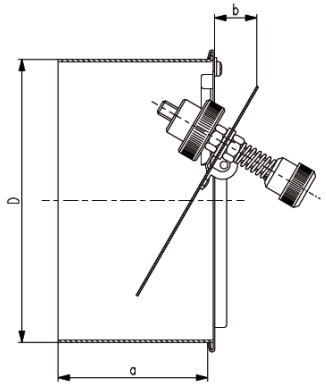
Check:
For the setup to be checked the boiler must be brought to a temperature of 70°C and the chimney to operating temperature i.e. it must contain the full stored heat. From experience, the full stored heat of the chimney (fireplace, flue) is achieved after the following minimum operating period:

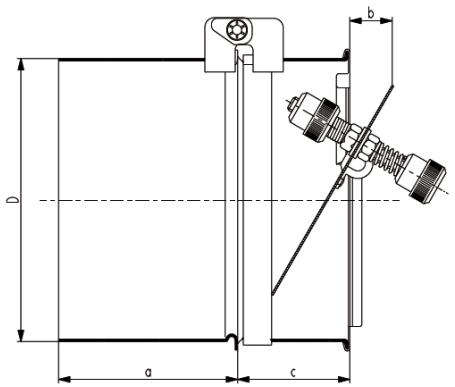
Metal fireplace:	30 minutes
Insulated multi-skinned fireplace:	5 hours
Brick or stone-built fireplace:	6 hours

Sizing

Fireplace	Energy-saving damper Energy-saving damper with explosion damper
< Ø 130 mm	Ø 130 mm
Ø 130 – 160 mm	Ø 150 mm
Ø 160 – 250 mm	Ø 200 mm
> Ø 250 mm	2 x Ø 200 mm (fit offset)

Technical data:
Inspected to standard DIN 4795
Conforms to the provisions of standards DIN 4705 and DIN 18160





Design		Without explosion damper			With explosion damper		
Diameter	D	130	150	200	130	150	200
Group classification	DIN 4796	2	4	4	2	4	4
Insertion length a	mm	79	79	79	79	79	79
Shuttle valve setting b	mm		22	33		22	33
Valve length c	mm	-	-	-	-	-	-
Adjustment range	Pa	10-30	10-33	4-35	10-30	10-33	4-35
Opening pressure min.	Pa	6	6	4	6	6	4
Exhaust gas temp. max.	°C	400	400	400	400	400	400

Accessories:
Pipe T pieces
Weld-on adapters
Wall connectors
Additional accessories on enquiry

HAAS+SOHN
INNOVATIVE STOVES AND COOKERS SINCE 1854

Energy-saving damper
Energy-saving damper with explosion damper
Installation instructions

Energy-saving damper

Energy-saving damper
with explosion damper

Our product range:
Fireplace stoves • Pellet stoves • Fireplace construction kits • Ranges • Slow-burning stoves • Oil stoves • Accessories • Pressure accumulators and accessories for central oil supply

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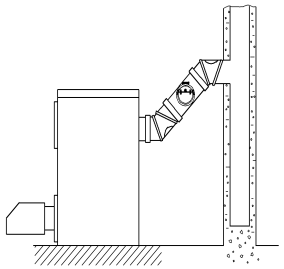
Operation:
The HAAS+SOHN energy-saving damper constantly evens out the changes in the draught in the chimney that may be caused by external weather conditions (cold, wind). If the draught in the chimney becomes too strong, the shuttle valve opens and air flows into the chimney from the heating chamber. The low pressure (fireplace draught) at the boiler therefore remains constant, permitting optimum combustion. Even when the system is not operating the shuttle valve opens, ventilates the chimney and thereby keeps the heat in the boiler. Constant chimney ventilation also prevents the chimney from sooting up.
With the HAAS+SOHN energy-saving damper with an explosion damper, the explosion damper opens in the event of minor explosions that might occasionally occur in the boiler. In this way the short-term excess pressure is easily released and damage to the heating unit is effectively prevented.

Installation instructions:
HAAS+SOHN energy-saving dampers are very easy to install. Installation and setting should nevertheless be done by an expert. Thereafter the HAAS+SOHN energy-saving damper is maintenance-free. Even retrofitting into an existing heating unit is possible without problems.

HAAS+SOHN energy-saving dampers may only be installed in exhaust gas pipework, ideally in the exhaust gas pipe between the fire and the chimney (fireplace, flue).
The further the HAAS+SOHN energy-saving damper is from the fire's exhaust gas adapter, the more the most frequently occurring damping and vibration problems must be taken into account during adjustment.
The installation of the HAAS+SOHN energy-saving damper should be in the room in which the fire is installed and must not be done in especially hazardous rooms (living rooms and bedrooms, food storage rooms and rooms with a higher fire risk).

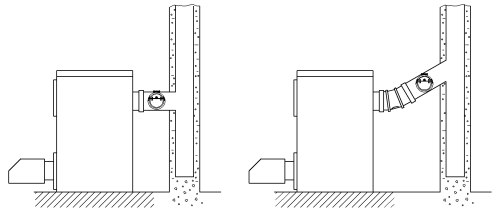
Important during installation:
The front of the energy-saving damper must always be placed in a vertical position, the axis of the shuttle valve in a horizontal one.
The supply pressure (draught required) for the relevant fire should be set by an expert.

Installation:
A) Installation with T piece in the flue tube:
With this, installation can be quickly and correctly carried out, especially with new units.
Determine the installation site, take into account the installed length of the T piece in terms of space requirements and insert the appropriate T piece in such a way that the branch pipe is vertical to the front. Attach with clamps or by welding. With existing units, the length of the T piece is cut out of the existing exhaust gas pipe and the T piece is inserted as described above. Push in the damper and set the axis of the shuttle valve to the horizontal. The damper is to be secured against slipping in the T piece.



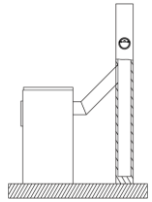
Installation in the T piece

B) Installation with weld-on adapter in the gas pipe:
The weld-on adapter permits space-saving installation of the damper. Determine the installation site, line up the weld-on adapter vertically and mark the cutout on the exhaust gas pipe. Make the cutout and weld the weld-on adapter firmly in place. Push in the damper and set the axis of the shuttle valve to the horizontal. The damper is to be secured against slipping in the weld-on adapter.



Installation with weld-on adapter

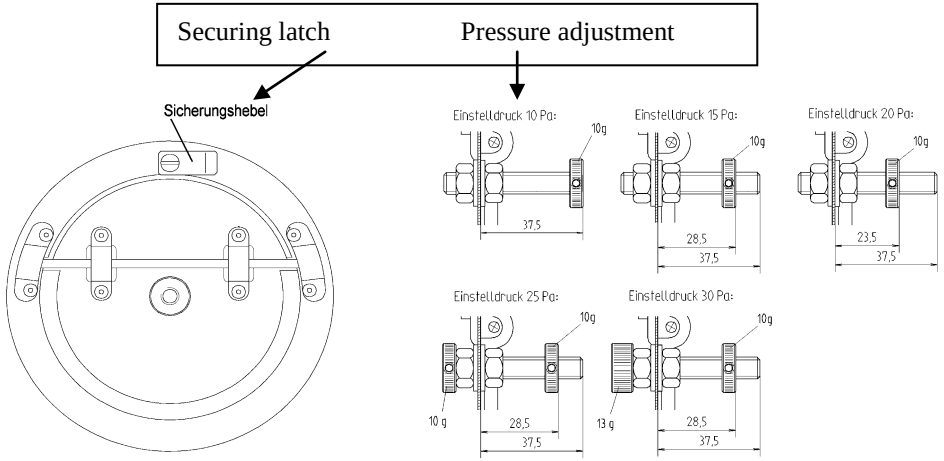
C) Installation with wall connector in the chimney (not possible with D 130 mm):
Before installation in the chimney you should consult the relevant flue sweep or chimney sweep and possibly the chimney manufacturer regarding the correct way to open up the fireplace masonry.
A wall connector is built in flush with the plaster for installation. Insert the energy-saving damper, set the axis of the shuttle valve to the horizontal and secure against slipping.



Installation with wall connector

ATTENTION: When commissioning: In operating mode attach the securing latch as per the diagram below! The shuttle valve must be free to move!

Adjustment:
Adjustment is made by rotating and fixing the tare weights. This allows the supply pressure (draught) required by the fire to be precisely set by means of the appropriate positioning of the tare weights. If there is no flow meter available, the valve should be set at 30° to the vertical. (On this see also the specified dimensions in the technical data or the sketches below for the D 130 mm design).
Fix the tare weights with the integral grub screw after setup.



Positioning the tare weights for D 130 mm