

SOPHEL COMBINATION BOILER

INSTALLATION CLEARANCES & WARNING

KEEP THESE INSTRUCTIONS WITH YOUR INSTRUCCION BOOKLET FOR FUTURE REFERENCE

WARNING: The appliance and flue must be installed in accordance with AS/NZS 2918, and the appropriate requirements of the local building regulatory authority. Mixing of appliance or flue system components from different sources or modifying the dimensional specification of components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance.

NOTE: SEE BELOW FOR THE MINIMUM SAFETY CLEARANCE REQUIRED FOR THE HEARTH, BOILER AND FLUE.

APPLIANCE: *Sophel* Combination Hydronic Heating Boiler

RE: AS/NZS 2918

The *Sophel* combustion chamber is surrounded by water, i.e. it is one large water jacket, with the exception of the door at the front, the top flue spigot assemble and the ash pan area of the unit. As with hydronic radiators that attach directly to the walls, the *Sophel* water jacket exterior can not exceed 100°C (boiling point of water at sea level). Furthermore the boiler in most installations is insulated to retain heat (this installation may be removed to deliver more radiant heat into the cavity if required without affecting the clearances below).

CLEARANCES:

***SOPHEL* BOILER**

WITH STANDARD FLUE KIT AS SET OUT BELOW

- REAR – 150mm from the back of the boiler to a combustible wall.
- SIDE – 100mm from the side of the boiler to a combustible wall.
- FRONT and 100mm RETURN ON BOTH SIDES – must be constructed from non-combustible materials

HEARTH

- Solid masonry construction such as Hebel block, a standard house brick
- OR**
- 25mm thick compressed fibre cement sheet with a thermal conductivity of 0.25W/m degrees K. with a 25mm air gap and extending 600mm in front of the boiler.

FLUE SYSTEM

All flues must comply with AS 2918:2001

The *Sophel* uses 8" (200mm) active stainless steel flue kit with the following options:

INBUILT

1. Full masonry enclosure including exterior masonry chimney
Minimum single skin 8" stainless steel flue with approved chimney cap and cowl.

*No combustible material should be in contact with the exterior of the masonry enclosure/chimney from above the level of the top of the *Sophel*.*

2. Masonry enclosure terminating at or below ceiling level or within the ceiling cavity
Minimum standard triple skin flue kit with active pipe within the masonry enclosure and triple skin flue above the enclosure

*No combustible material should be in contact with the exterior of the masonry enclosure from above the level of the top of the *Sophel*.*

3. Combustible enclosure on sides or rear **with non-combustible front and return.**
Minimum triple skin (i.e. double cased) flue with 25mm air gap to any combustible material from the top of the *Sophel* to the cowl.

FREE STANDING UNIT – SINGLE SIDED

1. Decorative mesh with solid back triple skin flue kit.

???????????????? Clearances to be confirmed

FREE STANDING UNIT - SOPHEL DUO – TWO-SIDED

1. Standard non-mesh flue kit with exposed active pipe within the room and triple skin flue from a minimum of 150mm below the ceiling (min. 300mm on raked ceilings) through to the cowl.
2. Decorative mesh with sold back triple skin flue kit.

???????????????? Clearances to be confirmed

A vertical discharge cowl should be used in all installations with draught problems.

WATER CONNECTIONS

WARNING: DO NOT CONNECT DIRECTLY TO AN UN-VENTED HOT WATER SYSTEM. INSTALL IN ACCORDANCE WITH AS 3500.4.1 OR NZS 4603 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE, OR CODES.

.....
WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING IS CONSIDERED AS BREACHING THE ABOVE MENTIONED AND POSSIBLE OTHER AUSTRALIAN AND NEW ZEALAND STANDARDS.