NEW REQUIREMENTS
NEW SOLUTIONS

stûv μM

A STATE OF MIND

μM

Pronounce "micro-Mega"
micro: the volume inside the stove
Mega: the view of the flames

NEW **REQUIREMENTS**

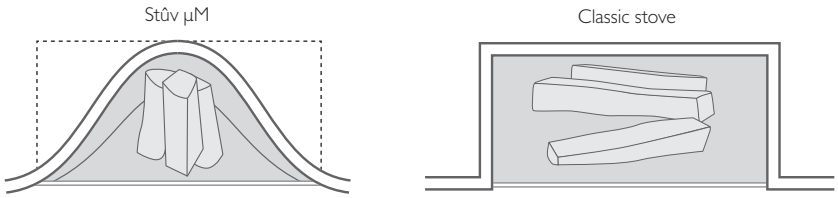
- New buildings, which have increasingly advanced thermal insulation, do not require much heating and therefore require less powerful and smaller stoves.
- Some people want – quite rightly – to enjoy the pleasure of a roaring fire and will not be satisfied with seeing the flames through a window. They expect a stove with a presence.
- Standards require that stoves should operate in an environmentally friendly way. The idea is to derive the maximum heat from the fuel burned (even if it is from a renewable energy source) and minimize emissions into the atmosphere.

NEW **SOLUTIONS**

> A "micro" combustion chamber

To obtain a stove capable of delivering a lower power output, Stûv reduced the volume of the combustion chamber of the µM. The more limited the space inside, the higher the temperature, and the better the combustion. Good combustion is more efficient, which means more energy to heat the house, less to warm the Earth's atmosphere and lower emissions.

The chamber wraps around the logs arranged as in a camp fire. Log length: up to 50 cm; we recommend 30 cm.



> A "mega" stove

Moreover, at Stûv, we have always emphasised the sheer enjoyment of a real fire. When we designed the µM, we wanted the stove to retain a certain size, and despite having a smaller combustion chamber, to retain an ample view of the flames.

> These were the constraints that dictated the special design of the Stûv µM.

> The Stûv µM works with the same very high performance, whether at 5 kW or 10 kW, which means it can be installed both in a low energy house and in a traditional house.

Don't choose too large a wood-burning stove!

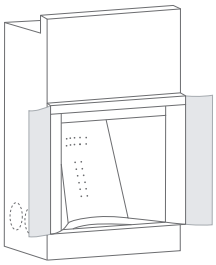
Choosing a 12 kW stove when 6 kW would suffice is a big mistake! Indeed, it is not possible to turn down the power of a wood stove like you do with a radio. With most stoves, outside a relatively narrow operating range, close to maximum power, performance decreases and emissions increase, and the glass gets dirty …

INTEGRATED INTO YOUR WALLS

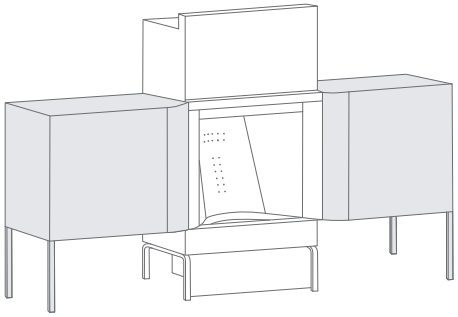
The Stûv µM is characterised by a continuity of shape between the inside of the stove, the door frame and the external elements of the stove.

The fireplace may be made bigger by installing storage either side of the stove for wood and accessories. These items – designed and supplied as optional extras by Stûv – visually extend the curved shape of the stove.
The interior of each cabinet can be laid out as you require.

CONFIGURE YOUR STÛV µM



The basic stove has a width of 78 cm. With its fins as above or on the photo on page 2, it is 105 cm wide.



The fireplace can be fitted with one or two cupboards measuring 50 or 80 cm for storing logs and accessories.

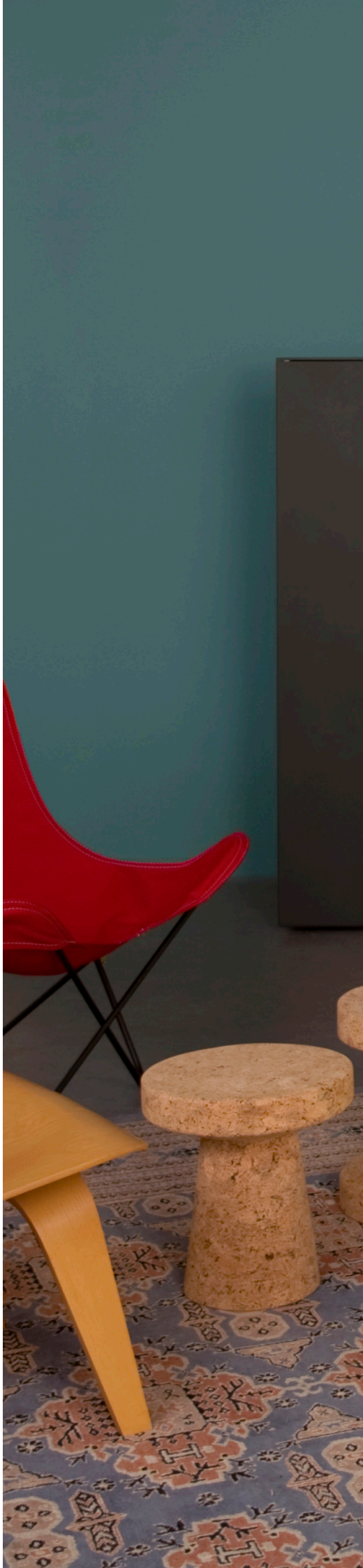
READY-TO-FIT FIREPLACES

In the case of an occupied house, major works are not always possible …

Ready-to-fit fireplaces designed by Stûv provide a simple answer to those who do not want a highly-visible stove, but want to integrate the stove visually into the interior of their home, preferring to focus on the fire and the emotions it generates rather than the object.

They can be installed in just a few hours without major works and integrate attractive features, such as the wood supply holder and convection air inlets and outlets.

Fireplace for low installation, with two log stores.
Other models are available.



Combustion air distribution

The burning of logs resting on the bottom of the stove required a new design study of the combustion system: air is distributed to different points in the chamber in order to obtain the most complete combustion possible and effective sweeping of the glass. A single control optimises the air injection, depending on the operating rate desired.

The glass

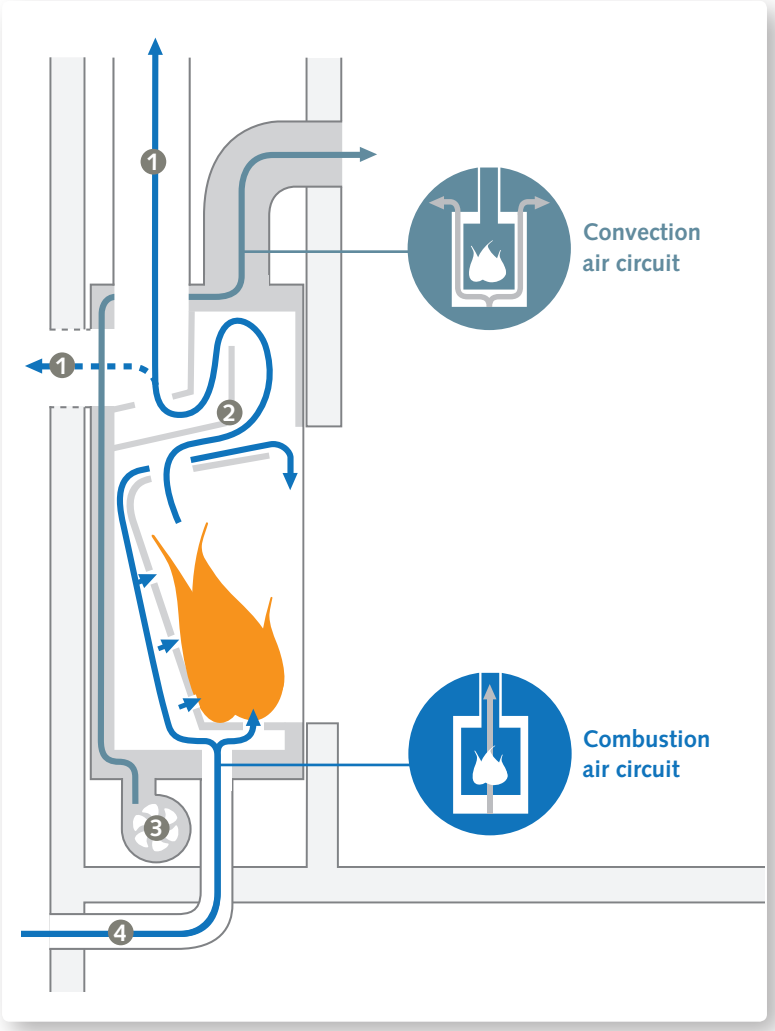
It slides upwards to enable re-filling the stove, or to operate in open fire mode or to use the barbecue (see p. 15).
The appearance of the stove does not change, whatever the position of the glass.

Cast iron combustion chamber

The interior of the combustion chamber is made entirely of cast iron.This material, besides allowing great freedom of shape, is well suited to rooms of small volume. It will stand up well to contact with the logs it is supporting.

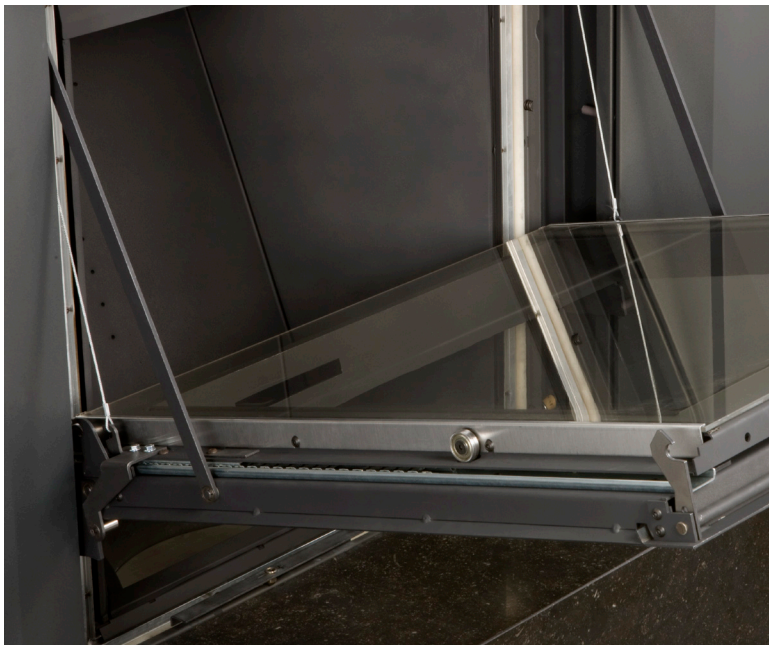
The hearth

The design of the hearth owes nothing to chance: the arrangement of the air inlets ensures almost complete combustion of the ash and its substantial depth allows the stove to work for a long time without removing the ash.



Connections

1. It is possible to connect the smoke flue upwards or backwards (Ø 180 mm).
2. The deflector systems are easy to retract for sweeping.
3. The fireplace can be fitted (as an option) with a fan to allow more extensive air circulation. The fan is easily accessible for maintenance from inside the stove. No access hatch needs to be provided.
4. Direct connection to the outside air (even when operating in open fire mode).



The door

The system of seals ensures maximum airtightness.
It is an essential element that helps control the quality of combustion. It retracts to facilitate raising of the glass and prevent wear, ensuring a perfect, durable seal (Stûv patent).
The door tilts forward for easy cleaning of the inside of the glass. The sliders and the mechanism for raising the glass are housed in the frame and are immediately accessible (another Stûv patent).

The µM : a range all on its own !

> Technically :
The power of this stove can be adjusted between 5 and 12 kW, always maintaining efficiency greater than 80%.

> Visually :
The stove can take on various configurations by adding accessories onto the side, or not (see pages 6 - 9).

Installing a Stûv µM in a traditional house ?

Why not benefit from the advantages of this new stove in a less well-insulated house ?
This is possible if the 11 kW power of the Stûv µM is sufficient. This will almost always be the case if the house has central heating. The stove will supplement the central heating when the cold is more extreme.
It should be borne in mind that it is not always easy to have a direct connection to the outside air in existing houses. It is not mandatory, as it is for "low energy" houses. It must be ensured that the air exchange is sufficient, and that a fresh air inlet is provided somewhere near the stove.

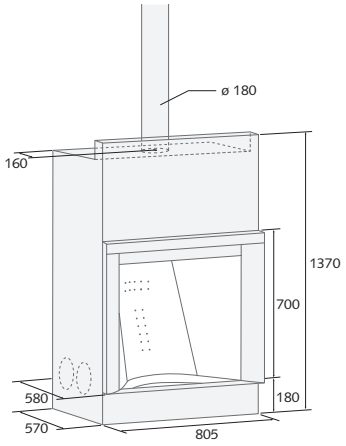
Performance

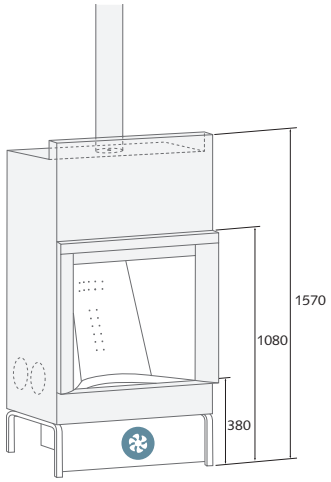
The Stûv µM was designed to comply with the strictest European standards and quality labels : DIN+ (Germany), 15 A (Austria), …

> Efficiency
- Above 80%
- The most outstanding feature of this stove is that performance is maintained when stove operation is reduced to 50% of its rated power. Likewise for its performance in terms of CO and particle emissions (Austrian 15 A standard).

> CO emissions
- Less than 0.10% at full power
- Less than 0.12% at half-power

> Particle emissions
Less than 40 mg / Nm^3





Technical specifications

Power rating	10 kW
Operating range	5 - 12 kW
Efficiency at 5,5 kW	> 80%
Efficiency at 11 kW	> 80%
CO emission at 5,5 kW	< 0,12%
CO emission at 11 kW	< 0,10%
Particle emissions	< 40 mg / Nm^3
Wood consumption	1.5 - 3.5 kg/h

The barbecue

The Stûv µM barbecue offers a completely different way of cooking: the food is exposed in front of the flames instead of being laid out flat above the embers. The food is cooked by radiant heat, and the fat which runs off does not stimulate the flames as is the case with a horizontal grill.

Simple use

It takes only seconds to install the grill on the stove (even during operation!). The stainless steel drip tray collects fats and juices, which allows you to turn food without dirtying the hearth or the flooring. Odours do not spread around the house; they are drawn up the chimney.

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