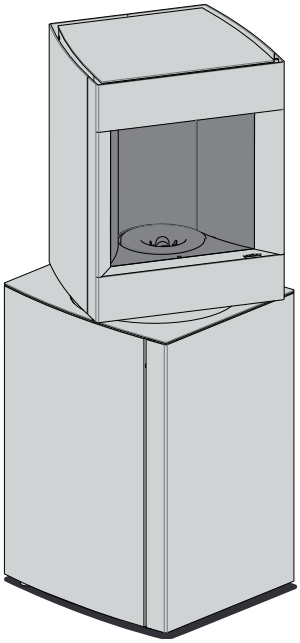
sP10 | The stove

FEATURES

beauty and quality of the flame	large, full flame
	on a pedestal
	large glazed surface
	wide angle of vision
	can rotate 90°
pleasant heating	over 90% efficiency
	low emissions
	natural convection to distribute heat more broadly
	increased heat radiation via large glazed surface
silent	natural convection - no noise from the blower
	wood pellets are lifted, no annoying clattering
	constantly running gear motor
	35 to 40 dBA (equivalent to the sound environment of a library)
easy to load	loaded at hip height
	16 kg capacity
	can run autonomously for up to 30 hours
	sensor to indicate amount of pellets
high quality	ceramic igniter
	two-point locking system
	thick casing
	extremely well sealed
patent	design of upper and lower half
	loading system
	burner



reddot award 2016
winner

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TECHNICAL OVERVIEW

GENERAL

TYPE OF STOVE	stove
FUEL	wood pellets
MATERIALS OF BODY OF FIRE CHAMBER	steel + vermiculite
MATERIALS COVERING BASE	steel, wood or customer's choice
COLOUR	Stûv Grey
LOADING	manual

WEIGHT / DIMENSIONS

WEIGHT	175 kg
DIAMETER OF SMOKE FLUE	80 mm
DIAMETER OF OUTSIDE AIR INLET	60 mm

AIR

EXTERNAL INLET	✓
AIR-TIGHTNESS	+++

PERFORMANCE

ENERGY EFFICIENCY CLASS	A++
ENERGY PERFORMANCE INDEX	0,027
ENERGY EFFICIENCY INDEX	130
OUTPUT	8,1 kW
OUTPUT RANGE	3,7 - 8,1 kW
NOMINAL EFFICIENCY	92,0 %
SEASONAL EFFICIENCY	89,0 %
FINE PARTICLE EMISSIONS	11,9 mg/Nm³
CO EMISSIONS	0,002 % 20 mg/Nm³
NOX EMISSIONS	79 mg/Nm³
COV/COG EMISSIONS	< 1 mg/Nm³
RANGE OF CONSUMPTION	0,85 - 1,83 kg/h
NOMINAL DRAW	12 Pa
SMOKE MASS FLOW	4,9 g/s
AVERAGE TEMP. OF SMOKE	153,8°C
HOPPER CAPACITY	16 kg
INDEPENDENT OPERATING DURATION (MIN/MAX)	9 - 36 h
ELECTRICAL CONNECTION	230 - 50 V/Hz
ELECTRICAL CONSUMPTION	40 W
DECIBELS	from 35 to 40 dBA*

MINIMUM THICKNESS OF INSULATION BETWEEN STOVE AND COMBUSTIBLE MATERIALS

BACK FACE	7 cm
SIDE FACE	10 cm
TOP FACE	50 cm
BOTTOM FACE	0 cm

ACCESSORIES / EQUIPMENT

REMOTE CONTROL	❍
MANUAL ASH REMOVAL RACK	✓
ASH PAN	✓
WIFI HANDSET	❍

LEGEND

✓	STANDARD
✗	UNAVAILABLE
❍	OPTIONAL

Conforms with:

CE

ECODESIGN 2022 / BE Phase 3 / DEFRA

* Equivalent to the sound environment of a library

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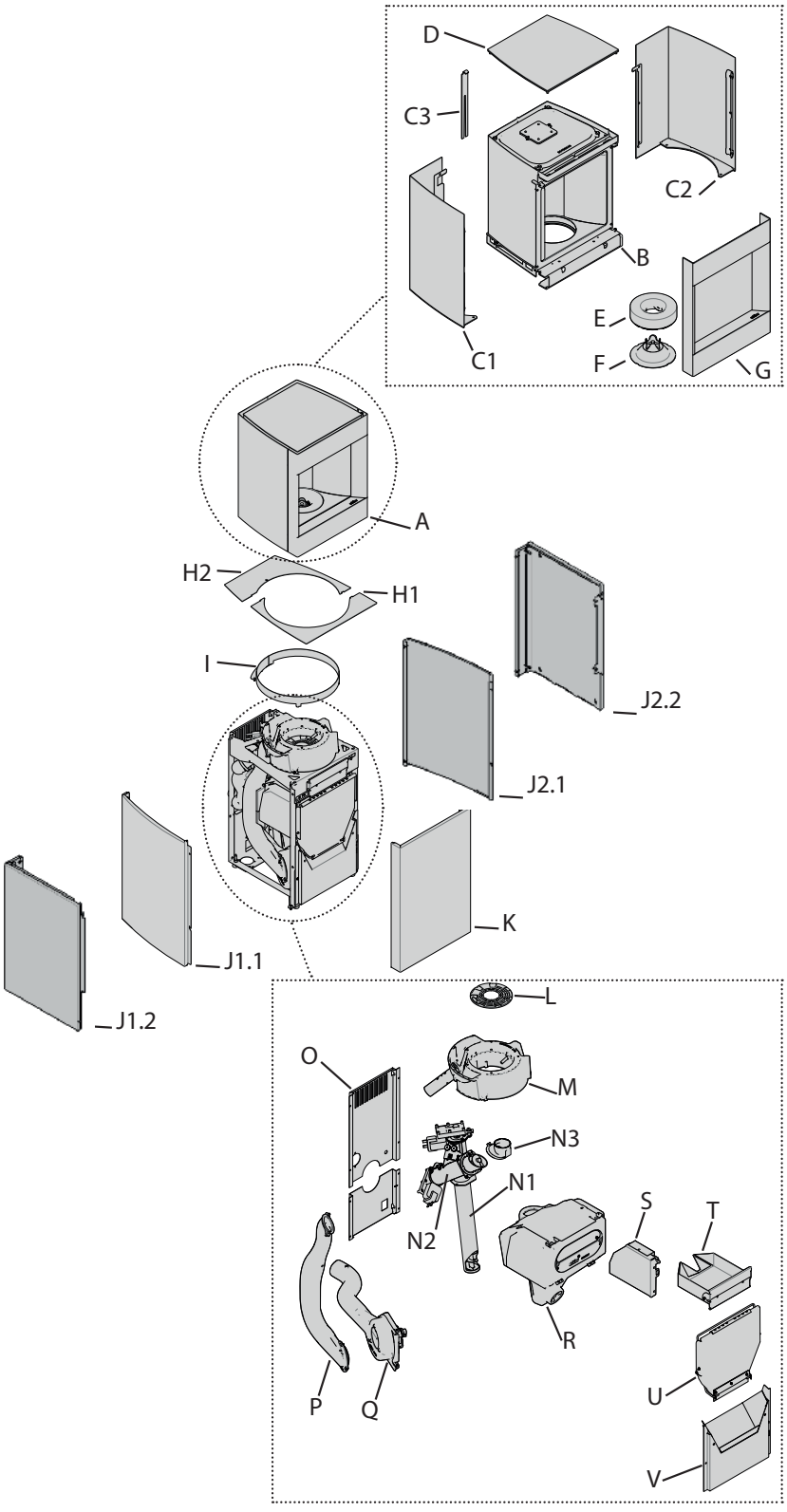
THE BASIC STOVE AND ITS COMPONENTS



A. Lantern
B. Lantern frame
C1. Right-hand lantern facing
C2. Left-hand lantern facing
C3. Trim alignment key
D. Top shelf
E. Vermiculite Ring
F. Flame modeller
G. Lantern door
H1. Rear shelf
H2. Front shelf
I. Collar
J1.1 Right facing (metal panel version)
J1.2 Right facing (wood and to be trimmed version)
J2.1 Left facing (metal panel version)
J2.2 Right facing (wood and to be trimmed version)
K. Bottom door
L. Grilles
M. Burner casting
N1. Archimedes screw 1
N2. Archimedes screw 2
N3. Burner feed elbow
O. Rear metal panel
P. Smoke flue
Q. Fan body
R. Pellet hopper
S. Electronic card
T. Ashpan
U. Reloading hatch
V. Front hood with dust channel

*Facings are available in two versions. The illustration shows one side of each finish.

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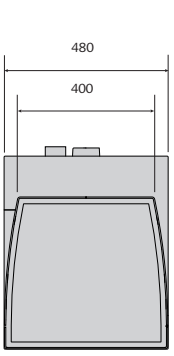
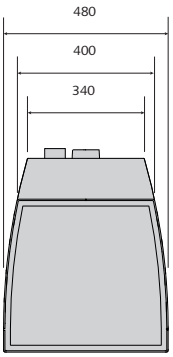
DIMENSIONS OF THE STOVE

TOP VIEW

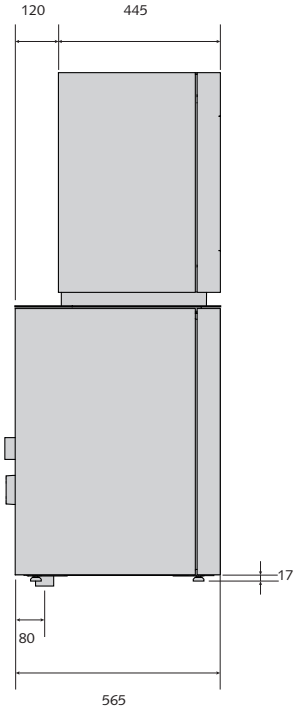


Wood and "to be trimmed" version

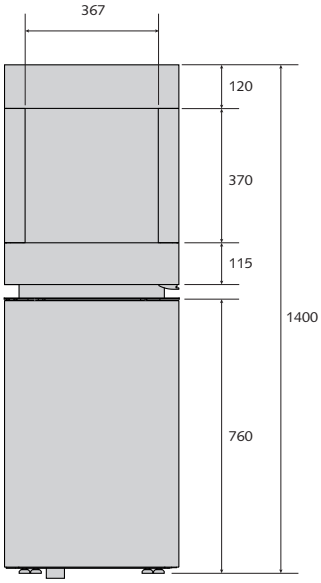


Sheet metal version

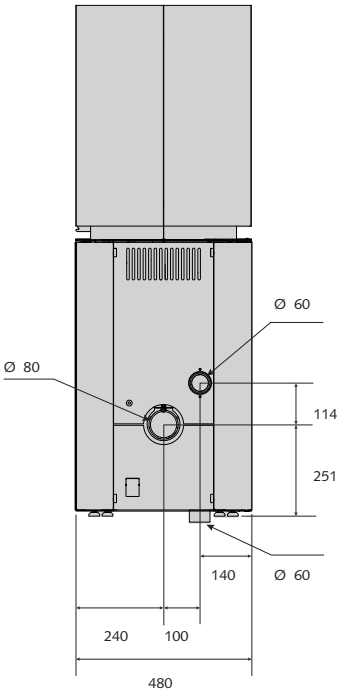
SIDE VIEW



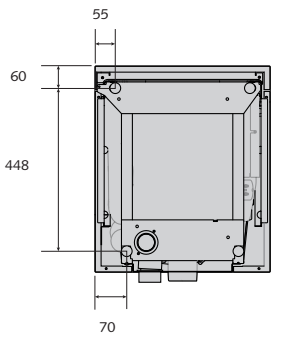
FRONT VIEW



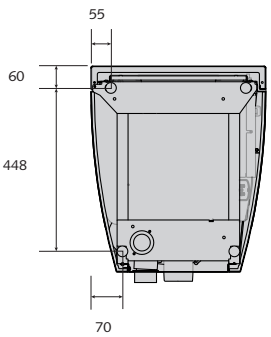
REAR VIEW



BOTTOM VIEW



Wood and "to be trimmed" version



Sheet metal version

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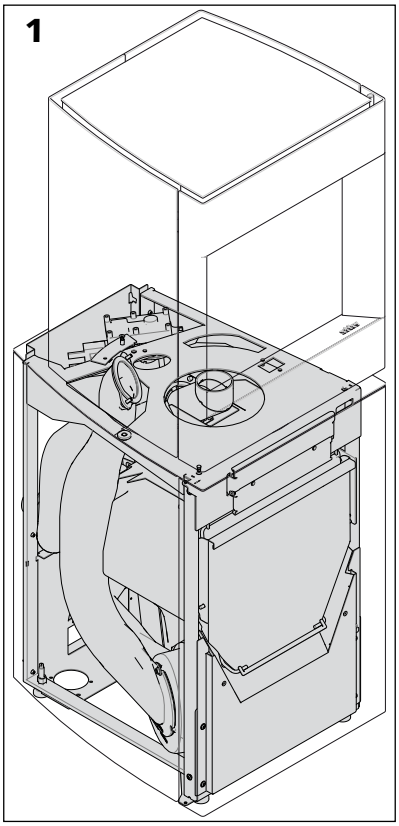
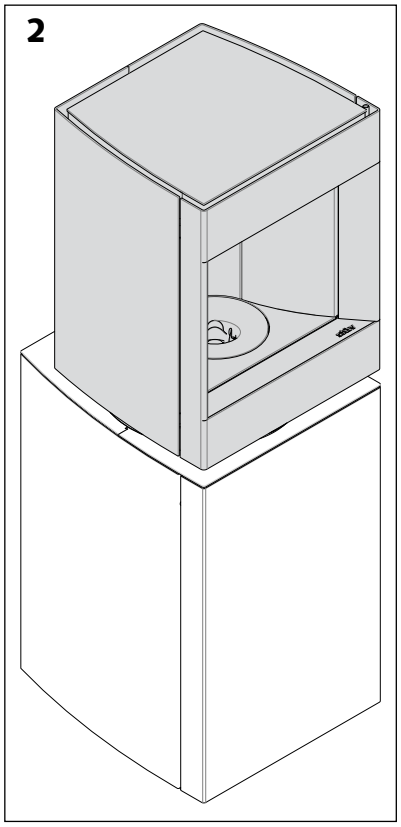
MODE OF OPERATION





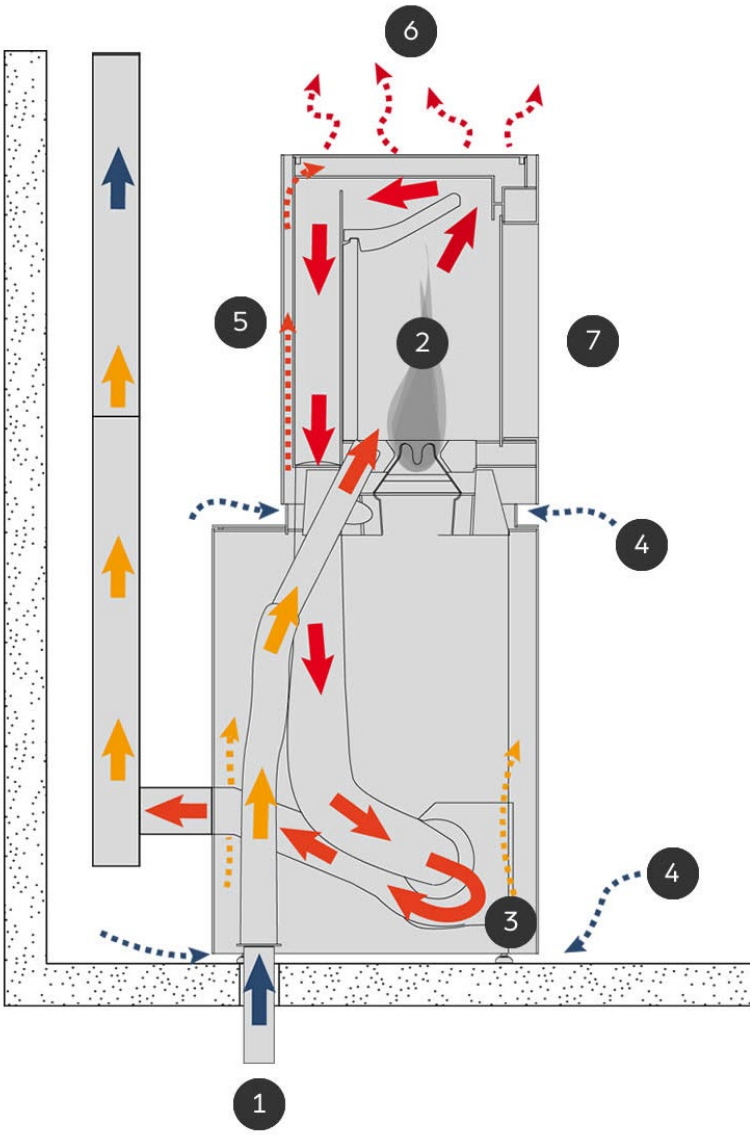
The Stûv P-10 is a wood pellet stove consisting of two major parts:

- A base containing the pellet hopper, the fuel and combustion feed, smoke extraction and all the electronics and sensors enabling the operation of the appliance to be adjusted and set [diagram 1].

- A pivoting lantern where the burning of the pellets takes place. This top part also radiates and diffuses convection heat; it is fitted with a window which gives a view of a beautiful large flame [diagram 2].

sP10 | The stove

COMBUSTION AND CONVECTION



1. The air needed for combustion is taken from outside the building (under the stove or at the back of the device) or from inside the building."

2. The air intake, the combustion chamber and form an airtight system which does not hinder the insulation and ventilation of the building.

3. The smoke passes through a heat exchanger, is sucked through a fan and then vented through the flue.

4. The air of the living room is drawn to be reheated.

5. Air circulates in the convection chamber and harnesses the heat from the fumes.

6. The reheated air comes out of the device naturally, then noiselessly spreads around the room.

7. The heat radiates through the glas

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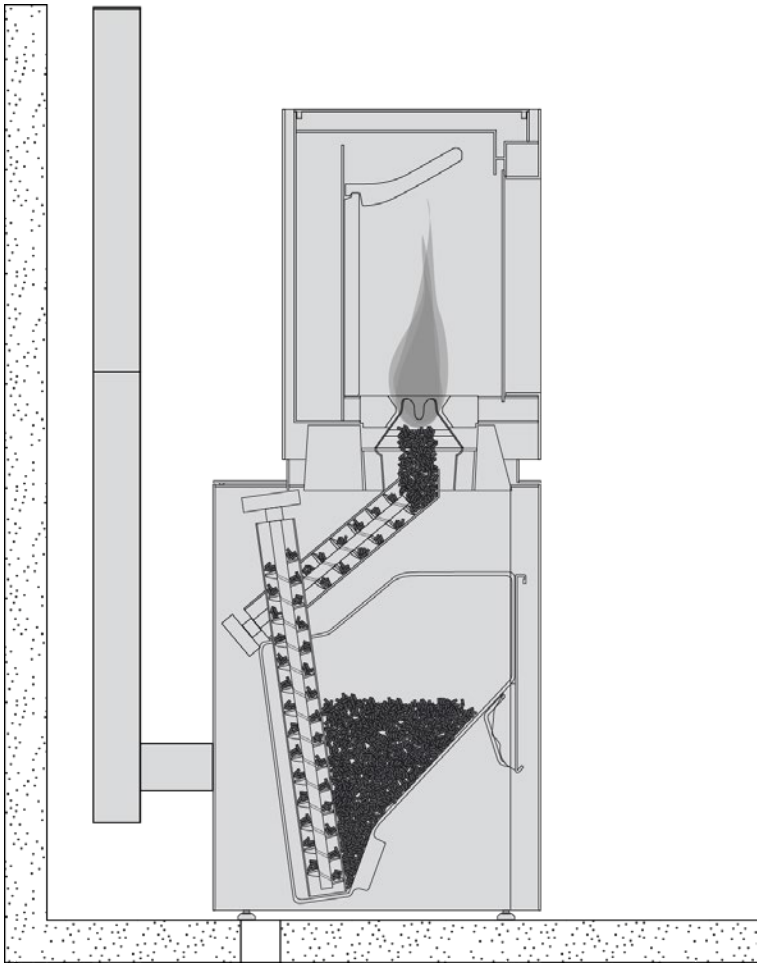
SUPPLYING THE PELLETS



The pellets are stored in the hopper which is located beneath the combustion chamber.

They are transported via an Archimedean screw, which places them in the burn pot, avoiding undesirable clattering sounds.

sP10 | Accessories

REMOTE CONTROL

WIFI HANDSET

PELLET TWIN SET