- Board managing high and low temperature zones

Accessories supplied with the boiler included in the price:



Model	Fuel	Code	Output in kW	Efficiency at maximum output	Gross weight
PICTOR CONDENSING LINE TECH KR 85	METHANE	CPOxx2RR85	90.4	106.4 %	Kg. 77

INCLUDED IN THE PRICE: Paper template, air-intake duct kit Ø 80 mm with sealing cap.

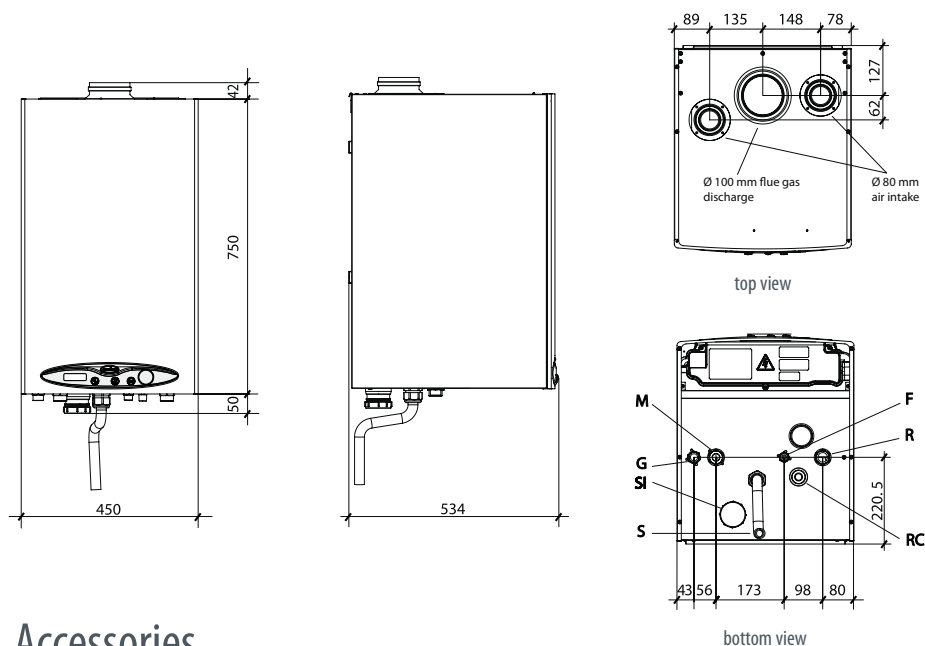
Electrical control boards for cascade boiler management

Control boards KR 85	2 boilers	3/4 boilers	5/6 boilers
Standard electrical control board	0QUADCAS00	0QUADCAS01	0QUADCAS02
PC electrical control board	0QUADCAS10	0QUADCAS11	0QUADCAS12
GSM electrical control board	0QUADCAS05	0QUADCAS06	0QUADCAS07

For the complete range of flue gas accessories see page 178-179; for cascade systems see page 180-181.

Dimensions and coupling centre distances

Pictor Condensing KR



IMPORTANT:
On this boiler, it is possible to install split air intake ($\varnothing 80$ mm) and flue gas outlet ($\varnothing 100$ mm) or specific accessories listed on pages 180 - 181 for condensing boilers in cascade installation.

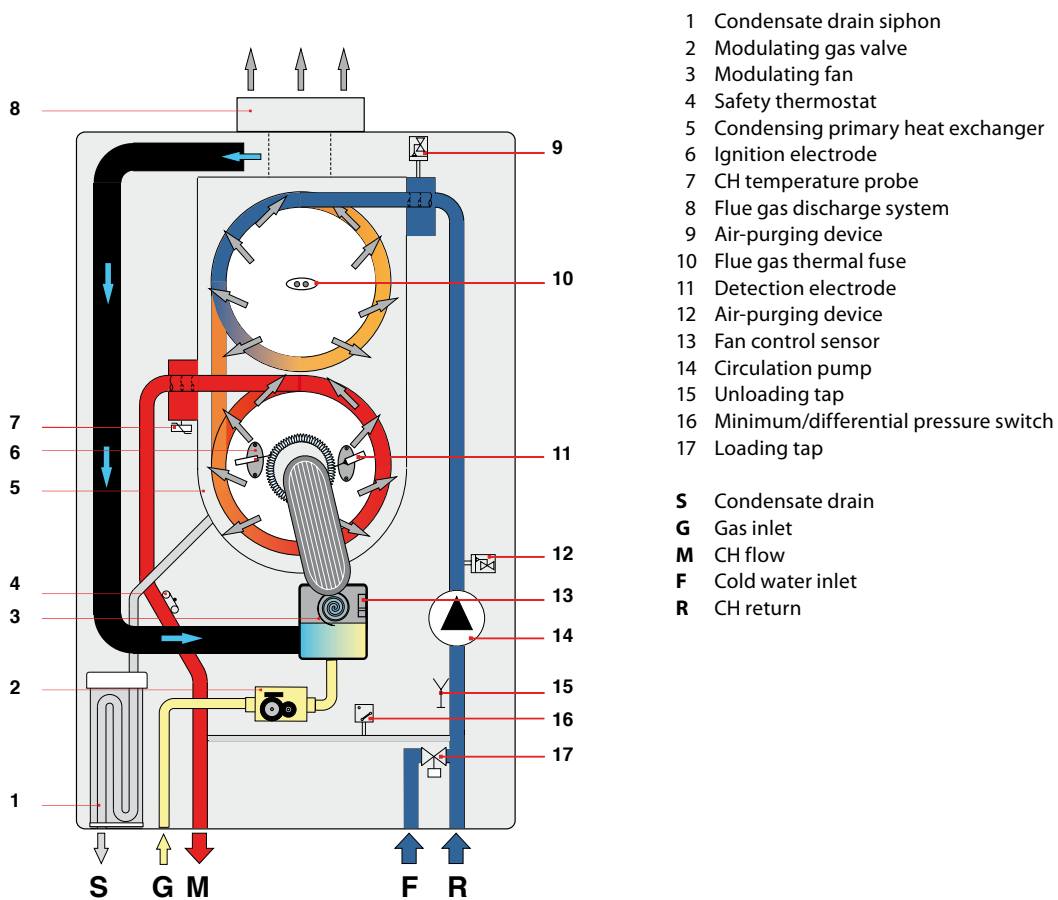
- G Gas inlet ($\frac{3}{4}$ "
- M CH flow (1")
- F Domestic cold water inlet ($\frac{1}{2}$ "
- R CH return (1")
- S Condensate drain
- SI Condensate siphon
- RC Loading tap

Accessories

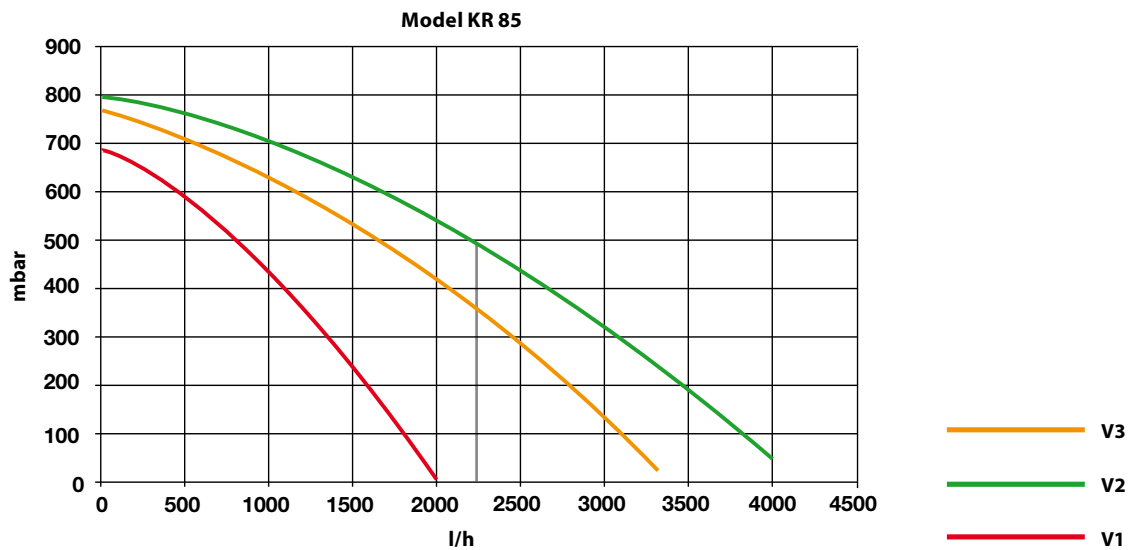
Item	Description	Code
	Remote control	OCREMOTO05
	Outdoor probe	OSONDAES01
	Electric zone kit with outdoor probe	OKITZONE00
	External water heater temperature probe	OKITSOND00
	Paper template (delivered as standard with the boiler)	ODIMACAR12
	Boiler cover	OCOPERIG01
	Condensate neutralizing filter (for boilers with max. output 85 kw)	OFILNECO00
	Spare cartridge for condensate filter (for boilers with max. output 85 kw)	ORICAFIL00

For the complete range of flue gas accessories see page 178-179; for cascade systems see page 180-181.

Pictor Condensing Line Tech KR 85 hydraulic layout



Head available for boiler (by-pass closed)



TECHNICAL SPECIFICATIONS		KR 85
Gas category		I12H3P
Nominal heat input		kW 85.0
Nominal heat output (80-60°C)		kW 82.7
Nominal heat output (50-30°C)		kW 90.4
Minimum heat output (80-60°C)		kW 20.3
Minimum heat output (50-30°C)		kW 22.6
Useful efficiency at nominal heat input (80-60°C)		% 97.3
Useful efficiency at minimum heat input (80-60°C)		% 97.3
Useful efficiency at nominal heat input (50-30°C)		% 106.4
Useful efficiency at minimum heat input (50-30°C)		% 107.7
Useful efficiency at 30%		% 108.5
Casing heat loss with burner on at nominal heat input		% 0.30
Casing heat loss with burner on at minimum heat input		% 0.93
Casing heat losses with burner off		% 0.48
Chimney heat loss with burner on at nominal heat input		% 2.20
Chimney heat loss with burner on at minimum heat input		% 1.79
Energy efficiency mark (92/42 EEC)		★★★★
NOx class (EN 297/EN 483)		5
Maximum working pressure		bar 5
Maximum working temperature		°C 83
Temperature adjustment		°C 20 - 78
CH consumption at nominal heat output (80-60°C)	Methane	m³/h 9.0
CH consumption at minimum heat output (80-60°C)	Methane	m³/h 2.222
CH consumption at nominal heat output (80-60°C)	Propane	kg/h 6.59
CH consumption at minimum heat output (80-60°C)	Propane	kg/h 1.628
ΔT fumi/aria allat nominal heat input		°C 47
ΔT flue gas/air at minimum heat input		°C 36
Flue gas flow rate at nominal heat input		g/s 38.7
Flue gas flow rate at minimum heat input		g/s 9.6
CO ₂ at nominal heat input	Methane	% 9.0
CO ₂ at nominal heat input	Propane	% 10.0
Residual available head at nominal heat input		Pa 240
Residual available head at minimum heat input		Pa 19
Supply pressure	Methane	mbar 20
Supply pressure	Propane	mbar 37
Diaphragm diameter	Methane	mm 10.3
Diaphragm diameter	Propane	mm 7.9
Power supply voltage/frequency		V/Hz 230/50
Fuse on the power supply		A 2
Absorbed electric power		W 245
Electric protection rating		IPX4D
Gas fitting		G¾
Central heating fittings		G 1
L x H x D		mm 450x750x534
Gross weight		kg 77
Net weight		kg 75.2