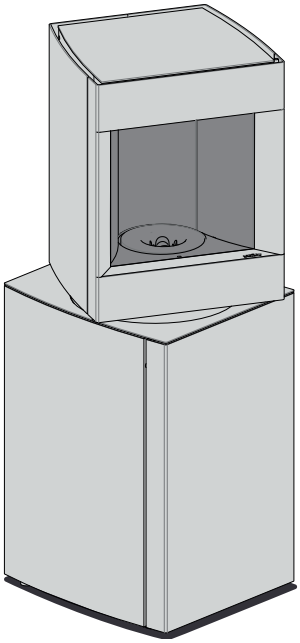
P-10 | The stove

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
	fuel loaded from below
	constantly running gear motor
easy to load	loaded at hip height
	18 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



conforms with:
- CE
- BImSchV1 & 2 (DE)
- Art. 15A B-VG (AT)
- EcoDesign
- Paris PPA
- Flamme Verte 7*

reddot award 2016 winner

P-10 | The stove

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	+++

NOMINAL PERFORMANCE

NOMINAL POWER	8 kW
RANGE OF USAGE	2,4 - 8 kW
HOPPER CAPACITY	18 kg
RANGE OF CONSUMPTION	0,6 - 1,8 kg/h
INDEPENDENT OPERATING DURATION (MIN/MAX)	9 - 36 h
EFFICIENCY	90,5 %
CO EMISSIONS	0,001 %
FINE PARTICLE EMISSIONS	5 mg/Nm^3
MINIMUM DRAW	12 Pa
SMOKE MASS FLOW	5 g/s
AVERAGE TEMP. OF SMOKE	173°C
ELECTRICAL CONNECTION	230 - 50 V/Hz
ELECTRICAL CONSUMPTION	40 W
ENERGY EFFICIENCY INDEX (EEI)	130
ENERGY EFFICIENCY CLASS	A++

MINIMUM SAFETY DISTANCE FOR COMBUSTIBLE MATERIALS

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

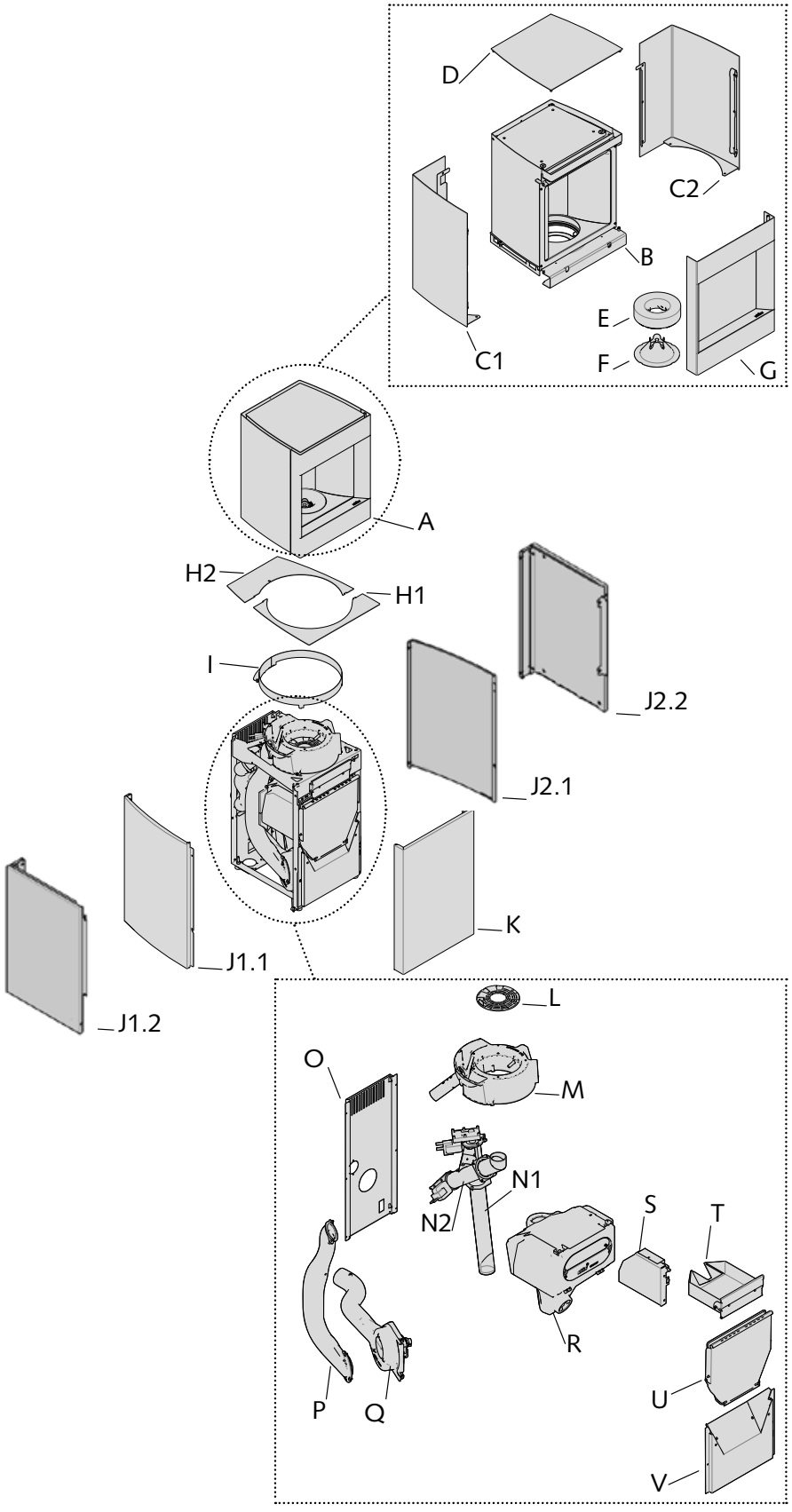
ACCESSORIES / EQUIPMENT

REMOTE CONTROL	✓
MANUAL ASH REMOVAL RACK	✓
ASH PAN	✓

LEGEND

✓	STANDARD
✗	UNAVAILABLE
❍	OPTIONAL

THE BASIC STOVE AND ITS COMPONENTS



A. Lantern

B. Lantern frame

C.
C1. Right-hand lantern facing
C2. Left-hand lantern facing

D. Top shelf

E. Vermiculite Ring

F. Flame modeller

G. Lantern door

H.
H1. Rear shelf
H2. Front shelf

I. Collar

J.
J.1.1 Right facing (metal panel version)
J.1.2 Right facing (wood and to be trimmed version)
J.2.1 Left facing (metal panel version)
J.2.2 Right facing (wood and to be trimmed version)

K. Bottom door

L. Grilles

M. Burner casting

N.
N1. Archimedes screw 1
N2. Archimedes screw 2

O. Rear metal panel

P. Smoke flue

Q. Fan body

R. Pellet hopper

S. Electronic card

T. Ashpan

U. Reloading hatch

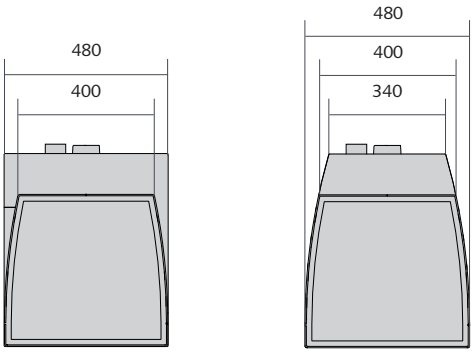
V. Front cover

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

P-10 | The stove

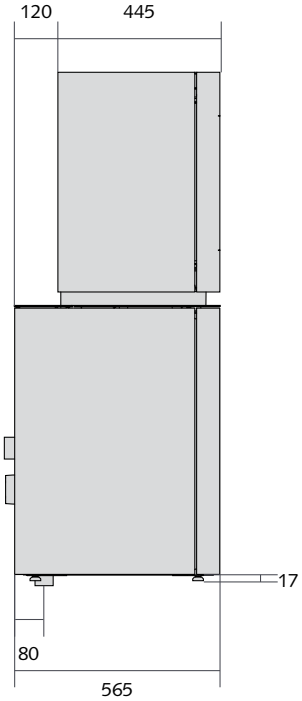
DIMENSIONS OF THE STOVE

TOP VIEW

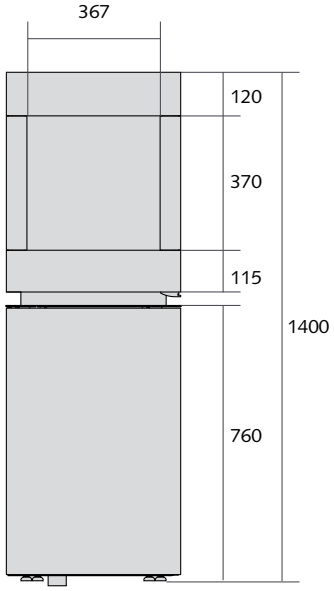


Wood and "to be trimmed" version Sheet metal version

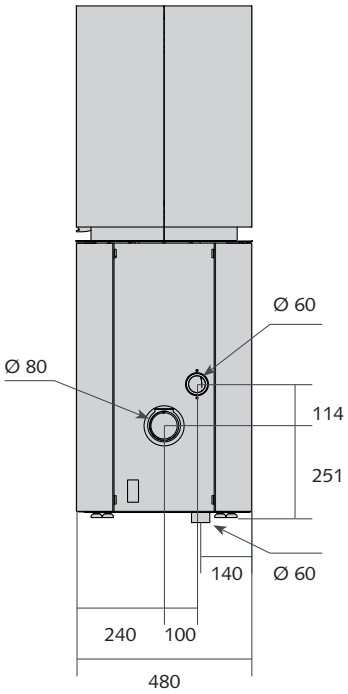
SIDE VIEW



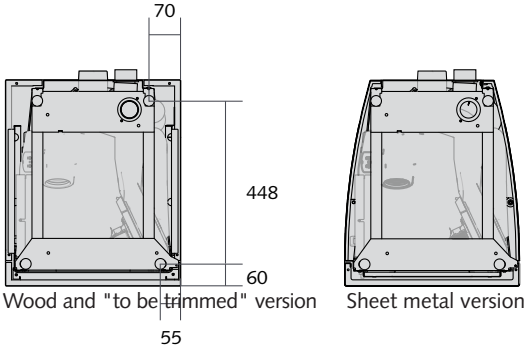
FRONT VIEW



REAR VIEW



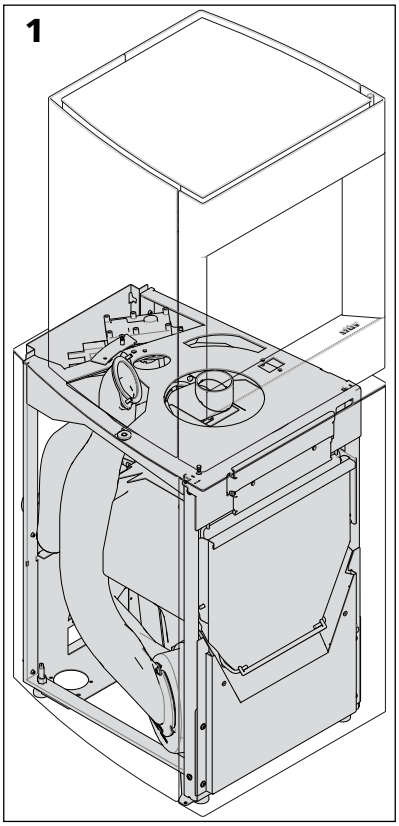
BOTTOM VIEW

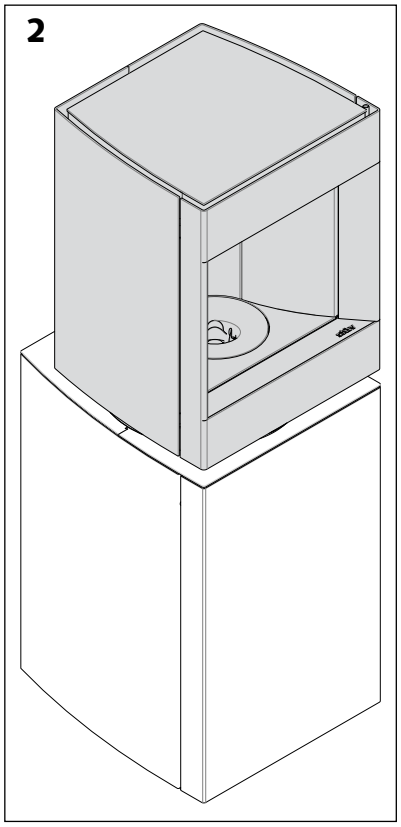


Wood and "to be trimmed" version Sheet metal version

P-10 | The stove

MODE OF OPERATION





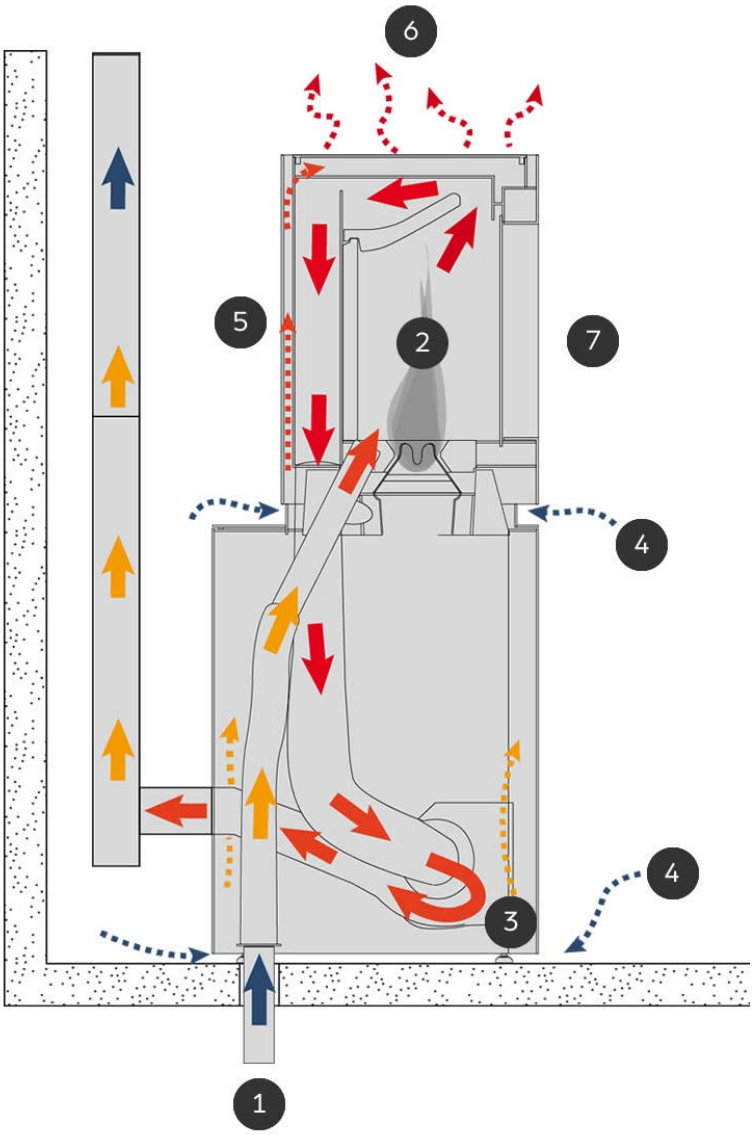
The Stûv P-10 is a wood pellet stove consisting of two major parts:

- 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].

P-10 | The stove

COMBUSTION AND CONVECTION



1. The air needed for combustion is drawn from the outside of the building envelope (under the stove or at the back of the appliance).

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.

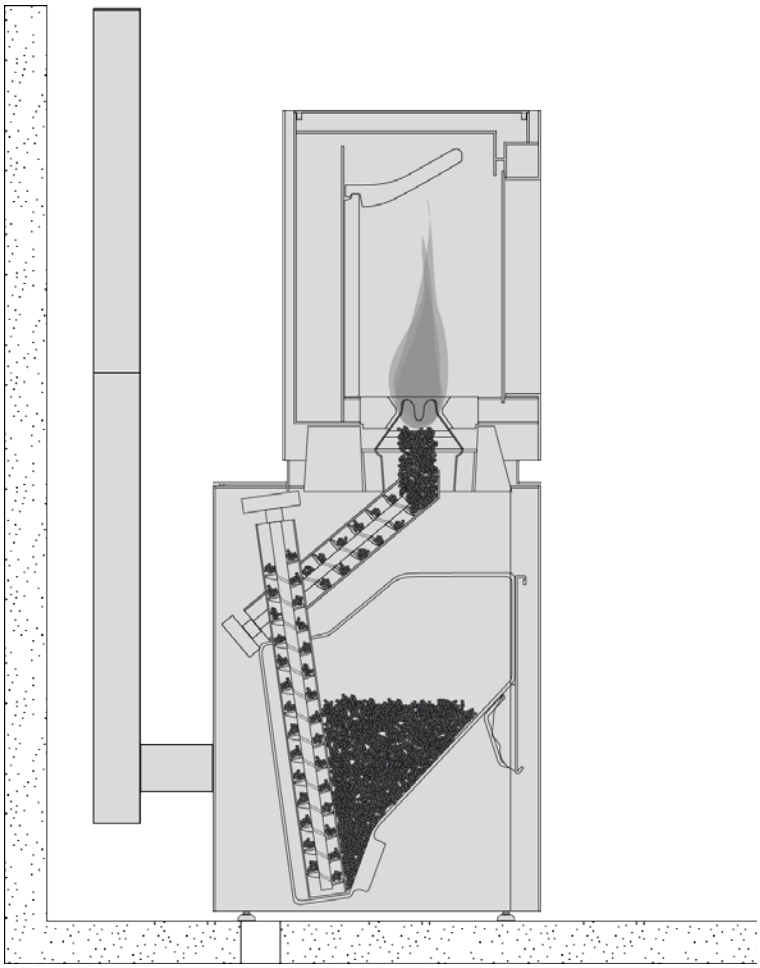
5. Air circulates in the convection chamber and harnesses the heat from the fumes.

6. The heated air emerges naturally from the appliance and spreads through the room.

7. Heat radiates through the large glass window.

P-10 | The stove

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.

REMOTE CONTROL

WIFI HANDSET