



FONDIS

être différent



Insert V60 L



Insert V80 L



Insert V80 L Double sided



Insert V100 L



Insert V60 Corner

Installation Guide and User's guide

Inserts V60 L, V80 L , V80 L double sided, V100L and V60 Corner

INDICATIONS PLACED ON THE NAMEPLATE FOUND ON THE APPLIANCE :

- Model :
- Serial number :
- Purchase date:

IMPORTANT :

IT IS RECOMMENDED TO NOTE THE SERIAL NUMBER AND TO WRITE IT DOWN IN THE BOX ABOVE. IT WILL BE NECESSARY FOR ORDERING SPARE PARTS

**Réf notice :
06/2013**

V60L



DECLARATION CE DE CONFORMITE
EC DECLARATION OF CONFORMITY

Le fabricant soussigné : The undersigned manufacturer :

FONDIS SA
ZI de Vieux-Thann, 18 rue Guy de Place-68801 THANN Cedex- France
Unité de production / Manufacturing plant : FONDIS

Déclare que l'équipement, désigné ci-après : herewith declare that the products :

Genre / Kind	Foyer à combustion solide/Inset appliance fired by solid fuel
Classification / Categorisation	Appareil à porte fermée/Appliance operating with fire doors closed
Marque / Trade Mark	FONDIS
Modèle / Model	V60L
Puissance nominale / Nominal heat output	7,9 kW
Rendement / Efficiency	75 %
CO moyen / CO content	0,155 13% O ₂ -mg/MJ -mg/m ³ 13% O ₂
NOx moyen / NOx content	mg/MJ -mg/m ³ 13% O ₂
CnHm	mg/MJ -mg/m ³ 13% O ₂
Poussières / Particulate matter	mg/MJ -36,9mg/m ³ 13% O ₂
Température fumées / Gas flue temperature	199°C

Est conforme / is in conformity :


* à la norme européenne EN13229 de juin 2002.

Lorsqu'il est installé conformément aux instructions d'installation fournies dans la documentation.
When installed in accordance with the installation instructions contained in the product documentation

Données pour le calcul des conduits selon EN 13454 :data for calculation of chimney according EN 13454 :

Débit massique des fumées / Flue mass	11,54 g/s
Température à la buse / Flue Collar temperature	249 °C
Tirage requis / required draught	10 Pa
CO2 moyen / CO2 average	5,6 %

La procédure d'attestation de la conformité appliquée comporte / Provisions to which the products conforms

Examen CE de type initial <i>EC Initial type testing</i>	Sous la responsabilité <i>Under the responsibility</i>
CTIF TD N° P 4240	FONDIS SA, ZI de Vieux Thann, 18 Rue Guy de Place 68801 Thann Cedex- France
Vieux- Thann—France, le	01/12/2010
Nom / Name : Frédéric HAAS	
Qualité / Position : Directeur Technique / Technical Manager	

V80L



DECLARATION CE DE CONFORMITE
EC DECLARATION OF CONFORMITY

Le fabricant soussigné : The undersigned manufacturer :

FONDIS SA
ZI de Vieux-Thann, 18 rue Guy de Place-68801 THANN Cedex- France
Unité de production / Manufacturing plant : FONDIS

Déclare que l'équipement, désigné ci-après : herewith declare that the products :

Genre / Kind	Foyer à combustion solide/Inset appliance fired by solid fuel
Classification / Categorisation	Appareil à porte fermée/Appliance operating with fire doors closed
Marque / Trade Mark	FONDIS
Modèle / Model	V80L
Puissance nominale / Nominal heat output	11 kW
Rendement / Efficiency	78 %
CO moyen / CO content	0,08 13% O ₂ -mg/MJ -mg/m ³ 13% O ₂
NOx moyen / NOx content	mg/MJ -mg/m ³ 13% O ₂
CnHm	mg/MJ -mg/m ³ 13% O ₂
Poussières / Particulate matter	mg/MJ -74mg/m ³ 13% O ₂
Température fumées / Gas flue temperature	278°C

Est conforme / is in conformity :


* à la norme européenne EN13229 de juin 2002.

Lorsqu'il est installé conformément aux instructions d'installation fournies dans la documentation.
When installed in accordance with the installation instructions contained in the product documentation

Données pour le calcul des conduits selon EN 13454 : data for calculation of chimney according EN 13454 :

Débit massique des fumées / Flue mass	g/s
Température à la buse / Flue Collar temperature	328 °C
Tirage requis / required draught	11 Pa
CO2 moyen / CO2 average	9,66 %

La procédure d'attestation de la conformité appliquée comporte / Provisions to which the products conforms

Examen CE de type initial <i>EC Initial type testing</i>	Sous la responsabilité <i>Under the responsibility</i>
CTIF TD N°4255	FONDIS SA, ZI de Vieux Thann, 18 Rue Guy de Place 68801 Thann Cedex- France
Vieux- Thann—France, le	18/01/2011
Nom / Name : Frédéric HAAS	
Qualité / Position : Directeur Technique / Technical Manager	

V80LDF



**DECLARATION CE DE CONFORMITE
EC DECLARATION OF CONFORMITY**

Le fabricant soussigné : The undersigned manufacturer :

FONDIS SA
ZI de Vieux-Thann, 18 rue Guy de Place-68801 THANN Cedex- France
Unité de production / Manufacturing plant : FONDIS

Déclare que l'équipement, désigné ci-après : herewith declare that the products :

Genre / Kind	Foyer à combustion solide/Inset appliance fired by solid fuel
Classification / Categorisation	Appareil à porte fermée/Appliance operating with firedoors closed
Marque / Trade Mark	FONDIS
Modèle / Model	V80LDF
Puissance nominale / Nominal heat output	11 kW
Rendement / Efficiency	78 %
CO moyen / CO content	0,08 13% O ₂ -mg/MJ -mg/m ³ 13% O ₂
NOx moyen / NOx content	mg/MJ -mg/m ³ 13% O ₂
CnHm	mg/MJ -mg/m ³ 13% O ₂
Poussières / Particulate matter	mg/MJ -74mg/m ³ 13% O ₂
Température fumées / Gas flue temperature	278°C

Est conforme / is in conformity :

* à la norme européenne EN13229 de juin 2002.


Lorsqu'il est installé conformément aux instructions d'installation fournies dans la documentation.

When installed in accordance with the installation instructions contained in the product documentation

Données pour le calcul des conduits selon EN 13455 :data for calculation of chimney accoding EN 13455 :

Débit massique des fumées / Flue mass	g/s
Température à la buse / Flue Collar temperature	328 °C
Tirage requis / required draght	11 Pa
CO2 moyen / CO2 average	9,66 %

La procédure d'attestation de la conformité appliquée comporte / Provisions to which the products conforms

Examen CE de type initial <i>EC Initial type testing</i>	Sous la responsabilité <i>Under the responsibility</i>
CTIF TD N°4255	FONDIS SA, ZI de Vieux Thann, 18 Rue Guy de Place 68801 Thann Cedex- France
Vieux- Thann—France, le	18/01/2011
Nom / Name : Frédéric HAAS	
Qualité / Position : Directeur Technique / Technical Manager	

V100L



DECLARATION CE DE CONFORMITE
EC DECLARATION OF CONFORMITY

Le fabricant soussigné : The undersigned manufacturer :

FONDIS SA
ZI de Vieux-Thann, 18 rue Guy de Place-68801 THANN Cedex- France
Unité de production / Manufacturing plant : FONDIS

Déclare que l'équipement, désigné ci-après : herewith declare that the products :

Genre / Kind	Foyer à combustion solide/Inset appliance fired by solid fuel
Classification / Categorisation	Appareil à porte fermée/Appliance operating with fire doors closed
Marque / Trade Mark	FONDIS
Modèle / Model	V100L
Puissance nominale / Nominal heat output	14 kW
Rendement / Efficiency	74 %
CO moyen / CO content	0,28 13% O ₂ -mg/MJ -mg/m ³ 13% O ₂
NOx moyen / NOx content	mg/MJ -mg/m ³ 13% O ₂
CnHm	mg/MJ -mg/m ³ 13% O ₂
Poussières / Particulate matter	mg/MJ -mg/m ³ 13% O ₂
Température fumées / Gas flue temperature	286°C

Est conforme / is in conformity :

* à la norme européenne EN13229 de juin 2002.

Lorsqu'il est installé conformément aux instructions d'installation fournies dans la documentation.
 When installed in accordance with the installation instructions contained in the product documentation

Données pour le calcul des conduits selon EN 13463 : data for calculation of chimney according to EN 13463 :

Débit massique des fumées / Flue mass	13,48 g/s
Température à la buse / Flue Collar temperature	286 °C
Tirage requis / required draught	15 Pa
CO2 moyen / CO2 average	9,15 %

La procédure d'attestation de la conformité appliquée comporte / Provisions to which the products conforms

Examen CE de type initial <i>EC Initial type testing</i>	Sous la responsabilité <i>Under the responsibility</i>
EB-2011-0048	FONDIS SA, ZI de Vieux Thann, 18 Rue Guy de Place 68801 Thann Cedex- France

Vieux- Thann—France, le	08/03/2012
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Nom / Name : Frédéric HAAS

Qualité / Position : Directeur Technique / Technical Manager

Introduction

You purchased a FONDIS product, and we thank you for your confidence.

From its design up to its marketing, we did everything to offer you an exclusive and very high-quality product. It is the fruit of the work of a whole team, whose philosophy is an ever growing motivation to meet your requirements. We hope that your FONDIS insert will bring you incomparable hours of pleasure.

Since the customer is at the heart of all our thoughts, we wanted to accompany you for your first steps and guide you towards an optimum daily use of your fireplace. So, you will find in this manual technical information and practical hints that will allow you to begin without any difficulty to use your fireplace.

To make your moments by the fireside unforgettable, FONDIS guarantees you its full commitment, dedicated competences and a continuous follow-up at your service!

FONDIS.



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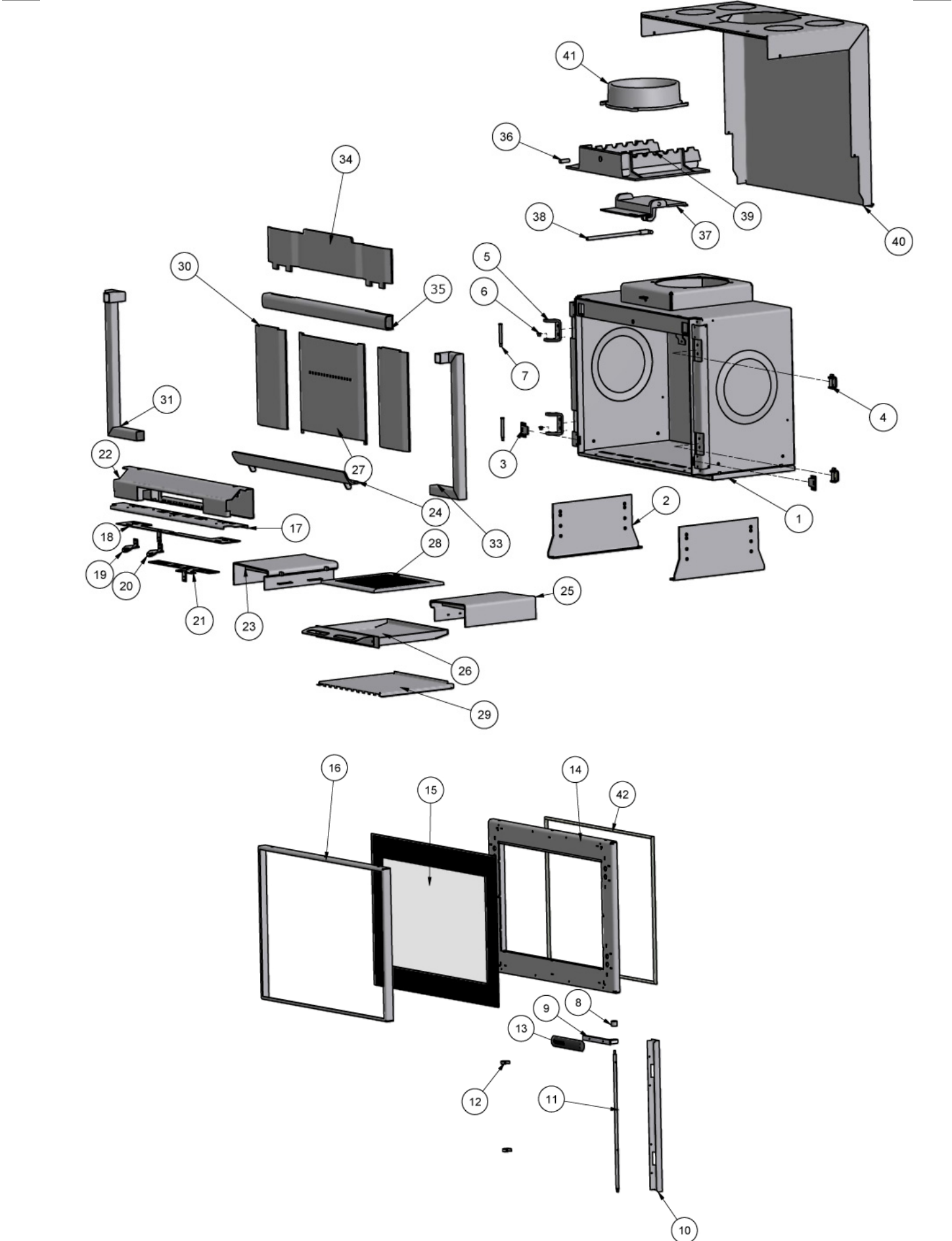
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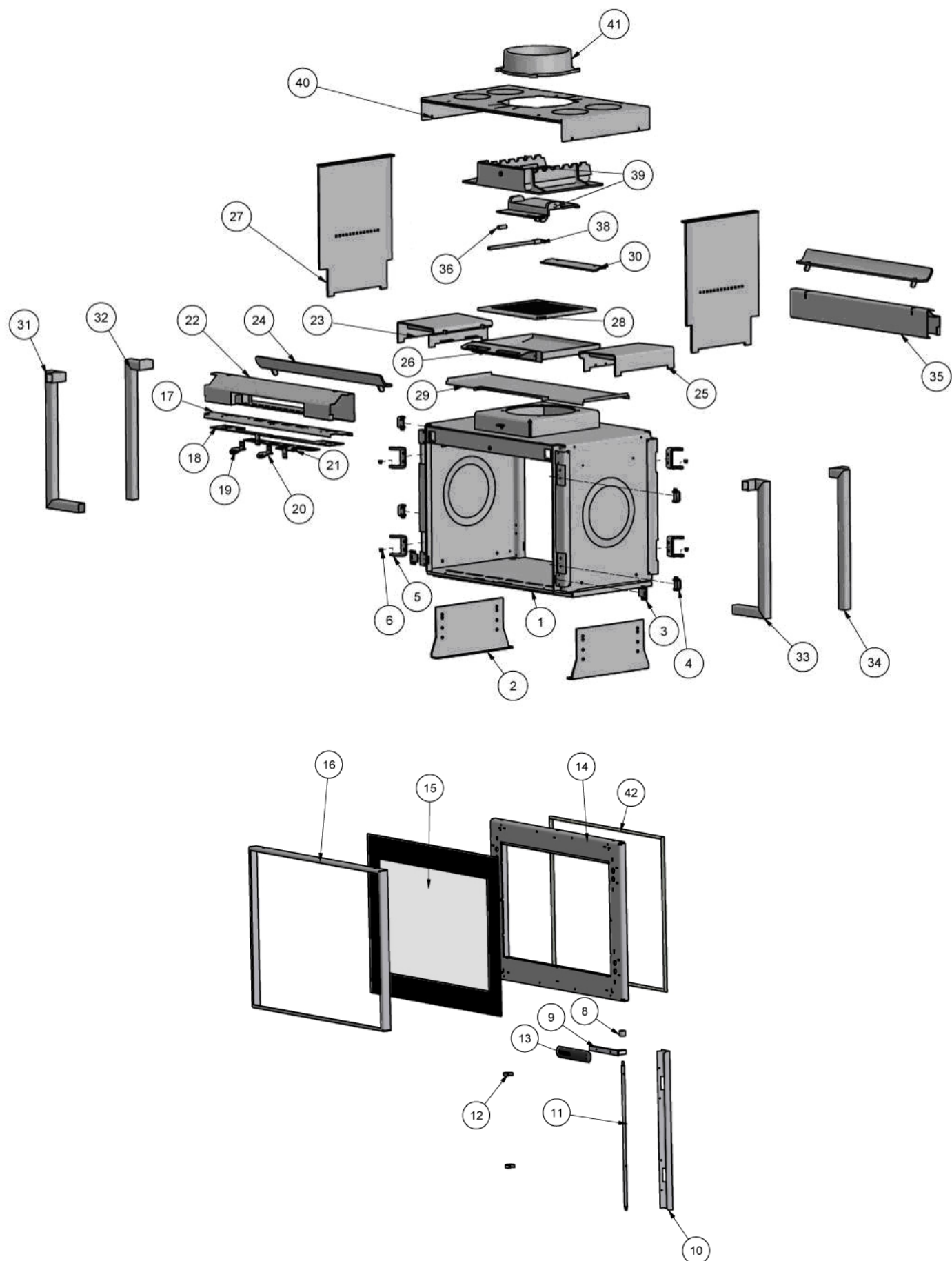
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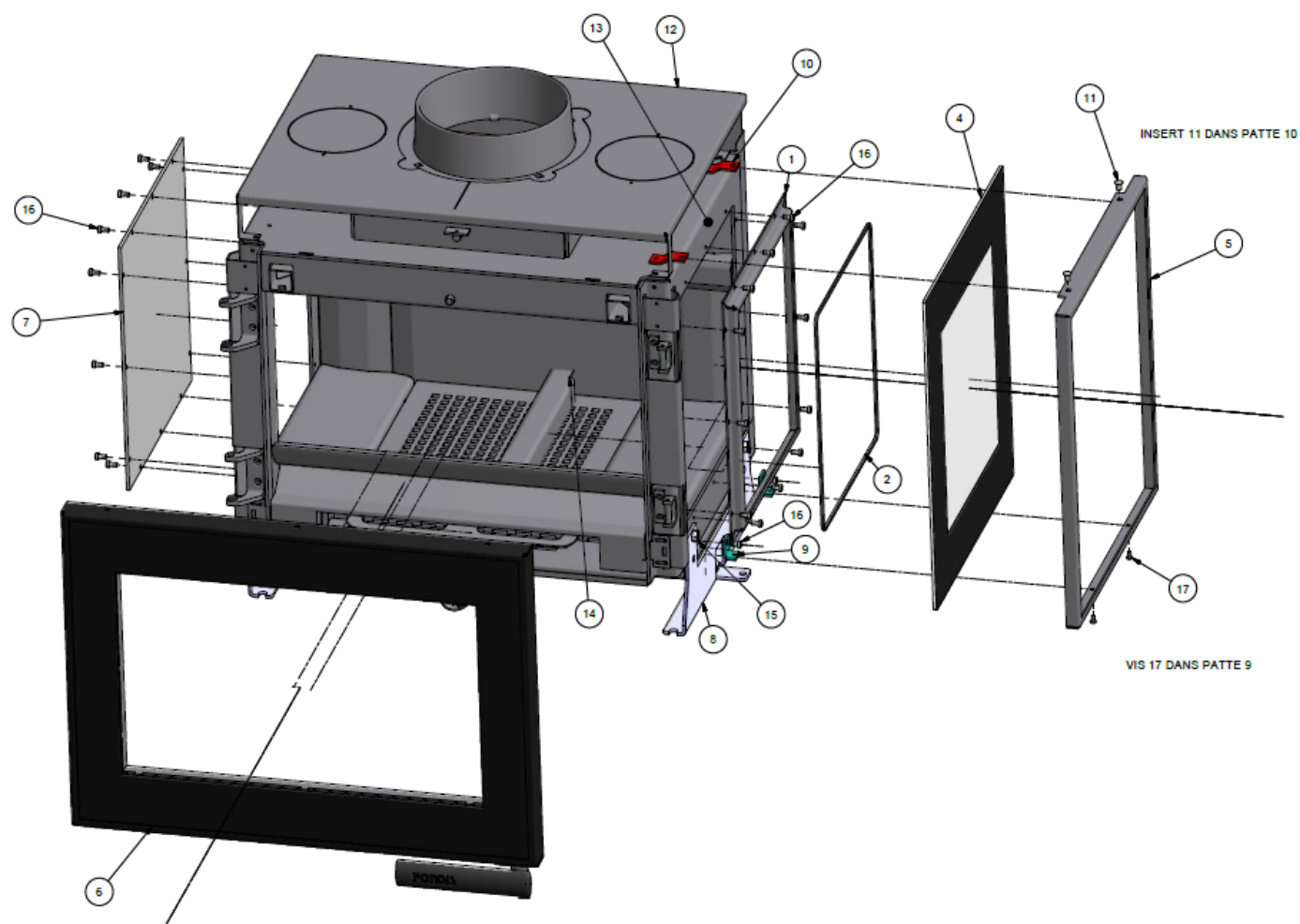
ITEM	QTY	CODART V60	CODART V80	CODART V100	DESCRIPTION
1	1				WELDED BOX
2	2	BF12054	BF12054	BD11609	FOOT
3	2	BD11078	BD11078	BD11078	LOCKING PIN
4	2	BD11011	BD11011	BD11011	LOCK CAM
5	2	BD11003	BD11003	BD11003	HINGE
6	2	BD11050	BD11050	BD11050	DOOR FRICTION BUSH
7	2	BD11019	BD11019	BD11019	HINGE PIN
8	1	BD11018	BD11018	BD11018	LATCH SHAFT CAP
9	1	BF11032	BF11032	BF11032	ALUMINIUM HANDLE
10	1	BD11220	BD11020	BD11020	LATCH SHAFT COVER
11	1	BD11252	BD11052	BD11052	LATCH SHAFT
12	2	BD11064	BD11064	BD11064	LOCK HOOK
13	1	BF11033	BF11033	BF11033	FONDIS SILICONE SLEEVE
14	1	BD11302	BD11102	BD11802	DOOR BODY
15	1	BD11232	BD11032	BD11732	SCREEN-PRINTED WINDOW
16	1	BD11251	BD11051	BD11751	WINDOW FRAME
17	1	BD11229	BD11029	BD11729	AIR INTAKE PLATE
18	1	BD11242	BD11042	BD11742	IGNITION AIR SHUTTER
19	1	BD11043	BD11043	BD11043	IGNITION HANDLE
20	1	BD11045	BD11045	BD11745	PRIMARY HANDLE
21	1	BD11244	BD11044	BD11044	PRIMARY AIR SHUTTER
22	1	BD11288	BD11088	BD11788	AIR DISTRIBUTOR
23	1	BD11277	BD11077	BD11777	LEFT SOLE PLATE
24	1	BD11275	BD11075	BD11775	LOG STOP
25	1	BD11276	BD11076	BD11776	RIGHT SOLE PLATE
26	1	BD11074	BD11074	BD11074	ASH DRAWER
27	1	BD11228	BD11028	BD11028	CENTRAL FURNACE PLATE
28	1	BF11017	BF11017	BF11017	GRATE
29	1	BD11008	BD11008	BD11008	SECONDARY AIR ENCLOSURE
30	2	BD11227	BD11027	BD11727	SIDE FURNACE PLATE
31	1	BD11282	BD11082	BD11082	LEFT SMOKE EXHAUST DUCT
33	1	BD11283	BD11083	BD11083	RIGHT SMOKE EXHAUST DUCT
34	1	BD11226	BD11026	BD11726	UPPER FURNACE PLATE
35	1	BD11280	BD11080	BD11780	FURNACE PLATE HOLDING PROFILE
36	1	BD11099	BD11099	BD11099	SMOKE BOX LOCK SHAFT
37	1	BF11001	BF11001	BF11001	SMOKE BOX DAMPER
38	1	BD11091	BD11091	BD11091	VALVE ROD
39	1	BF11000	BF11000	BF11000	SMOKE BOX SKELETON
40	1	BD11234	BD11034	BD11734	VENTILATION HOUSING
41	1	BF11003	BF11002	BF11002	EXHAUST NOZZLE
42	1	BD11215	BD11015	BD11715	SEAL DIAM. 10

Parts list V80L Double-sided



ITEM	QTY	ART. CODE	DESCRIPTION
1	1		WELDED BOX
2	2	BF12054	FOOT
3	2	BD11078	LOCKING PIN
4	4	BD11010	LOCK CAM
5	4	BD11003	HINGE
6	4	BD11050	DOOR FRICTION BUSH
7	4	BD11019	HINGE PIN
8	2	BD11018	LATCH SHAFT CAP
9	2	BF11032	ALUMINIUM HANDLE
10	2	BD11020	LATCH SHAFT COVER
11	2	BD11052	LATCH SHAFT
12	4	BD11064	LOCK HOOK
13	2	BF11033	FONDIS SILICONE SLEEVE
14	2	BD11102	DOOR BODY
15	2	BD11032	SCREEN-PRINTED WINDOW
16	2	BD11051	WINDOW FRAME
17	1	BD11029	AIR INTAKE PLATE
18	1	BD11042	IGNITION AIR SHUTTER
19	1	BD11043	IGNITION HANDLE
20	1	BD11045	PRIMARY HANDLE
21	1	BD11044	PRIMARY AIR SHUTTER
22	1	BD11088	AIR DISTRIBUTOR
23	1	BD11477	LEFT SOLE PLATE
24	2	BD11075	LOG STOP
25	1	BD11476	RIGHT SOLE PLATE
26	1	BD11074	ASH DRAWER
27	2	BD11428	CENTRAL FURNACE PLATE
28	1	BF11017	GRATE
29	1	BD11410	SECONDARY AIR ENCLOSURE
30	1	BD11440	SMOKE BOX BRACKET
31	1	BD11082	LEFT FRONT SMOKE EXHAUST DUCT
32	1	BD11483	LEFT REAR SMOKE EXHAUST DUCT
33	1	BD11083	RIGHT FRONT SMOKE EXHAUST DUCT
34	1	BD11482	RIGHT REAR SMOKE EXHAUST DUCT
35	1	BD11454	AIR DISTRIBUTOR BODY
36	1	BD11099	SMOKE BOX LOCK SHAFT
37	1	BF11001	SMOKE BOX DAMPER
38	1	BD11091	VALVE ROD
39	1	BF11000	SMOKE BOX SKELETON
40	1	BD11434	VENTILATION HOUSING
41	1	BF11002	EXHAUST NOZZLE Ø230-200
42	1	BD11015	SEAL DIAM. 10

Parts list V60 corner



ITEM	QTY	ART. CODE	DESCRIPTION
1	1	BD15010	FOLDED FRAME
2	1,2m	40240	ADHESIVE GASKET DIAMETRE 4MM
4	1	BD15254	STAMPED SIDE GLASS
5	1	BD15251	GLASS FRAME
6	1		DOOR INSERT V60
7	1	BD15011	LOCKING LATCH
8	2	BD15014	FOOT V60 CORNER
9	2	BD15101	BRACKET LOW FRAME
10	2	BD15100	BRACKET UPPER FRAME
11	2	BF57633	INSERT M6 lg8,8
12	1	BD15234	COVER FAN V60 CORNER
13	1	BD15239	HOUSING COVER V60 CORNER
14	1	BD15013	ASH PLATE
15	4	BF57623	ZINC NUT M8
16	26	44589	CAP HEAD SCREW M5x8
17	2	44720	SCREW TBHC M4x8 BLACK

TECHNICAL FEATURES

	V60 L	V60corner	V80 L	V80 L DF	V100 L
Overall dimensions (LxHxD)	605 x 573 x 450	605 x 573 x 76 mm	745 x 657 x 450	745 x 662 x 515	1005 x 657 x 450
Minimum building-in dimensions (LxHxD)	568 x 516 x 420	568 x 576 x 423 mm	708 x 600 x 420	745 x 605 x 405	968 x 600 x 420 mm
Weight	100 kg	106 kg	130 kg	146 kg	164 kg
Power	7,9 kW	7,9 kW	11 kW	11 kW	14 kW
Instantaneous power	from 4 to 18 kW	from 4 to 18 kW	from 4.5 to 20 kW	from 4.5 to 20 kW	de 5 à 20 kW
CO % with 13% O₂	0,155 %	0,15 %	0,08 %	0,08 %	0,28 %
Smoke temperature	199 °C	199 °C	278 °C	278 °C	286 °C
Temperature for flue calculation	249 °C	249 °C	328 °C	328 °C	331 °C
Efficiency	75%	75,2%	78%	78%	74%
Inside connecting diameter	180 mm	180 mm	200 mm	200 mm	200 mm
Rated load (minimum 2 logs)	2.5 kg	2.5 kg	3.2 kg	3.2 kg	4.2 kg
Minimum combustion air intake cross-section	70 cm ² (except in case of a direct connection)	70 cm ² (except in case of a direct connection)	70 cm ² (except in case of a direct connection)	70 cm ² (except in case of a direct connection)	70 cm ² (except in case of a direct connection)
Minimum draft	10 Pa	10 Pa	11 Pa	11 Pa	15 Pa

Minimum distance required between the insert and adjacent combustible materials

	V60L	V60 corner	V80L	V80L DF	V100L
Side	1 m	1.5 m	1 m	1 m	1 m
Rear	1 m	1 m	1 m	1,5 m	1 m
Front	1.5 m	1.5 m	1.5 m	1.5 m	1.5 m
Other side		1m			

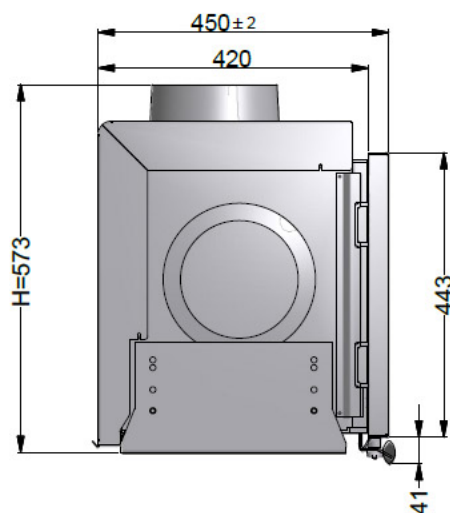
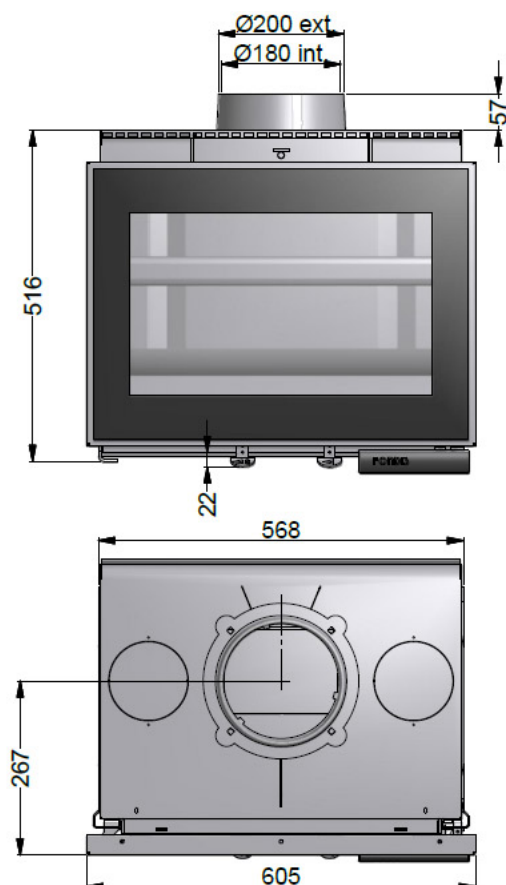


Dimensional variations may appear with respect to the theoretical dimensions. They are due to manufacturing-related reasons. This is due to the imperative manufacturing tolerances. In addition, considering the thermal expansion of the various materials, the appliance may undergo slight deformations when it is hot.

We reserve the right to make any modification we might deem useful, without notice.

The drawings of this manual are given for information only. They replace in no case the regulatory, normative or codificative reference texts.

Technical dimensional drawings



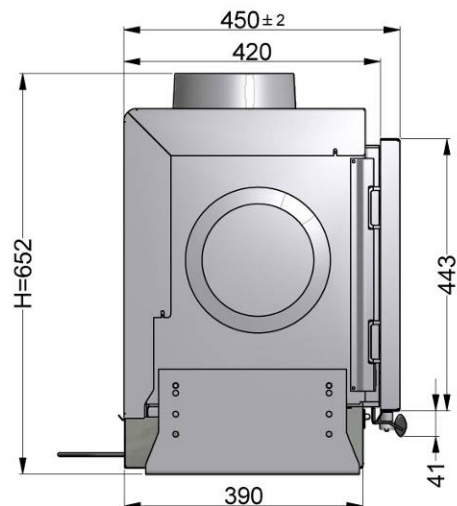
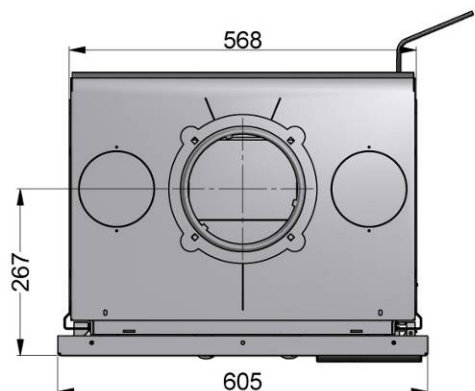
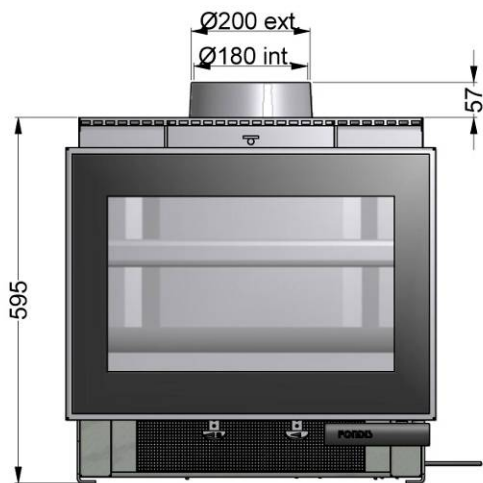
OVERALL DIMENSIONS: 605X573X450

FOOT REPRESENTED IN POSITION 1: $H=573$

POSITION 2: $H=605$

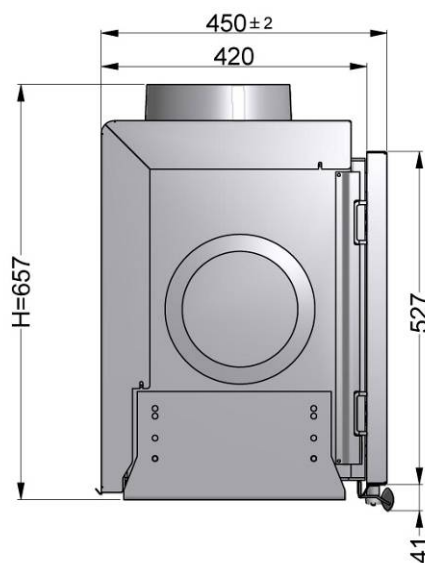
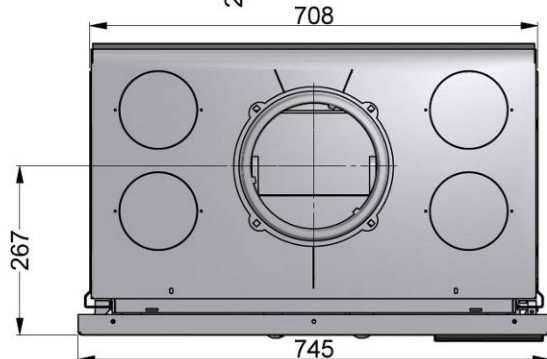
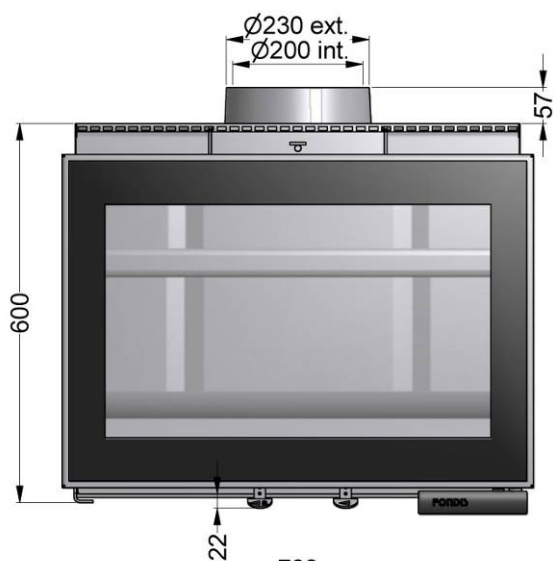
POSITION 3: $H=641$

V60 L



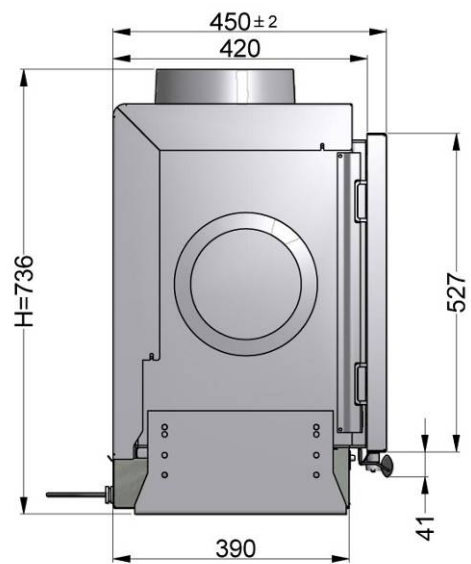
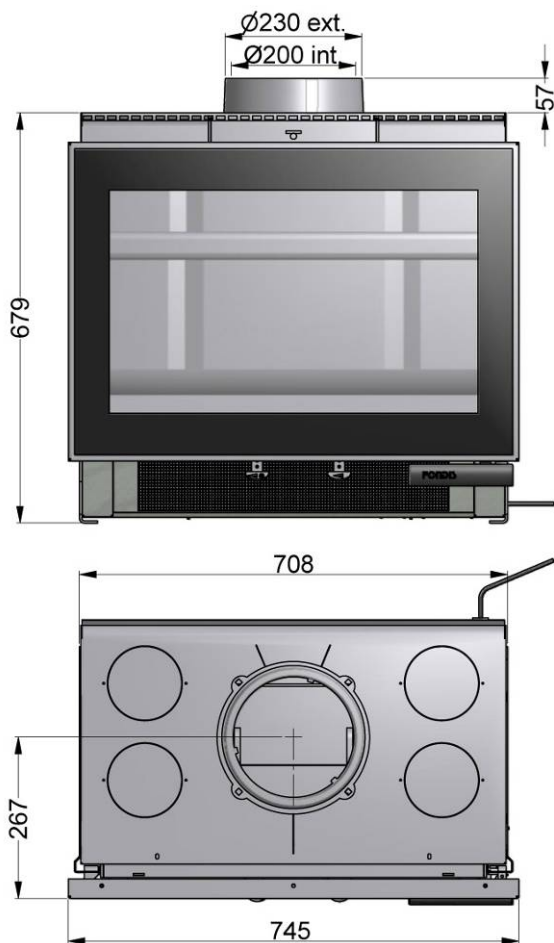
OVERALL DIMENSIONS: 605X652X450
MOUNT THE FOOT IN POSITION 4

V60 L with fan



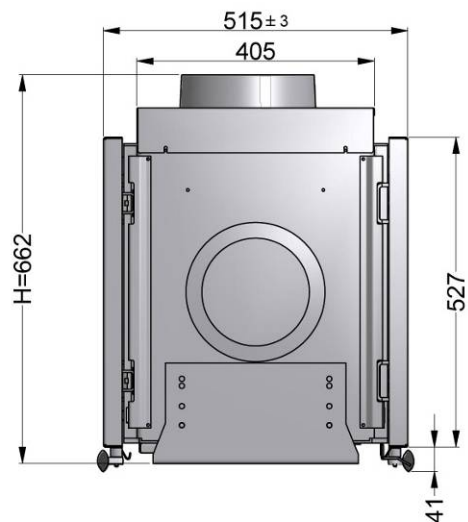
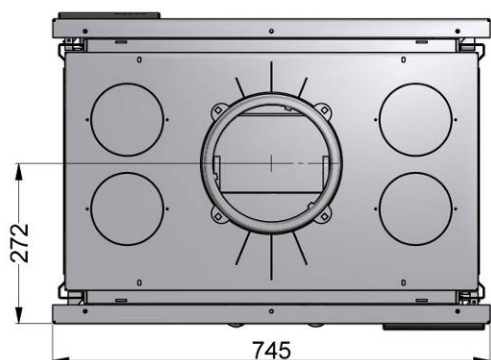
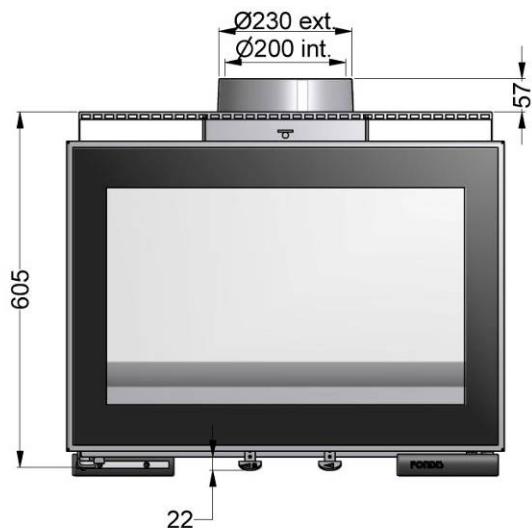
OVERALL DIMENSIONS: 745X657X450
FOOT REPRESENTED IN POSITION 1: H=657
POSITION 2: H=690
POSITION 3: H=725

V80 L



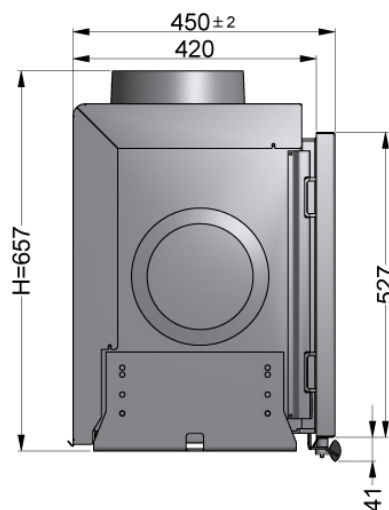
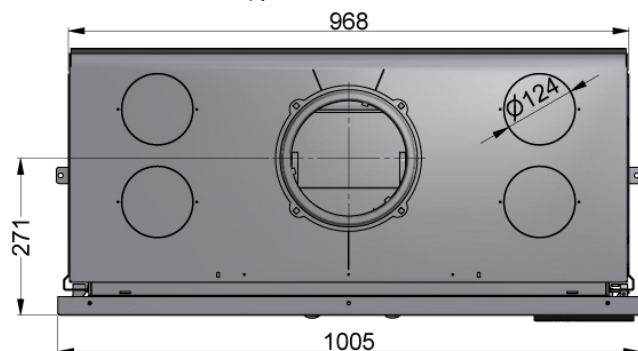
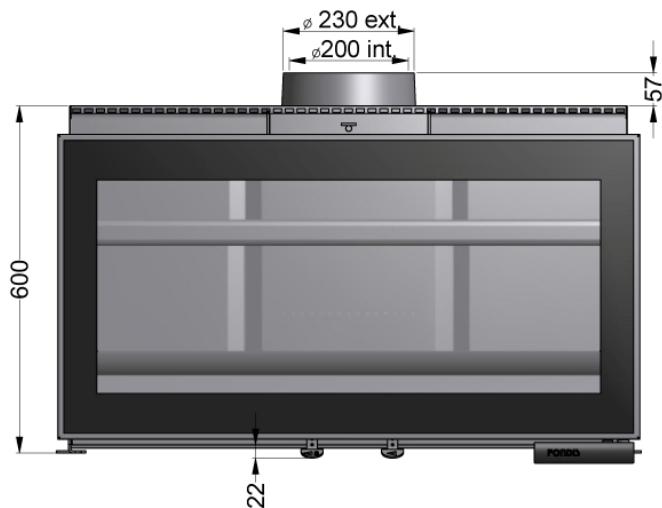
OVERALL DIMENSIONS: 745X736X450
MOUNT THE FOOT IN POSITION 4

V80 L with fan



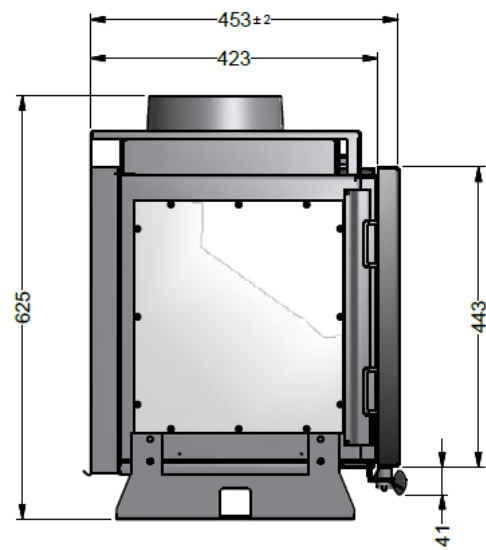
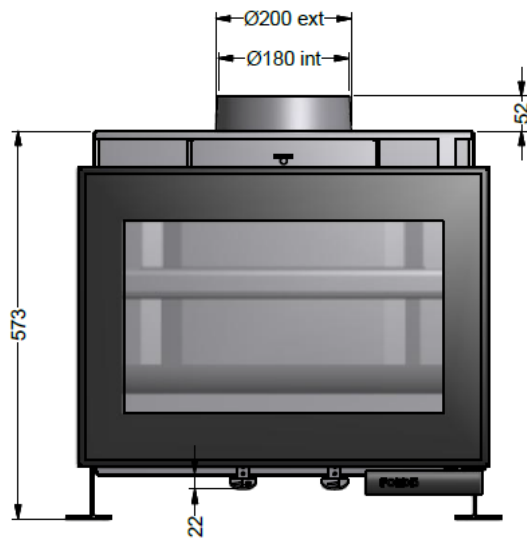
OVERALL DIMENSIONS: 745X662X515
 FOOT REPRESENTED IN POSITION 1: H=662
 POSITION 2: H=694
 POSITION 3: H=751

V80 LDF



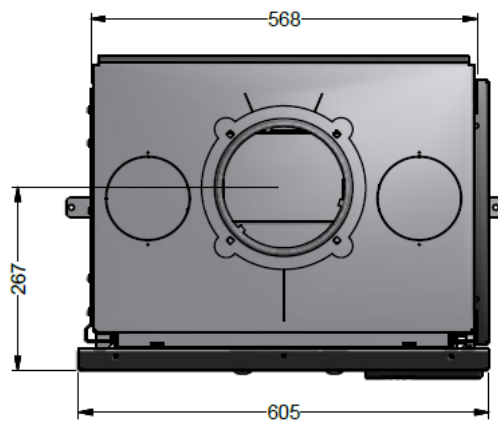
COTES HORS TOUT 1005X657X450
 PIED REPRESENTE EN POSITION 1: H=657
 POSITION 2 : H=690
 POSITION 3 : H=725

V100 L



OVERALL DIMENSIONS

ONLY ONE POSITION FOR THE FEET



V60L CORNER

1. INSTALLATION INSTRUCTIONS

1.1. RESPONSIBILITIES

1.1.1. RESPONSIBILITY OF THE INSTALLER

The person or company who installs the insert takes over the responsibility of this installation. She also takes over the responsibility for the existing sections (smoke flue ...). It is thus up to her to check the condition of the existing installation and to carry out the required modifications to make it compliant with the regulations in force.

1.1.2. COMPLIANCE WITH REGULATIONS

The instructions and advices of this guide complete the regulations in force. They do not replace them. We recommend you to read them. The smoke flue to which the appliance is to be attached must comply with the regulations in force or be the subject of a technical evaluation. Since this insert complies with the standard currently in force, it is prohibited to carry out any modifications of this appliance.

1.2. SMOKE FLUE

IMPORTANT: the flue must be defined by the installer. The installer is to ascertain the compatibility of the flue according to the regulations in force.

1.2.1. DIMENSIONS OF THE SMOKE FLUE

In compliance with standard EN 13384-1, all individual smoke flues must be the subject of a flue calculation under the responsibility of the installer, in order to justify the good operation of the installation.

	Inside nozzle Ø	Outside nozzle Ø	Minimum flue dimension	Minimum height (in m)		
				150 mm	180 mm	200 mm
V60 L /V60 corner	180 mm	200 mm	150 mm	3,4 m	2,4 m	2,4 m
V80 L and V80 LDF	200 mm	230 mm	150 mm	6,1 m	4,3 m	3,5 m
V100 L	200 mm	230 mm	150 mm	8,6 m	6 m	4,9 m

1.3. EXTERNAL AIR INLET

In compliance with the local regulations in force, the operation of an insert requires:

- **A combustion air supply to the appliance:**
 - o with a free cross-section of at least 70 cm² in case the air supply is not connected directly to the appliance
- **An external air supply may be connected directly to the appliance:**
 - o Use a duct with a minimum diameter of 80 mm



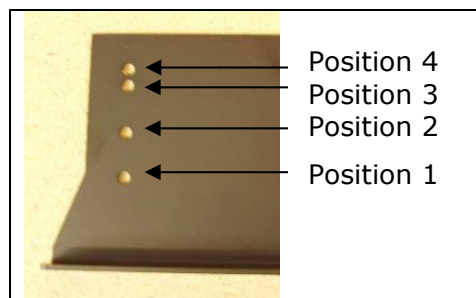
→ **OPTION:** a flange kit is available to connect the external air supply – Reference BF12053

1.4. INSTALLATION OF THE INSERT

It is important to prepare the external air supply before putting the insert in place and to adhere to our recommendations described below in order to guarantee an optimum safety for the user.

1.4.1. PUTTING THE INSERT IN PLACE - LEVELLING

The insert must be installed horizontal with the help of the standard feet.



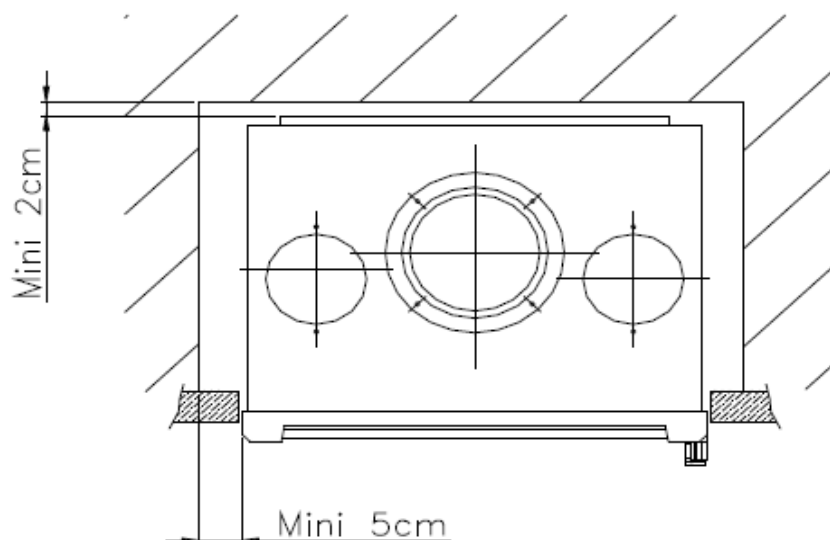
Positions	Height (H) in mm					
	V60 L		V80 L/V100		V80 LDF	
	With nozzle	Without nozzle	With nozzle	Without nozzle	With nozzle	Without nozzle
1	573	516	657	600	662	605
2	605	548	690	633	694	637
3	641	584	725	668	751	694
4 (for fan block)	652	595	736	679	/	/

→ **NOTE:** other feet equipped with specific adjusting screws allow an easy levelling of the appliance (setting range 25 mm, reference: BF12055).

1.4.2. HEAT INSULATION OF THE FIREPLACE

The appliance must be **sufficiently ventilated** in order not to overheat its surroundings. It is thus important to **respect the minimum dimensions of the fireplace**.

→ **CAUTION:** the dimensions of the inserts (refer to the dimensional drawings) do not include the necessary heat insulation. They are to be marked up by the thickness of the insulant. It is important to respect these distances between the insert and the fireplace for the convection and ventilation of the



insert.

1.4.3. FLOOR

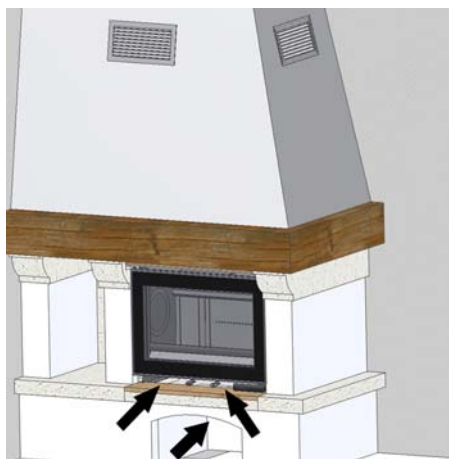
The fireplace must be mounted on floors with a suitable bearing capacity. If an existing construction does not allow for such an installation, appropriate methods (for example a load distribution plate) must be implemented.

1.5. VENTILATION OF THE HOOD

- The hood must obligatorily be ventilated by natural convection
- Provide for the ventilation with one or more air inlets under the insert
- Provide for hot air outlets in the upper part of the hood

→ Non-compliance with the directives will lead to the overheating of the appliance and its surroundings, as well as to damages, soiling, fume backdrafts...

1.5.1. CONVECTION AIR INLET

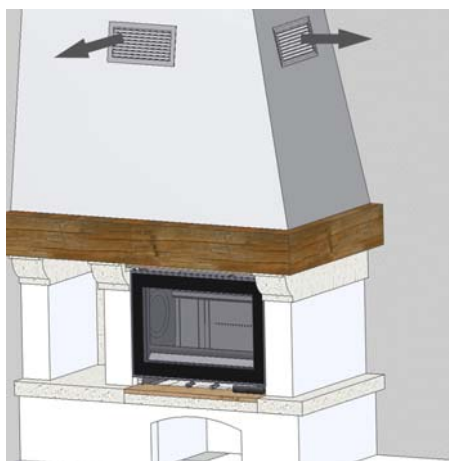


A convection air inlet must obligatorily be provided under the insert (even if the air supply passes through a wood niche) with:

- A **minimum** rated free cross-section of E cm² (actual air passage surface)

	Convection air inlet (E)
V60 L	460 cm ²
V80 L	590 cm ²
V80 LDF	590 cm ²
V100 L	700 cm ²
V60corner	460 cm ²

1.5.2. CONVECTION AIR OUTLET



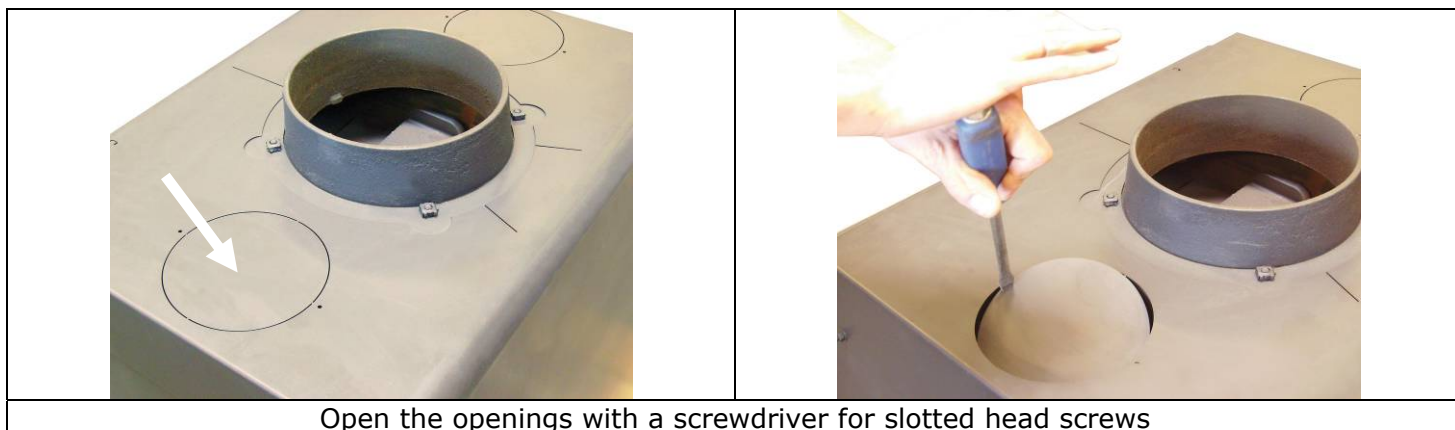
Imperatively:

- Provide one (or more) convection air outlet(s) with a **minimum** rated free cross-section of S cm²
- Locate them as high as possible with respect to the false ceiling and **at least** at 30 cm of the ceiling of the room
- Allow cleaning and maintenance of the insert passing through the grilles of the hot air outlet(s)

	Convection air outlet (S)
V60 L	600 cm ²
V80 L	700 cm ²
V80 LDF	700 cm ²
V60corner	600 cm ²

→ When using convection air outlets with a larger cross-section, the convection air inlet must have a rated cross-section equal to 0.77 times the cross-section of the convection air outlet.

Connecting ducts: aluminium ducts can be connected. To that purpose, open the pre-cut openings and install Ø125 mm collars available as an option (Reference: KITCOL)



1.6. INSULATION OF THE WALLS



At the location of the fireplace, remove all combustible or heat-degradable materials (wallpaper, tapestry, polystyrene lining...) from the walls in contact with the fireplace

The regulations in force in your country must be complied with, and the following results must be achieved as a minimum:

- Provide an insulation of the strut wall, the wood niche, the hood, the ceiling and possibly the side walls where the appliance is installed.
- Temperature of the ceiling, walls and floor $\leq 50^{\circ}\text{C}$ on the sides opposite to the fireplace.
- Recommended insulant: rock wool (or equivalent, according to the regulations) of a thickness ≥ 30 mm covered with a $40\text{ }\mu\text{m}$ aluminium sheet. The aluminium sheet is to be placed on the side of the heat source. This insulant must be able to sustain a continuous temperature of 600°C .

→ FONDIS accepts no responsibility if an insulant with characteristics different from those mentioned above is used.

1.6.1. INSULATION OF THE WALLS AND CEILING

The insulant must be placed in such a way that it is located outside the insertion limits of the insert indicated on the figure of paragraph 1.4.2

1.6.2. INSULATION OF THE WOOD NICHE

In case a wood niche is located underneath the insert:

- Provide a heat insulation of the sole plate: place 3 cm of insulant under the insert.



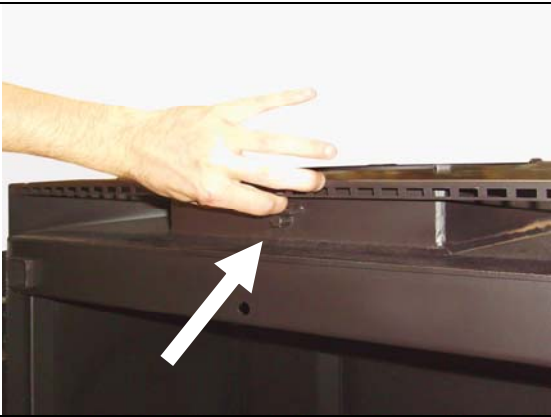



1.7. CONNECTION OF THE APPLIANCE



Connect the appliance in compliance with the national regulations in force. An inspection possibility must be provided for the connecting duct and for the smoke flue.

1.7.1. DISMOUNTING THE VALVE AND THE SMOKE BOX



No tool is required to dismount the smoke box.

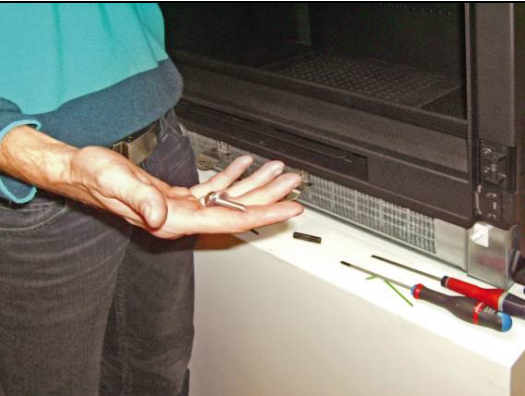

1 	2 
Remove the valve rod	Lift up the valve and move it backwards up to the notches provided for dismounting it
3 	4 
Remove the stop pin of the supporting shaft	Hold the smoke box with one hand
5 	6 
Remove the locking shaft with the other hand	Extract the smoke box from its housing



→ To mount the smoke box back in place, carry out the steps above in reverse order.

1.7.2. MOUNTING THE NOZZLE

The smoke box must be dismantled in order to mount/remove the nozzle.

 <p>10 mm box spanner</p>	
Required tooling	The screws, nuts and washers are in the ash drawer

<p>1</p> 	<p>2</p> 
Prepare the 4 screws and the 4 washers	Screws the 4 screws by some turns

<p>3</p> 	<p>4</p> 
Insert and turn the nozzle until the 4 screws are located at the bottom of the notches	

<p>5</p> 
Tighten the 4 screws

2. OPERATING INSTRUCTIONS

2.1. WARNINGS

All local and national regulations, as well as the European standards, must be complied with during the installation.

The operating guide is intended for the user. The user must read it carefully. The application of the advices for use will guarantee you the good operation and optimum safety of the appliance. As a general rule, do not place any heat-sensitive object, product or material close to the insert.

This insert is not planned to work with open door. The opening of the door must be reserved for the only phases of ignition, load and reloading.

CAUTION:

- Take care not to touch the visible outside surfaces of the appliance during operation and for several hours after the fire went out
- In case of a chimney fire: close completely the air inlets and call the fire brigade. Once the fire is extinguished, the installation must be checked by a specialist before any further use.

2.2. FIRST FIRES

The Fondis inserts are made with very high-quality cast iron and steel elements:

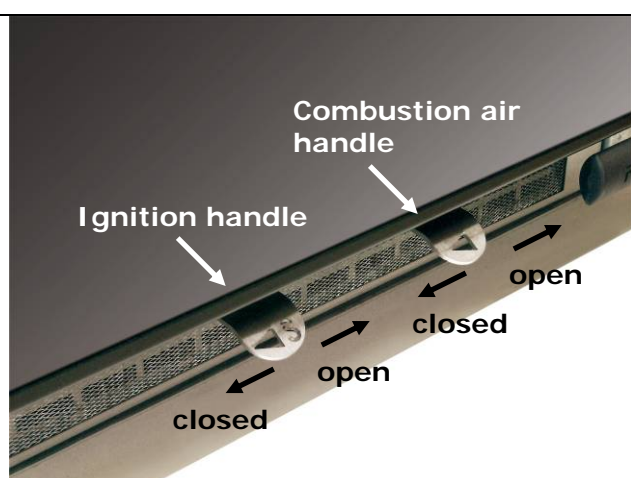
- They must be treated carefully
- We recommend to carry out some "running-in" fires, which will anneal the metal and make the cast iron more resistant

It is important, for the first fires:

- To increase the temperature of the appliance progressively
- To load the insert with small wood charges
- To keep the air intake low

NOTE: a smell and slight smoke, which will quickly disappear, will come out through the hot air outlets during these first fires. This is due to the stabilisation process of the paint (open the windows to vent the room for example). In case the smell and smoke persist, please contact your installer immediately.

2.3. OPERATION RATE SETTING



- The air shutters are located at the base of the appliance
- The operation rate of the insert is set with the combustion air handle (primary, secondary and tertiary air)
- Additional air supply to stimulate the ignition (ignition handle, to be used only during the ignition phase)

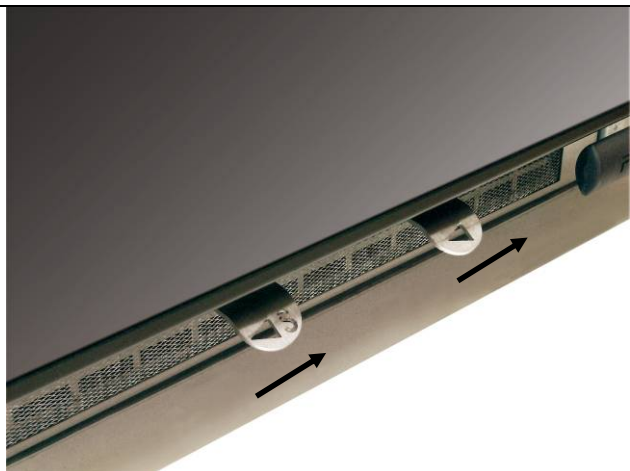



→ **HINT:** wait for all the wood to burn before you reduce progressively the air inlets.



When the insert is hot, never leave the door half open to achieve a higher operation rate than that for which the appliance has been designed.



2.4. LIGHTING THE INSERT


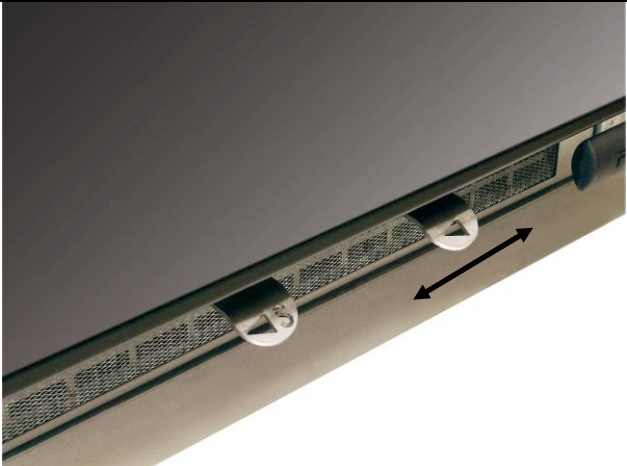
➔ To light the fire, refer to the sheet "How to light a fire in an environment-friendly way" enclosed with this manual (CAUTION: never use flammable products (alcohol...))

1 	2 
Open the ignition and primary air shutters (refer to 2.6 – Operation rate setting)	Light the fire and leave the door slightly open for about 5 minutes
3 	4 
Once the combustion is sufficiently strong, close the door	Let the combustion spread to the whole of the wood

2.5. LOADING

Once the whole wood is burning, load the insert.

5 	6 
---	--

Load the insert with 3/4 small or medium-sized logs	Close the door
<div data-bbox="70 219 98 259">7</div>  <div data-bbox="98 674 754 705">Close the ignition air (handle marked with an S)</div>	<div data-bbox="799 219 828 259">8</div>  <div data-bbox="804 674 1513 763">When the insert reached its temperature, adjust the combustion air shutter to obtain the desired operation rate</div>

→ **NOTE:**

- Complete closing of the air inlets leads to very slow operation (= reduced rate) :
 - o We advise against using the insert permanently in reduced mode
 - o This mode of operation leads to significant condensation and bistre in the appliance, the connection and the duct
- Operating the appliance at an excessive operation rate may lead to its premature degradation:
 - o Causes: excessive draft, excessive load of the appliance

2.6. RELOADING

- Open the air inlets
- Open slowly the door in 2 phases (to avoid fume backdrafts and the fall of embers)
- Put slowly the wood on the bed of embers
- Close the door

The reloading must not be made when the fire is intense. It is necessary to wait for the end of combustion. During the phases of load or reloading, fumes are possible.

A load of dry fire wood must never be excessive:

- The next reloading must not be made less than one hour after the previous one
- Optimum efficiency is reached with chopped dry wood (less than 20% humidity) of maximum diameter 10 to 15 cm.

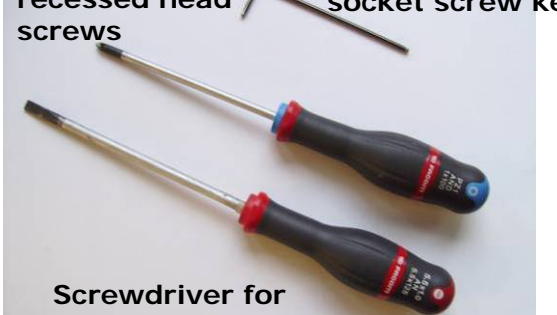
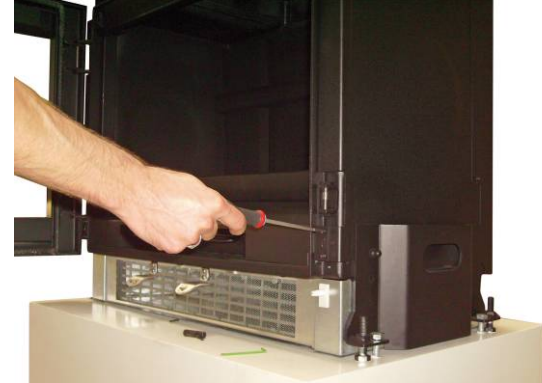






2.7. FUEL CHOICE

	V60 L/V60corner	V80 L and V80 LDF/V100L
Maximum wood humidity	20%	20%
Recommended fuel	50cm long wood logs	50cm long wood logs

2.8. MAINTENANCE

2.8.1. DISMOUNTING THE INTERNAL ELEMENTS

PRECAUTIONS: the appliance must be cold and all ashes must be removed from the inside before dismantling these elements (refer to 2.8.3)

<p>Screwdriver for recessed head screws</p> <p>2.5 mm hexagon socket screw key</p>  <p>Screwdriver for slotted head screws</p>	<p>1</p>  <p>Unscrew the screws of the 2 locking pins by ¼ turn</p>
<p>2</p>  <p>Unlock the 2 locking pins with a screwdriver</p>	<p>3</p>  <p>Rotate slightly the log stop to remove it</p>
<p>4</p>  <p>Remove the ash drawer</p>	<p>5</p>  <p>Remove the grate</p>
<p>6</p>  <p>Rotate slightly the air distributor to remove it</p>	<p>7</p>  <p>Remove the 2 sole plates</p>

8



Remove the ash cover (insert V60 corner only)

9



Take the 2 smoke exhaust ducts out of their notches to dismount them

10



Take the 2 smoke exhaust ducts out of their notches to dismount them

11



Remove the upper furnace plate (dismount first the smoke box – refer to 1.7.1)

12



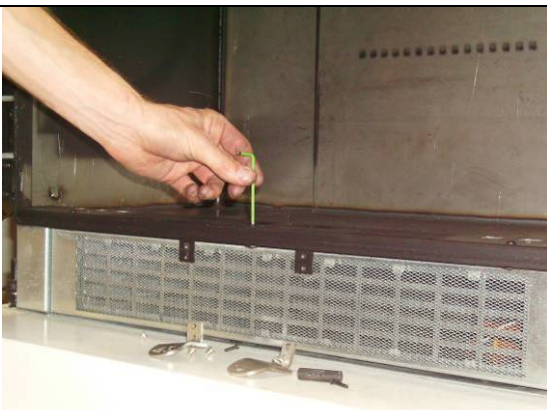
Remove the central lower furnace plate

13



Remove the 2 side furnace plates

14



Dismount the 2 handles

15



Unscrew the 3 screws holding the shutter housing

16



Remove the air shutters

17



CAUTION: do not forget the air valve

18



The appliance is dismantled, you can now clean it

19



Carefully clean the air inlet holes

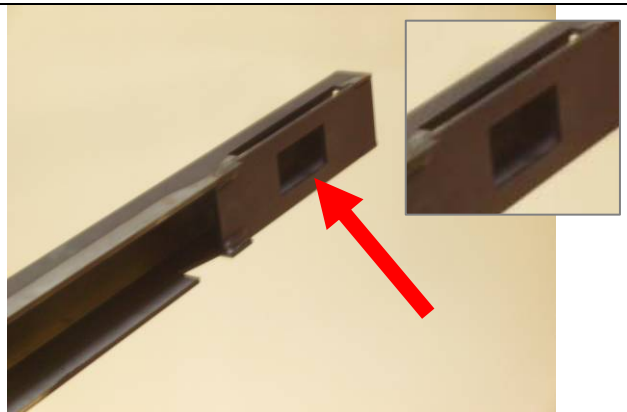
→ **NOTE:** some elements may be slightly different if your insert is a V80 L Double-sided model.
To remount the insert, carry out the steps above in reverse order:

1

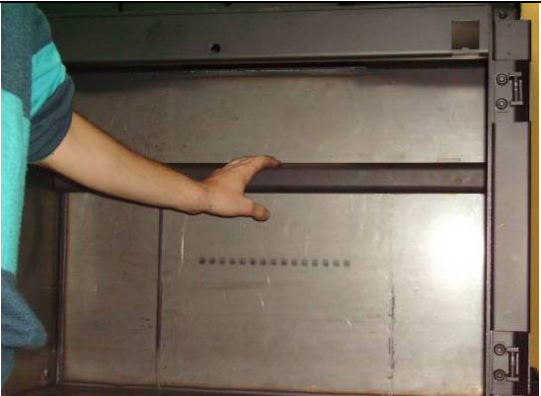


First re-mount the furnace plate holding profile **if it has been removed**

2



The hooks must penetrate in the rectangular holes





<div data-bbox="68 114 100 152" data-label="Text">3</div> 	<div data-bbox="1034 165 1283 412" data-label="Text">14</div>
<p>Make sure the furnace plate holding profile is correctly in place</p>	<p>Proceed re-mounting the elements in reverse order starting from step 14</p>

2.8.2. WINDOW PANE

- When lighting the fire: leave the door slightly opened for about 5 minutes in order to reduce the condensation on the window and the importance of the soot deposit
- Clean the glass pane using suitable products, without any limitation of frequency (only the internal side – the outside must be cleaned with water)

2.8.3. ASH

- Remove regularly the ash so as to avoid significant accumulation that would block the combustion air intake
- The ash drawer **must not be handled while it is hot**. It facilitates the evacuation of dust and ash, but not of residues larger than the passage holes of the grate
- The nature and quality of the wood influence the volume of ashes produced

<div data-bbox="68 1097 100 1135" data-label="Text">1</div> 	<div data-bbox="818 1097 850 1135" data-label="Text">2</div> 
<p>Collect and sieve the residues in the centre of the grate</p>	<p>Use a shovel or a suitable vacuum cleaner to remove the biggest residues</p>
<div data-bbox="68 1612 100 1650" data-label="Text">3</div> 	<div data-bbox="818 1612 850 1650" data-label="Text">4</div> 
<p>Remove and empty the ash drawer</p>	<p>Put the ash drawer back in place</p>

2.8.4. PAINT

Paint touch-ups can be made by the user (except for the window frame) with the Fondis high temperature paint (minimum 500°C) which can be purchased at your retailer.

2.8.5. SEALS

It is important to check once a year the tightness of the seals, which are an important element of safety. If necessary, replace them. They can be ordered at your retailer. These seals are found on the door frame and on the edge of the glass.

→ **NOTE:** deterioration of the tightness seals significantly reduces the performance of the appliance and may lead to glass breakage through hardening.

2.8.6. CHIMNEY SWEEPING – RESPECT THE REGULATIONS IN FORCE

We recommend to **sweep the chimney twice a year** (and at least once during the heating period; refer to your insurance contract or to your local health regulations) in order to:

- Ensure the free passage of smoke
- Reduce the risk of chimney fire

We also recommend you to check the tightness of the connecting elements and to make sure that all internal elements have been put back in place correctly (smoke box, etc.).

2.8.7. ANNUAL MAINTENANCE

Before any new heating season, the user must check:

- The good condition of the wearing parts (order the spare parts at your Fondis retailer stating the corresponding references, given on the parts list)
- The smoke flues and their connection
- The insert and its accessories (removable parts, assembly parts such as screws and nuts, seals,...)

At the beginning of the season and regularly during the heating period, the user must clean:

- The inside of the installation (hood, dressing), and the hot air circulation vents (grilles),
→ This avoids any risk of overheating, as well as the emission of air saturated with carbonised particles (source of soiling on the walls and the ceiling)
- The duct feeding fresh air (under the appliance) with its protection grille (exterior)



Safety and common sense impose the respect of the manufacturer's guidelines and maintenance suited to the usage, at the user's initiative.

Any sign of malfunction or abnormality must be reported to the installer for an immediate intervention. Under no circumstance should the installation be re-used before an intervention has been carried out to remove the possible defects.

3. GUARANTEE

LEGAL GUARANTEE

The contractual guarantee is, to the advantage of the buyer, not exclusive of the legal guarantee for hidden defects and faults which applies according to the conditions of articles 1641 ff of the French civil code.

CONTRACTUAL GUARANTEE

During the period of the contractual guarantee, FONDIS shall replace all demonstrably defective parts after the return of the incriminated part to the distributor. The guarantee of the manufacturer gives the right to a free supply of the parts that are necessary to repair the appliance after agreement of the after-sales service. The replacement or repair of parts cannot result in a prolongation of the guarantee period. Transport costs are borne by the user.

5-YEAR CONTRACTUAL GUARANTEE

The 5-year guarantee for the insert covers all defects of the sealing between the insert and the convection air due to cracks or tears. The Visioceram® glass pane treatment is also guaranteed for 5 years against all treatment defects, except for the breaking of the glass.

2-YEAR CONTRACTUAL GUARANTEE

Parts subject to wear, such as valve, valve rod, smoke box, heat exchanger, firedogs, sole plates are covered by a 2-year contractual guarantee.

CASES OF EXCLUSION FROM THE GUARANTEE

Our heating appliances are guaranteed against any manufacture or material fault, within the limits stated below:

- Modification(s) of the appliance. In case of appliances heating with wood: removal of all or part of the seals, modification of the air inlets,...
- Abnormal use of the appliance, such as an operation not compliant with the conditions given in the instructions. For appliances heating with wood: burning of waste, coal or treated wood.
- Damages due to negligence, improper maintenance, wrong or inappropriate use of the appliance.
- The following items are excluded from the guarantee: broken glass pane(s), seals, painting, surface treatment of the decorative parts.
- Installation not compliant with our recommendations.

CONDITIONS OF APPLICABILITY

The contractual guarantee applies to all appliances that were installed and operated in accordance with the "Installation and operation instructions" and to the regulation in force. It is dependent on the presentation of the purchase invoice or a copy thereof.

4. ANNEXES

4.1. OPERATING DIAGNOSTIC

DIAGNOSTIC	REMEDIES
DIFFICULT IGNITION	<ul style="list-style-type: none">→ Check the draft of the duct→ Check the quality of the wood→ Tighten the nut of the valve rod to reduce its length→ Open slightly the door for some minutes→ Clean the air inlets
SMOKE EMISSION WHEN OPENING THE DOOR	<ul style="list-style-type: none">→ Open a door or a window to check whether the external air supply is sufficient→ Check the draft of the flue (it must be tight and not clogged)
LACK OF HEATING	<ul style="list-style-type: none">→ Increase the load of the insert→ Use drier wood→ Increase the opening of the combustion air inlets→ Check the condition of the tightness seals of the door→ Make sure that the hot air circulation is not perturbed→ Tighten the nut of the valve rod to reduce its length→ Check the air inlet/outlet cross-sections (page 18)
IMPORTANT BISTRE DEPOSIT IN THE DUCT	<ul style="list-style-type: none">→ Use drier wood→ Increase the opening of the combustion air inlet to avoid a too low operation rate→ Check the insulation of the flue in the cold areas (attics, chimney outlet)→ Tighten the nut of the valve rod to reduce its length
UNCONTROLLABLE FIRE	<ul style="list-style-type: none">→ Make sure that the door is correctly closed→ Check the seal, replace it if necessary→ Check the adjustment of the 2 door lock hooks
THE GLASS BLACKENS VERY QUICKLY	<ul style="list-style-type: none">→ Increase the opening of the combustion air inlet or add wood to avoid a too low operation rate→ Use drier wood→ Make sure that the smoke exhaust ducts of the insert are not clogged (refer to the parts list: parts 31 and 33)

→ In case of doubt, please contact your installer.