Combustion control | S-Thermatik
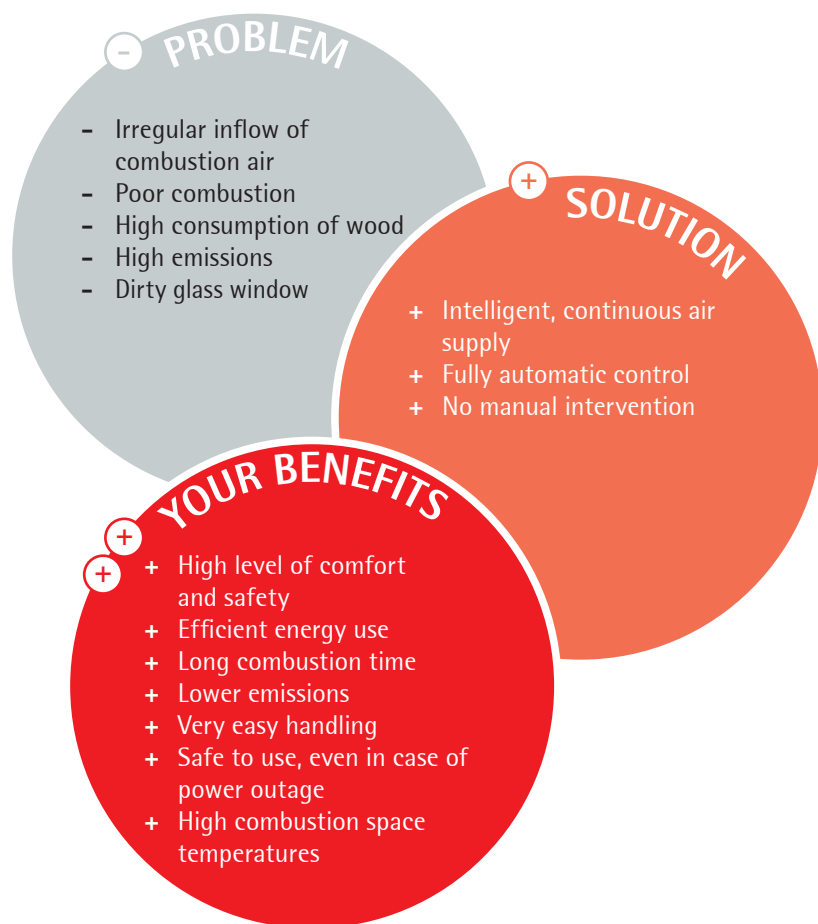
S-Thermatik · S-Thermatik Pro · S-Thermatik Global · S-Thermatik Mini

The automatic system, which supplies just as much air as is needed,
controls the combustion to ensure that the process is clean and the fire perfect.

− PROBLEM

- − Irregular inflow of combustion air
- − Poor combustion
- − High consumption of wood
- − High emissions
- − Dirty glass window

+ SOLUTION

- + Intelligent, continuous air supply
- + Fully automatic control
- + No manual intervention

+ + YOUR BENEFITS

- + High level of comfort and safety
- + Efficient energy use
- + Long combustion time
- + Lower emissions
- + Very easy handling
- + Safe to use, even in case of power outage
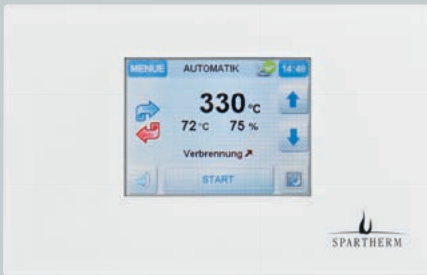- + High combustion space temperatures

Poor combustion is the source of many problems. The easy-to-handle appliances from SPARTHERM not only put you in control of these problems, you also enjoy a number of benefits in line with our motto:

Simple, intelligent and comfortable heating.

Features of S-Thermatik

- Automatic control of the air supply by combustion air dispenser integrated in the fireplace.

- Different distribution of primary and secondary air inside the unit – instead of simply throttling the flow of combustion air. No simple throttle in the intake socket.

- Fireplace specific combustion parameters are pre-programmed. Simply select your fireplace in the menu and rely to receive optimum air control for best wood combustion. This is preset in the factory.

- If power should fail the air can be controlled manually by a lever.

- Access to all control components through the combustion chamber.

- Simply, clearly designed and large display.

White

IMPROVED

Black   Stainless steel   Stainless steel, arched

S-Thermatik Pro scope of supply
- Full colour display with plain text display and touch screen
- Connecting lines
- Exhaust gas temperature sensor (thermocouple NiCr-Ni type K) with 5m connecting cable
- Terminal box with control and mains feed

S-Thermatik Pro
The professional combustion control with extensive additional functions.

S-Thermatik Pro takes over the optimum control of primary and secondary air during combustion and thereby ensures optimum combustion. Combustion can also be controlled manually at the air control lever at any time, e.g., if power fails.

Preassembled at the fireplace
- Actuator with magnetic clutch in the separate combustion air socket (SVS) (order SVS socket separately)
- Door contact switch

S-Thermatik Pro functions
- 2 additional temperature inputs for thermocouples NiCr-Ni (type K)
- 3 additional temperature inputs for PT1000, e.g., for display of the buffer reservoir
- 3 additional relay outputs for controlling pumps, extractor hoods, etc.
- 3 additional servo outputs for controlling throttle positions and valves
- **NEW:** Multiple-language user surface
- **NEW:** Active control to prevent overheating of the fireplace
- **NEW:** Selection option, the user can select the combustion power between normal, high and low

Retrofitting is not possible. Please always order together with the fireplace. Or order the installation kit in advance.

Flush frame optionally available for arched display

S-Thermatik Global
The compact universal combustion control system for any fireplace.

S-Thermatik Global, the combustion control system with motorized supply air throttle. Suitable for Spartherm fireplaces without wheel-type air dispenser. Actuator with spring return. The supply air throttle opens in case of power failure.

S-Thermatik Global functions
S-Thermatik Global has the same additional functions as S-Thermatik Pro.

If S-Thermatik Global is ordered for a Spartherm fireplace, the associated door contact switch is installed at the fireplace.

- **NEW:** Multiple-language user surface
- **NEW:** Active control to prevent overheating of the fireplace
- **NEW:** Selection option, the user can select the combustion power between normal, high and low

S-Thermatik Global can be retrofitted.

Flush frame optionally available for arched display

IMPROVED

S-Thermatik Global scope of supply
- Full colour display with plain text display and touch screen
- Connecting lines
- Exhaust gas temperature sensor (thermocouple NiCr-Ni type K) with 5m connecting cable
- Terminal box with control and wall power supply
- Combustion air throttle with actuator
- Door contact switch

S-Thermatik

The traditional combustion control.

The combustion control sets the required combustion air flow automatically during the combustion process. Combustion can be controlled manually at the air lever at any time. In case of power failure the combustion air setting of the fireplace can be adjusted manually with the "cold hand" as usual.

Preassembled at the fireplace:
• Actuator with magnetic clutch in the separate combustion air socket (SVS) (order SVS socket separately)
• Door contact switch

Additional functions of S-Thermatik
• 1 additional temperature input for thermocouples NiCr-Ni (type K).
• Display for information only, the measured temperature has no effect on the combustion control.

Retrofitting is not possible. Please always order together with the fireplace.

Flush frame optionally available

S-Thermatik scope of supply
• Control unit with display and flush-mounted socket
• Connecting lines
• Exhaust temperature sensor (thermocouple NiCr-Ni type K) with 5 m connecting line
• Terminal box with mains feed (230 V)

S-Thermatik Mini

The low-priced but highly efficient combustion control system, only for stoves.

Combustion air setting is automatic or by hand. The setting can be changed at the rotary knob at any time. In automatic mode, the lighting of the fire and the piling up of wood are detected by the door contact switch. Combustion progress is monitored and controlled by the exhaust temperature sensor.

There is no external display. Automatic mode is indicated by a lamp (illuminated logo) and can also be seen by the movement of the air throttle.

Detachable audible signal for wood pile-up interval.

Retrofitting is not possible. Please always order together with the fireplace.

S-Thermatik Mini scope of supply
• Exhaust temperature sensor and door contact switch
• Actuator with mechanical unlock function
• Control with power supply unit
• Indicator lamp integrated in the bottom door of the stove
• Operation and service manual

S-Thermatik – Pro / Mini / Global applications

Fireplace inserts	S-Thermatik		
	Pro	Mini	Global
Arte 1 Vh	–	–	–	–
Arte Bh	–	–	–	–
Arte BRh	yes	yes	–	–
Arte BRh + Thermobox	yes	yes	–	–
Arte BRh + Aquabox	yes	yes	–	–
Arte BRh + Helix	–	–	–	–
Arte Uh 50	–	–	–	–
Arte Uh 70	–	–	–	–
Arte Uh 90	–	–	–	–
Arte Xh / X-FD	–	–	–	yes
Arte 3RLh 100	yes	yes	–	–
Arte 3RLh 80	yes	yes	–	–
Arte 3RLh 60	yes	yes	–	–
Stove cassette small	–	–	–	–
Stove cassette large	–	–	–	–
Mini 2L / 2Lh / 2R / 2Rh	yes	yes	–	–
Mini 2L / 2Lh / 2R / 2Rh + Helix	yes	yes	–	–
Mini 2L / 2Lh / 2R / 2Rh + Thermobox	yes	yes	–	–
Mini 2L / 2Lh / 2R / 2Rh + Aquabox	yes	yes	–	–
Mini R 1V / R 1Vh	yes	yes	–	–
Mini Z1 (7kW)	yes	yes	–	–
Mini Z1 (7kW) + Helix	yes	yes	–	–
Mini Z1 (7kW) + Thermobox	yes	yes	–	–
Mini Z1 (10kW) + NSHF	yes	yes	–	–
Mini Z1 H$_2$O	yes	yes	–	–
Mini Z1 H$_2$O XL	yes	yes	–	–
Mini Sh	–	–	–	yes
Mini S-FDh	yes	yes	–	–
Mini M1 G2	–	–	–	–
Mini M1 G3	–	–	–	–
Mini M1 G4	–	–	–	–
Mini M1 GL / GR	–	–	–	–
Mini M2 G2	–	–	–	–
Mini M2 G3	–	–	–	–
Mini M2 G4	–	–	–	–
Mini M2 GL / GR	–	–	–	–
Speedy M / Mh / MR / MRh	yes	yes	–	–
Speedy M / Mh / MR / MRh + Helix	–	–	–	–
Speedy M / Mh / MR / MRh + Thermobox	yes	yes	–	–
Speedy M / Mh / MR / MRh + Aquabox	yes	yes	–	–
Speedy M / Mh / MR / MRh + NSHF	yes	yes	–	–
Speedy K / Kh / R / Rh / 1V / 1Vh	yes	yes	–	–

	S-Thermatik		
	Pro	Mini	Global
Speedy K / Kh / R / Rh / 1V / 1Vh + Helix	yes	yes	–	–
Speedy K / Kh / R / Rh / 1V / 1Vh + Thermobox	yes	yes	–	–
Speedy K / Kh / R / Rh / 1V / 1Vh + Aquabox	yes	yes	–	–
Speedy K / Kh / R / Rh / 1V / 1Vh + NSHF	yes	yes	–	–
Speedy Ph	yes	yes	–	–
Speedy E / Eh	yes	yes	–	–
Speedy MDRh	yes	yes	–	–
Speedy MDRh + Helix	–	–	–	–
Speedy MDRh + Thermobox	–	–	–	–
Speedy MDRh + Aquabox	–	–	–	–
Speedy RDRh	–	–	–	–
Varia 1V / 1Vh	yes	yes	–	–
Varia 1V / 1Vh + Helix	yes	yes	–	–
Varia 1V / 1Vh + Thermobox	yes	yes	–	–
Varia 1V / 1Vh + Aquabox	yes	yes	–	–
Varia FD / FDh	yes	yes	–	–
Varia FD / FDh + Helix	–	–	–	–
Varia FD / FDh + Thermobox	–	–	–	–
Varia FD / FDh + Aquabox	–	–	–	–
Varia 2L / 2Lh / 2 LRh / 2R / 2Rh / 2RRh	yes	yes	–	–
Varia 2L / 2Lh / 2 LRh / 2R / 2Rh / 2RRh + Thermobox	yes	yes	–	–
Varia 2L / 2Lh / 2 LRh / 2R / 2Rh / 2RRh + Helix	yes	yes	–	–
Varia 2L / 2Lh / 2 LRh / 2R / 2Rh / 2RRh + Aquabox	yes	yes	–	–
Varia 2L-55h / 2R-55h	yes	yes	–	–
Varia 2L-100h / 2R-100h	yes	yes	–	–
Varia 2L-100h / 2R-100h + Helix	–	–	–	–
Varia 2L-100h / 2R-100h + Thermobox	–	–	–	–
Varia Ah	yes	yes	–	–
Varia AFDh	yes	yes	–	–
Varia AFDh + Helix	yes	yes	–	–
Varia Ch / 3RL / 3RLh	yes	yes	–	–
Varia C 45h	yes	yes	–	–
Varia M60h GET	yes	yes	–	–
Varia 2Lh / 2Rh 55 GET	yes	yes	–	–
Varia M 80h	–	–	–	–
Varia M 100h	–	–	–	–

	S–Thermatik		
	Pro	Mini	Global
Varia S / Sh / SRh / Eh	–	–	–	yes
Varia B / Bh / Beh	–	–	–	yes
Varia B-120	–	–	–	yes
Varia B-FDh	–	–	–	yes
Varia Ah H_2O	yes	yes	–	–
Varia AFD / AFDh H_2O	yes	yes	–	–
Varia 1V H_2O	yes	yes	–	–
Varia 1V H_2O XL	yes	yes	–	–
Varia 1V H_2O XXL	yes	yes	–	–
Varia 2Lh / 2Rh H_2O	yes	yes	–	–
New basic stove door GOT –T3 1V, round, prism	–	–	–	yes

Classic tiled stoves			
Nova E H_2O / Nova E H_2O + NSFH	yes	yes	–	–
Nova F Air	yes	yes	–	–
Renova A H_2O	yes	yes	–	–
Renova B Air	yes	yes	–	–

stoves ambiente			
a1 / a1 RLU	–	–	yes	–
a2 / a2 RLU	–	–	yes	–
a3 / a3 RLU	–	–	yes	–
a4 / a4 RLU	–	–	yes	–
a4 H_2O	–	–	yes	–
a5	–	–	–	–
a7	–	–	–	–
a8	–	–	–	–

	S–Thermatik		
	Pro	Mini	Global
stoves selection			
Piko H_2O	–	–	yes	–
Senso M H_2O	–	–	yes	–
Senso S, L	–	–	yes	–
Stovo S, M, L	–	–	yes	–
Sino L	–	–	yes	–
Passo S, L	–	–	yes	–
Passo XS, M	–	–	–	–
Piko S, M, L	–	–	–	–
Trias L	–	–	–	–
Piu L	–	–	–	–
Cubo S, M, L	–	–	–	–