

GB

Pictor Dual *Line*

Combi and heating
only gas wall-hung
boilers



Line

BRAND NAME
NOVA FLORIDA
BOILERS



C 157 - 01

Wall-hung, combi gas boilers

Pictor Dual



- Innovation
- Reliability
- Safety
- Easy operation and maintenance
- Quality
- High efficiencies

The PICTOR DUAL boiler, in the CTFS and RTFS versions, have three-star classification (★★★).



new warmth at home

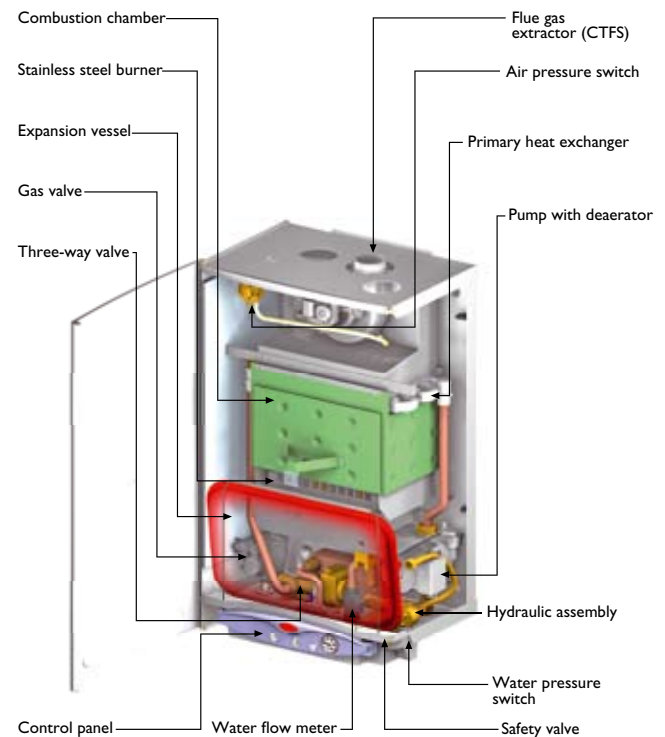
Nova Florida introduces its new wall-mounted, combi Pictor Dual Line.

It is designed implementing the latest technology and developed to meet the user, fitter and service technician requirements.

The user is guaranteed a high quality product, with high efficiency and low consumption, user-friendly and safe through time.

The installer's expectations are satisfied regarding easy installation and solidity of the product.

The convenient access and rational positioning of the components are the guarantee for quick and easy maintenance.



Fondital company operates under **UNI EN ISO 9001:2000** certified quality system management.

Internal quality assessment of functionality, manufacturing processes, and final products ensure reliability and trouble-free operation.

Wall-hung, combi gas boilers

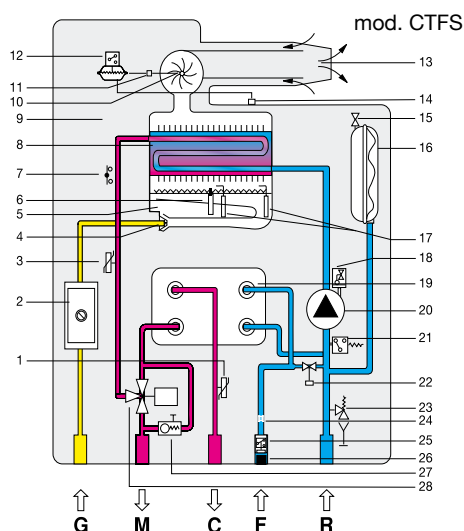
Pictor Dual C



PICTOR DUAL LINE CTN 24 - CTFS 24 - CTFS 28

- Available in two configurations (NATURAL GAS - LPG) and in the versions with:
 - open chamber and natural draught (CTN)
 - sealed chamber forced draught (CTFS)
- Mono-thermal primary heat exchanger
- Plate heat exchanger for DHW supply
- Exclusive, three-speed, compact pump with integrated deaerator
- Integrated hydraulic assembly includes three-way valve, adjustable by-pass, safety valve, water pressure switch, loading and unloading cocks, and connection to the expansion vessel
- 8 litre expansion vessel
- Integrated safety circuit board and flame modulation
- Sliding temperature operation with external probe (option)
- High and low temperature heating area management, by means of electric board (option)
- Casing with front door which can be opened to the right or to the left (patented)
- 92/42/CEE efficiency rating:
 - CTFS 24 and CTFS 28: ★★★
 - CTN 24 ★★

HYDRAULIC LAYOUT



Secondary plate heat exchanger



Hydraulic assembly



Mono-thermal heat exchanger

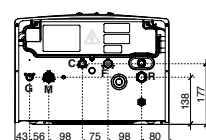
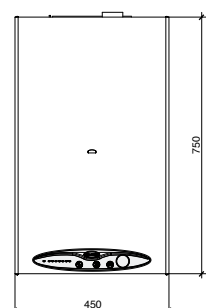
- 1 DHW temperature probe
- 2 Gas valve
- 3 CH temperature probe
- 4 Burner nozzles
- 5 Burner
- 6 Detection electrode
- 7 Safety thermostat
- 8 Mono-thermal primary heat exchanger
- 9 Sealed combustion chamber
- 10 Flue gas discharge fan

- 11 Pressure check on flue gas duct
- 12 Flue gas circuit safety pressure switch
- 13 Air intake and flue gas duct
- 14 Pressure check on air-intake duct
- 15 Expansion vessel filling valve
- 16 Expansion vessel
- 17 Ignition electrodes
- 18 Deaerator

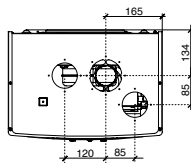
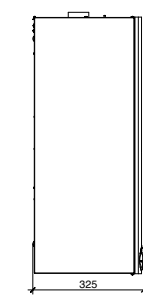
- 19 Secondary plate heat exchanger
- 20 Pump
- 21 Water pressure switch
- 22 Loading tap
- 23 Safety valve
- 24 Flow limiting device (10 l/min)
- 25 Flow switch
- 26 Cold domestic water filter
- 27 Adjustable by-pass
- 28 Three-way valve

DIMENSIONS

Pictor Dual CTFS
line

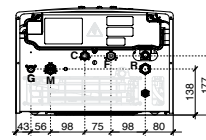
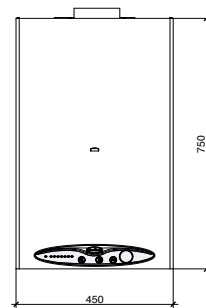


view from the bottom

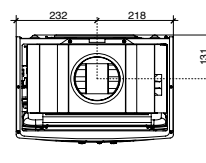
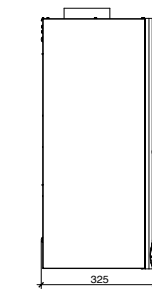


view from the top

Pictor Dual CTN
line



view from the bottom



view from the top

G Gas inlet (1/2") - M Heating system flow (3/4") - C D.H.W. outlet (1/2") - F Cold water inlet (1/2") - R Heating system return (3/4")

Wall-hung gas boilers for heating only

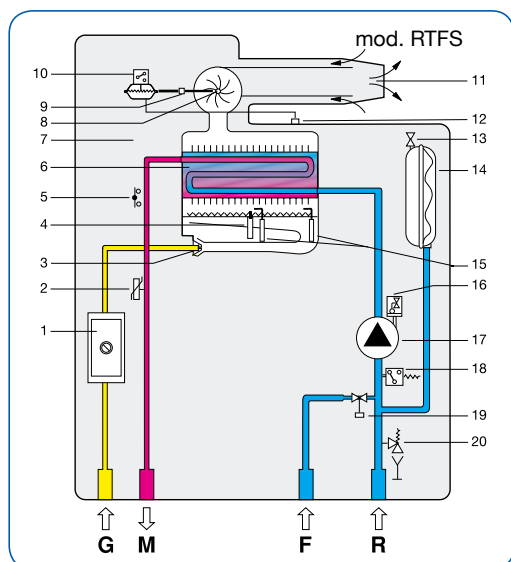
Pictor Dual R



PICTOR DUAL LINE RTN 24 - RTFS 24 - RTFS 28

- Available in two configurations (NATURAL GAS - LPG) and in the versions with:
 - open chamber and natural draught (RTN)
 - sealed chamber, forced draught (RTFS)
- Mono-thermal primary heat exchanger
- Exclusive, three-speed, compact pump with integrated deaerator
- Integrated hydraulic assembly includes safety valve, water pressure switch, loading and unloading taps, and connection to the expansion vessel
- 8 litre expansion vessel
- Integrated safety circuit board and flame modulation
- Sliding temperature operation with external probe (option)
- High and low temperature heating area management, by means of electric board (option)
- Casing with front door which can be opened to the right or to the left (patented)
- 92/42/CEE efficiency rating:
 - RTFS 24 and RTFS 28: ★★★
 - RTN 24: ★★

HYDRAULIC LAYOUT



Hydraulic Assembly



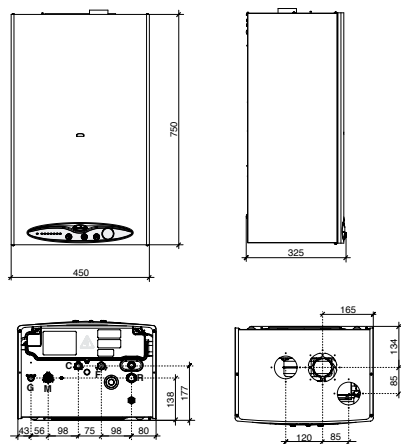
Mono-thermal heat exchanger

- 1 Gas valve
- 2 CH temperature probe
- 3 Burner nozzles
- 4 Detection electrode
- 5 Safety thermostat
- 6 Heat exchanger
- 7 Sealed combustion chamber
- 8 Flue extraction fan
- 9 Pressure check on flue gas duct
- 10 Flue gas system safety pressure switch

- 11 Air intake and flue gas duct
- 12 Pressure check on air-intake duct
- 13 Expansion vessel filling valve
- 14 Expansion vessel
- 15 Ignition electrode
- 16 Deaerator
- 17 Pump
- 18 Water pressure switch
- 19 Loading tap
- 20 Safety valve

DIMENSIONS

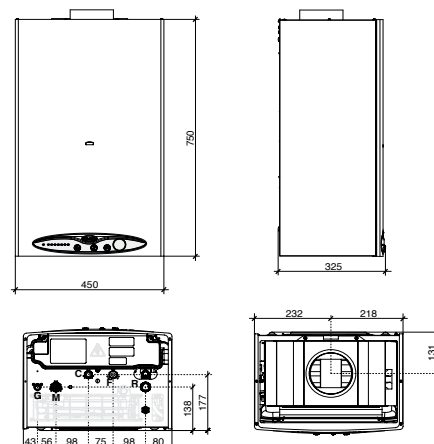
Pictor Dual RTFS
line



view from the bottom

view from the top

Pictor Dual RTN
line



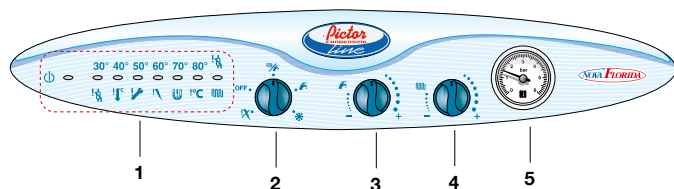
view from the bottom

view from the top

G Gas inlet (1/2") - M Heating system flow (3/4") - F Cold water inlet (1/2") - R Heating system return (3/4")

Pictor Dual *line*

CONTROL PANEL



- 1 LED thermometer for quick and easy reading of CH water temperature. The LEDs act as alarms in case of any malfunction of the boiler, by providing flashing signals which allow for fault diagnostics.
- 2 Function mode selector switch
- 3 Domestic hot water temperature adjusting knob
- 4 Central heating temperature adjusting knob
- 5 Manometer

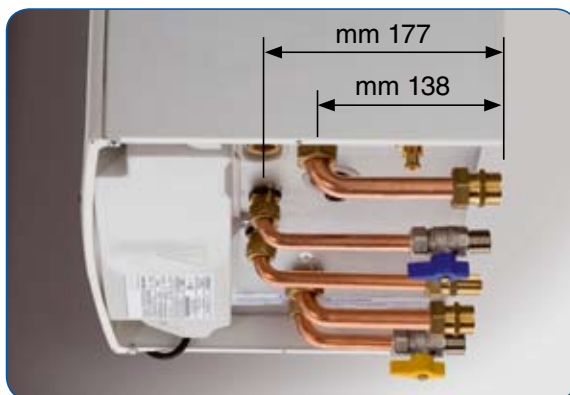


Outdoor probe
(option)

SLIDING TEMPERATURE

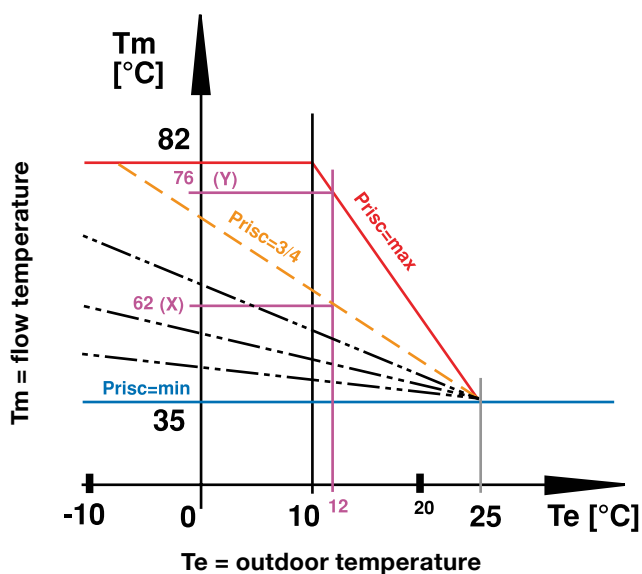
Pictor Dual Line boiler can be equipped with an external probe (option) in order to adjust CH flow temperature in relation to outdoor temperature, thus decreasing consumption.

WALL CONNECTIONS



The distance between the connections and the wall behind the unit is 138 mm for CH and gas, and 177 mm for DHW, allowing for convenient installation.






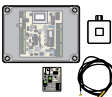



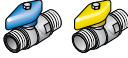
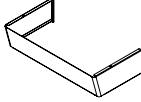
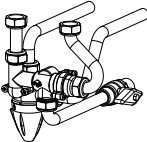
“SLIDING TEMPERATURE” GRAPH



line

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ACCESSORIES

Article	Description	Code
	DUAL flue gas split "standard" kit (for TFS 24 wall-hung boilers)	0SDOPPIA03
	DUAL flue gas split "plus" kit (for TFS 24 wall-hung boilers, pipe length 0.5 m)	0SDOPPIA04
	Splitting kit (for boilers mod. TFS 28)	0SDOPPIA06
	Remote control	0CREMOT005
	External probe	0SONDAES01
	Electric kit for management of different CH temperature zones	0KITZONE00
	Paper template (supplied with the boiler)	0DIMACAR00
	Metal fixing template	0DIMMEC003
	Standard hydraulic kit (supplied with the boiler)	0KITIDBA05
	Gas-water cocks kit	0KITRUBI01
	Pipes and cocks cover	0COPETUB01
	Kit for connection to solar panel (for CTFS and CTN models)	0KITSOLD00

The boiler packaging includes:

- Paper template
- Fixing bracket
- Fixing plugs
- Connection pipes kit
- Air diaphragm
- Air intake holes sealing caps
- Installation manual

WALL-HUNG, COMBI GAS BOILERS

PICTOR DUAL *line*

GENERAL FEATURES

		CTFS 24	RTFS 24	CTN 24	RTN 24	CTFS 28	RTFS 28
Category		II 2H3+	II 2H3+	II 2H3+	II 2H3+	II 2H3+	II 2H3+
Number of nozzles		12	12	12	12	13	13
Max heat input	kW	25.5	25.5	25.7	25.7	30.5	30.5
Reduced CH heat input	kW	11	11	11	11	12.3	12.3
Max heat output	kW	23.8	23.8	23.3	23.3	28.6	28.6
Reduced CH heat output	kW	9.9	9.9	9.9	9.9	11	11
Efficiency at max heat output	%	93.2	93.2	90.7	90.7	93.77	93.77
Efficiency at 30 % of the load	%	90.2	90.2	88.7	88.7	91.2	91.2
Efficiency rating according to 92/42/EC		★★★	★★★	★★	★★	★★★	★★★
CO ₂ content at Pmax (natural gas)	%	7.7	7.7	6.2	6.2	7.1	7.1
CO ₂ content at Pmin (natural gas)	%	2.9	2.9	3	3	2.7	2.7
Losses at chimney with burner functioning	%	6.57	6.57	8.5	8.5	6.1	6.1
ΔT flue gas/air at Pn	K	98	98	85	85	86	86
Casing heat loss (boiler installed indoor)	%	0.23	0.23	0.8	0.8	0.2	0.2
Flue gas mass flow rate (natural gas)	g/s	12.9	12.9	16.2	16.2	17.7	17.7
Consumption at max heat output:							
Natural gas	m ³ /h	2.7	2.7	2.72	2.72	3.43	3.43
Butane gas	kg/h	2.01	2.01	2.02	2.02	2.4	2.4
Propane gas	kg/h	1.98	1.98	1.99	1.99	2.36	2.36
DHW production with ΔT 30°C	l/min	11.03	-	11.30	-	13.5	-
DHW minimum flow	l/min	3	-	3	-	3	-
Min-max DHW pressure	bar	0.5 - 8	-	0.5 - 6	-	0.3 - 8	-
DHW maximum temperature	°C	62	-	58	-	62	-
DHW minimum temperature	°C	35	-	35	-	35	-
Expansion vessel capacity	l	8	8	8	8	8	8
Min-max CH pressure	bar	0.5 - 3	0.5 - 3	0.5 - 3	0.5 - 3	0.5 - 3	0.5 - 3
CH max temperature	°C	83	83	83	83	83	83
CH min temperature	°C	35	35	35	35	35	35
Burner pressure at max heat output:							
Natural gas	mbar	13.5	13.5	13	13	11.5	12
Butane gas	mbar	27	27	27	27	25.5	28.9
Propane gas	mbar	35.5	35.5	35.5	35.5	33	33.4
System flow/return diameter		G 3/4	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
DHW inlet/ outlet diameter		G 1/2	-	G 1/2	-	G 1/2	-
Gas connection diameter		G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2
Flue gas duct diameter	mm	-	-	130	130	-	-
Co-axial flue gas/air intake duct diameter	mm	100/60	100/60	-	-	100/60	100/60
Split flue gas/air intake duct diameter	mm	80/80	80/80	-	-	80/80	80/80
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Total absorbed electric power	W	130	137	90	90	150	137
Fuse on the power supply	A	2	2	2	2	2	2
Control board protection rating	IP	44	44	44	44	44	44
LxHxD	mm	450x750x325					
Net weight	Kg	35.4	32.6	33.2	31.0	35.6	33.4

The manufacturer reserves the right to implement modifications without notice.

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COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001/2000 =

BRAND NAME
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BOILERS