

RECEIPT

97 Links Avenue
Mount Maunganui 3116

Invoice Date
20 Jun 2012

Invoice Number
B37195*

Reference
B13/0163

GST Number
101-793-567

HEAD OFFICE

Location: Unit B1, Nell Place Business Park
7 - 11 Nell Place, Whangarei, 0110
Postal: PO Box 6011, Otaika, Whangarei 0147
Phone: 09 438 8958 **Fax:** 09 438 8957
Email: info@smartenergysolutions.co.nz
Website: www.smartenergysolutions.co.nz

Phone: 07 5742810

Description	Quantity	Unit Price	Amount
Novatherm Polyester Ceiling Blanket R3.2(sqm)	81.00	22.95	1,858.95
Insulpro Enviroblanket Underfloor Blanket R1.8 (sqm)	81.00	20.95	1,696.95
EECA Subsidy - 33% off the cost of an insulation retrofit of core products purchased. Must not exceed \$1,300 including GST.	1.00	(1,173.44)	(1,173.44)
SALESPERSON: Peter Bartlett	1.00	0.00	0.00
If you would like to discuss your invoice please contact Rachel Jackson at the Tauranga office on ph: 07 213 0774 or email rachael@smartenergysolutions.co.nz in the first instance.	1.00	0.00	0.00
Deposit received	1.00	(238.46)	(238.46)
Total			2,144.00
Includes GST 15%			279.65

Payment received with thanks.
Receipt for your records. Thank you for your business.


Smart Energy Solutions

Quality Assurance Certificate

Prepared for:

97 Links Avenue
Mount Maunganui 3116

Date on installation: 16 July 2012

This certificate guarantees the quality of the workmanship undertaken during the installation of your home insulation products for a minimum period of one year from the date of installation.

Please keep this certificate in a safe place and do not hesitate to contact us if you have any concerns.

Signed:



Tony Snushall, Director, Smart Energy Solutions Limited



HOME > BUSINESS > VEHICLE

www.smartenergysolutions.co.nz

info@smartenergysolutions.co.nz



Conditions apply



**Insulpro
Manufacturing Ltd**

PO Box 91 660
Auckland Mail Centre
Auckland 1142
New Zealand

Tel: 09 273 2308
Fax: 09 273 2309
Email:
enquiries@insulpro.co.nz



50 year guarantee



The New Zealand building code specifies that all materials must have an effective lifespan of at least 50 years. So we offer a 50-year performance guarantee on both **NOVAtherm** and **NOVAhush**.

We guarantee that so long as the insulation is installed correctly, and remains adequately protected, it will perform as well as when new, at any stage up to the full 50 years.

Glues break down and are the weak point of many kinds of thermal and acoustic insulation. **NOVAtherm** and **NOVAhush** are heat welded, and contain no glues.

Quality matters - **NOVAtherm** is BRANZ appraised. BRANZ has concluded that it fully complies with the Building Code.

Even more demanding, we run internal quality control checks and post production controls. The [BRANZ appraisals](#) endorse Nova's quality controls.

For insulation R ratings, tests comply with AS/NZS 4859.1:2002, which in retrofit situations does not exceed the requirements of the Building Code.

**This is to certify that Novatherm Polyester Thermal Insulation
product/s have been installed:**

Installation Address:	<u>97 Links Avenue</u>
Date of Installation:	<u>16 July 2012</u>
Installed by:	Smart Energy Solutions Ltd
Product/s Installed:	Ceiling Blanket R3.2
Location(s):	_____





NOVA therm

NOVAtherm

50 year guarantee



Insulpro Manufacturing Ltd

PO Box 91 660
Auckland Mail Centre
Auckland 1142
New Zealand

Tel: 09 273 2308
Fax: 09 273 2309
Email:
enquiries@insulpro.co.nz

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Installation Address:	<u>97 Links Avenue</u>
Date of Installation:	<u>16 July 2012</u>
Installed by:	<u>Smart Energy Solutions Ltd</u>
Product/s Installed:	<u>Underfloor Enviroblanket R1.8</u>
Location(s):	<u></u>





29 October 2012

97 Links Avenue
Mount Maunganui 3116

HEAD OFFICE

Location: Unit B1, Nell Place Business Park
7 - 11 Nell Place, Whangarei, 0110
Postal: PO Box 6011, Otaika, Whangarei 0147
Phone: 09 438 8958 **Fax:** 09 438 8957
Email: info@smartenergysolutions.co.nz
Website: www.smartenergysolutions.co.nz

Dear Louise

Thank you for choosing Smart Energy Solutions as your **ENERGYWISE™ Warm Up New Zealand: Heat Smart** supplier.

We hope you're enjoying your warmer, drier and healthier home.

For your records we have enclosed your Smart Energy Solutions Quality Assurance Certificate and manufacturer guarantees for the insulation products you had installed.

As a growing business, we are very grateful for the support of local homeowners. Thank you for giving us the opportunity to make a real difference in your home and for your family.

Yours sincerely

A handwritten signature in black ink, appearing to read "Tony Snushall", written over a horizontal line.

Tony Snushall
Managing Director
Smart Energy Solutions Limited

Julie Kerslake

613/0165

Smart Energy Solutions Sales Order

Property Address: 97 Links Rd

Order #:

0037195

Insulation	Product description / specs	Qty	\$/Unit	Cost (incl GST)
Install ceiling insulation	Naugherm 3-2	81	22.95	1858.95
Additional insulation				
Install underfloor insulation	Insulpro 1-8	81	20.95	1696.95
Install ground vapour barrier				
Install hotwater cyl. wrap/ lagging				
Remedial work (subsidised)				
Sub total, before subsidy				\$ 3555.90
EECA Insulation Subsidy	33% / 60% (please circle)			-\$ 1213.44
Other Subsidy	Cozy Kiwi Fund / Other			-\$
<input type="checkbox"/> CSC documents completed				Sub total, after subsidy (a) \$ 2382.46
Other services required (non-subsidised)	Labour		\$45/hour	
Additional services				
Sub total, not subsidised (b) \$				
Clean Heat	Product description / specs	Qty	\$/Unit	Cost (incl GST)
Heat Pump				
Other Clean Heat Device				
Other services required				
Sub total, before subsidy				\$
EECA Clean Heat Subsidy	\$500 / \$1,200 (please circle)			-\$
Sub total, after subsidy (c) \$				
Decommission Fireplace	Labour			
Sub total, before subsidy				\$
Decommission Fireplace Subsidy	\$500 / \$800 (please circle)			-\$
Sub total, after subsidy (d) \$				
Ventilation	Product description / specs	Qty	\$/Unit	Cost (incl GST)
Air IQ Unit	2bdm 3 4 5 6 (please circle)			
Heat Transfer	Yes / No (please circle)			
Fresh Air	Yes / No (please circle)			
Sub total (e) \$				
Total (a+b+c+d+e)				\$ 2382.46
Less Customer Deposit				-\$ 238.46
Total Payable (after deposit)				\$ 2144.00

Important things to note:

- Credit Card transactions incur a 2% charge.
- Deposits and balances can be paid into Westpac 030498 0747071 000, please quote your SURNAME as a reference.
- To accept our quote, please email info@smartenergysolutions.co.nz or call us on 0800 888 766.

Assessed by (SES): Peter Bartlett Date: 19-6-12

I accept the above order, have read and understood the Terms & Conditions overleaf, and wish to proceed with the following payment option (please tick):

☐ Cash/Cheque ☒ Direct Credit ☐ Credit Card # _____ Exp: _____

☐ Finance ☐ Council Rates Programme

Name (please print): house Pike Signature: P. J. Pike

Acceptance received via Verbal / Written notice on 19-6-12 Signed: P. Bartlett

(please circle) (date) (Smart Energy Solutions)



HOME > BUSINESS > VEHICLE

www.smartenergysolutions.co.nz

info@smartenergysolutions.co.nz



Conditions apply

WHITE - OFFICE; YELLOW - CUSTOMER; PINK - ASSESSOR

TAX INVOICE



97 Links Avenue
Mount Maunganui 3116

Invoice Date
20 Jun 2012

Invoice Number
B37195

Due Date:
31 Jul 2012

Reference
B13/0163

GST Number
101-793-567

HEAD OFFICE

PO Box 6011

Otaika

Whangarei 0147

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Phone: 07 5742810

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Deposit: 19.6.2012 \$238.46 L 91602455 R 94023
First payment 23/7/2012 \$1000.00 L 93791395 R 321281
Second payment 24/7/2012 \$1000.00 L 93867275 R 41445
Final payment 25/7/2012 \$144.00 L 93951073 R 53924

We appreciate your business.

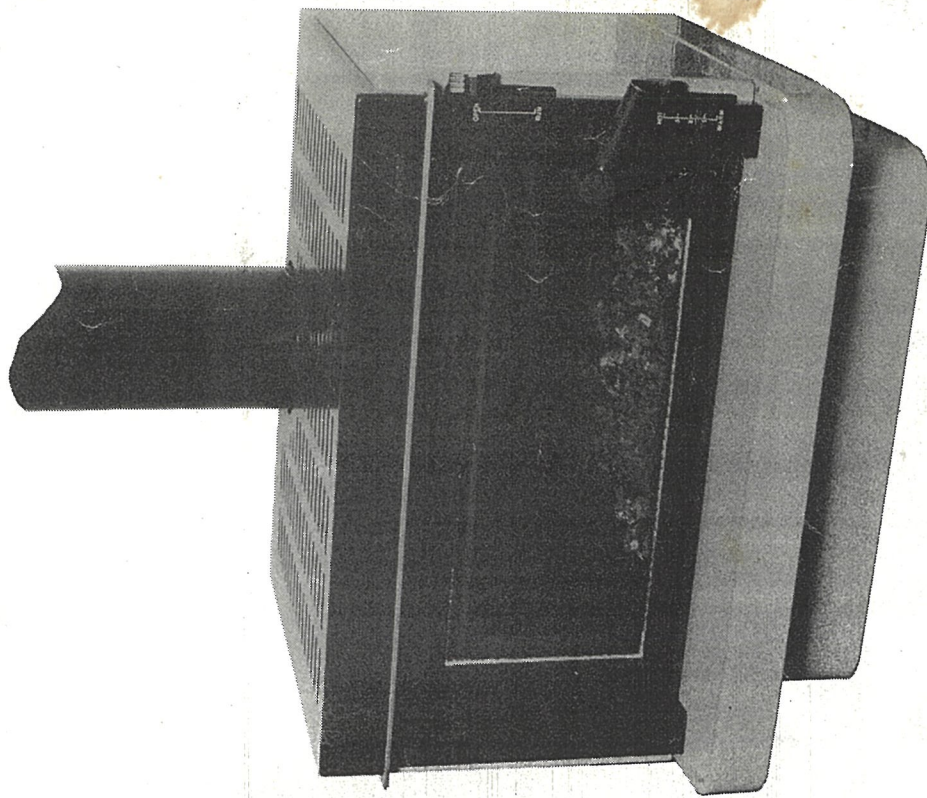
Product remains the property of Smart Energy Solutions until paid in full.

INVOICES: Payment is due 10 days after date of invoice (**Due Date: 31 Jul 2012**). Interest will be chargeable at 2% per month on overdue amounts. Any costs of collection of overdue monies will be payable by the customer.

INVOICE PAYMENT OPTIONS: Louise Pike Inv: B37195 Due: 2,144.00

1. Direct Credit - Account Name: Smart Energy Solutions Account Number: Westpac 03 0498 0747071 00
2. Cheque Payable to Smart Energy Solutions, PO Box 6011, Otaika, Whangarei 0147

'PANORAMA' WOOD FIRE INSTALLATION INSTRUCTIONS



The PANORAMA Wood Fire is manufactured by
Mason and Porter Ltd, 1-37 Mt Wellington
Highway, P.O. Box 14-349 Panmure, Auckland.

Masport[®]

C84584

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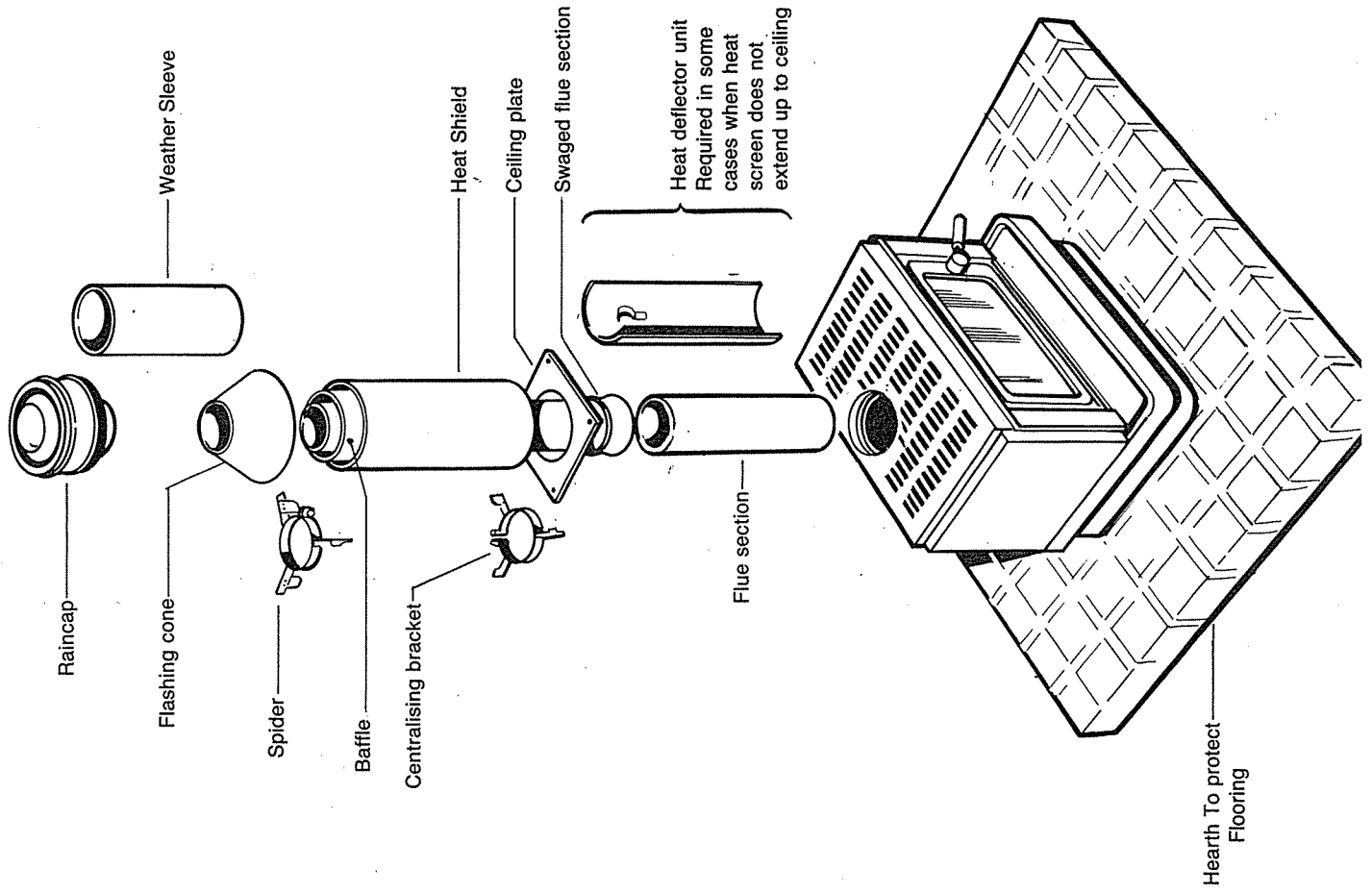
INTRODUCTION

These installation instructions are based on New Zealand Standard 7421 (as revised to January 1984). Independent testing has established that the Masport Panorama Wood Fire will meet the requirements of that Standard if the following installation instructions are followed.

As building Codes may vary from district to district, we recommend that you consult your local Building Inspector regarding any special requirements that must be met.

WE RECOMMEND THAT THE INSTALLATION OF YOUR 'PANORAMA' WOOD FIRE BE CARRIED OUT BY A SUITABLY QUALIFIED SPECIALIST INSTALLER.

Please ensure that only genuine Masport components are used when installing your PANORAMA, as substitutes may affect its performance and could even nullify compliance with the Standard.



INSPECTION

Before proceeding with the installation, check that the Firebox Ceiling and the Bypass Wall have not been dislodged during transit, that the Bypass Door is seated correctly in its hinges and that it responds properly to movement of the Bypass Selector (the upper control lever).

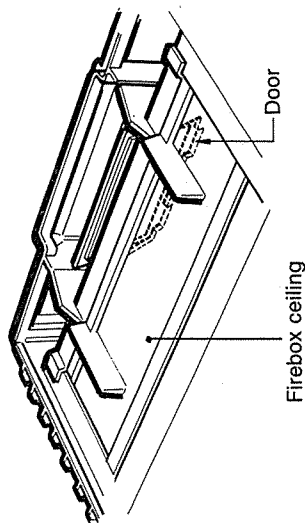


TABLE 1

**MINIMUM WALL CLEARANCES (millimetres)
WITH THE WOOD FIRE PARALLEL TO THE WALL**

WALL CONSTRUCTION	STANDARD FIRE		With Stage 1 SHIELDING KIT		With Stage 2 SHIELDING KIT	
	Side	Rear	Side	Rear	Side	Rear
CONCRETE (With no internal timber)	100	100	NO SHIELDING REQUIRED		NO SHIELDING REQUIRED	
BRICK (With no internal timber)	100	100				
BRICK (With internal timber)	260	320	240	200	240	80
HEAT SENSITIVE MATERIALS (see below)	325	400	300	250	300	100

Heat sensitive materials include: Timber, asbestos cement board, plaster board, gypsum plaster etc. The fitting of a sheet metal panel in contact with these materials does not make them in any way less sensitive to heat.

PLACEMENT

The siting of your PANORAMA should be decided after inspecting the ceiling area and roof to determine any possible restrictions on the flue position. The plumbing requirements for the water heating booster should be studied if this is to be fitted. (See page 14).

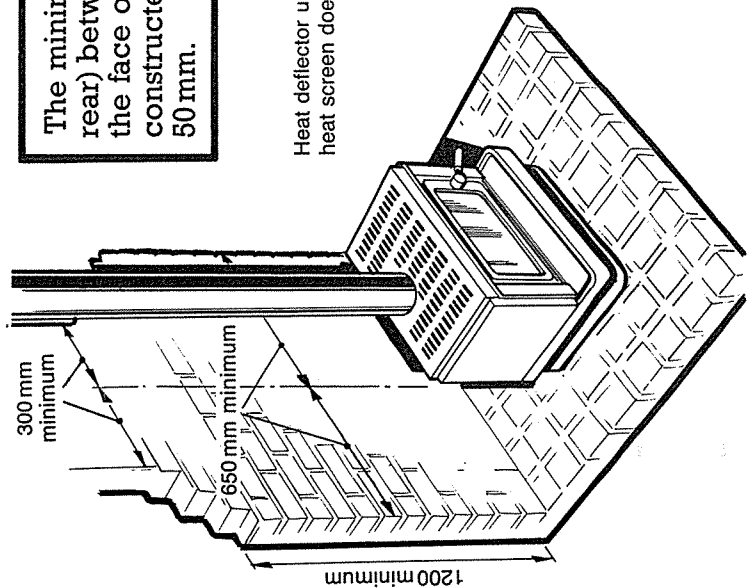
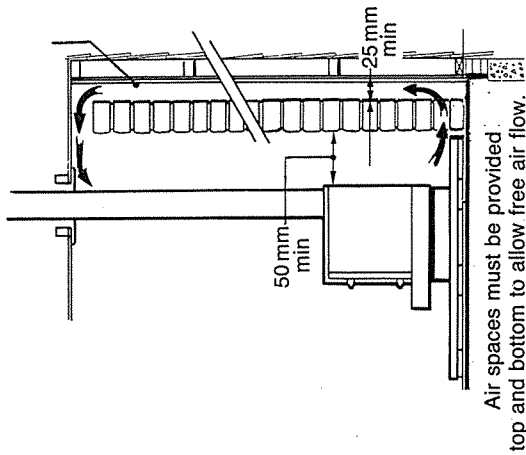
INSTALLATION

Wall Clearances. In order to ensure that the walls do not become excessively hot, it will be necessary to maintain an air space behind the Wood Fire and between the sides of the Fire and any adjacent walls. Furnishings and any other heat sensitive objects must also be kept away from the Fire by the same distances.

No wall or other immovable object must be closer than one metre to the front of the Fire. Back and side clearances are measured from the rear and the side of the PANORAMA cabinet respectively. The clearances needed can be reduced significantly by fitting Stage 1 or Stage 2 Shielding Kits as desired. The Stage 1 Kit contains a 600mm Flue Heat Deflector, while the Stage 2 Kit has a 1200mm Flue Heat Deflector and a Rear Shield. Both Kits are optional extras available from your Masport dealer and they

contain full instructions for fitting. The appropriate clearances are listed in Table 1.

Brick Wall Screens. A heat sensitive wall may be protected by a screen made of kiln-fired or concrete bricks (laid on the flat). A vent'ated air space at least 25mm wide must be provided between the bricks and the wall. The air space must be unobstructed at the top to allow free air flow, and air entry slots (totalling at least 15,000 square mm) must be provided at intervals along the bottom.

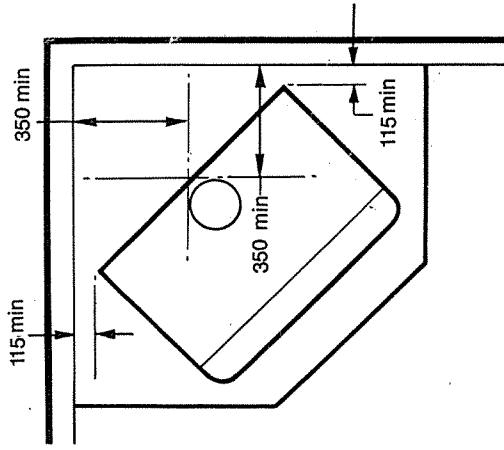


The minimum spacing (side or rear) between the cabinet and the face of a properly constructed brick screen is 50 mm.

Heat deflector unit Required in some cases when heat screen does not extend up to ceiling

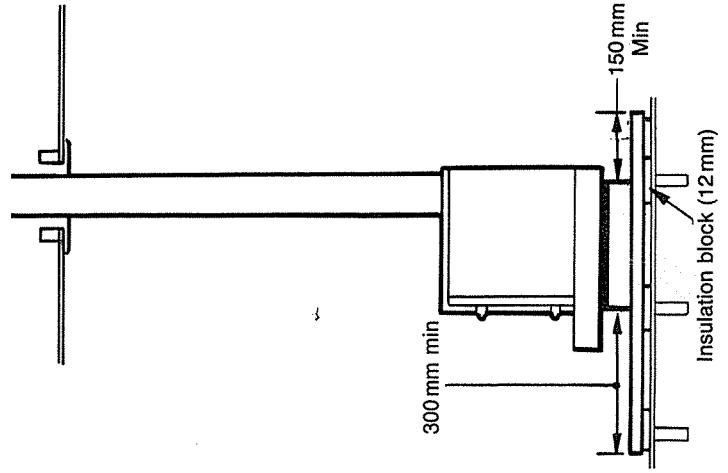
The main body of the screen must be at least 1200mm high and must extend along the wall(s) at least 650mm each side of the centre line of the Fire. The portion of the screen shielding the flue must rise to within 50mm of ceiling height and must extend at least 300mm each side of the flue centreline on any wall within 275mm of the flue. If the brick wall screen does not fulfil the above requirements it shall be regarded as non-existent when spacing the Fire from the wall.

Corner Installation. Diagram shows the minimum clearances between heat sensitive walls and the corners of the cabinet and the flue when the PANORAMA Wood Fire is placed at 45° in a corner setting. No Shielding Kit is necessary in this case.



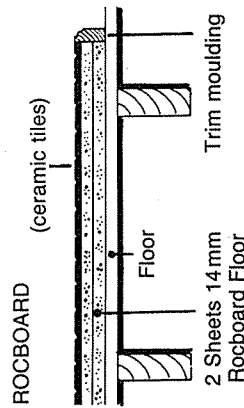
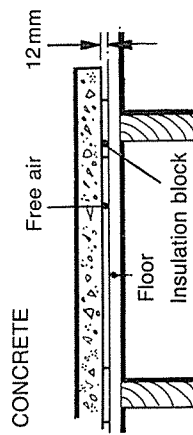
FLOOR PROTECTION

Unless the Wood Fire will be standing on a fireproof floor which extends to the wall(s) and at least 200mm to each side of, and 300mm forward from its base, it will be necessary to provide a heat resistant hearth to cover at least that area of floor. (For an 'island' installation the fireproof floor or the hearth must extend at least 150mm rearward from the base of the Fire).



Hearth Construction. Hearths of solid material such as a cast concrete slab can conduct heat through to the floor if they are in contact with it, so they must be elevated on insulating blocks to form an air gap at least 12mm high. The blocks, about 100mm square, should be placed directly over the floor joists, leaving at least half of the perimeter of the air space unobstructed so that the air can move through freely. If there may be carpet laid up to the hearth subsequently, the air space should be made 25mm high so that it will not be obstructed.

In cases where the hearth is constructed of less rigid material, an alternative to the air space beneath the hearth is to place the hearth on a sheet of 14mm thick Rocboard, (for timber planked floors), or on two sheets of Rocboard for particle board floors. An information pamphlet on the use of Rocboard is available from New Zealand Forest Products Ltd, or their agents. In all cases, to prevent movement of the hearth in an earthquake, it should be located inside steel angle brackets screwed securely to the floor.



INSTALLING THE FLUE

The standard Flue Kit for the PANORAMA Wood Fire contains

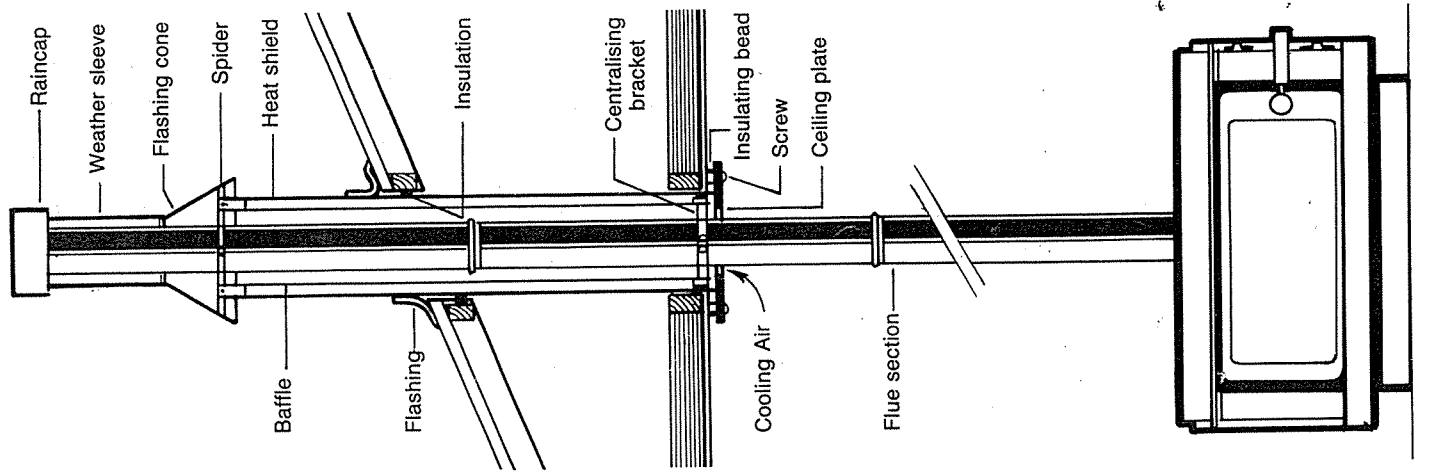
sufficient components for an installation where the ceiling height is 2400mm and the distance from the ceiling to the point of penetration through the roof is not excessive. Should you need extra lengths of various components, they are readily obtainable from your Masport Dealer.

Note: Details of special flue arrangements suitable for multi-storey buildings, through-the-wall outlets etc. will be found in the New Zealand Standard 7421 'Installation of Solid Fuel Burning Appliances'.

For conventional installations, follows these steps:

Step 1 Place the Fire in the selected position (see PLACEMENT page 5) and drop a plumb-bob from the ceiling to the centre of the flue flange to establish the point where the flue will pass through the ceiling. Before proceeding, check carefully that this centreline will not cause difficulties with ceiling joists, roof rafters etc.

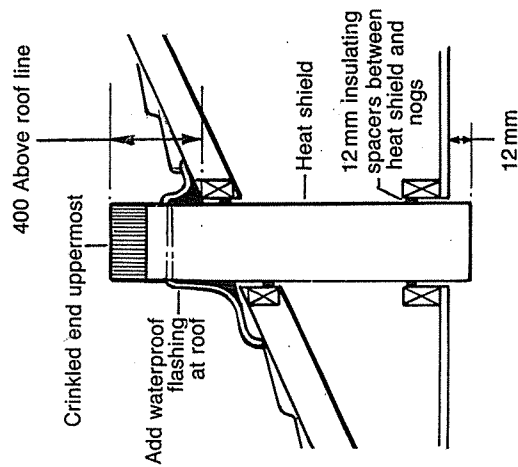
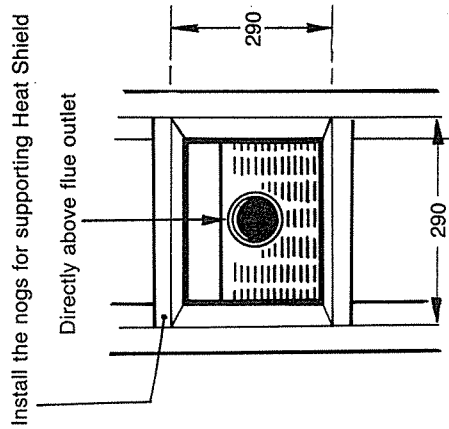
Step 2 Cut a 290mm square hole through the ceiling on this centreline and nog this opening, forming a 290mm square frame to which the lower end of the Heat Shield will be fastened. If this opening is not the correct size and shape the Ceiling Plate may not cover the hole.



Step 3 On the same vertical centreline, cut a hole through the roof large enough to accept the Heat Shield and nail suitable nogs to the roof rafters to form an opening that is 290mm square (in plan) directly over the nogged ceiling opening. The Heat Shield should be secured by nailing or screwing it into the nogged openings. Attach it at the four tangent points (top and bottom), using 12mm thick insulating spacers between the Heat Shield and the nogs. The swaged (or crinkled) end of the Heat Shield should be at the top, and the bottom should be 12mm below the lower surface of the ceiling. Trim the bottom of the Heat Shield as necessary to match the angle of a sloping ceiling. If the Heat Shield is not long enough to protrude at least 400mm above the roof line (measured at the high side), extra lengths of Heat Shield can be added. It may be appropriate to shorten one length so that the join between sections does not lie above the roof line. The Heat Shield should now be flashed to the roof to waterproof the joint.

Step 4 Place the Ceiling Plate (plastic coated side downwards) over the flue flange.

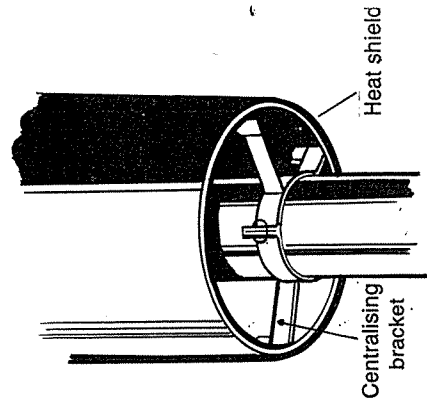
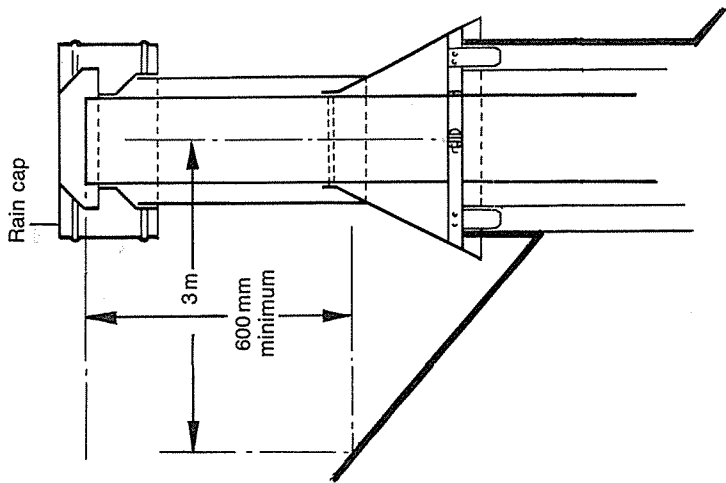
Step 5 Assemble the stainless Flue Section (swaged end down) to the top end of the swaged Enamelled Section (swaged end down). Keeping the stainless



section at the top, insert the assembly up through the Heat Shield. Fit the other Enamelled Section to the lower end of the Flue Assembly (keeping the end which has two holes at the bottom) and lower it into the Flue Flange. Check that the top of the Flue is at least 600mm above any part of the building or roof within 3 metres, (measured horizontally) adding extra Flue Lengths as needed. If there is any possibility of accidental separation of the flue sections, each joint should be secured with a self-tapping screw as the assembly progresses.

Step 6 Clamp the Centralising Bracket on the Flue (lugs facing upwards), so that the bottom of the Bracket is flush with the bottom of the Heat Shield. For sloping ceilings, the Bracket should be flush with the highest point of the bottom of the Heat Shield. Check that the Bracket can slide freely within the Shield to accommodate flue expansion, bending the arms of the Bracket slightly if necessary to achieve this.

Step 7 Check the length of the Baffle (or assembled Baffle sections in the case where more than one length of Heat Shield is needed). When placed on top of the Centralising Bracket and correctly positioned inside the lugs, its top should be level with the top of the Heat Shield. For sloping ceilings, the lower end of



the Baffle should be slotted to fit over the arms of the Centralising Bracket so that it can drop down to align with the bottom of the Heat Shield. Trim the Baffle if necessary.

Step 8 With the Baffle correctly positioned, clamp the Spider around the top Flue Section with the lugs facing downwards between the Baffle and the Heat Shield. Check that the Spider will be able to slide freely within the Heat Shield when the Flue expands and contracts vertically. Adjust the arms of the Spider if needed.

Step 9 Slide the Flashing Cone down over the Flue until it rests on the arms of the Spider.

Step 10 Lower the Weather Sleeve over the Flue until it is resting on the Flashing Cone and measure the height difference between the top of the Flue and the top of the Weather Sleeve. The Weather Sleeve should be between 40mm and 50mm below the Flue top. Add extra Weather Sleeve lengths (fastening any joints with three self-tapping screws or blind rivets) or trim the Flue or Weather Sleeve as appropriate. Note that when extending the Weather Sleeve the upper section fits outside the lower section at a joint, whereas joints in the Flue have the upper

section inside the lower one. Where extra Weather Sleeve lengths have been added, brace these with suitable wire stays.

Step 11 Fit the Rain Cap over the Flue and Weather Sleeve but do not fasten it in place. The Rain Cap should slide freely on the Flue but fit firmly on the Weather Sleeve.

Step 12 Back inside the room, slide the Ceiling Plate up to the ceiling and screw it in place using the ceramic spacers provided to keep it 12mm away from the ceiling. Take care to centralise the hole around the Flue.

Step 13 For safety in the event of an earthquake, fasten the Fire to the hearth through the two holes in the rear flange of the base, using not less than No. 12 steel woodscrews.

INSTALLING A WATER HEATING BOOSTER

Any PANORAMA Wood Fire can be fitted with a Booster Tube as all models have the mounting holes drilled and covered with removable plugs. It will be found simplest to fit the Tube before placing the Fire in position. Plumbing work must meet the requirements of NZS 4603:1976 unless local By-Laws dictate otherwise.

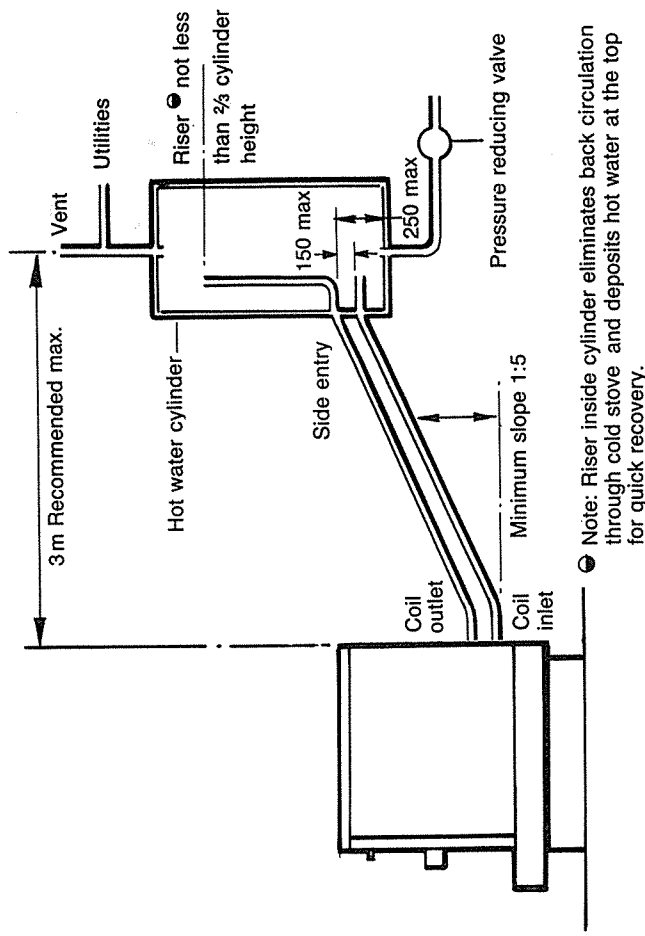
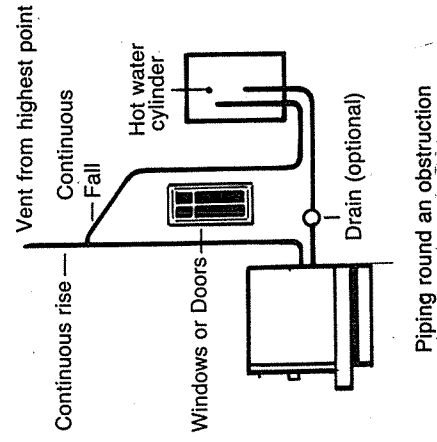
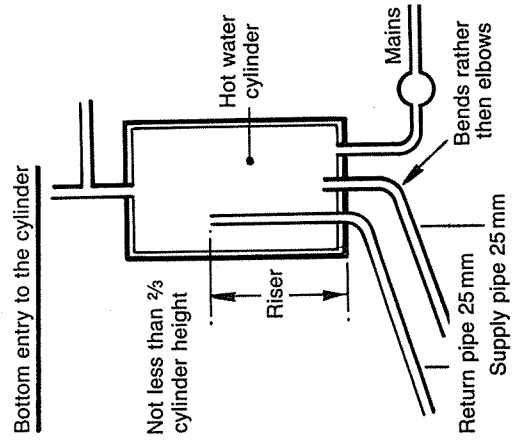
Pipe connections are 1" BSP and are 175mm and 247mm above the hearth level, the upper connection being the outlet returning hot water to the water cylinder.

The piping methods recommended are designed to prevent circulation of hot water when the Wood Fire is not in use. An existing cylinder will need to be modified by adding an outlet connection near the bottom, and an inlet (with an internal riser) for the hot water returning from the booster. Alternatively, a new dual-purpose cylinder may be installed.

Ideally, the following conditions should be fulfilled:

1. The bottom of the cylinder should be above the booster outlet on the Wood Fire. Some Electrical Authorities specify a minimum height difference.

A WOOD FIRE FITTED WITH A WATER HEATING BOOSTER MUST NOT BE FIRED UNLESS IT IS CONNECTED TO A CYLINDER FILLED WITH WATER FREE TO CIRCULATE.



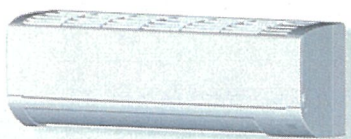
Note: Riser inside cylinder eliminates back circulation through cold stove and deposits hot water at the top for quick recovery.

2. The cylinder should be within three metres of the booster. Greater distances will operate, but the water circulation rate will be reduced.
3. The further the Fire is from the cylinder, the greater should be the height difference between the two units. Ideally, the cylinder should be 200mm above the booster for every metre it is away from the booster.
4. All pipe-work should be at least 25mm diameter.
5. The pipes between the Fire and cylinder should be separated and lagged independently to minimise heat loss and maintain the temperature differential between them to encourage water flow.
6. The pipe carrying hot water back to the cylinder should not fall below the level of the top connection on the Fire. It should preferably rise continuously from the Fire to the cylinder, but if it must fall, a vent pipe must be fitted at the highest point to bleed off any accumulation of air. (see diagram).
7. Pipes should be kept as straight as possible, and bends, rather than elbows, should be used to minimise frictional loss.
8. A drain valve may be fitted in the low point of the system, but shut-off and non-return valves must not be fitted in the pipes between the Booster and the cylinder.

SPLIT-TYPE AIR CONDITIONERS

INDOOR UNIT

MSZ-GL25VGD MSZ-GL35VGD MSZ-GL42VGD
MSZ-GL50VGD MSZ-GL60VGD MSZ-GL71VGD MSZ-GL80VGD



OPERATING INSTRUCTIONS

For user

- To use this unit correctly and safely, be sure to read these operating instructions before use.

English



SAFETY PRECAUTIONS

⚠ WARNING

	<p>When the air conditioner does not cool or heat, there is a possibility of refrigerant leakage. If any refrigerant leakage is found, stop operations and ventilate the room well and consult your dealer immediately. If a repair involves recharging the unit with refrigerant, ask the service technician for details.</p> <ul style="list-style-type: none"> The refrigerant used in the air conditioner is not harmful. Normally, it does not leak. However, if refrigerant leaks and comes in contact with fire or heating part of such a fan heater, kerosene heater, or cooking stove, it will create harmful gas and there is risk of fire.
	<p>The user should never attempt to wash the inside of the indoor unit. Should the inside of the unit require cleaning, contact your dealer.</p> <ul style="list-style-type: none"> Unsuitable detergent may cause damage to plastic material inside the unit, which may result in water leakage. Should detergent come in contact with electrical parts or the motor, it will result in a malfunction, smoke, or fire. The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater). Be aware that refrigerants may not contain an odour. Do not use means to accelerate the defrosting process or to clean the appliance, other than those recommended by the manufacturer. Do not pierce or burn.
	<p>This unit should be installed in rooms which exceed the floor space specified below.</p> <p>GL50 : 2.2 m² or larger GL60 : 2.3 m² or larger GL71/80: 3.1 m² or larger</p>

⚠ CAUTION

	<p>Do not touch the air inlet or the aluminum fins of the indoor/outdoor unit.</p> <ul style="list-style-type: none"> This may cause injury.
	<p>Do not use insecticides or flammable sprays on the unit.</p> <ul style="list-style-type: none"> This may cause a fire or deformation of the unit.
	<p>Do not expose pets or houseplants to direct airflow.</p> <ul style="list-style-type: none"> This may cause injury to the pets or plants.
	<p>Do not place other electric appliances or furniture under the indoor/outdoor unit.</p> <ul style="list-style-type: none"> Water may drip down from the unit, which may cause damage or malfunction.
	<p>Do not leave the unit on a damaged installation stand.</p> <ul style="list-style-type: none"> The unit may fall and cause injury.
	<p>Do not step on an unstable bench to operate or clean the unit.</p> <ul style="list-style-type: none"> This may cause injury if you fall down.
	<p>Do not pull the power cord.</p> <ul style="list-style-type: none"> This may cause a portion of the core wire to break, which may cause overheating or fire.
	<p>Do not charge or disassemble the batteries, and do not throw them into a fire.</p> <ul style="list-style-type: none"> This may cause the batteries to leak, or cause a fire or explosion.
	<p>Do not operate the unit for more than 4 hours at high humidity (80% RH or more) and/or with windows or outside door left open.</p> <ul style="list-style-type: none"> This may cause the water condensation in the air conditioner, which may drip down, wetting or damaging the furniture. The water condensation in the air conditioner may contribute to growth of fungi, such as mold.
	<p>Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects.</p> <ul style="list-style-type: none"> This may cause deterioration of quality, or harm to animals and plants.
	<p>Do not expose combustion appliances to direct airflow.</p> <ul style="list-style-type: none"> This may cause incomplete combustion.
	<p>Never put batteries in your mouth for any reason to avoid accidental ingestion.</p> <ul style="list-style-type: none"> Battery ingestion may cause choking and/or poisoning.
	<p>Before cleaning the unit, switch it OFF and disconnect the power plug or turn the breaker OFF.</p> <ul style="list-style-type: none"> This may cause injury, since the fan inside rotates at high speeds during operation.
	<p>When the unit will be unused for a long time, disconnect the power plug or turn the breaker OFF.</p> <ul style="list-style-type: none"> The unit may accumulate dirt, which may cause overheating or fire.

⚠ CAUTION

	<p>Replace all batteries of the remote controller with new ones of the same type.</p> <ul style="list-style-type: none"> Using an old battery together with a new one may cause overheating, leakage, or explosion.
	<p>If the battery fluid comes in contact with your skin or clothes, wash them thoroughly with clean water.</p> <ul style="list-style-type: none"> If the battery fluid comes in contact with your eyes, wash them thoroughly with clean water and immediately seek medical attention.
	<p>Ensure that the area is well-ventilated when the unit is operated together with a combustion appliance.</p> <ul style="list-style-type: none"> Inadequate ventilation may cause oxygen starvation.
	<p>Turn the breaker OFF when you hear thunder and there is a possibility of a lightning strike.</p> <ul style="list-style-type: none"> The unit may be damaged if lightning strikes.
	<p>After the air conditioner is used for several seasons, perform inspection and maintenance in addition to normal cleaning.</p> <ul style="list-style-type: none"> Dirt or dust in the unit may create an unpleasant odor, contribute to growth of fungi, such as mold, or clog the drain passage, and cause water to leak from the indoor unit. Consult your dealer for inspection and maintenance, which require specialized knowledge and skills.
	<p>Do not operate switches with wet hands.</p> <ul style="list-style-type: none"> This may cause electric shock.
	<p>Do not clean the air conditioner with water or place an object that contains water, such as a flower vase, on it.</p> <ul style="list-style-type: none"> This may cause fire or electric shock.
	<p>Do not step on or place any object on the outdoor unit.</p> <ul style="list-style-type: none"> This may cause injury if you or the object falls down.

⚠ IMPORTANT

Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

For installation

⚠ WARNING

	<p>Consult your dealer for installing the air conditioner.</p> <ul style="list-style-type: none"> It should not be installed by the user since installation requires specialized knowledge and skills. An improperly installed air conditioner may cause water leakage, fire, or electric shock.
	<p>Provide a dedicated power supply for the air conditioner.</p> <ul style="list-style-type: none"> A non-dedicated power supply may cause overheating or fire.
	<p>Do not install the unit where flammable gas could leak.</p> <ul style="list-style-type: none"> If gas leaks and accumulates around the outdoor unit, it may cause an explosion.
	<p>Earth the unit correctly.</p> <ul style="list-style-type: none"> Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone ground wire. Improper earthing may cause electric shock.

⚠ CAUTION

	<p>Install an earth leakage breaker depending on the installation location of the air conditioner (such as highly humid areas).</p> <ul style="list-style-type: none"> If an earth leakage breaker is not installed, it may cause electric shock.
	<p>Ensure that the drain water is properly drained.</p> <ul style="list-style-type: none"> If the drain passage is improper, water may drip down from the indoor/outdoor unit, wetting and damaging the furniture.

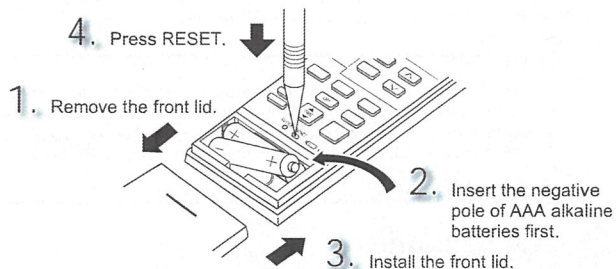
In case of an abnormal condition

Immediately stop operating the air conditioner and consult your dealer.

PREPARATION BEFORE OPERATION

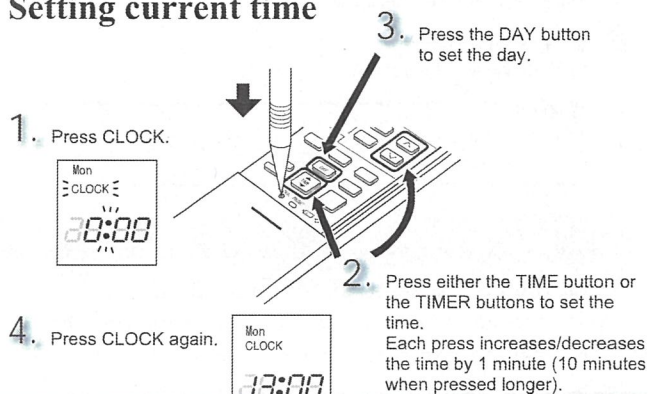
Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

Installing the remote controller batteries

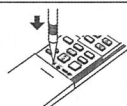


- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries and leaking batteries. The remote controller could malfunction.
- Do not use rechargeable batteries.
- The battery replacement indicator lights up when the battery is running low. In 7 days after the indicator starts lights up, the remote controller stops working.
- Replace all batteries with new ones of the same type.
- Batteries can be used for approximately 1 year. However, batteries with expired shelf lives last shorter.
- Press RESET gently using a thin instrument. If the RESET button is not pressed, the remote controller may not operate correctly.

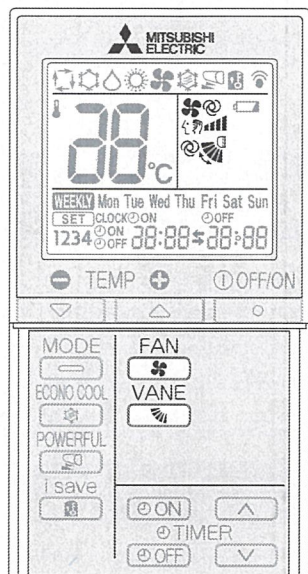
Setting current time



- Press CLOCK gently using a thin instrument.

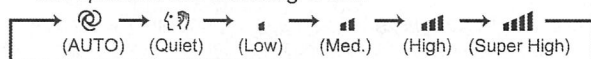


FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT



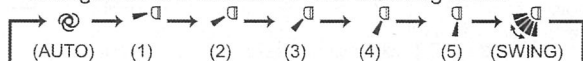
<GL25/35/42/50/60>

Press **FAN** to select fan speed. Each press changes fan speed in the following order:



- Two short beeps are heard from the indoor unit when set to AUTO.
- Use higher fan speed to cool/heat the room more powerfully. It is recommended to lower the fan speed once the room is cool/warm.
- Use lower fan speed for quiet operation.

Press **VANE** to select airflow direction. Each press changes airflow direction in the following order:



- Two short beeps are heard from the indoor unit when set to AUTO.

Airflow direction

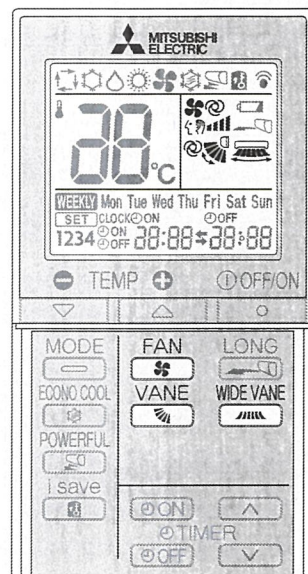
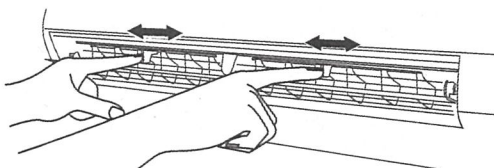
(AUTO).....The vane is set to the most efficient airflow direction. COOL/ DRY/FAN: horizontal position. HEAT: position (4).

(Manual).....For efficient air conditioning, select the upper position for COOL/ DRY, and the lower position for HEAT. If the lower position is selected during COOL/ DRY, the vane automatically moves to the horizontal position after 0.5 to 1 hour to prevent any condensation from dripping.

(Swing).....The vane moves up and down intermittently.

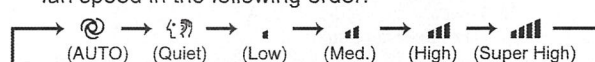
■ To change the horizontal airflow direction.

Move the vertical vane manually before starting operation.



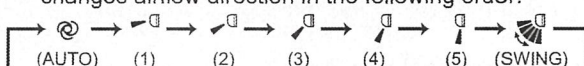
<GL71/80>

Press **FAN** to select fan speed. Each press changes fan speed in the following order:



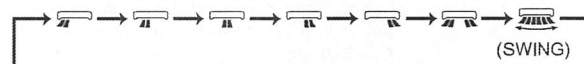
- Two short beeps are heard from the indoor unit when set to AUTO.
- Use higher fan speed to cool/heat the room quicker. It is recommended to lower the fan speed once the room is cool/warm.
- Use lower fan speed for quiet operation.

Press **VANE** to select airflow direction. Each press changes airflow direction in the following order:



- Two short beeps are heard from the indoor unit when set to AUTO.

Press **WIDE VANE** to select horizontal airflow direction. Each press changes airflow direction in the following order:



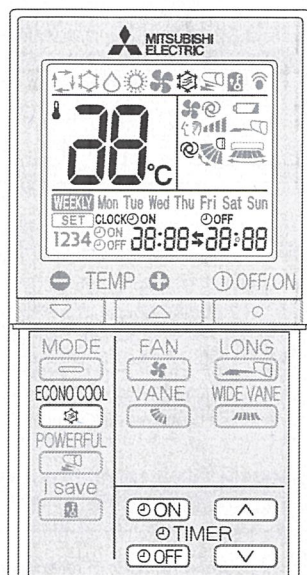
Airflow direction


(AUTO).....The vane is set to the most efficient airflow direction. COOL/ DRY/FAN: horizontal position. HEAT: position (5).

(Manual).....For efficient air conditioning, select the upper position for COOL/ DRY, and the lower position for HEAT. If the lower position is selected during COOL/ DRY, the vane automatically moves to the horizontal position after 0.5 to 1 hour to prevent any condensation from dripping.


(Swing).....The vane moves up and down intermittently.

ECONO COOL OPERATION



Press  during COOL mode **page 5** to start ECONO COOL operation.

The unit performs swing operation vertically in various cycles according to the temperature of airflow.



Press  again to cancel ECONO COOL operation.


- ECONO COOL operation is canceled when the VANE, LONG, or POWERFUL button is pressed.

What is "ECONO COOL"?

Swing airflow (change of air flow) makes you feel cooler than stationary airflow. The set temperature and the airflow direction is automatically changed by the microprocessor. It is possible to perform cooling operation with keeping comfort. As a result energy can be saved.

TIMER OPERATION (ON/OFF TIMER)



1 Press  or  during operation to set the timer.

 (ON timer) : The unit turns ON at the set time.



 (OFF timer) : The unit turns OFF at the set time.



*  or  blinks.

* Make sure that the current time and day are set correctly. **Page 4**


2 Press  (Increase) and  (Decrease) to set the time of timer.

Each press increases or decreases the set time by 10 minutes.

- Set the timer while  or  is blinking.

3 Press  or  again to cancel timer.

Note:

- ON and OFF timers can be set together.  mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see **page 5** "Auto restart function".

DEMAND RESPONSE AND INDOOR UNIT OPERATION




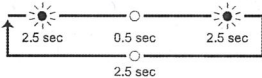
Demand response

This unit has demand response capability which is compliant with AS/NZS 4755.3.1.

To activate this function, you need to make a contract with remote agents such as electric supply company, then this unit should be connected to Demand response enabling device (DRED). For further information, consult your dealer.

Demand response represents the automated alteration of an electrical product's normal mode of operation in response to an initiating signal originating from or defined by a remote agent.

This unit supports 3 Demand Response Modes (DRMs).

DRM	Description of operation in this mode	Operation indicator lamp <div>  Lighted  Not lighted </div>
DRM 1	Compressor off The air conditioner does not perform cooling or heating operation during the demand response event.	<div>Upper lamp is lighted.</div> <div>  </div> <div>Lower lamp blinks.</div> <div>  </div>
DRM 2	The air conditioner continues to perform cooling or heating operation during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	
DRM 3	The air conditioner continues to perform cooling or heating operation during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 75% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	

Note:

- DRM is automatically activated or released according to the signals from DRED.
DRM cannot be invalidated or changed manually.
- You might feel this unit does not sufficiently perform cooling or heating operation during DRM.
- Operation settings can be changed as usual with the remote controller during DRM.
However, you might not feel cool or warm enough as DRM is prioritized.


WHEN YOU THINK THAT TROUBLE HAS OCCURRED

Even if these items are checked, when the unit does not recover from the trouble, stop using the air conditioner and consult your dealer.

Symptom	Explanation & Check points
Indoor Unit	
The unit cannot be operated.	<ul style="list-style-type: none"> Is the breaker turned on? Is the power supply plug connected? Is the ON timer set? Page 8
All LED lamps on the indoor unit are blinking.	<ul style="list-style-type: none"> Are the horizontal vanes installed correctly? Page 11
The horizontal vane does not move.	<ul style="list-style-type: none"> Are the horizontal vane and the vertical vane installed correctly? Page 11 Is the fan guard deformed?
The unit cannot be operated for about 3 minutes when restarted.	<ul style="list-style-type: none"> This protects the unit according to instructions from the microprocessor. Please wait.
Mist is discharged from the air outlet of the indoor unit.	<ul style="list-style-type: none"> The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.
The swing operation of the HORIZONTAL VANE is suspended for a while, then restarted.	<ul style="list-style-type: none"> This is for the swing operation of the HORIZONTAL VANE to be performed normally.
The airflow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	<ul style="list-style-type: none"> When the unit is operated in COOL or DRY mode, if the operation continues with air blowing down for 0.5 to 1 hour, the direction of the airflow is automatically set to horizontal position to prevent water from condensing and dripping. In the heating operation, if the airflow temperature is too low or when defrosting is being done, the horizontal vane is automatically set to horizontal position.
The operation stops for about 10 minutes in the heating operation.	<ul style="list-style-type: none"> Outdoor unit is in defrost. Since this is completed in max. 10 minutes, please wait. (When the outside temperature is too low and humidity is too high, frost is formed.)
The unit starts operation by itself when the main power is turned on, but isn't received sign from the remote controller.	<ul style="list-style-type: none"> These models are equipped with an auto restart function. When the main power is turned off without stopping the unit with the remote controller and is turned on again, the unit starts operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power. Refer to "Auto restart function" Page 5.
In COOL/DRY mode, when the room temperature reaches near the set temperature, the outdoor unit stops, then the indoor unit operates at low speed.	<ul style="list-style-type: none"> When the room temperature rises and the outdoor unit turns on, the indoor fan starts running according to the settings on the remote controller.
The indoor unit discolors over time.	<ul style="list-style-type: none"> Although plastic turns yellow due to the influence of some factors such as ultraviolet light and temperature, this has no effect on the product functions.
Outdoor Unit	
The fan of the outdoor unit does not rotate even though the compressor is running. Even if the fan starts to rotate, it stops soon.	<ul style="list-style-type: none"> When the outside temperature is low during cooling operation, the fan operates intermittently to maintain sufficient cooling capacity.
Water leaks from the outdoor unit.	<ul style="list-style-type: none"> During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense. In the heating operation, water condensed on the heat exchanger drips down. In the heating operation, the defrosting operation makes ice forming on the outdoor unit melt and drip down.
White smoke is discharged from the outdoor unit.	<ul style="list-style-type: none"> In the heating operation, vapor generated by the defrosting operation looks like white smoke.

Symptom	Explanation & Check points
Remote controller	
The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal.	<ul style="list-style-type: none"> Are the batteries exhausted? Page 4 Is the polarity (+, -) of the batteries correct? Page 4 Are any buttons on the remote controller of other electric appliances being pressed?
Does not cool or heat	
The room cannot be cooled or heated sufficiently.	<ul style="list-style-type: none"> Is the temperature setting appropriate? Page 5 Is the fan setting appropriate? Please change fan speed to High or Super High. Page 6 Are the filters clean? Page 11 Is the fan or heat exchanger of the indoor unit clean? Page 11 Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit? Is a window or door open? It may take a certain time to reach the setting temperature or may not reach that depending on the size of the room, the ambient temperature, and the like.
The room cannot be cooled sufficiently.	<ul style="list-style-type: none"> When a ventilation fan or a gas cooker is used in a room, the cooling load increases, resulting in an insufficient cooling effect. When the outside temperature is high, the cooling effect may not be sufficient.
The room cannot be heated sufficiently.	<ul style="list-style-type: none"> When the outside temperature is low, the heating effect may not be sufficient.
Air does not blow out soon in the heating operation.	<ul style="list-style-type: none"> Please wait as the unit is preparing to blow out warm air.
Poor cooling or heating performance.	<ul style="list-style-type: none"> Do you have an arrangement with your electric company for Demand Response?
Airflow	
The air from the indoor unit smells strange.	<ul style="list-style-type: none"> Are the filters clean? Page 11 Is the fan or heat exchanger of the indoor unit clean? Page 11 The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.
Sound	
Cracking sound is heard.	<ul style="list-style-type: none"> This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.
"Bubbling" sound is heard.	<ul style="list-style-type: none"> This sound is heard when the outside air is absorbed from the drain hose by turning on the range hood or the ventilation fan, making water flowing in the drain hose to spout out. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong.
Mechanical sound is heard from the indoor unit.	<ul style="list-style-type: none"> This is the switching sound in turning off/on the fan or the compressor.
The sound of water flowing is heard.	<ul style="list-style-type: none"> This is the sound of refrigerant or condensed water flowing in the unit.
Hissing sound is sometimes heard.	<ul style="list-style-type: none"> This is the sound when the flow of refrigerant inside the unit is changed.
Timer	
Weekly timer does not operate according to settings.	<ul style="list-style-type: none"> Is the ON/OFF timer set? Page 8, 9 Transmit the setting information of the weekly timer to the indoor unit again. When the information is successfully received, a long beep will sound from the indoor unit. If information fails to be received, 3 short beeps will be heard. Ensure information is successfully received. Page 9 When a power failure occurs and the main power turns off, the indoor unit built-in clock will be incorrect. As a result, the weekly timer may not work normally. Be sure to place the remote controller where the signal can be received by the indoor unit. Page 3
The unit starts/stops the operation by itself.	<ul style="list-style-type: none"> Is the weekly timer set? Page 9

WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

- 1 Set to the highest temperature in manual COOL mode, and operate for 3 to 4 hours. **Page 5**
 - This dries the inside of the unit.
 - Moisture in the air conditioner contributes to growth of fungi, such as mold.
- 2 Press  to stop the operation.
- 3 Turn off the breaker and/or disconnect the power supply plug.
- 4 Remove all batteries from the remote controller.

When using the air conditioner again:

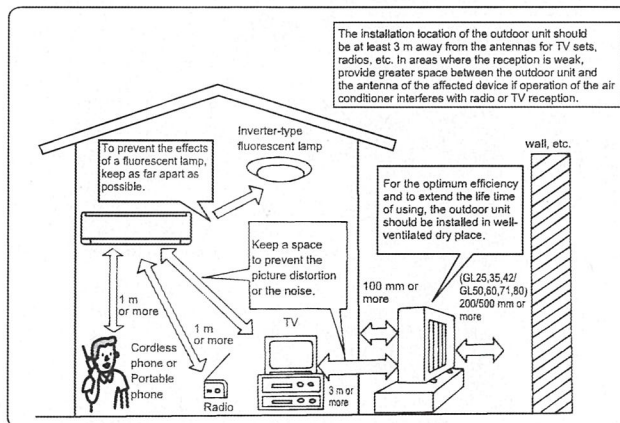
- 1 Clean the air filter. **Page 11**
- 2 Check that the air inlet and outlet of the indoor and outdoor units are not blocked.
- 3 Check that the earth is connected correctly.
- 4 Refer to the "PREPARATION BEFORE OPERATION", and follow the instructions. **Page 4**

INSTALLATION PLACE AND ELECTRICAL WORK

Installation place

Avoid installing the air conditioner in the following places.

- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulfide gas is generated such as hot spring, sewage, waste water.
- Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the properties of plastic could be changed and damaged).
- Where there is high-frequency or wireless equipment.
- Where the air from the outdoor unit air outlet is blocked.
- Where the operation sound or air from the outdoor unit bothers the house next door.
- The mounting height of indoor unit 1.8m to 2.3m is recommended. If it is impossible, please consult your dealer.



Electrical work

- Provide an exclusive circuit for the power supply of the air conditioner.
- Be sure to observe the breaker capacity.

If you have any questions, consult your dealer.

SPECIFICATIONS

Guaranteed operating range





		Indoor	Outdoor
Cooling	Upper limit	32°C DB 23°C WB	46°C DB —
	Lower limit	21°C DB 15°C WB	-10°C DB —
Heating	Upper limit	27°C DB —	24°C DB 18°C WB
	Lower limit	20°C DB —	-15°C DB -16°C WB

DB : Dry Bulb
WB : Wet Bulb

Required Tools for Installation

Phillips screwdriver	4 mm hexagonal wrench
Level	Flare tool for R32, R410A
Scale	Gauge manifold for R32, R410A
Utility knife or scissors	Vacuum pump for R32, R410A
75 mm hole saw	Charge hose for R32, R410A
Torque wrench	Pipe cutter with reamer
Wrench (or spanner)	
Appropriate personal protective equipment	
The installer should ensure they check the respective Work Health and Safety (WHS) Act within their jurisdiction as the requirements and obligations may differ.	

1. BEFORE INSTALLATION**MEANINGS OF SYMBOLS DISPLAYED ON INDOOR UNIT AND/OR OUTDOOR UNIT**

	WARNING	This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.
		Read the OPERATING INSTRUCTIONS carefully before operation.
		Service personnel are required to carefully read the OPERATING INSTRUCTIONS and INSTALLATION MANUAL before operation.
		Further information is available in the OPERATING INSTRUCTIONS, INSTALLATION MANUAL, and the like.

1-1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

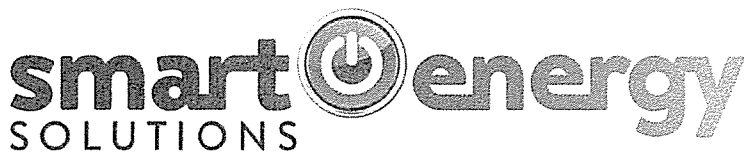
- Be sure to read "THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY" before installing the air conditioner.
- Be sure to observe the warnings and cautions specified here as they include important items related to safety.
- After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS for future reference.
- When using this product in Australia, carefully read the Australian Institute of Refrigeration and Flammable refrigerants Safety Guide in Air conditioning and Heating (AIRAH) as well

⚠ WARNING

- **Do not install the unit by yourself (user).**
Incomplete installation could cause fire, electric shock, injury due to the unit falling, or leakage of water. Consult the dealer from whom you purchased the unit or a qualified installer.
- **Perform the installation securely referring to the installation manual.**
Incomplete installation could cause fire, electric shock, injury due to the unit falling, or leakage of water.
- **When installing the unit, use appropriate protective equipment and tools for safety.**
Failure to do so could cause injury.
- **Install the unit securely in a place which can bear the weight of the unit.**
If the installation location cannot bear the weight of the unit, the unit could fall causing injury.
- **Electrical work should be performed by a qualified, experienced electrician, according to the installation manual. Be sure to use an exclusive circuit. Do not connect other electrical appliances to the circuit.**
If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in a fire or an electric shock.
- **Earth the unit correctly.**
Do not connect the earth to a gas pipe, water pipe, lightning rod, or telephone earth. Defective earthing could cause electric shock.
- **Do not damage the wires by applying excessive pressure with parts or screws.**
Damaged wires could cause fire or electric shock.
- **Be sure to cut off the main power in case of setting up the indoor P.C. board or wiring works.**
Failure to do so could cause electric shock.
- **Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so the stress of the wires is not applied to the sections. Do not extend the wires, or use intermediate connection.**
Incomplete connecting and securing could cause fire.
- **Do not install the unit in a place where inflammable gas may leak.**
If gas leaks and accumulates in the area around the unit, it could cause an explosion.
- **Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet.**
It could cause a fire or an electric shock due to defective contact, defective insulation, exceeding the permissible current, etc.
- **Be sure to use the parts provided or specified parts for the installation work.**
The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.
- **When plugging the power supply plug into the outlet, make sure that there is no dust, clogging, or loose parts in both the outlet and the plug. Make sure that the power supply plug is pushed completely into the outlet.**
If there is dust, clogging, or loose parts on the power supply plug or the outlet, it could cause electric shock or fire. If loose parts are found on the power supply plug, replace it.
- **Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.**
If the electrical cover of the indoor unit and/or the service panel of the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.
- **When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R32) enters the refrigerant circuit.**
Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury. The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
- **Do not discharge the refrigerant into the atmosphere.**
If refrigerant leaks during installation, ventilate the room. Check that the refrigerant does not leak after installation has been completed.
If refrigerant leaks and comes in contact with fire or heating part of such a fan heater, kerosene heater, or cooking stove, it will create harmful gas.
- **Use appropriate tools and piping materials for installation.**
The pressure of R32 is 1.6 times more than R22. Not using appropriate tools or materials and incomplete installation could cause the pipes to burst or injury.
- **When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.**
If the refrigerant pipes are disconnected while the compressor is running and the stop valve is open, air could be drawn in and the pressure in the refrigeration cycle could become abnormally high. This could cause the pipes to burst or injury.
- **When installing the unit, securely connect the refrigerant pipes before starting the compressor.**
If the compressor is started before the refrigerant pipes are connected and when the stop valve is open, air could be drawn in and the pressure in the refrigeration cycle could become abnormally high. This could cause the pipes to burst or injury.
- **Fasten a flare nut with a torque wrench as specified in this manual.**
If fastened too tight, a flare nut may break after a long period and cause refrigerant leakage.
- **The unit shall be installed in accordance with national wiring regulations.**
- **When using a gas burner or other flame-producing equipment, completely remove all of the refrigerant from the air conditioner and ensure that the area is well-ventilated.**
If the refrigerant leaks and comes in contact in fire or heating part, it will create harmful gas and there is risk of fire.
- **Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.**
- **The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).**
- **Do not pierce or burn.**
- **Be aware that refrigerants may not contain an odour.**
- **Pipe-work shall be protected from physical damage.**
- **The installation of pipe-work shall be kept to a minimum.**
- **Compliance with national gas regulations shall be observed.**
- **Keep any required ventilation openings clear of obstruction.**
- **In Australia, only technicians that possess the appropriate license issued by the Australian Refrigeration Council (ARC) should install this product.**

⚠ CAUTION

- **Install an earth leakage breaker depending on the installation place.**
If an earth leakage breaker is not installed, it could cause electric shock.
- **Perform the drainage/piping work securely according to the installation manual.**
If there is defect in the drainage/piping work, water could drop from the unit, soaking and damaging household goods.
- **Do not touch the air inlet or the aluminum fins of the outdoor unit.**
This could cause injury.
- **Do not install the outdoor unit where small animals may live.**
If small animals enter and touch the electric parts inside the unit, it could cause a malfunction, smoke emission, or fire. Also, advise user to keep the area around the unit clean.



Tax Invoice

InZone Industries Limited
PO Box 204289
Highbrook
Auckland 2161
Phone: 0800 888 766
Web: www.smartnz.co.nz

GST no: 101-793-567
Date: 12-Apr-2021
Due Date: 19-Apr-2021
Invoice No: 2060188
External Reference: OPP000180691
Customer Order No: 014KY5
Salesperson: Jayson ODonnell
Order Number: 252641
Shipping Ref: 255030

BILL TO:	SHIP TO:
97 Links Ave Tauranga NEW ZEALAND Customer ID: 1000038570	97 Links Ave Mount Maunganui 3116 NEW ZEALAND

Product and Services Description	Unit	Quantity	Unit price excl GST	Dis %	Dis \$	Total Ex GST	GST	Extended Price
Mitsubishi Heat Pump 4.8kw Cooling / 5.8kw Heating High WallGL50VGD - EECA REF: 014KY5	EACH	1.00	1,312.50	0.00	0.00	1,312.50	196.88	1,509.38
Installation of heat pump	EACH	1.00	1,676.28	0.00	0.00	1,676.28	251.44	1,927.72
EECA Subsidy - WKH 90%	EACH	1.00	-2,608.70	0.00	0.00	-2,608.70	-391.31	-3,000.01

Sub Total: 380.08
GST: 57.01
Total NZD (Incl GST): 437.09
Payments Made: 0.00
Amount Due: 437.09
Payment Terms
Net 7 Days

PAYMENT OPTIONS

- Direct Credit -
A/C Name: Smart Energy Solutions
A/C Number: 12-3244-0015747-00
Reference: 2060188
- Credit Card via Payment Express at
<http://smartenergysolutions.co.nz/payments>
or phone 09 926 7071 for assistance

Please Note:

- Interest will be chargeable at 2% per month on overdue amounts
- Any costs of collection of overdue monies will be payable by the customer
- Product remains the property of InZone Industries Limited - SES until paid in full

Please ensure these instructions are read thoroughly before commencing installation and that all documentation is left with the home owner on completion of installation

WARNING

- Please read all instructions carefully before commencing installation.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside walls or soffits.
- Isolate the mains supply before making any electrical connections. This system should be installed by a qualified electrician.
- A means of mains power isolation must be installed in the circuit for the purpose of safe access for any internal cleaning, recalibration or maintenance.

KIT CONTENTS

Product Code	FAN0325
150mm Inlet Grille	1
150mm Hyper Fan	1
150mm x 3m Acoustic Insulated Ducting	1
150mm x 3m Insulated Ducting	1
Thermostat / Fan Speed Controller	1
150mm Adjustable Cone Outlet Diffuser	1
5m Duct Tape	2
Screw Set	1
Touch Screen Controller	1

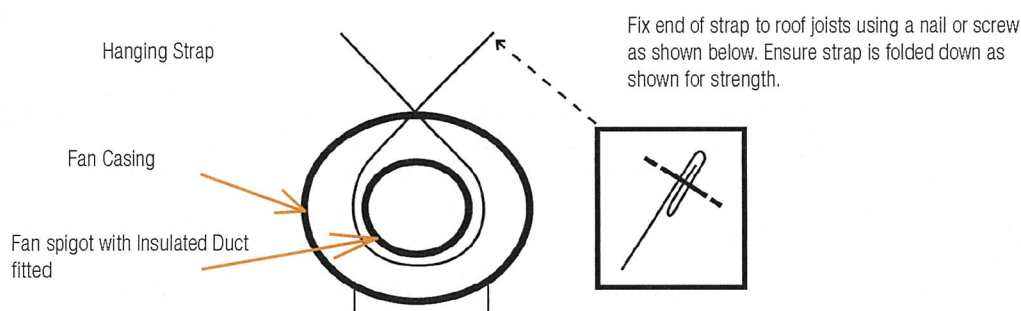
CONSIDERATIONS

- Before making any holes in ceilings, check for access behind the ceiling, taking care to avoid ceiling joists, etc.
- Check the distance you want to run the duct as the shorter the duct run, the more efficient the fan will operate.
- This HeatTrans kit is supplied with insulated ducting and acoustic insulated ducting. The insulated ducting should only be used from the inlet to the fan and the acoustic insulated ducting should only be used from the fan to the outlets.
Each duct package is clearly labelled with the type of duct it contains.
- Remember! The hot layer of air is dispersed across the whole ceiling so it is not necessary to install the inlet grille directly near the fire flue. The grille should be at least 1m away from the flue in order to avoid excessively high temperatures.
- Although the fan is a ball bearing mounted fan and is very quiet, it is supplied in a form to be suspended from the rafters. This will ensure the quietest operation possible and eliminate any resonance.
- This HeatTrans kit can be extended a further 6 metres to a total duct length of 12 metres in the system. Additional duct should be fitted after the fan.
- If you require more than one outlet please go to the HeatTrans website, www.heattrans.co.nz/system-selection-guide.

INSTALLATION

1. Choose the inlet location within the heat source room and cut a hole for the grille, using the cardboard template supplied. CARE MUST BE TAKEN TO CUT AN ACCURATE AND NEAT HOLE. Before fitting the inlet grille make sure the spring loaded arms are pushed upwards, as this will enable the arms to spring outwards when the grille is inserted in to the cavity.
Note: The inlet grille has an adjustable damper to regulate the amount of warmed air transferred. OPEN THIS FULLY when installing the grille. If required it can be adjusted once the system is running.
2. Choose the outlet location in the rooms to be heated. Cut the holes for each diffuser, using the cardboard template supplied. Before fitting the diffuser make sure the spring loaded arms are pushed upwards, as this will enable the arms to spring outwards when the diffuser is inserted in to the cavity.
3. Fitting of ducting: Straight runs without tight bends are most efficient. The inner duct should be stretched reasonably tight to assist efficient airflow. When connecting insulated duct to the spigots, you first secure the *CORE* to the spigot with duct tape. Then pull the *INSULATION* up to the joint and tape the *OUTER SLEEVE* to the spigot with the duct tape. Where joins in ducting on longer runs are necessary we advise the use of a proper duct connector sleeve (DCT0059) to form the joint on. Stretch insulation over maximum amount of each joint to avoid heat loss.
4. Locate the best mounting place for the fan unit in the ceiling space. Ensure the correct airflow direction is maintained when mounting the fan. Following location of suitable hanging points for the fan, locate the fan below its final resting place, and secure the duct. Make the wiring connections. It is recommended all wiring be performed by or in conjunction with a registered electrical contractor. Remember to allow sufficient cable to allow for the fan to be elevated off the ceiling joists. The fan should now be suspended approximately 400mm above the ceiling joists.

Note: A suitable junction box will be required to connect the fan and mains supply.



5. Please refer to the instructions included with the thermostat / fan speed controller to ensure correct installation.
 - The touch screen controller must be installed in the same room as the heat source.
 - Mount at least 1.5 metres above the floor on an internal wall preferably on a wall opposite the heat source.
 - Select the wall for ease of wiring to the fan.
 - Avoid locations which are not generally affected by changes in the room temperature.
 - Do not mount on hot surfaces or mount where exposed to direct sunlight.
6. Use adjustable diffuser outlets to regulate the airflow to each room. To adjust the diffusers turn the cone clockwise to decrease the airflow or anticlockwise to increase the airflow.

IMPORTANT: You will need to set up the controller before use. Please refer to *Automated Thermostat Initial Setup*.

Note: This system does not generate heat, however, all measures have been taken to ensure that heat is not lost through this heat transfer system. The excess heat capacity available for transfer in the source room must exceed the overall heat losses in the target room if the temperature is to rise. The following points are worthy of consideration for you to optimise the performance of your system:

- | | | |
|---|---|--|
| <input type="checkbox"/> Do you have enough excess heat? | → | You may need to run your heat source at higher output levels! |
| <input type="checkbox"/> Is your property well insulated? | → | Heat lost through poor insulation costs you money! |
| <input type="checkbox"/> Background heating takes time? | → | Give the system time to create warm air circulation through the house. This may take several hours to establish! |

One Room Kit



IMPORTANT

- If it is intended to install an air transfer system such as Heat Trans into a room where gas appliances are used for the heat source, the gas fire installation company must be consulted before undertaking installation. Section G4/ 2.2 (Mechanical Ventilation) of the NZ Building Code refers to certain safety criteria which should be considered when installing mechanical ventilation in a room where gas appliances are used. The gas heating installation company can advise on these aspects.
- The system is not designed for use with heat pumps.

CAUTION

With certain models of solid fuel fires, a negative pressure can cause smoke from the fire place to enter the room where the fireplace is operating.

If you have a fireplace that uses air from the room for combustion, please ensure that make-up air is available to replace the air that is exhausted by the HeatTrans system.

The use of a door vent can assist in circulating the air throughout the room.

Please consult the fire manufacturer's recommendations before installation of this HeatTrans kit.

YEAR ROUND USE

By adding the Summer Ventilation Kit (DCT1481), your HeatTrans transforms into a combination internal heat transfer and external venting system. With a few simple additions to your existing system, you can cool your house in the warmer spring and summer months by bringing in filtered cooler outside air and transfer excess hot air around your home in winter months.

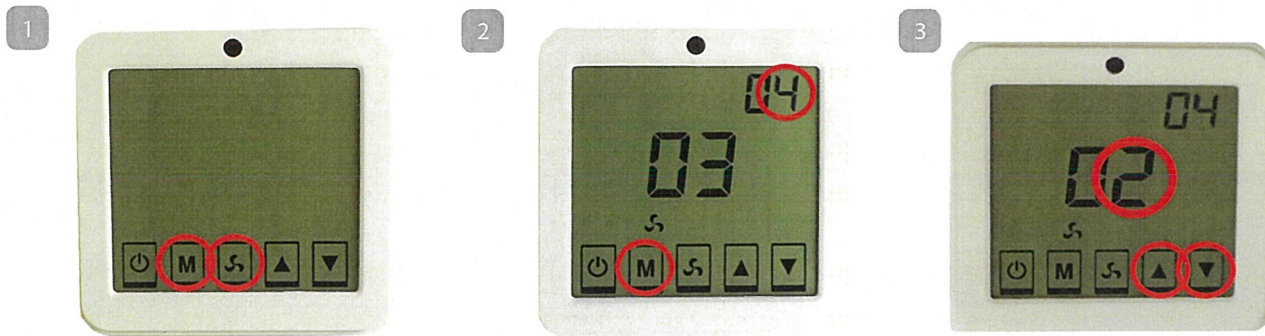
ACCESSORIES

Ducting	150mm x 3m Insulated Ducting	DCT0583
	150mm x 3m Acoustic Insulated Ducting	DCT0633
Fixtures & Fittings	150mm Duct Joiner	DCT0059
	150mm Ducting Ties	FAN0282
Upgrades	Summer Ventilation Kit	DCT1481
Strapping	2mm x 2-4m Blue Strapping	DCT2284
	Plastic Buckle with Two Prongs	DCT285

AUTOMATED THERMOSTAT INITIAL SETUP

Thank you for purchasing this heat transfer system

As you have purchased a one room heat transfer system, you will need to set up the controller before use.



Turn off your thermostat with the Power Off icon.

1. Press and hold the **M** and **S** icon for 5 seconds, then release buttons.
2. Press the **M** button until the number in the top right is 04.
3. Use the **▲** and **▼** arrows to set the fan speed selector to option 01. Wait 5 seconds and display will return to normal mode.

HEAT TRANSFER THERMOSTAT USER GUIDE



1. FAN


This displays the fan speed


The Heat Transfer model will determine which options are available.

 = Fan Speed

2. M (Mode)

This displays either  for heat transfer or  for ventilation mode. Please note you can only select the Mode if you have installed the Summer kit option.

 - (Heat Transfer) This will transfer the excess warm air from your heat source room to other rooms in your home.

 - (Ventilation) If installed, the system will switch to source the air from outside to bring cooler air in to your home in the summer months. The fan speed can then be manually selected as desired.

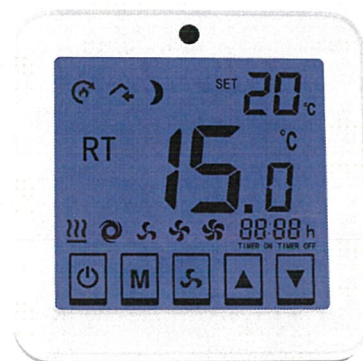
Note: Temperature set control is disabled in  function.


3. SET = Your Desired Room Temperature (available in Heat Transfer Mode only)

To adjust the set temperature use the up and down arrows.

4. RT = Room Temperature

This displays the current temperature in the room the controller is situated in.



-  Power ON/OFF
-  Fan Adjust Mode
- M** Mode
-  Set Temperature Up
-  Set Temperature Down

5. Night Moon Timer ➤

Your Heat Transfer Thermostat comes with a Sleep Mode Timer. You can set the unit to either Turn On or Turn Off after the set time.

Sleep Mode: Press and hold the Mode icon for 3 seconds, then use up or down button for confirmation.

Time On: Press and hold the Mode icon for 3 seconds, the Moon icon glitters. Then press the Mode icon again, use the up and down buttons to adjust the range.

Time Off: Press and hold the Mode icon for 3 seconds, the Moon icon glitters. Then press the Mode icon four times, use the up and down buttons to adjust the range.

After selecting the time the unit will automatically save the settings if no user input is received within 5 seconds.

6. Lock Mode

- To lock the thermostat press and hold the Adjust up and down icons together.
- The lock symbol appears in the top of the display.
- To unlock the thermostat repeat as above.

CONFIGURATION SETUP MENU

To calibrate your thermostat to operate correctly you need to enter the programming mode:

- Turn off your thermostat with the power off icon
- Press and hold the mode and fan icon for 5 seconds, then release buttons.
- Select the mode you wish to change by pressing the Mode button again, this will step through the mode options as listed below (the numbers appear in the top right corner of the display).
- The middle display is the value set for that mode.

Mode 01 - Room Temperature Correction

To correct displayed room temperature (default -1)

Mode 02 (not used)

Mode 03 (not used)

Mode 04 - Fan Option Selection

01 = Fan option with high speed selection

Mode 05 - Air Source

☼ = Heat Transfer only

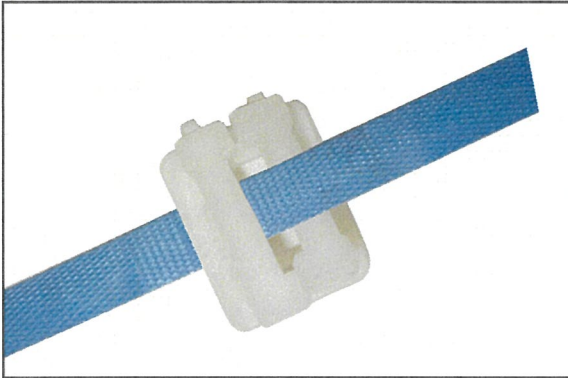
☼➔ = Heat Transfer with Summer feature

SPECIFICATIONS

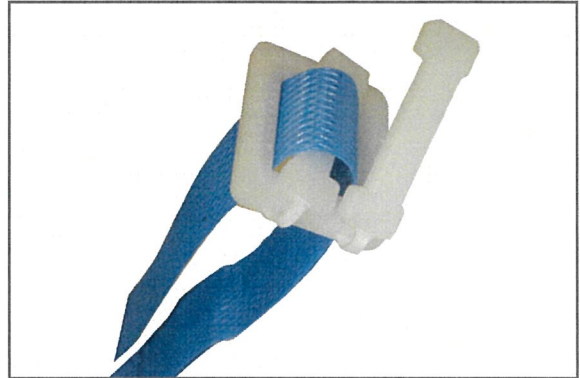
Product Code	FAN0325
Maximum Operating Temperature	45°C
Electrical Supply	220/240V AC 50 Hz 85W
Airflow (free air delivery)	117 l/s, 394m³/hr
Sound Level	38 dB(A)
Maximum Pressure	120 Pa
Compliance	AS/NZS60335.2.80:2016

HOW TO USE THE PLASTIC BUCKLE AND STRAPPING

This double strapping method will prevent the strap from slipping during handling and operation.



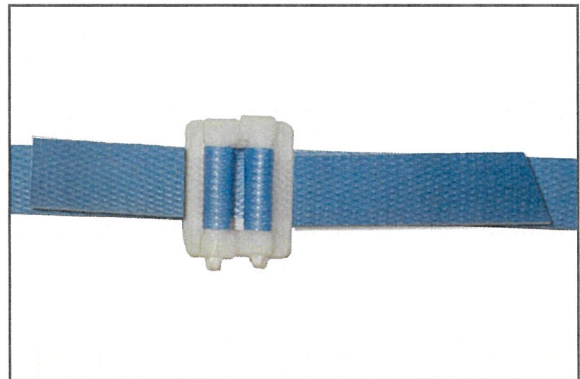
STEP 1 Hold plastic buckle in one hand and thread approximately 100mm of blue strapping through the underside of buckle.



STEP 2 Feed strapping through to fold back and down to loop over plastic prong then feed back through buckle.



STEP 3 Place strapping around load to form a loop. Using the free end of strapping, repeat Step 1 to form two looped straps over prongs of buckle.



STEP 4 With load situated in desired position tighten strapping by adjusting and tightening threaded ends through buckle.

CARTERS

CARTERS Tga SCS-COC-002434
Birch Ave, Judea
PO Box 541
TAURANGA
Ph: 07 578 9099
Fax: 07 578 1632
GST No. Number 124-229-022

Document Type
Acknowledgement

Number
TG129298

Printed: 23/05/2019 08:56:30

JOINERY - CASH SALES ONLY
PO BOX 541
SEVENTH AVENUE
TAURANGA 3140

Ph 075789099

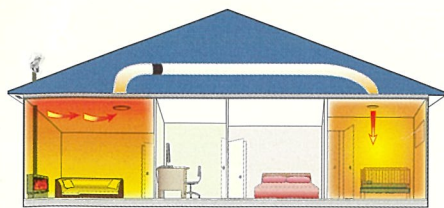
Deliver To:

JOINERY - CASH SALES ONLY
TO COLLECT ON ARRIVAL

NZ
CONTACT TIM ON ARRIVAL 0272751446

Date	Customer Number	Cust Order Number	Contract No	Delivery Date	Page 1 of 1
23 May 2019	3069714/1	TIM NEIL		29 May 2019 ANY DAY	

Product Code	Product Description	Quantity	Price	Unit	Value
HAHHSFAN0325	PRO SERIES HEAT TRANS 1 ROOM SYSTEM FAN0325	0.000	247.13	EACH	247.13
	(Backordered	1.000)			
HAHHS DCT2101	PRO SERIES HEAT TRANS ADDITIONAL ONE OUTLET EXT KIT DCT2101	0.000	84.74	EACH	84.74
	(Backordered	1.000)			
Simon Graham Simon Graham LE					
TG1404219					
SUB TOTAL					331.87
G.S.T					49.78
TOTAL					381.65
Print Name _____ Signature _____					

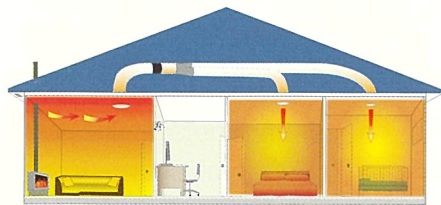


Heat Trans systems

One Room Kit: FAN0325

- 1 x Automated Touch Screen Controller
- 1 x 150mm High Performance Axial Flow Fan
- 1 x 3 Metres - 150mm Acoustic Insulated Duct
- 1 x 3 Metres - 150mm Insulated Duct

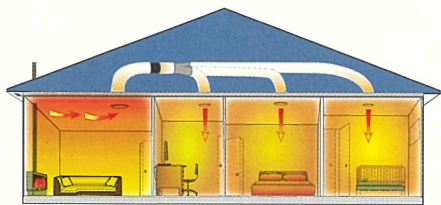
- 1 x Circular Inlet Grille
- 1 x Adjustable Circular Design Outlet Diffuser
- 2 x 45mm x 5 Metre Duct Tape



Two Room Kit: FAN0337

- 1 x Automated Touch Screen Controller
- 1 x 150mm Multi-Speed High Performance Fan
- 2 x 3 Metres - 150mm Acoustic Insulated Duct
- 2 x 3 Metres - 150mm Insulated Duct

- 1 x Y Branch
- 1 x Circular Inlet Grille
- 2 x Adjustable Circular Design Outlet Diffusers
- 3 x 45mm x 5 Metre Duct Tape



Three Room Kit: FAN0338

- 1 x Automated Touch Screen Controller
- 1 x 200mm Multi-Speed High Performance Fan
- 3 x 3 Metres - 150mm Acoustic Insulated Duct
- 2 x 3 Metres - 200mm Insulated Duct

- 1 x Double Branch Take-Off (3 Way Splitter)
- 1 x Circular Inlet Grille
- 3 x Adjustable Circular Design Outlet Diffusers
- 1 x 48mm x 30 Metre Duct Tape

All Heat Trans systems can be extended as follows:

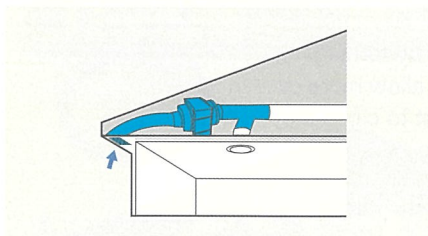
- 1 Room Kit - 6 metres supplied (can be extended to 12 metres).
- 2 Room Kit - 12 metres supplied (any one duct length can be extended up to 18 metres from inlet to outlet).
- 3 Room Kit - 15 metres supplied (any one duct length can be extended up to 21 metres from inlet to outlet).

For more information on Heat Trans visit www.heattrans.co.nz

Thru Wall Kit: FAN0005

To transfer heat from your lounge directly to an adjacent room, there is the compact through wall fan solution.

Optional extras

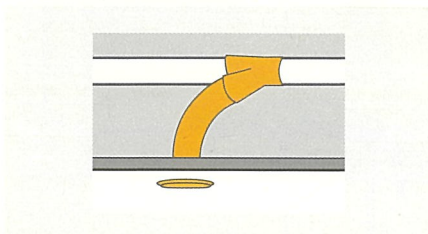


Summer Vent Extension Kit: DCT1481

Bring in cooler air during warmer months

- 1 x Branch Take Off (Splitter) including Motorised Dampers
- 1 x 200mm F7 Filter Box
- 1 x 3 Metres - 200mm Insulated Duct
- 1 x 200mm Fixed Grille
- 2 x 48mm x 5 Metre Duct Tape
- 2 x 200/150 reducers (only required if adding to a one or two room Heat Trans system)

3069714
Tim Neil



Pro Series Additional Outlet Kit: DCT2101

Extend a 3 room kit into a four room system

- 1 x Y Branch (Splitter)
- 1 x 3 Metres - 150mm Acoustic Insulated Duct
- 1 x Adjustable Circular Design Outlet Diffuser
- 2 x 48mm x 5 Metre Duct Tape



HeatTrans
Heat Transfer Specialists

Distributed by Simx Limited, PO Box 14347, Panmure, Auckland 1741, New Zealand
p: (09) 259 1660 e: enquiry@heattrans.co.nz w: www.heattrans.co.nz

We reserve the right to alter specifications without notice.

Dealer details:

Drill 6/7 15low 7/7 Install 10/7
7:30am

55986

Installer Name: Graham Job Reference Number: 2563594 Date: 16/6/15

027 8399609

Your Ultrafast Broadband Installation

Before we can start work on the installation of your new ultrafast broadband (UFB) service, we need to ask you a few questions and get you to confirm a few things.

Name:

Street Address: 97 Links Ave

City: Mt Maunganui

ONT Serial No.:

Suburb:

Email Address:

I confirm that all of the details above are correct. ☐

I confirm that:

- a. I am the owner of the premises; or ☒
b. I have written permission from the owner of the premises for Ultrafast Fibre Limited (UFF) to carry out this installation. ☐

If you are not the Customer (End User) named above, your name is:

.....
and you confirm that you are authorised to represent the End User.

Why We Are Here: When you ordered your fibre broadband (and/or phone) service from your service provider they instructed UFF to carry out the installation work, and UFF now requires you to complete this form to confirm that you understand what will happen during and after the installation of your UFB service. UFF is not your service provider, we only own the UFB network.

End User Terms: On the back of this form is a copy of the UFF End User Terms, which is the contract between you and UFF that sets out both of our rights and obligations relating to the work UFF performs and the equipment UFF is required to install, maintain, fix, relocate and operate on your premises. You may also have a contract between you and your service provider, which UFF is not a party to. UFF will not commence any installation work until you sign this form confirming that you have read and accepted the End User Terms.

Your Service Provider: As part of your installation, UFF may also be connecting your service provider's equipment. UFF is not responsible, or liable to you (or any other person) in relation to your service provider's equipment, and if you have any issues with your UFB service or your service provider's equipment you must contact your service provider.

IMPORTANT INFORMATION: Please note that if you want us to relocate or replace any of our network equipment or lines you must contact us. You will not carry out such work without our consent, and you will be liable for the costs to complete that work. It is your responsibility to contact and work with the provider of any other telecommunications related services which are connected to your premises (e.g. monitored alarms, medic alarms, SKY TV, EFTPOS) and confirm that those services will continue to work using your new UFB service, especially if the existing (copper) lines at your premises are disconnected. UFF is not responsible or liable to you (or any other person) for ensuring that those other services work.

Please confirm as applicable: ☐

- I do not have any other telecommunications related services at my property. ☒
- I am keeping a copper connection to retain my other telecommunications related services. ☐
- I have contacted the provider of my other services and they have confirmed that their services will continue to work using my UFB service. ☐

Reinstatement: As soon as reasonably practicable after the installation of your new UFB service UFF will reinstate the parts of your premises where the installation work was carried out back to as near as possible as its original state of repair (except to the extent that it is not practical to do so and leave those areas in a clean and tidy state).



Installation Work: The following is a list of the main actions which UFF may be required to complete as part of installing the UFB equipment on your premises:

Outside your home	Tick if being carried out	Initials
Hole excavation and trenching	<input checked="" type="checkbox"/>	LP
Concrete / tiling / pavement removal	<input type="checkbox"/>	
Installation of conduits	<input checked="" type="checkbox"/>	LP
Other (Please detail)	<input type="checkbox"/>	
Inside your home	Tick if being carried out	Initials
Drilling holes (small)	<input checked="" type="checkbox"/>	LP
Cutting holes in walls (large)	<input type="checkbox"/>	
Surface wiring (exposed)	<input checked="" type="checkbox"/>	LP
Removal of ceiling tiles	<input type="checkbox"/>	
Hardware installation (surface mounted)	<input checked="" type="checkbox"/>	LP
Other (Please detail)	<input type="checkbox"/>	
Additional Work / Comments		Initials

AGREEMENT: Please sign below to confirm that: (1) you have read and agree to the End User Terms; (2) you approve the installation work to be carried out on the interior and exterior of your property as stated above and explained to you; and (3) you understand and agree all of the above terms and conditions:

Signature of End User (or authorised representative)

R. J. Links

Date: 16/6/15

Signature of Ultrafast Fibre Limited Authorised Field Service Technician

Graham

Date: 16/6/15

ULTRAFAST FIBRE LIMITED – END USER TERMS

Ultrafast Fibre owns and provides the fibre broadband network over which telecommunications and data services are provided to end users, including you. Ultrafast Fibre will install (if required), maintain, operate and own that part of its network which is located on your premises. As such, you (as well as your service provider) have a direct relationship with Ultrafast Fibre, and its network. All network users (including you) benefit if Ultrafast Fibre is able to operate its entire network effectively and efficiently. Ultrafast Fibre's network on your premises will be used by service providers to provide you, and possibly others, with their services. Accordingly, before Ultrafast Fibre will install and/or make its network available for use at your premises, Ultrafast Fibre requires you to agree to be bound by, and comply with, these terms. Your service provider will be the first person to tell you about these terms and will also be the person who obtains your agreement to be bound by these terms. Your service provider will do that on behalf of Ultrafast Fibre and, when you agree to be bound, these terms will be an agreement between you and Ultrafast Fibre. You agree that, if asked to, you will provide Ultrafast Fibre with written confirmation of your agreement to these terms (for example, you may be asked to sign a copy of these terms before installation begins at your premises). These terms relate to the provision (including installation) and use of the line (and any associated equipment and infrastructure) connecting your premises to Ultrafast Fibre's wider network. These terms grant Ultrafast Fibre the right to install, locate, maintain, access and operate its network on your premises and confirm that Ultrafast Fibre owns all of its network. They also set out certain other rights Ultrafast Fibre has, and the responsibilities you have, in relation to the Ultrafast Fibre network. In these terms: "Ultrafast Fibre", "we", "our" and "us" means Ultrafast Fibre Limited; "you" (and "your") means you, the customer or end user of services which incorporate our services; "our network" has the meaning given to that term in clause 2; "network terminating point" means the portal at your premises where you will connect to our network and it includes an Optical Network Terminal (ONT), any other Network Interface Device (NID) or the secure jack or other access point where our network ends on your premises; "premises" means any property you own, occupy or have control over where our network is (or is to be) located and will include your home and section (for residential connections) and your business premises and the land or building it is located on or within (for business connections); "install" means all of the works and activities which are necessary to connect your premises to our wider network, including pre-installation design work; "maintain" means all of the works and activities which are necessary to keep your premises connected to our wider network, including inspection, replacement and relocation; "consents" means the consents and approvals needed for us to lawfully install, locate, access, maintain and operate our network in the manner allowed by these terms and acknowledgements that we will own our network at all times; "services" means all goods and services of any kind we provide to you or your service provider and includes the operation, repair and maintenance of our network; and "service provider" means any other person approved by us who provides you with any telecommunications or data services that use our network. Nothing in these terms applies to: (a) any equipment owned by a service provider which may be located at your premises or varies any agreement you may have with a service provider in respect of such equipment; and (b) a particular premises if we have agreed with your service provider that some other agreement between you and your service provider will govern your rights and obligations in relation to our network at those premises.

1. Agreement
2. Our network
3. Property damage
4. Exclusion of all other liability
5. Limitation of our liability
6. Information about you
7. Terms apply while our network is on your premises
8. Changing these terms
9. Transferring these terms or our rights
10. Each term separately binding

1. Agreement: These terms bind you and us, and apply to any premises you may at any time own, occupy or have control over where assets installed and owned by us are located. You agree that we may install, locate, access, maintain and operate our network on your premises under these terms. We may enforce these terms directly against you without any involvement from your service provider. The things you agree to do under these terms only apply to the extent you are lawfully able to do them and we do not require you to do things you have no actual power to do. Your agreement to be bound by, and comply with, these terms is in exchange for us agreeing to install and/or make our network available for use at your premises.

2. Our network: Our network includes the connecting line to your premises and all associated equipment and infrastructure (including the network terminating point), all of which is provided and owned by us and may be located in, on, over or outside of your premises. Our network does not include any line or equipment provided by someone else, even if we may use that line or equipment. Our network normally ends at our network terminating point installed inside your premises (for residential connections, this means inside your home), if you receive services from a service provider over fibre optic lines. These terms do not give you any rights in any part of our network; nor will you acquire such rights from your service provider. You must:

- let us or any of our agents or subcontractors come on or into your premises to install or work on our network or anything connected to it; we will always try to give reasonable advance notice to the occupier (including a description of the work we'll be doing) before we do it and the people we send will carry and present proof of their identity (and if the access we require to your premises is not granted this may impact on the services you or others receive from your service provider); and
- not interfere with any part of our network, even if it is on or within your premises (and if you do interfere, or instruct or allow any person who is not authorised by us to interfere) with our network, we will not be liable to you for any failure or disruption in the services you obtain from a service provider; and
- not convey or receive, or permit any person other than a service provider to convey or receive, any signal, communication or other service over or using any part of our network unless we first agree (and we may agree subject to conditions).

If you do not own your premises (or are not the only owner, unless you are a joint owner), you must ensure that the owner(s) give us written consent to install, locate, access, maintain, operate and own our network on that premises. You will be responsible to us for any loss we suffer if you do not ensure this. You also agree that, if asked, you will provide us

with written evidence of that consent. To connect your premises to our wider network we may need to install our equipment on or in adjacent land or buildings that you are not the sole (or a joint) owner of (for example, an access right of way or the risers that provide access for utilities in a commercial building). You agree that, if we ask you to, you will help us to obtain all the consents that we need to install our equipment. Unless we have all the consents we need, we have no responsibility to you for any failure to provide (or disruption of) the services you have requested (or obtained) from a service provider.

You acknowledge that:

- our network terminating point will almost always require a continuous electricity supply to operate and you are responsible for ensuring that electricity is supplied safely to where our network terminating point will be located; and
- if you connect anything to our network terminating point (including any equipment or device) that is not compliant with any relevant international connection standards, it may adversely affect services you, and possibly others, receive from your service provider and/or damage our network. More information about relevant connection standards can be found at www.ultrafastfibre.co.nz

You agree to pay for repairing or replacing any part of our network which is lost, stolen, or damaged by you or anyone you are responsible for or have control over. You also agree to use your reasonable endeavours to ensure that our rights to our network are not disrupted by anyone else.

3. Property damage: Where we or any of our contractors or agents do work on or at your premises (including installation of our network) and damage it through not taking reasonable care, we will pay the reasonable cost of repairing the damage up to a maximum of \$500,000 for any event or for any series of related events (up to a total of \$1,000,000 in any 12 month period). For us to consider your claim you must tell us within one month after you become aware that your premises are damaged. You agree not to pursue any of our contractors or agents for any such repair costs or damage. This clause 3 also applies to any liability we have to you for damage to your premises where reasonable care has been taken in carrying out work on or at your premises except that the liability limits that apply are the ones described in clause 5 below.

4. Exclusion of all other liability: We have set out your rights to claim compensation from us. We now exclude all other liability we may have to you. This exclusion applies for the benefit of these people:

- us;
- other network operators whose networks are connected to each other or to our network;
- all companies directly or indirectly owned, partly owned or controlled by any of the people listed above;
- all officers, employees, contractors and agents of all the people listed above; and
- anyone else any of the people listed above is responsible for.

Except for any liability we may have under clause 3 above, none of these people are liable to you or have to pay you for anything else caused by or resulting from anything any of them does or does not do, or delays in doing, whether or not it is contemplated or authorised by any agreement you have with us or a service provider. This exclusion applies whatever you are claiming for and however liability arises or might arise if it were not for this clause 4.

5. Limitation of our liability: We have set out your rights to claim compensation from us under clause 3 above and excluded all other liability we or any of the other people listed in clause 4 above may have to you. If we or any of the other people listed in clause 4 above are ever liable to you and, for any reason, cannot rely on the exclusion of liability set out in clause 4 above, then this clause 5 applies. Where this clause 5 applies, the maximum combined amount we and all the other people listed in clause 4 above (together) will have to pay you and anyone else who uses the services provided to you (together) is:

- \$50,000 for any event or for any series of related events; and
- a total of \$100,000 in any 12 month period.

For clarity, these liability limits also apply under clause 3 above where reasonable care has been taken in carrying out work on or at your premises. This limitation does not limit any rights you may have under the Consumer Guarantees Act 1993. If you are a business customer who has a written agreement with your service provider, the provisions of the Consumer Guarantees Act 1993 may not apply to any services we provide.

6. Information about you: You agree that service providers may share information they have gathered or hold about you with us and that we may use it and any other information we gather and hold about you (including your name and address) for the purposes of connecting your premises to our network and providing services to you and your service provider. We may also use any of that information for the purpose of obtaining, maintaining or confirming the existence of any consents we need. We will only share information we hold about you with your service provider and the agents and contractors we engage to do work on our network on your premises. We may also share information we hold about you with other persons from whom we need consents. You may ask to see information we hold about you and ask for any details that are wrong to be corrected.

7. Terms apply while our network is on your premises: These terms apply between you and us for as long as, and whenever, any part of our network is located on or at your premises. These terms (and our rights under them) are entirely independent of your relationship with any service provider. For clarity, none of the rights and benefits conferred on us under clause 2 above will come to an end or be altered as a result of your agreement with a service provider ending.

8. Changing these terms: We may change these terms by changing or removing existing terms or by adding new ones. Changes may take the form of completely new terms. We will always tell you about any changes to these terms at least one month before they come into effect. We will never change this requirement. We will tell you (and your service provider) about any changes by putting a notice on our website (www.ultrafastfibre.co.nz). Please ask us at any time for a free copy of our current terms. These terms cannot be changed by you.

9. Transferring these terms or our rights: We may transfer to someone else our rights and benefits under these terms, and our network. You agree that such a transfer can occur without the need for any consent from, or notice to, you. After a transfer, these terms (and all your obligations under these terms) will continue for the benefit of the person we transfer to. We may also hold our rights and benefits under these terms in whole or in part for the benefit of other persons who may have an interest in our network.

10. Each term separately binding: If for any reason any of these terms, or any terms you agree with a service provider, cannot be enforced or relied on by you, us or the service provider, all other terms of this agreement, and all other terms of the agreement you have with a service provider, will remain binding.

55940

Installer Name: Rayan Foye Job Reference Number: 964919 Date: 10/07/15

Your Ultrafast Broadband Installation



We want to make sure that you're happy with your ultrafast broadband (UFB) installation, so we need you to confirm a few things:

Name: ONT Serial No.: 485754433a5dbb44
 Street Address: 97 LINKS AVENUE Suburb:
 City: TAMMAMANA Email Address:

Ultrafast Fibre Limited (UFF) has now completed your UFB installation and before we go we would like to confirm the following with you:

EXTERIOR WORK: Please sign below to confirm that you are happy with the quality of the exterior work carried out at your premises and the location of the External Termination Point (ETP). The ETP is attached to the exterior of your premises and provides the link between the fibre optic network outside your premises to your internal wiring and hardware.

Signature of End User (or authorised representative)

Signature of Ultrafast Fibre Limited Authorised Field Service Technician

R. J. R. K. Date: 10/07/15

W. L. Date: 10/07/15

INTERIOR WORK: Please sign below to confirm that you are happy with the quality of the interior work carried out at your premises and the location of the optical network terminating device (ONT) and any other equipment that your service provider has asked UFF to install. The ONT is the piece of network hardware that links the fibre optic cable inside your premises and provides outputs to connect network devices (such as your internet connection and, in some cases, your telephone).

Signature of End User (or authorised representative)

Signature of Ultrafast Fibre Limited Authorised Field Service Technician

R. J. R. K. Date: 10/07/15

W. L. Date: 10/07/15

I confirm that all of the details above are correct. ☐
 I confirm that:
 I am the owner of the premises; or ☐
 I have written permission from the owner of the premises for Ultrafast Fibre Limited (UFF) to carry out this installation. ☐

If you are not the Customer (End User) named above, your name is:

.....
 and you confirm that you are authorised to represent the End User.

ADDITIONAL INFORMATION: (1) Prior to UFF installing your new fibre broadband connection, you agreed to be bound by End User Terms (a copy of which is attached). The End User Terms is the contract between you and UFF that sets out both of our rights and obligations relating to the work UFF performs and the equipment UFF is required to install, maintain, fix, relocate and operate on your premises. (2) UFF is not your service provider, we only own the UFB network. You may also have a contract between you and your service provider, which UFF is not a party to. Therefore, If you have any issues with your UFB service or your service provider's equipment you must contact your service provider. (3) It is your responsibility to contact and work with the provider of any other telecommunications related services which are connected to your premises (e.g. monitored alarms, medic alarms, SKY TV, EFTPOS) and confirm that those services will continue to work after your new UFB service is connected. UFF is not responsible or liable to you (or any other person) in relation to your service provider, their equipment or any other services connected to your premises. (4) As soon as reasonably practicable after the installation of your new UFB service UFF will reinstate the parts of your premises where the installation work was carried out back to as near as possible as its original state of repair (except to the extent that it is not practical to do so) and leave those areas in a clean and tidy state. (5) Please note that if you want us to relocate or replace any of our network equipment or lines you must contact us. You will not carry out such work without our consent, and you will be liable for the costs to complete that work. Thank you for your co-operation and enjoy your new fibre connection.

Ultrafast Fibre owns and provides the fibre broadband network over which telecommunications and data services are provided to end users, including you. Ultrafast Fibre will install (if required), maintain, operate and own that part of its network which is located on your premises. As such, you (as well as your service provider) have a direct relationship with Ultrafast Fibre, and its network. All network users (including you) benefit if Ultrafast Fibre is able to operate its entire network effectively and efficiently. Ultrafast Fibre's network on your premises will be used by service providers to provide you, and possibly others, with their services. Accordingly, before Ultrafast Fibre will install and/or make its network available for use at your premises, Ultrafast Fibre requires you to agree to be bound by, and comply with, these terms. Your service provider will be the first person to tell you about these terms and will also be the person who obtains your agreement to be bound by these terms. Your service provider will do that on behalf of Ultrafast Fibre and, when you agree to be bound, these terms will be an agreement between you and Ultrafast Fibre. You agree that, if asked to, you will provide Ultrafast Fibre with written confirmation of your agreement to these terms (for example, you may be asked to sign a copy of these terms before installation begins at your premises). These terms relate to the provision (including installation) and use of the line (and any associated equipment and infrastructure) connecting your premises to Ultrafast Fibre's wider network. These terms grant Ultrafast Fibre the right to install, locate, maintain, access and operate its network on your premises and confirm that Ultrafast Fibre owns all of its network. They also set out certain other rights Ultrafast Fibre has, and the responsibilities you have, in relation to the Ultrafast Fibre network. In these terms: "Ultrafast Fibre", "we", "our" and "us" means Ultrafast Fibre Limited; "you" (and "your") means you, the customer or end user of services which incorporate our services; "our network" has the meaning given to that term in clause 2; "network terminating point" means the portal at your premises where you will connect to our network and it includes an Optical Network Terminal (ONT), any other Network Interface Device (NID) or the secure jack or other access point where our network ends on your premises; "premises" means any property you own, occupy or have control over where our network is (or is to be) located and will include your home and section (for residential connections) and your business premises and the land or building it is located on or within (for business connections); "install" means all of the works and activities which are necessary to connect your premises to our wider network, including pre-installation design work; "maintain" means all of the works and activities which are necessary to keep your premises connected to our wider network, including inspection, replacement and relocation; "consents" means the consents and approvals needed for us to lawfully install, locate, access, maintain and operate our network in the manner allowed by these terms and acknowledgements that we will own our network at all times; "services" means all goods and services of any kind we provide to you or your service provider and includes the operation, repair and maintenance of our network; and "service provider" means any other person approved by us who provides you with any telecommunications or data services that use our network. Nothing in these terms applies to: (a) any equipment owned by a service provider which may be located at your premises or varies any agreement you may have with a service provider in respect of such equipment; and (b) a particular premises if we have agreed with your service provider that some other agreement between you and your service provider will govern your rights and obligations in relation to our network at those premises.

1. Agreement
2. Our network
3. Property damage
4. Exclusion of all other liability
5. Limitation of our liability
6. Information about you
7. Terms apply while our network is on your premises
8. Changing these terms
9. Transferring these terms or our rights
10. Each term separately binding

1. Agreement: These terms bind you and us, and apply to any premises you may at any time own, occupy or have control over where assets installed and owned by us are located. You agree that we may install, locate, access, maintain and operate our network on your premises under these terms. We may enforce these terms directly against you without any involvement from your service provider. The things you agree to do under these terms only apply to the extent you are lawfully able to do them and we do not require you to do things you have no actual power to do. Your agreement to be bound by, and comply with, these terms is in exchange for us agreeing to install and/or make our network available for use at your premises.

2. Our network: Our network includes the connecting line to your premises and all associated equipment and infrastructure (including the network terminating point), all of which is provided and owned by us and may be located in, on, over or outside of your premises. Our network does not include any line or equipment provided by someone else, even if we may use that line or equipment. Our network normally ends at our network terminating point installed inside your premises (for residential connections, this means inside your home), if you receive services from a service provider over fibre optic lines. These terms do not give you any rights in any part of our network; nor will you acquire such rights from your service provider. You must:

- let us or any of our agents or subcontractors come on or into your premises to install or work on our network or anything connected to it; we will always try to give reasonable advance notice to the occupier (including a description of the work we'll be doing) before we do it and the people we send will carry and present proof of their identity (and if the access we require to your premises is not granted this may impact on the services you or others receive from your service provider); and
- not interfere with any part of our network, even if it is on or within your premises (and if you do interfere, or instruct or allow any person who is not authorised by us to interfere) with our network, we will not be liable to you for any failure or disruption in the services you obtain from a service provider); and
- not convey or receive, or permit any person other than a service provider to convey or receive, any signal, communication or other service over or using any part of our network unless we first agree (and we may agree subject to conditions).

If you do not own your premises (or are not the only owner, unless you are a joint owner), you must ensure that the owner(s) give us written consent to install, locate, access, maintain, operate and own our network on that premises. You will be responsible to us for any loss we suffer if you do not ensure this. You also agree that, if asked, you will provide us with written evidence of that consent. To connect your premises to our wider network we

may need to install our equipment on or in adjacent land or buildings that you are not the sole (or a joint) owner of (for example, an access right of way or the risers that provide access for utilities in a commercial building). You agree that, if we ask you to, you will help us to obtain all the consents that we need to install our equipment. Unless we have all the consents we need, we have no responsibility to you for any failure to provide (or disruption of) the services you have requested (or obtained) from a service provider.

You acknowledge that:

- our network terminating point will almost always require a continuous electricity supply to operate and you are responsible for ensuring that electricity is supplied safely to where our network terminating point will be located; and
- if you connect anything to our network terminating point (including any equipment or device) that is not compliant with any relevant international connection standards, it may adversely affect services you, and possibly others, receive from your service provider and/or damage our network. More information about relevant connection standards can be found at www.ultrafastfibre.co.nz

You agree to pay for repairing or replacing any part of our network which is lost, stolen, or damaged by you or anyone you are responsible for or have control over. You also agree to use your reasonable endeavours to ensure that our rights to our network are not disrupted by anyone else.

3. Property damage: Where we or any of our contractors or agents do work on or at your premises (including installation of our network) and damage it through not taking reasonable care, we will pay the reasonable cost of repairing the damage up to a maximum of \$500,000 for any event or for any series of related events (up to a total of \$1,000,000 in any 12 month period). For us to consider your claim you must tell us within one month after you become aware that your premises are damaged. You agree not to pursue any of our contractors or agents for any such repair costs or damage. This clause 3 also applies to any liability we have to you for damage to your premises where reasonable care has been taken in carrying out work on or at your premises except that the liability limits that apply are the ones described in clause 5 below.

4. Exclusion of all other liability: We have set out your rights to claim compensation from us. We now exclude all other liability we may have to you. This exclusion applies for the benefit of these people:

- us;
- other network operators whose networks are connected to each other or to our network;
- all companies directly or indirectly owned, partly owned or controlled by any of the people listed above;
- all officers, employees, contractors and agents of all the people listed above; and
- anyone else any of the people listed above is responsible for.

Except for any liability we may have under clause 3 above, none of these people are liable to you or have to pay you for anything else caused by or resulting from anything any of them does or does not do, or delays in doing, whether or not it is contemplated or authorised by any agreement you have with us or a service provider. This exclusion applies whatever you are claiming for and however liability arises or might arise if it were not for this clause 4.

5. Limitation of our liability: We have set out your rights to claim compensation from us under clause 3 above and excluded all other liability we or any of the other people listed in clause 4 above may have to you. If we or any of the other people listed in clause 4 above are ever liable to you and, for any reason, cannot rely on the exclusion of liability set out in clause 4 above, then this clause 5 applies. Where this clause 5 applies, the maximum combined amount we and all the other people listed in clause 4 above (together) will have to pay you and anyone else who uses the services provided to you (together) is:

- \$50,000 for any event or for any series of related events; and
- a total of \$100,000 in any 12 month period.

For clarity, these liability limits also apply under clause 3 above where reasonable care has been taken in carrying out work on or at your premises. This limitation does not limit any rights you may have under the Consumer Guarantees Act 1993. If you are a business customer who has a written agreement with your service provider, the provisions of the Consumer Guarantees Act 1993 may not apply to any services we provide.

6. Information about you: You agree that service providers may share information they have gathered or hold about you with us and that we may use it and any other information we gather and hold about you (including your name and address) for the purposes of connecting your premises to our network and providing services to you and your service provider. We may also use any of that information for the purpose of obtaining, maintaining or confirming the existence of any consents we need. We will only share information we hold about you with your service provider and the agents and contractors we engage to do work on our network on your premises. We may also share information we hold about you with other persons from whom we need consents. You may ask to see information we hold about you and ask for any details that are wrong to be corrected.

7. Terms apply while our network is on your premises: These terms apply between you and us for as long as, and whenever, any part of our network is located on or at your premises. These terms (and our rights under them) are entirely independent of your relationship with any service provider. For clarity, none of the rights and benefits conferred on us under clause 2 above will come to an end or be altered as a result of your agreement with a service provider ending.

8. Changing these terms: We may change these terms by changing or removing existing terms or by adding new ones. Changes may take the form of completely new terms. We will always tell you about any changes to these terms at least one month before they come into effect. We will never change this requirement. We will tell you (and your service provider) about any changes by putting a notice on our website (www.ultrafastfibre.co.nz). Please ask us at any time for a free copy of our current terms. These terms cannot be changed by you.

9. Transferring these terms or our rights: We may transfer to someone else our rights and benefits under these terms, and our network. You agree that such a transfer can occur without the need for any consent from, or notice to, you. After a transfer, these terms (and all your obligations under these terms) will continue for the benefit of the person we transfer to. We may also hold our rights and benefits under these terms in whole or in part for the benefit of other persons who may have an interest in our network.

10. Each term separately binding: If for any reason any of these terms, or any terms you agree with a service provider, cannot be enforced or relied on by you, us or the service provider, all other terms of this agreement, and all other terms of the agreement you have with a service provider, will remain binding.

TROUBLESHOOTING

Error Code	Error Description	Control
F1	Overfill	<ul style="list-style-type: none"> Power off your machine and close the tap. Contact the customer service centre.
F2	Not draining.	<ul style="list-style-type: none"> Water discharge hose is clogged. The filters of your machine might be clogged. Power off-on your machine and activate the program cancellation command. If the error continues, contact the Customer Care Centre.
F3	Inlet valve faulty	<ul style="list-style-type: none"> Close the tap. Contact the Customer Care Centre.
F5	Inadequate water supply	<ul style="list-style-type: none"> Make sure the water tap is fully open and that there is mains water available. Close the water tap, disconnect the hose from the tap and clean the filter at the connection end of the hose. Restart your machine, contact the service if the error resumes.
F6	Faulty heater sensor	Contact the Customer Care Centre.
F7	Over temperature	Contact the Customer Care Centre.
F8	Heating error	Contact the Customer Care Centre.
F9	Divertor valve faulty	Contact the Customer Care Centre.
FE	Power supply problem	Contact the Customer Care Centre.

GENERAL WARNINGS

Please read the user manual carefully and store in a handy place for later reference. Pass the user manual on to possible new owners of the appliance.

Read the following carefully to avoid damage or injury.

Note: You must read these warnings carefully before installing or using the appliance. If you need assistance, contact your Customer Care Department. The manufacturer will not accept liability, should these instructions or any other safety instructions incorporated in this book be ignored.

Children and vulnerable people safety.



Risk of injury or permanent disability.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Do not let children play with the appliance.
- Keep all detergents away from children.
- Keep children and pets away from the appliance door when it is open.
- Cleaning and user maintenance shall not be made by children without supervision.



WARNING

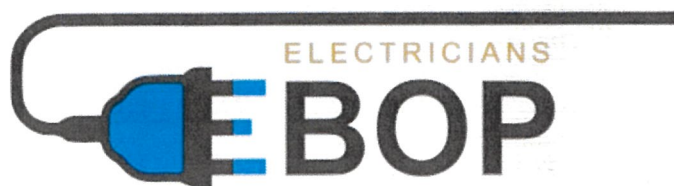
It is important to use your appliance safely. Check these safety points before using your appliance.

General Safety

- Do not change the specification of this appliance.
- The operating water pressure (minimum and maximum) must be between 0.5 (50) / 8 (800) bar (kPa)
- Obey the maximum number of 15 place settings.
- If the supply cord is damaged, it must be replaced by the manufacturer, its Authorised Service Centre or similarly qualified persons in order to avoid a hazard.
- Put knives and cutlery with sharp points in the cutlery basket with the points down or in a horizontal position.
- Do not leave the appliance door open without supervision to prevent causing a trip hazard.
- Before maintenance, turn the appliance off and disconnect the plug from the mains.
- Do not use water spray and steam to clean the appliance.
- The appliance is to be connected to the water mains using the new supplied hose-sets. Old hose sets must not be reused.
- The ventilation openings in the base (if applicable) must not be obstructed.
- Some dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with the skin and eyes and keep children away from the dishwasher when the door is open.
- Check that the detergent receptacle is empty after completion of the wash cycle.

Installation

- Remove all the packaging.
- Do not install or use a damaged appliance.
- Do not install or use the appliance where the temperature is less than 0°C.
- Obey the installation instruction supplied with the appliance.
- Make sure that the appliance is installed below and adjacent to safe structures.



Electricians BOP LTD
22 Macdonald Street, Unit 1
PO BOX 4267
Mount Maunganui
Tauranga, 3116
ryan@electricians-bop.co.nz
0800267353

97 Links Avenue
Mount Maunganui
Tauranga, 3116

Site Address
97 Links Avenue
Mount Maunganui,
Tauranga, 3116

Invoice Number: INV-05812
Job Number: J-3077
Invoice Date: 29th Aug 2019
Due Date: 12th Sep 2019
GST Number: 112-332-537

Tax Invoice | INV-05812

Thanks for using us!

Name	Quantity	Price	Total
J-3077a Small Jobs			
Small jobs as requested.			
Power for owner supplied heat transfer unit			
Wire and connect owner supplied heat light vent unit in the bathroom			
Connect 2x ceiling fans			
Anders Lind 19/07/2019	7.50	\$65.00	\$487.50
Kristian Hosie 19/07/2019	7.50	\$50.00	\$375.00
			\$862.50

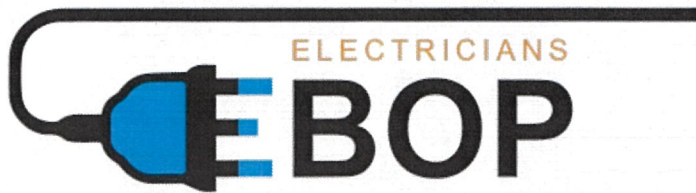
Materials

20200032 1.0mm 3C TPS YL sheath	24.00	\$1.24	\$29.76
14850199/100 1.0mm 2C+E TPS 100m	29.00	\$0.89	\$25.81
			\$55.57

Subtotal	\$918.07
GST Amount	\$137.71
Total	\$1,055.78

Invoices are to be paid by the due date stated at the head of the invoice. Our preferred method of payment is internet banking as we do not have Eftpos facilities on site. Please include your invoice number or customer number as reference. This is a PAYMENT CLAIM under the construction contracts ACT 2002.

Bank Account **02-0432-0093167-000** Invoice Number **INV-05812**



Electricians BOP LTD
22 Macdonald Street, Unit 1
PO BOX 4267
Mount Maunganui
Tauranga, 3116
ryan@electricians-bop.co.nz
0800267353

Tim Neil
97 Links Avenue
Mount Maunganui
Tauranga, 3116

Site Address
97 Links Avenue
Mount Maunganui,
Tauranga, 3116

Invoice Number: INV-05867
Job Number: J-3077
Invoice Date: 9th Oct 2019
Due Date: 23rd Oct 2019
GST Number: 112-332-537

Tax Invoice | INV-05867

Thanks for using us!

Name	Quantity	Price	Total
J-3077a Small Jobs			
Small jobs as requested.			
Power for owner supplied heat transfer unit			
Wire and connect owner supplied heat light vent unit in the bathroom			
Connect 2x ceiling fans			
Anders Lind 19/07/2019	6.00	\$65.00	\$390.00
Kristian Hosie 19/07/2019	6.00	\$50.00	\$300.00
			\$690.00

Materials

20200032 1.0mm 3C TPS YL sheath	24.00	\$1.24	\$29.76
14850199/100 1.0mm 2C+E TPS 100m	29.00	\$0.89	\$25.81
			\$55.57

Subtotal \$745.57
GST Amount \$111.83
Total \$857.40

Invoices are to be paid by the due date stated at the head of the invoice. Our preferred method of payment is internet banking as we do not have Eftpos facilities on site. Please include your invoice number or customer number as reference. This is a PAYMENT CLAIM under the construction contracts ACT 2002.

Bank Account **02-0432-0093167-000** Invoice Number **INV-05867**

**HOMEPLUS TAURANGA / MOUNT MAUNGANUI**

15 NEWTON STREET, MOUNT MAUNGANUI

PO BOX 2483, TAURANGA

Phone: 07 574 7281

Email: tauranga@homeplus.co.nz

*Custom made for your home***TAX INVOICE**

Louise Pike
97 Links Avenue
Mount Maunganui
Mount Maunganui 3116
NEW ZEALAND

Date
15 Dec 2015

Jacam Limited
T/A HomePlus Tauranga
GST Number 85 755 366

Invoice Number
INV-6667

Description	Quantity	Unit Price	GST Amount	Amount Inc GST
To Supply and Install - Amplimesh 103 Grille Security Door - Powder Coated Arctic White - Insect Mesh - Single Point/Keyed Snib Lock				
Lounge/Dining Sliding Door	1.00	730.43	109.57	840.00
Entry Hinged Door	1.00	626.09	93.91	720.00
Total GST 203.48				
Total Invoice Amount Including GST				1,560.00
Less Payments Received				780.00
Amount Due				780.00

Due Date: 12 Feb 2016

Please note: a deposit of 50% is required on acceptance of your quote, with balance on installation. Quotes are valid for 30 days. For direct credit please use: BNZ Tauranga 02 0432 0084615 000 and use your invoice number as the reference. Please call our office to discuss alternate payment methods.

TAX INVOICE



To TIM NEIL
97 Links Avenue
Mount Maunganui
Mount Maunganui 3116
NEW ZEALAND

Invoice Number INV-0452

Reference BATHROOM ADDITIONS

GST Number 130-385-125

Issued 15 May 2021

Due 21 May 2021, [Due in 3 days](#)

From Green Electrical & Inspections Ltd
13B Lorna Place
Brookfield
Tauranga 3110
accounts@greenelectrical.nz
Paul Green 0275828213

Description	Quantity	Unit Price	Amount NZD
CABLE 1.5MM 2C + EARTH FLAT TPS WHITE	5.00	2.08	10.40
HPM FLUSH BOX UNIVERSAL	1.00	1.15	1.15
PDL RCD SINGLE SOCKET 30MA - WHITE	1.00	118.50	118.50
CONSUMABLES	1.00	5.00	5.00
CERTIFICATE OF COMPLIANCE	1.00	13.00	13.00
TRAVEL EXPENSES	1.00	15.00	15.00
LABOUR - REGISTERED ELECTRICIAN	2.00	62.50	125.00

Subtotal 288.05

Total GST 15% 43.21

Amount Due NZD 331.26

Attached Documents

TIM NEIL - C.O.C - 97 LINKS AVE - 15MAY 2021.pdf

Paid 18 May 2021

For online banking, please credit the following account with invoice number as reference.

ANZ 06-0433-0607238-00

All accounts are payable upon completion of work unless prior arrangement has been made with management or 20th month account arranged.

We reserve the right to charge interest at 2.5% per month and to charge a late payment penalty of 10% on any overdue



Electrical Workers Registration Board

SAFETY | COMPETENCY | COMPLIANCE

Electrical Certificate of Compliance and Electrical Safety Certificate

Reference/Certificate ID No:



This form has been designed to be used by licensed electrical workers to certify that installations or Part installations under **Part 1 or Part 2 of AS/NZS 3000** are safe to be connected to the **specified** system of electrical supply.

LOCATION AND CONTACT

Location Details: BATHROOM ADDITIONS

Contact Name: TIM NEIL

Contact Address: 97 LINKS AVE

MT MAUNGANUI Postcode 3116

Name of Electrical worker: PAUL GREEN

Registration/Practising licence number: I253576

Organisation/company: GREEN ELECTRICAL & INSPECTIONS LIMITED

Phone: 0275828213

Email: paul@greenelectrical.nz

Name of person(s) supervised:

CoC

Type of work:



Additions



Alterations



New work

The prescribed electrical work is:



Low risk



General



High risk (specify):

Reference Standards:



Part 1 of AS/NZS 3000



Part 2 of AS/NZS 3000



Additional Standards:

Description of work: (including date/s of work and type of supply system)

INSTALL AN RCD POWER OUTLET IN THE BATHROOM ON EXISTING CIRCUIT.
UPGRADE RANGE FUSE TO PLUG IN MCB TYPE ON SWITCHBOARD.

I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct in that the installation, or part of the installation:

Select those that apply:

- ☐ Has been installed in accordance with the specified certified design¹
- ☒ Has an earthing system that is correctly rated (where applicable)
- ☒ Contains fittings that are safe to connect to a power supply
- ☐ Relies on a supplier Declaration of Conformity¹
- ☒ Has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010
- ☒ Is safe to connect

Electronic/Other reference: SCOTT ELECTRICAL

Certifier's signature:

P. Green

Test Results	
Polarity (independent earth):	—
Insulation resistance:	✓
Earth Continuity:	✓
Bonding:	—
Fault Loop impedance:	✓
Other (specify):	20 ✓

Date: 15 / 05 / 2021

¹ Attach or reference. If it is impractical to attach a copy of a particular manufacturer's instructions, or of any certified design or supplier declaration of conformity, provide a reference to where the documents can be found, in a readily accessible format, by electronic means.

ESC

I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.

Certifier's name: PAUL GREEN

Registration/Practising licence number: I253576

Certifier's signature:

P. Green

Certificate Issue Date:

15 / 05 / 2021

Connection Date:

15 / 05 / 2021

CUSTOMER COPY - THIS IS AN IMPORTANT DOCUMENT AND SHOULD BE RETAINED FOR A MINIMUM OF 7 YEARS

This certificate also confirms that the electrical work complies with the building code for the purposes of Section 19(1)(e) of the Building Act 2004.

Ceiling Fan Company 2015 NZ Ltd

20/23 Tukorako Drive
Mt Maunganui

Tax Invoice

Ph. : 07-575 2200 Fax : 07-575 2210
0800 326748 0800FANS4U
Email : ceilingfan@xtra.co.nz

Tax Invoice No.: 00005964
GST Reg. Number: 117-993-930

Bill To: CF2000

Ship To:

CASH SALE

SALESPERSON	YOUR NO.	SHIP VIA	SHIP DATE	TERMS	DATE	PG.
Sam Simpson	PIKE	Pick Up		Net 20th after EOM	25/10/2016	1

QTY.	ITEM NO.	DESCRIPTION	PRICE	UNIT	DISC %	EXTENDED PRICE
1	CF 4152 BN/DM	FAN 4 BLADE 52" BRUSH NKL D/	\$289.48			\$289.48

COMMENT

We appreciate your business.

SALE AMT.	\$289.48
FREIGHT	\$0.00
GST	\$43.42
TOTAL AMT.	\$332.90
PAID TODAY	\$0.00

Direct credit Banking Details - Westpac Bank
03-1720-0001786-000
Please use invoice number as reference.

BALANCE DUE \$332.90

Ceiling Fan Company 2015 NZ Ltd

20/23 Tukorako Drive
Mt Maunganui

Tax Invoice

Ph. : 07-575 2200

0800 326748 0800FANS4U

Email : ceilingfan@xtra.co.nz

Tax Invoice No.: 00007674

GST Reg. Number: 117-993-930

Bill To:

Ship To:

CASH/SALE

TIM NEIL

ALESPERSON	YOUR NO.	SHIP VIA	SHIP DATE	TERMS	DATE	PG.
Sam Simpson	NEIL	Pick Up		Net 20th after EOM	25/10/2018	1

QTY.	ITEM NO.	DESCRIPTION	PRICE	UNIT	DISC %	EXTENDED PRICE
1	CF 4152 BN/DM	FAN 4 BLADE 52" BRUSH NKL D/	\$289.48			\$289.48

COMMENT

We appreciate your business.

Direct credit Banking Details - Westpac Bank
03-1720-0001786-000
Please use invoice number as reference.

SALE AMT.	\$289.48
FREIGHT	\$0.00
GST	\$43.42
TOTAL AMT.	\$332.90
PAID TODAY	\$0.00

BALANCE DUE \$332.90

Champness Roofing: *Your roofing specialist,*