

Installation manual

IRON DOG 01-06

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BRUNNER[®]
made in germany.

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1 SAFETY PRECAUTIONS

We recommend having the **IRON DOG** installed and connected to the chimney by an authorized stove-fitter, as safety and effectiveness depend on a proper installation of the product. All European, national and local regulations must be observed and followed.

No liability or guarantee entitlements will be accepted for damage resulting from nonobservance of this installation manual!

Fireplaces must be built to ensure safe operation and fire-safety, so that dangers and unreasonable nuisances cannot appear.

Fireplaces may be set up only in rooms or areas with no risk of danger due to their state, structure or intended use.

Other manuals accompanying the insert are to be considered.

Subject to technical changes.

Please read attentively this installation manual before the beginning of the installation.

2 DELIVERY CONTENTS

The **IRON DOG** is delivered completely assembled on a disposable pallet. The **IRON DOGS** are screwed to the pallet;

In order to enable an optimal installation and connection of the **IRON DOG**, we recommend using the optional accessories. These are adjusted perfectly to the required safety distances and make it possible to install the **IRON DOG** rapidly and safely, without any problems - see www.iron-dog.com.

In case of damages due to transport the supplier and the transport company should be notified immediately.

3 COMPONENTS

A detailed list of all the components of the **IRON DOGS** can be found in the user manual.

4 TRANSPORT



Caution when turning over the device - loose parts!

Stove top, baffle plate, grill and accessories are not screwed to the device. In order to reduce the weight during transport, these parts can be removed.

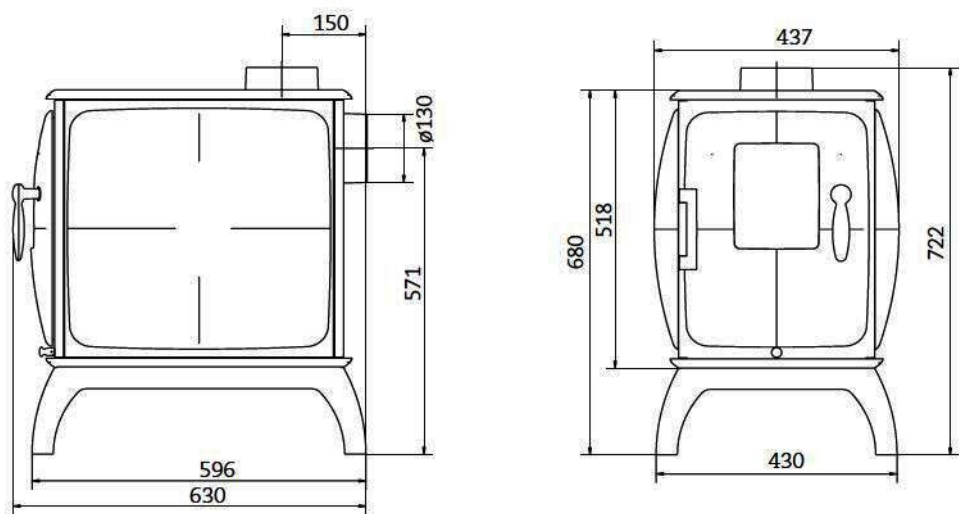
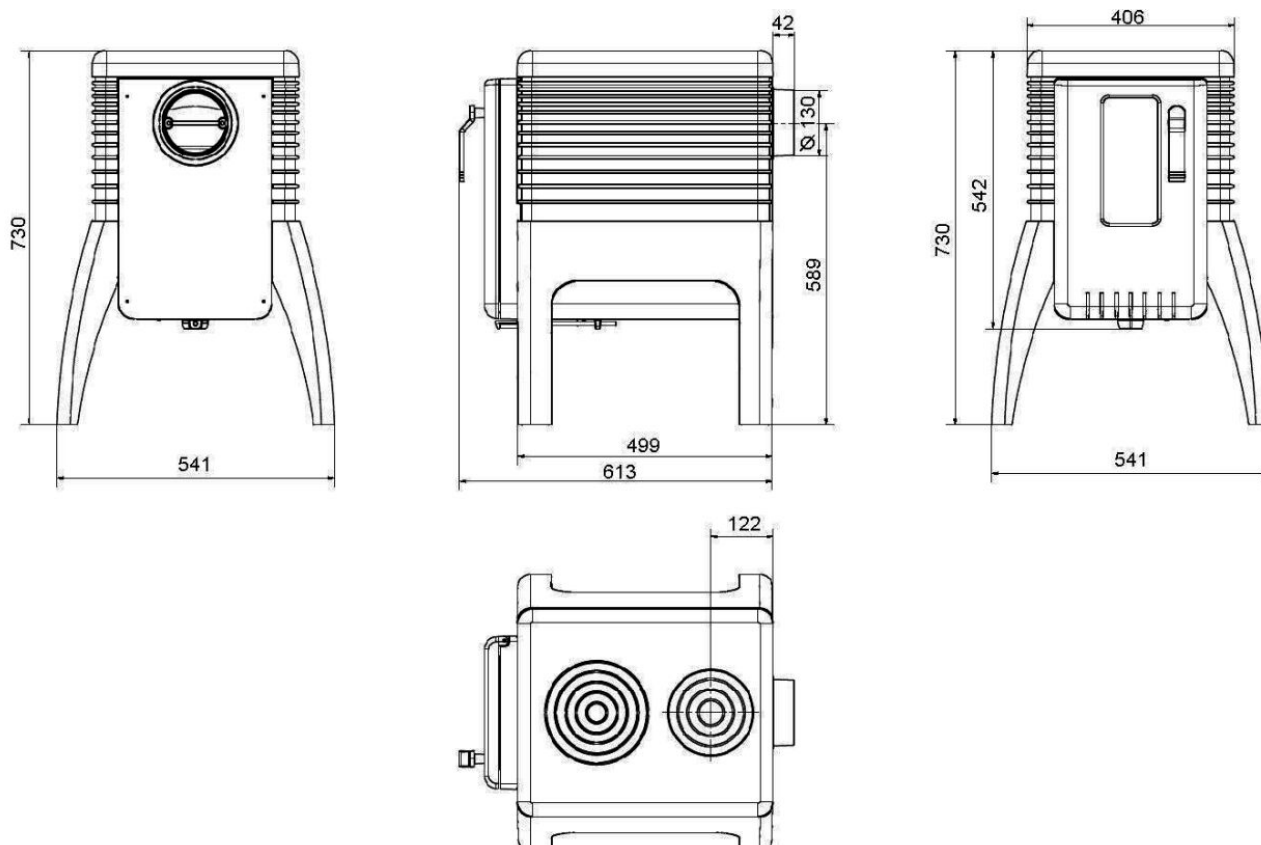
5 IDENTIFICATION PLATE

The identification plate is fixed to the inside of the firing door or the ash door. The identification plate of the Iron Dog 06 can be found on the soot door. Here you will find information about the permissible fuels and the serial number, needed in case of spare part orders. Please copy this serial number in the user manual.

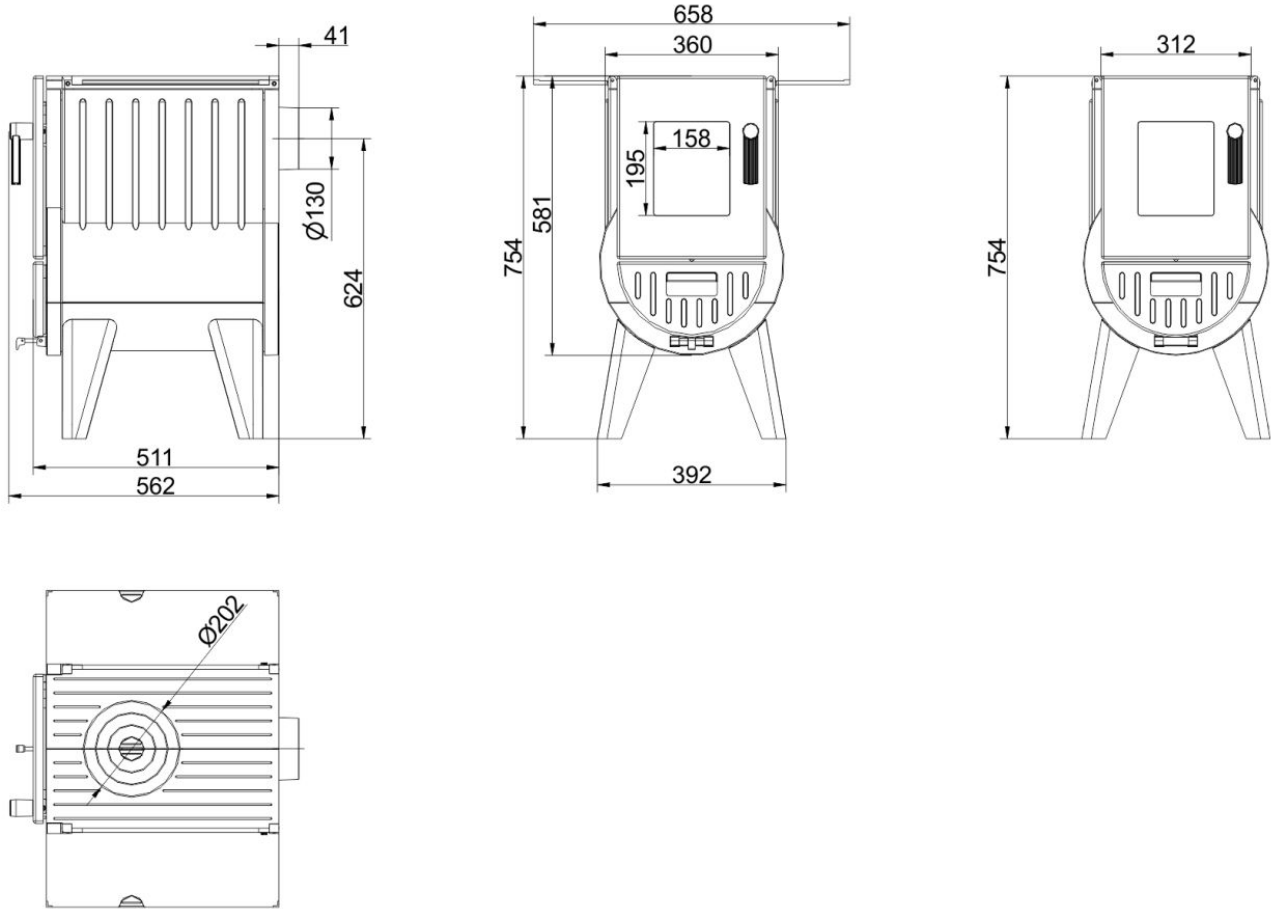


Im. 1: Identification plate

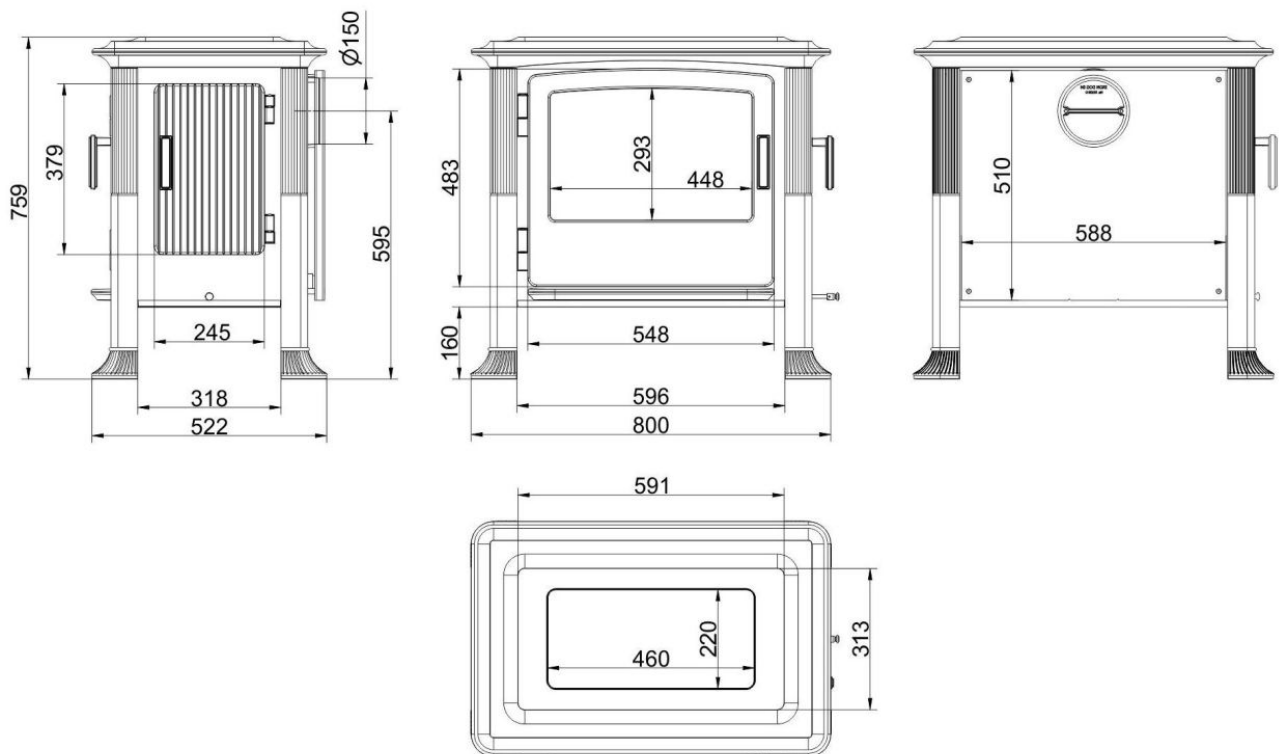
6 DIMENSION DRAWINGS

Iron Dog 01**Iron Dog 02**

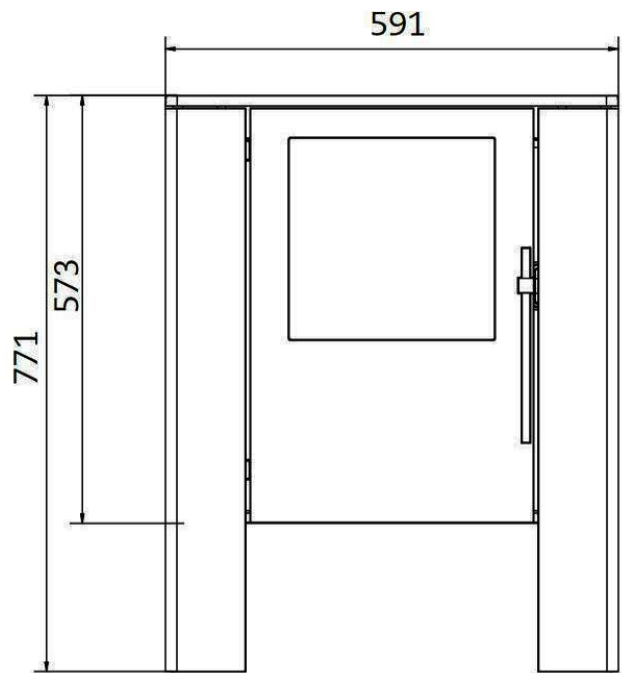
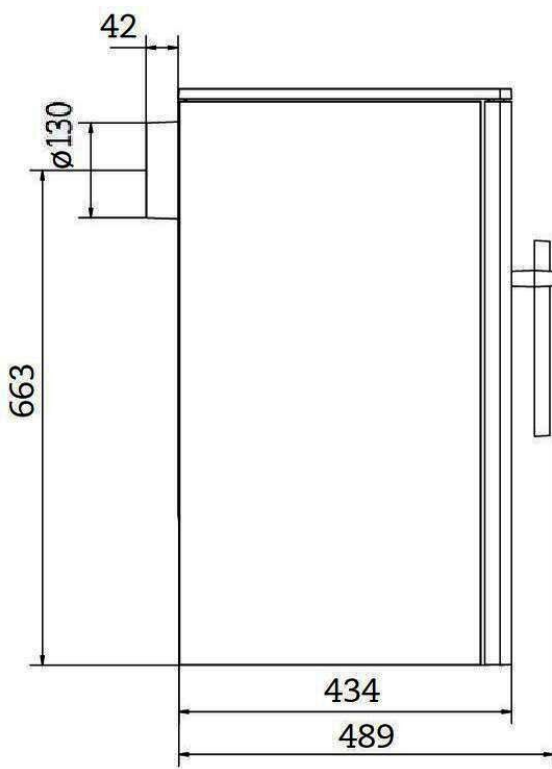
Iron Dog 03



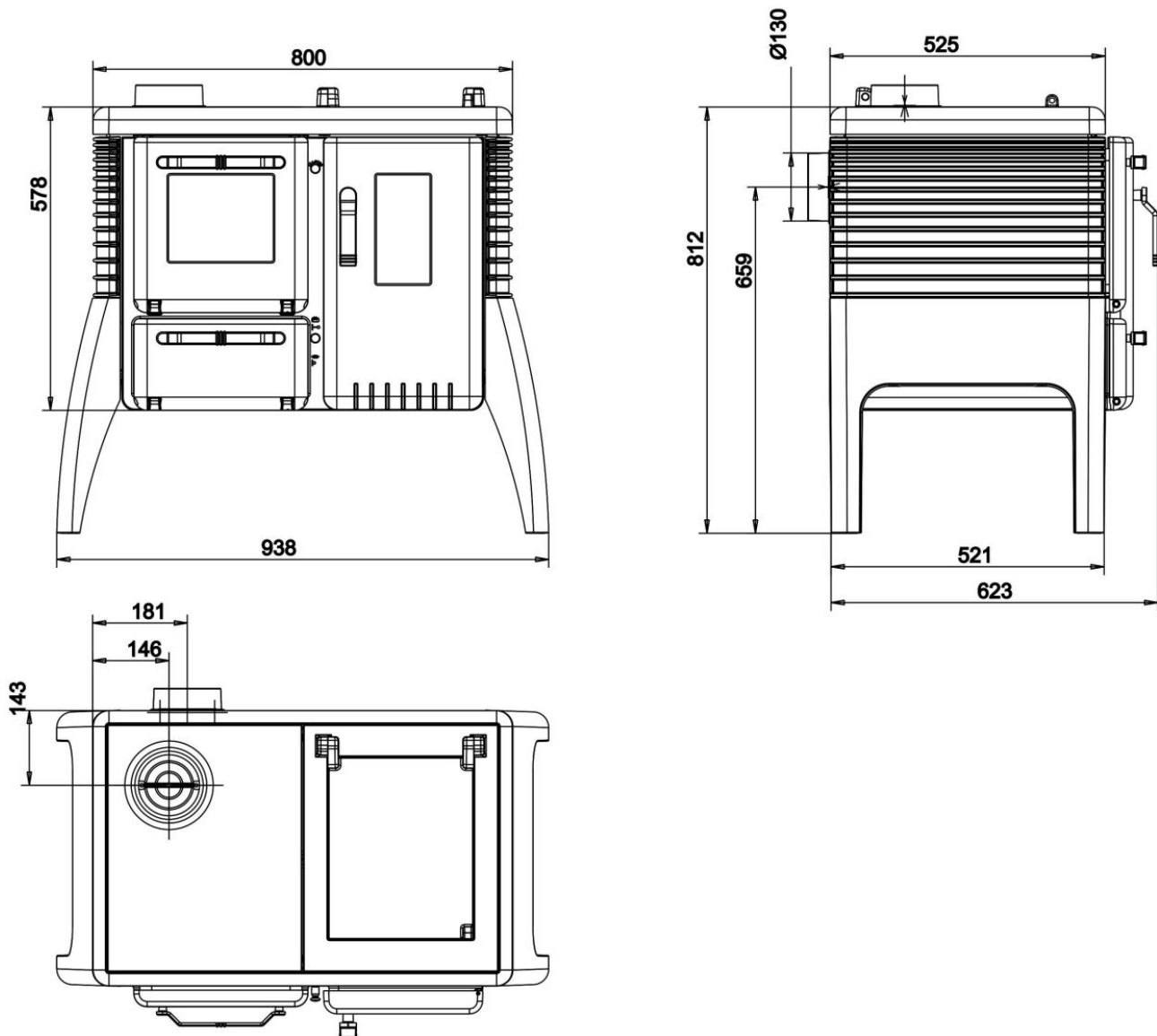
Iron Dog 04



Iron Dog 05



Iron Dog 06



7 REQUIREMENTS TO THE INSTALLATION AREA

Possible locations for an **IRON DOG** are only such rooms, where no danger can occur, if only the instructions for use are being followed and the system is properly used. The state, structure and intended use of the room must be considered when choosing the location.

The installation of the **IRON DOGD**, the chimney connection and the combustion air supply must be arranged in consultation with the stove-fitter.

The **IRON DOG** should not be installed in places where the necessary supply of combustion air is not guaranteed or in places where flammable materials or explosives are stored, manufactured or processed.

The floor area where the device is installed must be large enough and configured in such a way that it allows a proper operation of the stove.

8 INSTALLATION

The stove has to be installed vertically on a load-carrying floor. Any differences in height can be compensated using the M10 screws screwed into the floor frame/foot.

The floor under the **IRON DOG** must exist of an incombustible cover. Materials as glass, steal, ceramic tiles or natural stone can be used. See also the information in the chapter 'Distances'.

Iron Dog 01, Iron Dog 02 and Iron Dog 06

The flue pipe socket can be converted from the rear wall to the top. The flue gas connector and dummy cover are each screwed on from the combustion chamber side with two hexagon socket screws. To convert, remove the stove top and swap the position of the flue gas connection/blank cover. The combustion chamber deflector (not Iron Dog 06) can be removed for better accessibility.

After modification replace the parts again in their correct position, paying attention to a perfect placing of the stove rope seals.

Iron Dog 03

On the Iron Dog 03, the hearth plate is secured by two rotating retaining plates, so that no tilting occurs when a load is placed on one side of the folded-out hearth plate cover. The retaining plates are accessible through the open burner door.



Check that the hotplate is secured before commissioning!



Im. 2: Lever open



Im. 3: Closing the lever



Im. 4: Losening the retaining plate



The maximum permissible load on the folded-out hearth plate cover of the Iron Dog 03 is 10 kg!



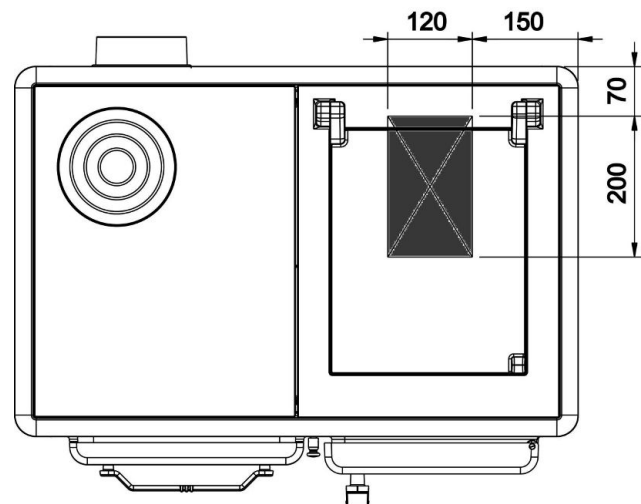
Iron Dog 04

The glass panel of the Iron Dog 04 must be adjusted during installation so that the distance to the cast part is the same at the top and bottom.

Iron Dog 06

The Iron Dog 06 can also be installed without leveling feet. In this case the Iron Dog 06 should be placed on a base from mineral, non-combustible material.

In this base, the area marked in the illustration must be kept open, in order to guarantee sufficient combustion air supply. The combustion air must be able to flow freely to this area.



Im. 5: Combustion air supply

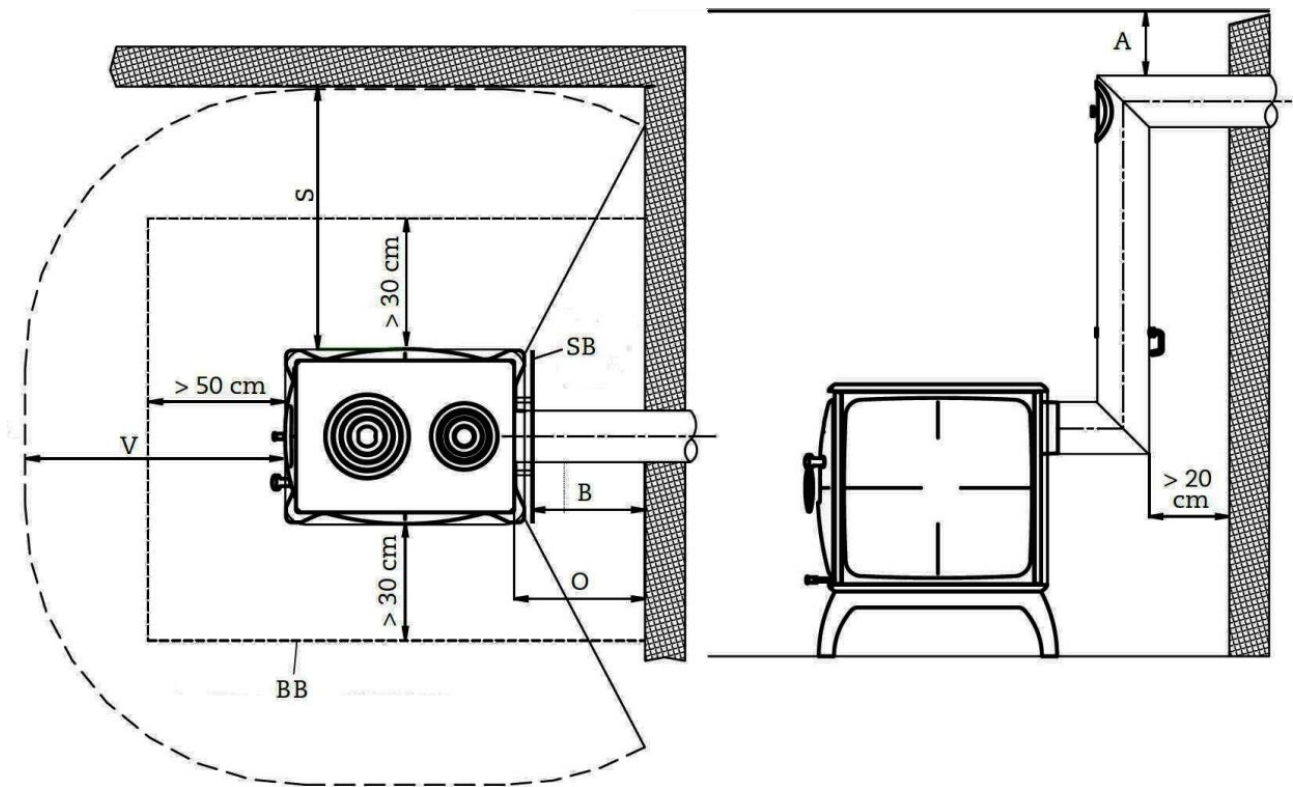
9 DISTANCES

The floor area (BB) under and in front of the Iron Dog must consist of an incombustible cover. Details can be found in the technical data.

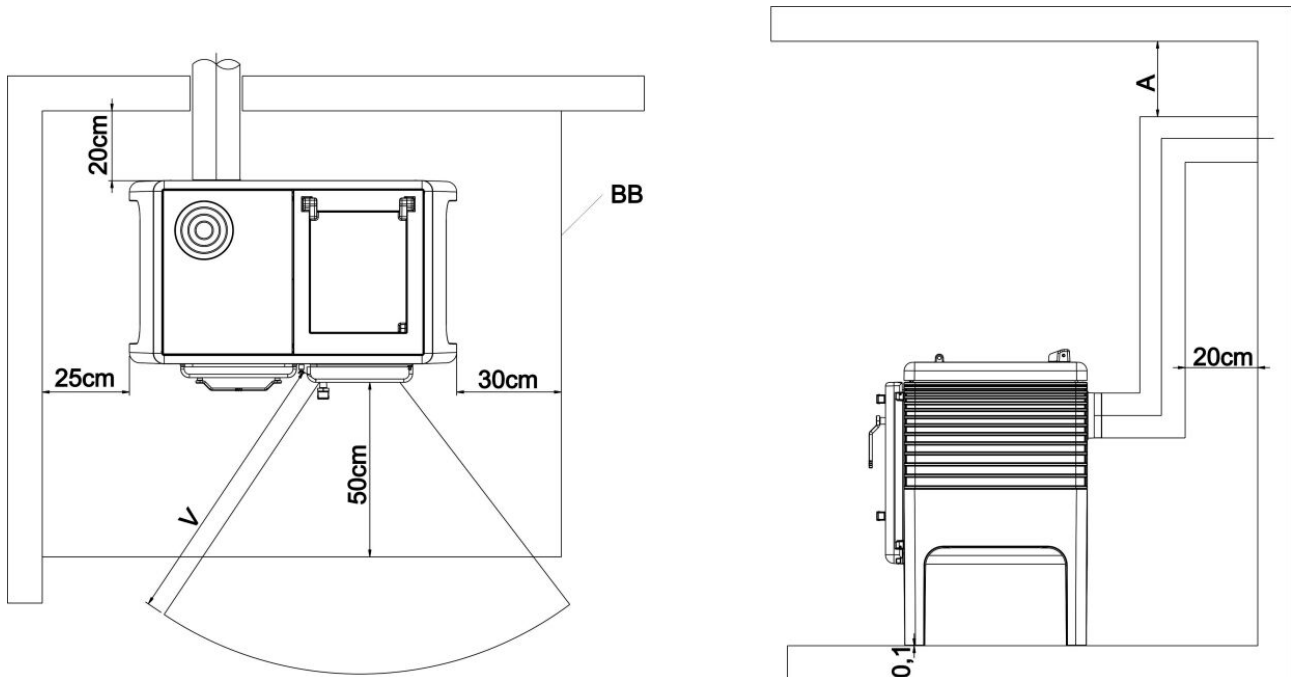
- The given safety distances guarantee that at adjacent construction parts (wall) no temperatures $> 85^{\circ}\text{C}$ can appear. If necessary keep bigger distances towards delicate objects and furniture.
- If a heat protection panel (SB) is placed at the back wall, the Iron Dog can be placed at a distance “B” from the back wall. If in addition to the heat protection panel “SB” also a ventilated double-walled wall protection shield is used, the distance to the wall can be reduced to “W” (not shown in the illustration).
- Without heat protection panel the minimum distance “O” should be kept. The safety distance of the smoke pipe to the ceiling of the building “A” depends on the material used for the ceiling. Discuss this with your chimney sweep!



For highly insulated walls ($U\text{-value} < 0.4 \text{ W/m}^2\text{K}$), the fire protection distance is increased by 5 cm to the corresponding side or rear wall.



Im. 6: Recommended distances to the Iron Dog 01 - Iron Dog 05



Im. 7: Recommended distances to the Iron Dog 06

10 COMBUSTION AIR

A heating device may be located only in rooms, where sufficient combustion air supply is guaranteed. Normal operation requires sufficient air supply using a separate **combustion air connection**.

Sufficient combustion air supply is present, when by natural means or using technical equipment a combustion air volume of 12,5 m³ per 1 kg fuel throughput can stream into a room with wood-burning fireplace over a period of 1 hour at calculated negative pressure below 0,04 mbar (4 Pa) against outside air pressure. This is equivalent to a speculative heating power (PLF) of 8 kW per 1 kg fuel throughput.

Combustion air supply is ensured in rooms with at least one window or one door leading to the exterior that can be opened, or when these rooms are directly connected or interconnected by air with other rooms of such type. Rooms considered as directly connected or interconnected by air, can as such be only parts of one flat or one facility of other kind. Particular attention to combustion air supply is to be paid, when exhaust fans and other heat generators in the same room combination are operated, or when multiple heating devices are connected to one single chimney.

Ventilation systems in this room combination cannot create negative pressure, which could affect the functioning of the fireplace. Exhaust ventilation systems operating in the same room or room combination together with fireplaces, can cause many problems.

When in the same room or additional rooms in connection other fireplaces are in operation, these fireplaces require at least 1,6 m³ of combustion air per hour for each kW of their total rated heat power. When a room contains only a small volume of air and furthermore, the building is relatively air-tight, a separate combustion air supply leading to the exterior is required.

Ventilation lines or shafts must be tight and accessible for revision and cleaning. Ventilation air grilles cannot narrow the free cross section.

Make sure to avoid the risk of water condensation in combustion air pipe when cold air is aspirated from outside the building!

Remember about noise insulation!

Ventilation lines and their insulation materials must not contain any combustible ingredients (class A1 building materials). For buildings with more than two storeys and when crossing fire protection walls, the construction of these ventilation lines must prevent fire and smoke from penetrating other fire protection zones (their components must have a fire resistance rating of >90 minutes (F90)). See also regional building law.

11 CHIMNEY AND SMOKE PIPE CONNECTION

Chimney and smoke pipe connection design must be in accordance with DIN 18160.1; dimensions must be calculated according to DIN EN 13384. For calculations, please consider that with open doors (when stoking wood) a significantly increased air volume must be led away safely.

When using a steel smoke pipe as connecting piece between additional heating surfaces and chimney, the pipe wall thickness must be at least 2 mm. The connecting piece must be connected directly to the chimney.

For a safe operation a soot fire resistant chimney T400 is required.

All smoke pipe connections must be sealed tightly! Remember to provide access for cleaning!

12 INITIAL OPERATION

Check the correct position of the fireplace parts. The baffle plate (not Iron Dog 06) must touch the back wall. Up to the first reaching of the maximum operating temperature, the paint keeps hardening. This may cause some smoke and smell nuisances. Therefore it is important to ensure sufficient room ventilation. Open doors and windows. Don't stay in the room longer than necessary.



Please read the user manual!

TECHNICAL SPECIFICATIONS

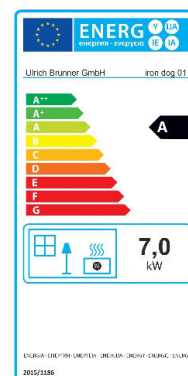
		Iron dog 01	Iron dog 02	Iron dog 03	Iron dog 04	Iron dog 05	Iron dog 06
Rated heat power	kW	7	7	7	8	7	8
Flue gas mass flow	g/s	7,6	7,6	7,6	8,2	7,4	11
Outlet temperature at exhaust gas stub	°C	353	353	353	322	356	290
Minimum chimney pressure	Pa	12	12	12	13	12	13
Combustion air consumption	m³/h	15	15	15	18	15	18
Heating capacity	m²	50 - 90	50 - 90	50 - 90	60 - 110	50 - 90	60 - 110
Firewood consumption / h	kg	2	2	2	2,2	2	2,5
Quantity of wood	kg	1,5 - 2,5	1,5 - 2,5	1,5 - 2,5	1,5 - 2,5	1,5 - 2,5	2,0 - 3,0
Recommended log lengths	cm	25 - 33	25 - 33	25 - 33	33 - 50	25 - 33	25 - 33
Efficiency	%	81	81	82	82	81	82
Device data							
Dimensions (hxwx d)	cm	68x44x63	73x54x61	76x39x56	76x80x52	77x9x49	81x94x62,5
Window surface (hxw)	mm	195x150	245x105	285x160	285x450	250x260	207x102
Fire chamber opening (hxw)	mm	200x245	205x210	208x195	255x218	265x295	238x267
Grill surface (wx d)	mm	-	-	-	-	-	260x360
Oven (hxwx d)	cm	-	-	-	-	-	27x30x41,5
Smoke pipe connection		Top / Rear	Top / Rear	Rear	Rear	Rear	Top / Rear
Smoke pipe ø	mm	130	130	130	150	130	130
Fire chamber depth	cm	40	40	38	60	40	45
Weight	kg	130	150	135	240	200	310
Minimal distance							
to the side wall "S"	cm	80	80	80	60	80	25
to the back wall (without radiation shield) "O"	cm	40	40	40	-	40	20
to rear (with stove radiation shield) "B"	cm	30	30	30	30	30	-
to rear (with stove radiation shield and wall protection shield) "W"	cm	10	10	10	10	10	-
To the front "V"	cm	80	80	80	80	80	80
To the ceiling "A" ¹⁾	cm	40	40	40	40	40	40
Tested according to		EN13240 2)	EN13240 2)	EN13240 2)	EN13240 2)	EN13240 2)	EN12815

1) If the connector is covered with at least 2 cm of mineral wool (suitability for chimney construction required), the distance can be reduced to 10 cm. When penetrating walls from or with flammable components, a distance of at least 20 cm from the flammable components must be maintained. The space in between must either be ventilated or filled with mineral building materials with low thermal conductivity.

2) The data are acquired during a EN 13240-test – room heater with horizontal smoke pipe connection, pipe length 35 cm.

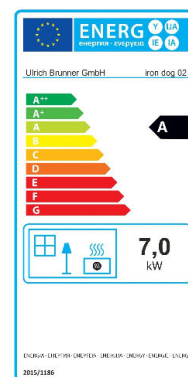
Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 01
Energy efficiency class:	A
Direct heat output:	7,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	106
Fuel energy efficiency (at nominal heat output):	80,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documentation	



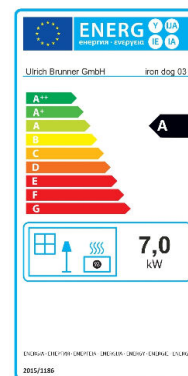
Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 02
Energy efficiency class:	A
Direct heat output:	7,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	106
Fuel energy efficiency (at nominal heat output):	80,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documentation	



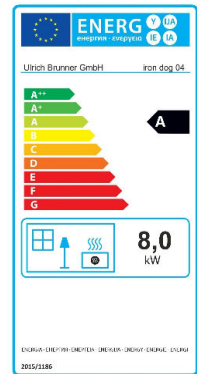
Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 03
Energy efficiency class:	A
Direct heat output:	7,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	106
Fuel energy efficiency (at nominal heat output):	80,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documentation	



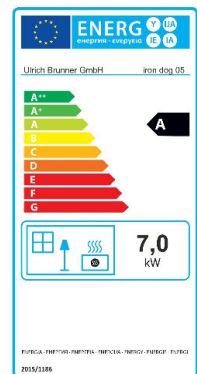
Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 04
Energy efficiency class:	A
Direct heat output:	8,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	108
Fuel energy efficiency (at nominal heat output):	81,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documenta- tion	



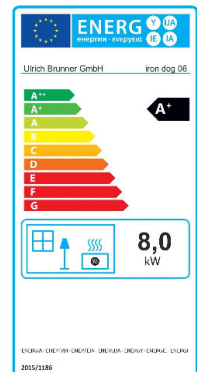
Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 05
Energy efficiency class:	A
Direct heat output:	7,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	106
Fuel energy efficiency (at nominal heat output):	80,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documenta- tion	



Product data sheet according to (EU) 2015/1186:

Supplier's name or trademark	Ulrich Brunner GmbH
Model identifier:	Iron Dog 06
Energy efficiency class:	A+
Direct heat output:	8,0 kW
Indirect heat output:	N.A. kW
Energy efficiency index:	109
Fuel energy efficiency (at nominal heat output):	82,0 %
Fuel energy efficiency (at minimum load):	N.A. %
Special precautions: see supplied product documenta- tion	



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