

SPECIFICATIONS & MANUFACTURER INSTALLATION GUIDE



1. PRELIMINARY INSTALL INFORMATIONS

In relation to the installation and use of this appliance, the installer and the user should strictly adhere to local and national regulations as well as Australian & New Zealand Standards AS/NZS 2918:2001. They should also follow the instructions detailed in the Stuv 21 installation and user manual. Safe operation of the fireplace is directly dependent thereon. The liability of the manufacturer can neither be retained nor assured following failure of installation or incorrect use which is not compliant with AS/NZS 2918:2001.

As each installation is different, a qualified and licensed trades professional should take all required preliminary precautions depending on the technical elements inherent to each job.

In-observance of the assembly instructions in conjunction with AS/NZS 2918:2001 entails the liability of the person who carries it out.

Fireplace structure and finishes shall be to your own design providing the exact and minimum dimensions are maintained.

The floor must have adequate strength to support the fireplace. N.B. Timber floors may require additional reinforcing.

Construction of the fireplace structure from floor to ceiling shall be: solid brick (110mm minimum), Silca 250KM board (40mm), stone (100mm minimum) or Hebel aerated blocks (150mm minimum).

When installed on a combustible floor surface the Stuv 21 firebox must be fitted on a raised platform (height 150mm minimum) constructed of non combustible materials.

As a result of faulty assembly, use of parts or additional components not supplied by the manufacturer/distributor, and/or modifying of the appliance or components will result in inferior or unsafe operation. Should this occur the manufacturer/distributor bears no liability, and will result in a null and void product warranty.



SINGLE SIDED MODELS WITH ZERO CLEARANCE CASING - DIMENSIONS (mm)



SINGLE SIDED MODELS WITH ZERO CLEARANCE CASING - DIMENSIONS (mm)

	STUV 21 / 95 SF	STUV 21 / 105 SF	STUV 21 / 125 SF	STUV 21 / 135 SF
A	699	610	679	610
В	210	165	200	162
C	178	171	200	171
D	1108	1210	1410	1508
E	556	603	705	756
F	184	203	203	203
G	762	800	1000	1102
Н	298	279	298	283
	1613	1426	1499	1426
J	1429	1241	1318	1241
K	629	479	616	479
L	886	984	1181	1299
М	619	378	540	403
N	772	870	1070	1184
0	700	752		
Р	378	340	368	308
Q	464	511	610	660
R	327	344	400	419
S	930	743	822	743
Т	152	152	152	152
U	48	48	48	48
۷	394	302	371	308
W	397	302	371	308
Х	397	440	540	591
Y	171	171	171	171

SINGLE SIDED MODELS - OTHER DETAILS

	STUV 21 / 95 SF	STUV 21 / 105 SF	STUV 21 / 125 SF	STUV 21 / 135 SF
MATERIAL	Steel, ceramic bricks, glass, galvanised steel , rockwool			
OUTPUT KW	10kw to 18kw	7kw to 19kw	11kw to 23kw	11kw to 21kw
HEATING CAPACITY	120m ²	125m ²	145m ²	130m²
MINIMUM FLUE HEIGHT	4.5m	4.5m	4.5m	4.5m
WEIGHT (excluding zero clearance casing)	292kg	224kg	305kg	286kg
MAX LOG SIZE	60cm	80cm	100cm	100cm
ACTIVE FLUE SIZE	10"	8"	10"	10"

DOUBLE SIDED MODELS WITH ZERO CLEARANCE CASING - DIMENSIONS (mm)



DOUBLE SIDED MODELS WITH ZERO CLEARANCE CASING- DIMENSIONS (mm)

	STUV 21 / 95 DF	STUV 21 / 125 DF
A	1108	1410
В	556	705
C	184	203
D	762	1000
E	752	752
F	248	248
G	175	200
H	337	337
I	930	822
J	149	149
K	41	41
L	1429	1470
М	1613	1499
N	629	616
0	772	1070
Р	619	540

DOUBLE SIDED MODELS - OTHER DETAILS

	STUV 21 / 95 DF	STUV 21 / 125 DF
MATERIAL	Steel, ceramic bricks, glass, galvanised steel , rockwool	Steel, ceramic bricks, glass, galvanised steel , rockwool
OUTPUT KW	12kw to 27kw	14kw to 27kw
HEATING CAPACITY	165m²	165m²
MINIMUM FLUE HEIGHT	4.5m	4.5m
WEIGHT (excluding zero clearance casing)	297kg	310kg
MAX LOG SIZE	70cm	100cm
ACTIVE FLUE SIZE	12"	12"

SINGLE SIDED MODELS WITHOUT CLEARANCE CASING - DIMENSIONS (mm)







SINGLE SIDED MODELS WITHOUT ZERO CLEARANCE CASING - DIMENSIONS (mm)

	STUV 21 / 95 SF	STUV 21 / 105 SF	STUV 21 / 125 SF	STUV 21 / 135 SF
A	950	1050	1250	1350
В	1225	1040	1115	1040
C	590	496	563	500
D	1455		1295	
E	770	870	1070	1170
F	615	400	535	400

DOUBLE SIDED MODELS WITHOUT CLEARANCE CASING - DIMENSIONS (mm)







SINGLE SIDED MODELS WITHOUT ZERO CLEARANCE CASING - DIMENSIONS (mm)

	STUV 21 / 95 DF	STUV 21 / 125 DF
A	950	1250
В	1225	1115
C	670	670
D	1455	1295
E	770	1070
F	615	535

EXPLODED DIAGRAM - SINGLE SIDED MODEL (WITH ZERO CLEARANCE CASING)



When installed on a floor made from combustible material, the appliance and enclosure must sit on a raised platform consisting of a non-combustible framework, no less than 150mm high with a solid 18mm non-combustible top (minimum). The raised platform must be at least the same width and depth of the appliance (including the zero clearance box). The fireplace height can then be adjusted as desired using the adjustable feet. (Fig A)

When installed on a non combustible floor the fireplace can be installed directly onto the floor and adjusted in height using the adjustable feet. (Fig B)

In situations with combustible walls and when using the insulating casing the sides and rear wall of the enclosure shall be no closer than 150mm to the appliance. (Fig A, B, C & D)

In situations with non combustible walls (brickwork or Silca boards) the sides and rear wall of the enclosure shall be no closer than 50mm to the appliance. There is no need to use the insulating casing in such situations. (Fig E, F, G & H)

Only non-combustible material shall be used on the front wall of the enclosure.

All internal framework above the appliance shall be made of non-combustible material.

When using the insulating casing a 40mm thick Silca board matching the width and depth of the appliance must be fitted to the top of the appliance to stop heat transfer onto the ceiling and walls. (Fig A & B)

The cavity above the appliance must not be capped and must have a minimum of 2500cm2 of venting. (Fig C & D)

The appliance must be fitted with the specially designed Stuv 21 four casing flue kit.

The appliance must be fitted with a minimum of two heat transfer ducts and two room air inlet ducts.

In situations with non combustible walls and when the insulating casing is not used a cavity lid made using 40mm Silca board is required to sit 600mm above the appliance and no less than 300mm below the combustible ceiling. (Fig E, F, G & H)

To conform with the requirement of the joint AS/NZS 2918:2001 the appliance must be fitted with a minimum two heat transfer ducts and two room air inlet ducts.

CLEARANCES TO COMBUSTIBLES (USING THE INSULATING CASING)

Figure A: front view (combustible floor)



Figure B: front view (non combustible floor)



CLEARANCES TO COMBUSTIBLES (USING THE ZERO CLEARANCE CASING)

Figure C: side and top views (combustible floor)



Figure D: side and top views (non combustible floor)





CLEARANCES TO MASONRY (NO ZERO CLEARANCE CASING)

Figure E: front view



Figure F: side view



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CLEARANCES TO SILICATE BOARD (NO ZERO CLEARANCE CASING)

Figure G: front view



Figure H: side view



COMBUSTIBLE SHELF



4. CONVECTION

Convection air inlets are through single wall flexible ducts.

Convection air outlets must be through insulated double wall ducts.

It is important that the air flow is continuous. It is therefore forbidden to remove the air from a room and send it to another airtight room.

Use a minimum of 2 fresh air inlets and 2 hot air outlets.

The distance between the ceiling and the center of the hot convection grill must be at least 35cm.

The horizontal distance between the hot air convection grill and the appliance cannot be greater than 3m.

The vertival distance between the hot air convection grill and the appliance is not limited.

See fig I and J.



4. CONVECTION

HOT AIR OUTLETS



CONVECTION AIR CIRCULATION

The convection air never comes into contact with the fire. The convection is an independant air channel. The air circulates around the combustion chamber, gets hot and goes out through convection grates in the same room or in other rooms.



5. COMBUSTION

When operating with an open fire, the Stuv 21 consumes a large amount of air. Therefore, we recommend providing an external air supply, although this is not mandatory.

A sufficient air inlet must be created under the stove, at the front. When not using the air intake box with connected duct, the base of the fire must be supplied with fresh air. The fresh air must come from a ventilated empty space, a ventilated room or from outside the house (mandatory for passive/air tight buildings). ONLY DUCT THE FRESH AIR INLET TO THE APLLIANCE USING THE INTAKE BOX.

The air intake, which varies depending on the model, should ideally be located beneath the front of the unit and incorporate a shut-off register (fig a).

Ideally the fresh air inlet would be fitted with a closure valve (fig e and f) to prevent the room from becoming cold when the appliance is not in use. It should ideally be located as close as possible to the outside wall and controlled from inside the room.





e. EXTERNAL COMBUSTION AIR INTAKE



d. COMBUSTION AIR INTAKE BOX



5. COMBUSTION

COMBUSTION AIR INLET

	INLET DIAMETER
STUV 21 / 95 SF	6 inches
STUV 21 / 105 SF	6 inches
STUV 21 / 125 SF	6 inches
STUV 21 / 135 SF	6 inches
STUV 21 / 95 DF	6 inches
STUV 21 / 125 DF	6 inches







EXTERNAL COMBUSTION AIR (INTAKE BOX)

EXTERNAL COMBUSTION AIR (NO INTAKE BOX)

INTERNAL COMBUSTION AIR (INTAKE BOX)

6. TEST REPORT

TEST REPORT NO ASFT18044 (PRELIMINARY REPORT)

TESTING LABORATORY:	Australian Solid Fuel Testing
MANUFACTURER:	Stuv
MODEL:	Stuv 21
WORK REQUESTED:	Compliance with AS/NZS2918:2001 Standards
ISSUE DATE:	4/05/2018
INVESTIGATING OFFICER:	Steve Marland

CONCLUSION:

The Stuv 21 Inbuilt appliance installed with a triple skin flue system, conforms to the requirements of Australian/New Zealand Standard 2918:2001, with respect to floor, side wall and rear wall surface temperatures, when tested in the test position shown in p11, p14 and 15p of this report in accordance with Appendix B of AS/NZS2918;2001.

7. OPERATION

What you should burn

- Untreated, air dried hardwood
- Split logs with a humidity content of less than 20%

Do not burn

- Trash
- Painted plastic
- Coated or preservative treated wood
- Waste or black coal
- Inflammable liquids
- Fire gels
- Moist wood with a residual humidity content of more than 20% (this may cause soothing of the chimney).

WARNING:

- Do not use flammable liquids or aerosols to start or rekindle the fire.
- Do not use flammable liquids or aerosols in the vicinity of the fireplace when operating.
- Do not store fuel within prescribed installation clearance distances.
- The use of some types of preservative-treated woods as a fuel can be hazardous.
- Misuse may lead to unhealthy and environmentally harmful emissions and will void any warranty or guarantee.
- Burning only seasoned hardwood helps to protect the environment and lower emissions.