



SOLARFOCUS makes you independent

therminator II 

Wood gasifying boiler

.... choosing the right fu



... the shrewd decision -

nt fuel

Your certain benefits:

- Independence
- Inexhaustible
- Environmentally friendly

on - burn wood

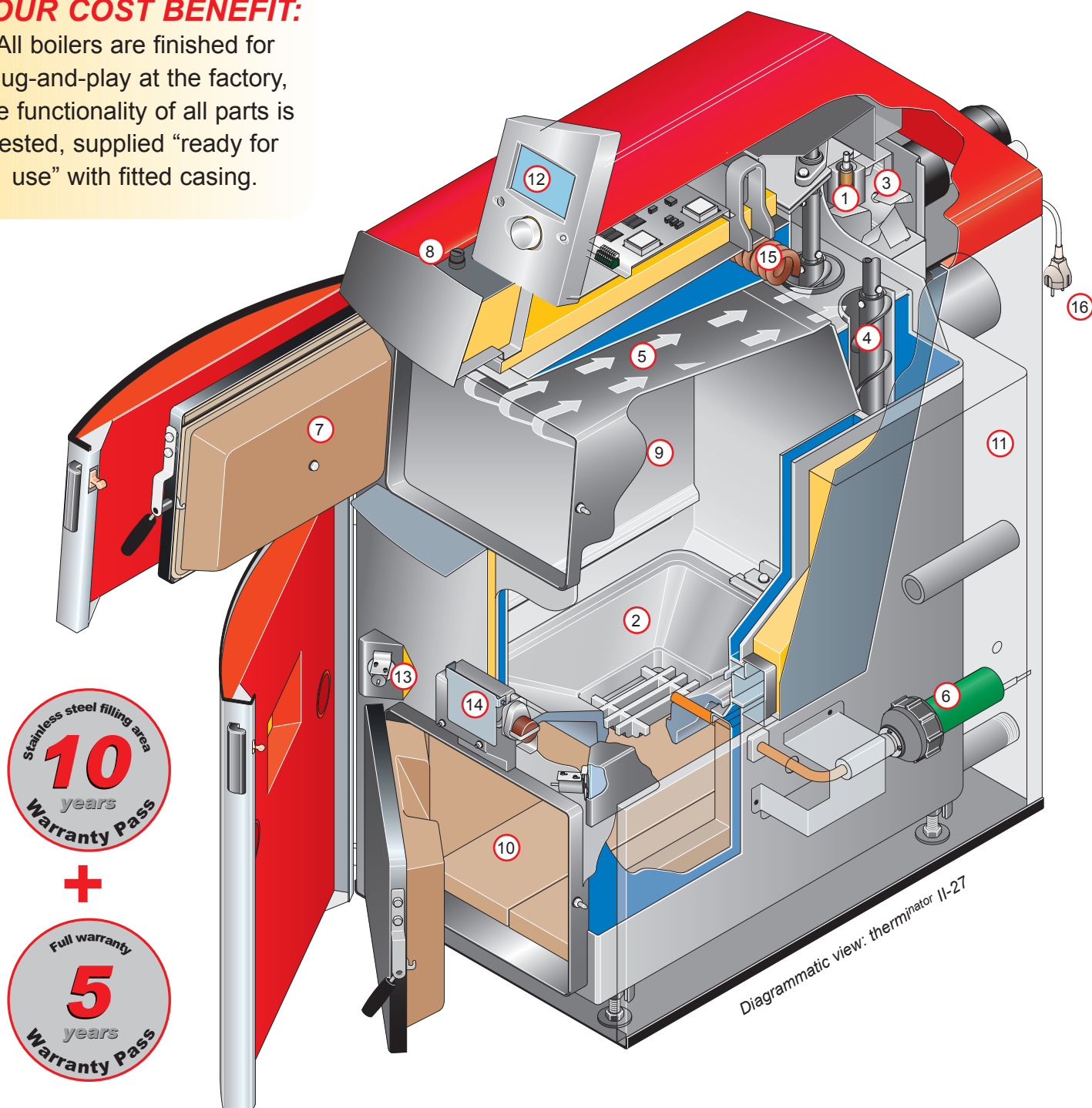
SOLARFOCUS
makes you independent



Heating is fun

YOUR COST BENEFIT:

All boilers are finished for plug-and-play at the factory, the functionality of all parts is tested, supplied "ready for use" with fitted casing.



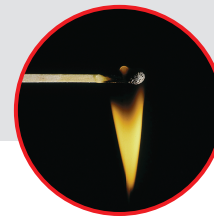
Operating efficiency up to: **92,8%**

Data taken from test reports issued by the Federal Office of Agricultural Technology in Wieselburg.

Key:

- | | |
|---|---|
| 1 Lambda sensor | 9 Stainlesssteel loading chamber |
| 2 Hopper grate of high quality chromium steel casting | 10 Generous ash chamber |
| 3 Suction fan | 11 Panelling |
| 4 Compact heat exchangers with automatic cleaning | 12 Regulator system- Lambda- eco manager |
| 5 Carbonisation gas extraction | 13 Primary air regulator |
| 6 Automatic ignition by hot air fan (accessory) | 14 Secondary air regulator with servo motor |
| 7 Loading doors | 15 Backup battery |
| 8 Temperature safety delimeter (STB) | 16 Delivered ready to use |

DOWNWARD COMBUSTION TECHNOLOGY



Heating is fun:

With our 25 years of experience in developing wood gasifying boilers we provide you with an extremely advanced and perfectly engineered product.

Heating is fun:

The generously sized stainless steel loading area (145l - with 10 year guarantee) is suitable for 1/2 meter log wood and ensures long intervals between refuelling.

Heating is fun:

Perfect combustion thanks to downward combustion technology, combined with the lambda sensor and the electronically controlled suction fan.

Boiler efficiency at fully loaded operation is 92,5% with minimum emissions, causing less strain on your wallet and on our environment.

Heating is fun:

The large ash chamber means longer time spans between emptying the ashes.

Heating is fun:

The heat exchangers are cleaned cyclically and fully automatically (at no extra costs).

Heating is fun:

The boiler can be equipped with an automatic ignition system for log wood. This means that: you can load your boiler with suitable log wood and ignition takes place automatically at your set time.

Heating is fun:

The carbonisation gas extraction prevents smoke from emerging when you open the loading doors. The suction fan extracts the carbonisation gas directly to the flue.

Heating is fun:

Your boiler is regulated using the latest regulator design with a very easy-to-use operating system - efficiently and under full control.

- The **NEW Generation** thermi^{nator}, the thermi^{nator} II wood gasifying boiler has been developed further for higher customer comfort.
- Equipped with the latest technology and designed for comfortable, easy operation.
- It enables particularly economical use of 1/2 meter length log wood.

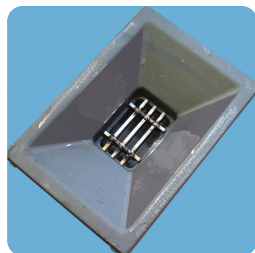
over 25 years of experience ...

... important details



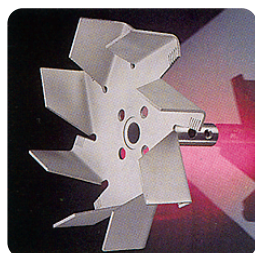
The lambda sensor: (1):

As the **first user** of the lambda sensor in boiler construction (since 1981) we have continually extended this technological lead. Through the optimal arrangement of the lambda probe (PATENTED) our boilers achieve the best combustion values, and in particular a long service life of the lambda probe.



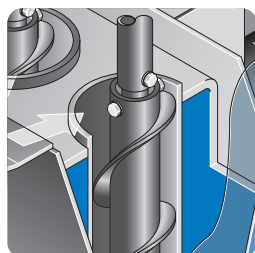
Hopper grate (2):

The PATENTED, funnel-shaped cast chromium steel grate provides the greatest heat volume at the smallest surface (low energy losses).



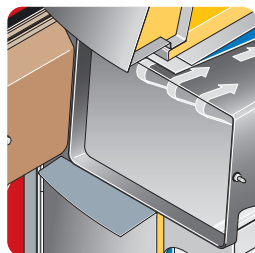
The ID fan (3):

The combustion air required in the various areas of the unit is drawn in through the speed-regulated ID fan. It is controlled by the microprocessor incorporated into the control system, and by the measured values from the lambda probe.



Compact heat exchangers with automatic cleaning (4):

Due to the special construction our boilers realise maximum heat exchange at very compact size. Endless screws that operate in the "meat grinder principle", clean the walls of the heat exchangers at set intervals. The endless screws are closely tangential to the heat exchangers and carry off any deposits to the ash chamber.



Carbonisation gas extraction (5):

The carbonisation gas extraction system guarantees that when you open the loading doors, no smoke emerges, even when the system is heating. The extractor fan extracts the carbonisation gas directly to the flue.



Automatic ignition - optional extra - (6):

The log wood can be ignited automatically by a hot air fan at the ignition time of your choice.

... ensures maximum comfort

eco^{manager} - provides individual adjusting options.

The control system is particularly important in providing your daily comfort. You determine when and how warm it will be.

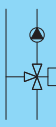
The eco^{manager} is an intelligent measurement and control aid.

It takes into account the changing outdoor temperatures as well as your personal living preferences.












The eco^{manager} provides individual adjusting options.





THERMINATOR II V6.120 Di, 14.01.07
 Pellets 09:59
 Boiler temperature: 58 °C
 Flue gas temperature: 141 °C
 Air fycator: 1.31
 Pellets mode!


HEATING CYCLE 1

 Flow temperature: 26 °C
 Reg. flow temp.: 28 °C
 Outside temp.: 4 °C
 Status: Continuous mode


The eco^{manager} controller:

-  Full graphic display with background lighting
-  Very easy to control using a control knob
-  Clear graphic illustration of the system values (system values are graphically displayed).
-  Integrated solar control
-  Weather-controlled heating circuit regulation for 2 separate heating circuits. (can be expanded (option) to 4 or 6 heating circuits)
-  32 Bit processor
-  Fully digital combustion control
-  Remote update of software via ISDN-connection possible (optional)
-  Remote monitoring and system control via ISDN-connection possible (optional)
-  Maximum 5 Watt power consumption in standby mode
-  Control panel can be fitted to the unit or in the living area.

BUFFER

 63 °C act. release: always On
 55 °C Buffer pump: Off

SOLAR CYCLE

 Collector temp.: 118 °C
 Reservoir temp.: 50 °C

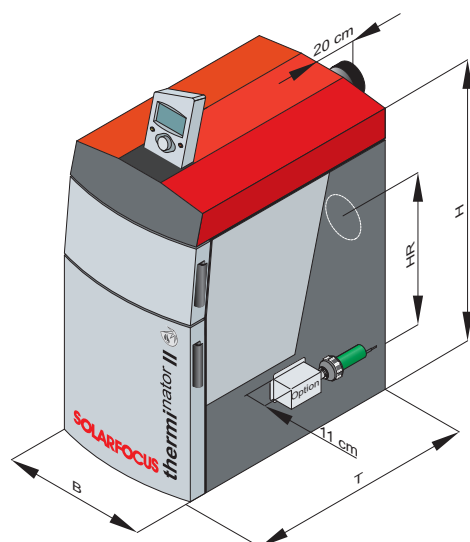
HEAT VOL. COUNTER

 Flow: 2791/h
 act. perform: 11,1kW
 Output: 387kWh
 Flow temp.: 67 °C
 Return temp.: 49 °C

DOMESTIC HOT WATER RESERVOIR

 53 DHWR required temp: 55 °C
 Hysteresis temp: 10 °C
 act. release: w. clock
 DHWR pump: Off

Technical data

therminator II

Wood gasifying boiler



Performance	[kW]	27	36	49	60
T = Depth without blower	[cm]	102	130	152	152
B = Width	[cm]	62	67	88	88
H = Height	[cm]	130	140	168	168
DM flue tube	[cm]	13	15	20	20
HR = Centre smoke flue height.	[cm]	78	85	90	90
Weight	[kg]	534	622	747	747
Water content	[l]	68	126	188	188
Loading chamber	[l]	145	186	290	290
Max length of wood	[cm]	56	56	66	66
Loading chamber cover	[cm]	37 x 27	42 x 27	56 x 27	56 x 27
Backup battery	["]	AG 1/2"	AG 1/2"	AG 1/2"	AG 1/2"
Immersion sleeves for temp. sensors	["]	IG 1/2"	IG 1/2"	IG 1/2"	IG 1/2"
Evacuation	["]	AG 1/2"	AG 1/2"	AG 1/2"	AG 1/2"
KRL	["]	AG 11/4"	AG 11/4"	AG 6/4"	AG 6/4"
KVL	["]	AG 11/4"	AG 11/4"	AG 6/4"	AG 6/4"

Technical report

Exhaust values in mg/m³ are referenced to 13% remaining oxygen. The data is taken from test reports issued by the Federal Office of Agricultural Technology in Wieselburg.

tested top technology



	therminator II 27	therminator II 36	therminator II 49	therminator II 60
	Full load	Full load	Full load	Full load
Fuel	stock wood / beech	stock wood / beech	stock wood / beech	stock wood / beech
Water content	[%] 13,1	14,9	17,2	17,2
Boiler efficiency	[%] 92,6	92,8	92,7	92,5
CO ₂	[%] 15,5	14,8	15,0	15,2
CO	[mg/m ³] 198,0	232,0	203,0	191,0
HC	[mg/m ³] 12,0	6,0	3,0	4,0
Dust proportion	[mg/m ³] 18,0	16,0	15,0	14,0
Draft requirement	[Pa] 5	5	5	5
Mass flow of exhaust	[g/s] 14,1	20,2	26,3	31,5
Exhaust temperature	[°C] 138,7	109,9	119,0	126,5
Burn period per load	[h] 4,9	5,8	5,5	5,3

Everything from one source, with 25 years of experience:
SOLARFOCUS solar systems - **SOLARFOCUS** biomass heating - **SOLARFOCUS** storage technology

Your specialised dealer



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