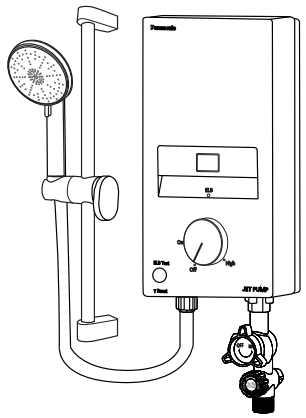
Panasonic®

Operating and Installation Instructions
Panduan Penggunaan dan Pemasangan
Electric Home Shower (Household Use)
Pancuran Mandi Elektrik (Penggunaan Isi Rumah)



Model No.
No. Model DH-3XS1 DH-4XS1
DH-3XP1 DH-4XP1

*Illustration may vary from actual product design

Thank you for purchasing the Panasonic Electric Home Shower.
This appliance is intended for household use only.
For optimum performance and safety, please carefully read this Operating and Installation Instructions and keep this documentation in a safe place for future reference.

Terima kasih kerana memilih Pancuran Mandi Elektrik Panasonic.
Produk ini hanya untuk kegunaan di rumah sahaja.
Sila baca semua arahan ini dengan teliti demi keselamatan dan penggunaan yang optimum dan simpan Panduan Penggunaan ini di tempat yang selamat untuk rujukan di masa hadapan.

Operating and Installation Instruction / Panduan Penggunaan dan Pemasangan

For website version, please scan the QR code.
Untuk versi digital, sila imbas kod QR.

https://p-cube.panasonic.com/malaysia/s/global-search/DH940A-3XS1

Scan for English & B. Malaysia version
Imbas untuk versi English & B. Malaysia

Warranty registration / Pendaftaran waranti

The warranty can be registered online.
Please visit the website by scanning the QR code.
Waranti boleh didaftarkan secara talian.
Sila layari laman web dengan mengimbas kod QR.

Only Malaysia / Malaysia Sahaja

https://club.panasonic.com/my_en/customer/account/login/

Note / Nota

For hard copy warranty card, please refer to last page.
Untuk salinan kad waranti, sila rujuk halaman terakhir.

English

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B. Malaysia

ISI KANDUNGAN

SEBELUM MENGGUNAKAN PANCURAN MANDI ELEKTRIK MY2
LANGKAH-LANGKAH KESELAMATAN MY2
AKSESORI MY4
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KAD JAMINAN ..... MUKA SURAT BELAKANG

BEFORE USING ELECTRIC HOME SHOWER

SAFETY PRECAUTIONS

To be followed absolutely

Before operating, please read the following "Safety Instructions" carefully.
To prevent personal injury, injury to others and property damage, the following instructions must be followed.

■ **Incorrect operation caused by failure to follow instructions will cause harm or damage, the seriousness of which is classified as follow:**

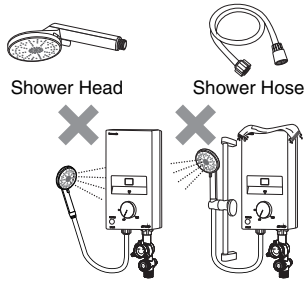
⚠ WARNING	This sign warns of death or serious injury.	⚠ CAUTION	This sign warns of injury to users or damage to property.

■ **The instructions to be followed are classified by the following symbols:**

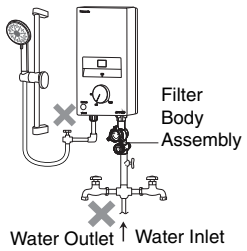
This symbol (with a white background) denotes an action that is PROHIBITED.	**This symbol (with a black background) denotes action that is COMPULSORY.**

⚠ WARNING

- **If the ELB Reset Lever cannot be reset even if you push it up or if it soon slides down during operation, please do not use the Electric Home Shower Unit and contact the authorized dealer immediately to avoid a hazard to users such as damage to property, serious injury or death. Never fix the ELB Reset Lever forcibly with tape, etc.**
- **Do not insert finger or other objects into the Unit to avoiding physical and electric shock hazards.**
- **Do not replace the Shower Head, Shower Hose, Rain Shower Head or any other parts of the Unit with spare parts other than genuine parts.**
  - Parts for other models will not fit to this model and may cause hazardous condition to user.



- **Do not spray water to the Unit, nor put wet towels on it to avoid from coming into contact with any live parts etc., in order to prevent smoke emission, ignition, fire and electric shock hazards.**
- **This appliance is not to be used for a potable water supply.**
- **Metallic / chrome hose and conductive control valve shall not be used.**
- **Plug, socket and undersize cable shall not be used.**
- **Do not share the inlet or outlet pipe of Home Shower unit with other outlets. The pressure may drop duo to water being drawn off at other point. The shower temperature may become very hot.**



- **Do not install, remove and reinstall the unit by yourself.**
  - Improper installation will cause leakage, electric shock or fire. Installation shall be done by competent person recommended by the manufacturer, and/or authorized dealer.
- **The water inlet of this appliance shall not be connected to inlet water obtained from any other water heating system.**

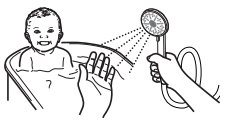
- **The Installation shall comply with GP/ST/No. 6/2016, *Guideline for the Design, Installation, Inspection, Testing, Operation and Maintenance of Water Heater Systems by Energy Commission*.**
- **Only fixed and permanent connection is allowed, plug and socket shall not be used. In the case where a direct connection cannot be made to the water heater, only correctly sized approved connector and connection box shall be used.**
- **For connection within the shower cubicle and below the ceiling, the connection box shall be IPX5.**
- **An approved, correctly sized (MS IEC 60335-1:2013) copper fl exible with maximum 1.5 m length, shall be used to connect the water heater to the connection box.**
- **Minimum cable size must be not less than 2.5 mm².**

⚠ WARNING

- **The Unit must be earthed.**
  - Improper grounding could cause electric shock.

- **(Risk of smoke / fire / electric shock / scalding)**
  Example of abnormality / failure:
  - The ELB Reset Lever cannot be reset. Please refer to “TEST OPERATION” at page EN15.
  - Burnt odor or smoke is detected during operation.
  - The Front Plate / Back Plate is deformed or abnormally hot.
  - The outlet water temperature become extremely hot and cannot be controlled using the Power Knob.
    → Contact your authorized dealer immediately for maintenance / repair.

- **Switch off the Miniature Circuit Breaker (MCB) before any service to avoid electric shock hazards.**
- **In time of lightning / thunder, switch OFF the Miniature Circuit Breaker (MCB) in advance to protect the Electric Home Shower Unit against possible damage.**
- **Inspect on the built-in ELB and the main switch board of the premise (once a month) to avoid a hazard to users such as damage to property, serious injury or death. Please refer to “TEST OPERATION” at page EN15.**
- **Each time shower water is turned ‘ON’, check the water temperature by hand before showering.**
- **When the shower is used by someone such as child, old person, sick person and physically handicapped person, the person responsible for their safety is kindly requested to pay attention and check the shower temperature by using hand from time to time.**

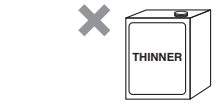


- **Pay attention to shower temperature when reducing the volume of water.**
  - The shower temperature will become very hot if the water flow rate is too low.
- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of 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.**
- **Switch off the Unit when not in use.**

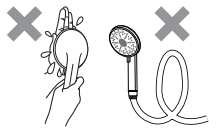
English

⚠ CAUTION

- **Never use benzene, thinner, bleaching agent, etc. for cleaning purpose to avoid smoke emission, ignition, fire and electric shock hazards.**

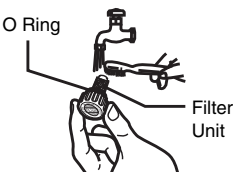


- **Avoid using dirty water as it may affect heater performance and other components.**
- **Do not block the Shower Head with hand, towel or bend the hose. The water flow rate will drop and water temperature may become very hot.**

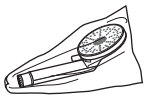
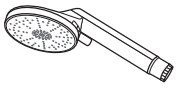
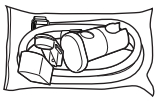
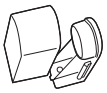
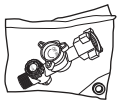
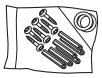


- **In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.**

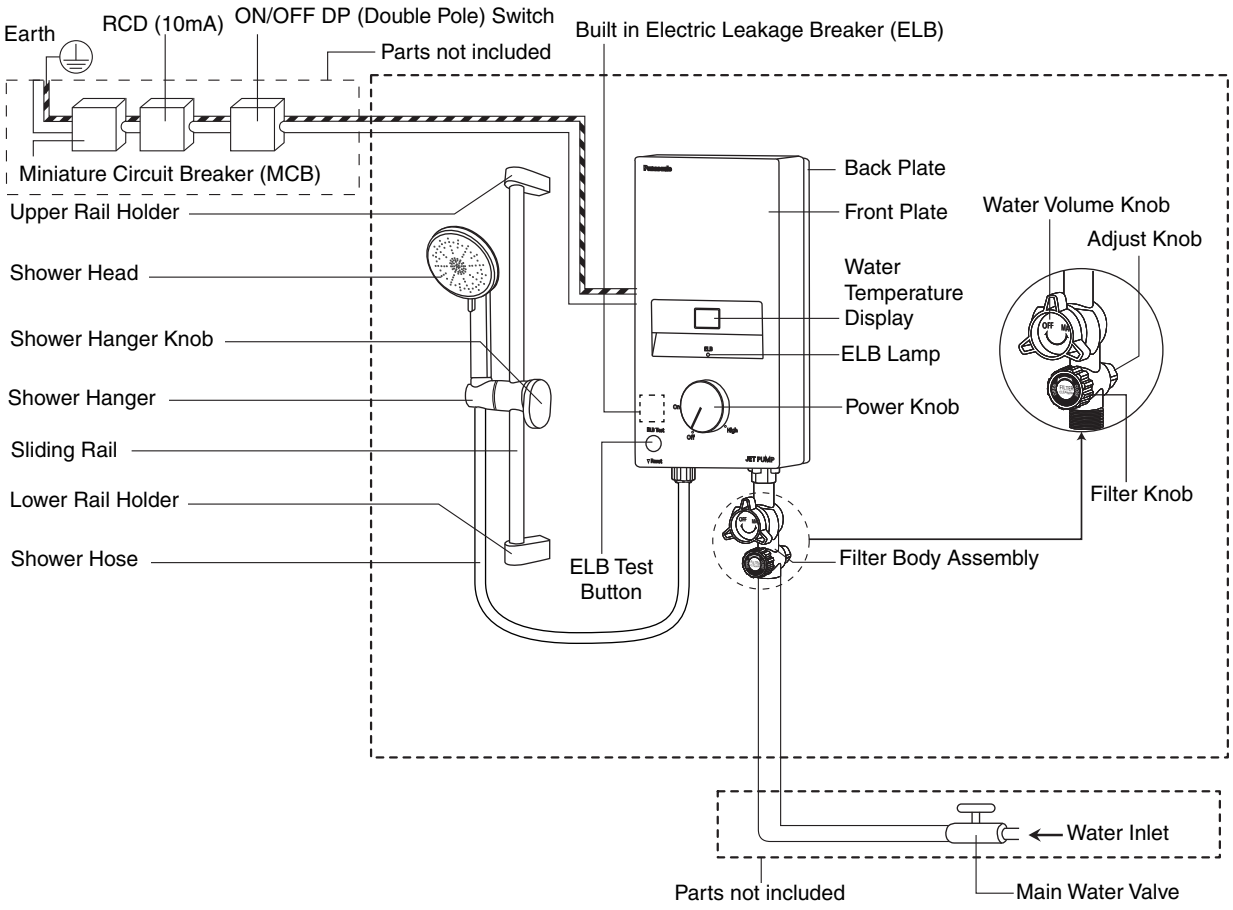
- **Please make sure the O Ring is not removed and shall be free from foreign particle to avoid water leaking.**

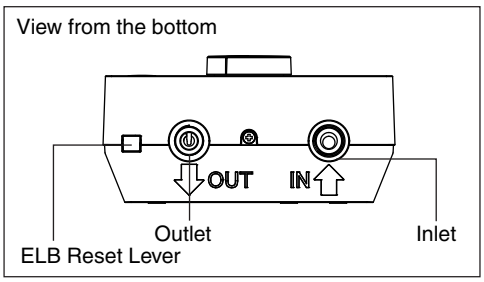


ACCESSORIES

Packing:	Included Items:		
 Shower Head Packing	 Shower Head (1 set)		
 Shower Hanger Packing	 Shower Hose (1 set)	 x 2 Rail Holder (2 sets)	 Shower Hanger Ass'y (1 set)
 Filter Body Packing	 Filter Body Assembly (1 set)	 Rubber Packing (1 pc)	 Filter Body Assembly Caution Sheet (1 pc)
 Sliding Rail	 Sliding Rail (1 pc)		
 Installation Packing	 x 6 Wall Plug (6 pcs)	 x 2 Rubber Packing (2 pcs)	 x 6 Screws (6 pcs)
 Installation Template	 Installation Template (1 pc)		

PARTS IDENTIFICATION

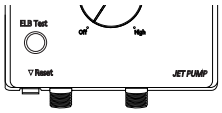




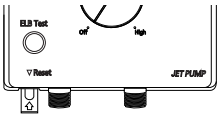
English

HOW TO USE

1. Switch On the Miniature Circuit Breaker (MCB) and ON/OFF DP (double pole) Switch.
2. Push up the ELB Reset Lever if it is down.
3. Turn the Water Volume Knob anticlockwise to turn on the water (make sure the Main Water Valve is on).
   (Water will flow out from Shower Head at inlet water temperature).
4. Turn the Power Knob to On. The Water Temperature Display will indicate the outlet water temperature.
5. The shower temperature can be gradually controlled by turning the Power Knob. If turn the Power Knob clockwise the shower temperature will increase, reaching the highest temperature at 'High'.



ELB: ON condition



ELB: OFF condition


Power Knob



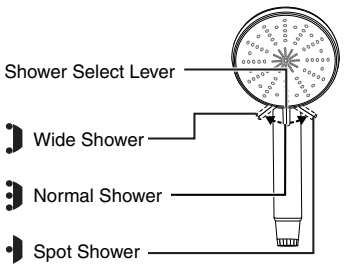
Water Temperature Display

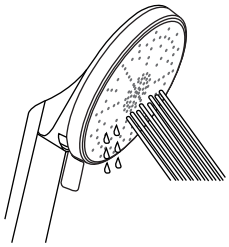
- Turning the Water Volume Knob anticlockwise increases the water flow and decreases the water temperature.
- Turning the Water Volume Knob clockwise decrease the water flow and increase the water temperature. (Please refer WATER FLOW RATE ADJUSTMENT at page EN7).

6. When the outlet water temperature exceeds 47 °C, Water Temperature Display will blink 'HI'. This is normal, nevertheless please pay attention to shower temperature when display shows 'HI'.



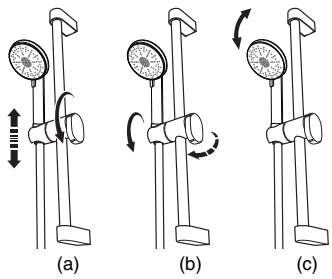
7. It is normal for the Water Temperature Display to indicate the ambient sensor temperature when there is no water flow.
8. Select the preferred shower by turn the Shower Select Lever.



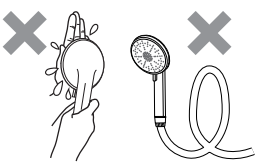


Note:
When stop the water flow or change water shower selection from Wide Shower to Spot Shower, some water will continue to drip from Shower Head for less than 2 minutes. This is normal due to some water remain in the Shower Head and no abnormality to the Unit.

9. After using this Unit, please switch off the Unit by turning off the Power Knob and turn off the water supply by turning the Water Volume Knob clockwise until the water flow is completely stopped. Although water flow is stopped, pump will continue running if the Power Knob is not turned off.
10. Shower Head can be set at various positions.
    a) Loosen Shower Hanger Knob and Shower Hanger can be adjusted higher or lower position.
       Tighten Shower Hanger Knob.
    b) Loosen Shower Hanger Knob and Shower Hanger can be adjusted to the left or right position.
       Tighten Shower Hanger Knob.
    c) The angle of Shower Head can be adjusted by moving the Shower Head upward and downward.



Note: In case of no water supply, close the Water Volume Knob by turn it clockwise and make sure Power Knob is in Off condition. This to prevent unnecessary water flow from Shower Head after the water supply recovered.



⚠ CAUTION

Do not block the Shower Head with hand, towel or bend the Shower Hose. The water flow rate will drop and water temperature may become very hot.

WATER FLOW RATE ADJUSTMENT

1. How to adjust to maximum water flow rate.

Step 1 : Select Wide Shower mode on the Shower Head using the Shower Select Lever (refer Figure 1).

Step 2 : Turn OFF the Main Water Valve.

Step 3 : Turn the Shower Head upward at waist height.

Step 4 : Turn the Water Volume Knob anticlockwise to maximum volume position (refer Figure 2).

Step 5 : Gradually turn On the Main Water Valve and adjust the splashing height (H) of the shower.
It is recomended to adjust the water splashing height (H) at 35 cm ~ 45 cm (approximately 3 L/min).
(If splashing height (H) is too high, hot water temperature will drop because of an excessive flow rate).

Note:
1. Pay attention to shower temperature when reducing the volume of water.
The shower temperature will become very hot if the water flow rate is too low.
2. Water Volume Knob is at maximum position at this stage (refer Step 4).
Please adjust it to suitable flow rate using the Water Volume Knob by turning it clockwise.

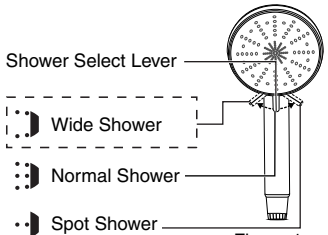


Figure 1

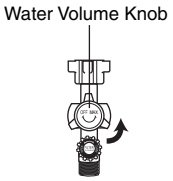
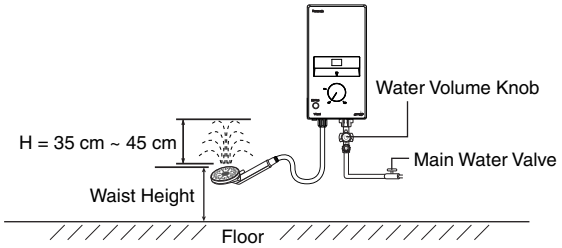


Figure 2



English

MAINTENANCE

⚠ WARNING	**Switch Off the Miniature Circuit Breaker (MCB) before any service to avoid electric shock hazards.**

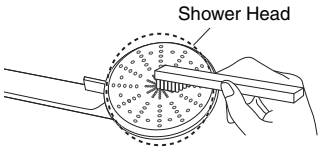
1. Main Body cleaning.

Be sure to switch OFF the Miniature Circuit Breaker beforehand.

1) Clean it with moist cloth.
2) Never use benzene, thinner, detergent, bleach, etc.
3) Do not spray water to the Unit, nor put wet towels on it.
4) Make sure to use suitable cloth to clean the Front Plate surface to avoid scratch.

2. Shower Head cleaning.

1) Clean the Shower Head's holes by using a soft brush from time to time. (Recommended once a week).

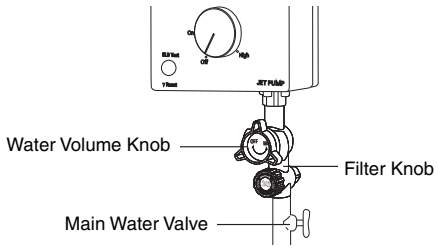


3. Filter Unit Cleaning (Filter Unit is fixed to Filter Knob).

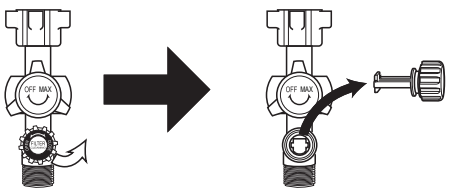
Clean the Filter of the Filter Unit with water once a week.
Clean the Filter Unit when hot water is not drawn normally.

Dismantle, cleaning and assemble of Filter Unit.

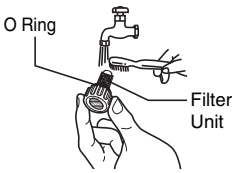
① Close the Main Water Valve.



② Turn the Filter Knob anticlockwise and pull it out.

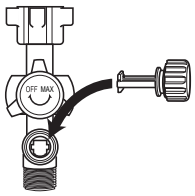


③ Clean the Filter Unit.



⚠ CAUTION	**Please make sure the O Ring is not removed and shall be free from foreign particle to avoid water leaking.**

④ Insert the Filter Unit and tighten it properly (clockwise).



⑤ Turn the Water Volume Knob to its original position base on Water Flow Rate Adjustment at page EN7.

TROUBLESHOOTING

1. Check the following points before asking for repair.

Symptom	Points to be checked
Water is not drawn normally.	1. Check the Filter Unit. Clean the Filter if it is clogged by stain and dirt (refer Filter Unit Cleaning at page EN8). 2. Check the Shower Head. Clean the Shower Head if it is clogged by dirt (refer Shower Head Cleaning at page EN8).
No hot water comes out from the outlet (no electric supply to the Unit).	1. Make sure Power Knob not at Off position. 2. Make sure the ELB Reset Lever is not slide down. Push up the ELB Reset Lever to reset the ELB (refer to TEST OPERATION at page EN15). 3. Make sure to switch on the ON/OFF DP (double pole) Switch. 4. Make sure to switch on the Miniature Circuit Breaker (MCB).
No water flows out from the Shower Head at all.	1. Check the Water Volume Knob. Turn the Water Volume Knob anticlockwise if it is closed. 2. Check the Main Water Valve. Turn ON the Main Water Valve if it is closed (refer to HOW TO USE at page EN6).
Water not hot enough.	1. Check the WATER FLOW RATE ADJUSTMENT as in page EN7.

2. If abnormalities as mentioned below are found during usage, please do not use the Unit and contact your authorized dealer immediately.
   - Water leakage.
   - No water flow.
   - Water temperature cannot be controlled.
   - ELB lamp does not light up.
   - No display on Water Temperature Display.
   - E2 blinking at Water Temperature Display.
3. Special skill is required for repairing. Never try to repair the Unit by yourself.

SPECIFICATIONS

Model No.	DH-3XS1	DH-4XS1	DH-3XP1	DH-4XP1
Voltage	240 V a.c. 50 Hz			
Power Consumption	3800 W	4500 W	3800 W	4500 W
Electric Power Control	Inlet Water Temp. (Off), 1000 W ~ 3800 W	Inlet Water Temp. (Off), 1000 W ~ 4500 W	Inlet Water Temp. (Off), 1000 W ~ 3800 W	Inlet Water Temp. (Off), 1000 W ~ 4500 W
Min. Water Pressure	9.8 kPa / 0.1 kgf/cm² / 1.42 psi		4.9 kPa / 0.05 kgf/cm² / 0.71 psi	
Max. Water Pressure	380 kPa / 3.87 kgf/cm² / 55 psi			
Dimension	380 (H) mm x 190 (W) mm x 82 (D) mm			
Weight	1.4 kg	1.5 kg	2.5 kg	2.6 kg
Outlet System	Single Point System (Open Outlet)			

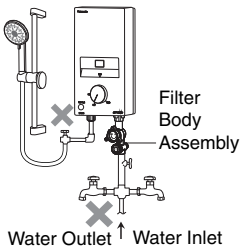
HOW TO INSTALL ELECTRIC HOME SHOWER

⚠ WARNING

- **Proper size of Flexible Cord and electric wiring must be installed to avoid smoke emission and fire hazards.**
- **During installation process make sure electric and water supply is turn OFF.**
- **The home shower must be permanently connected to the electric supply through the ON/OFF DP (double pole) Switch having a contact separation of at least 3 mm in all poles incorporated in the fixed wiring. This switch must be clearly identifiable but out of reach of a person using a fixed bath or shower.**
- **Do not tamper the Unit during installation or warranty will be void.**

- **The Unit must be earthed.**
  - Improper grounding could cause electric shock.

- **Never install Filter Body Assembly at the outlet, inlet water cannot be filtered and allows foreign particles to enter the Unit. It will cause Heater Unit and Shower Head to clog up.**
- **Do not install, remove or reinstall the Unit by yourself.**
  - Improper installation will cause leakage, electric shock or fire. Installation and wiring must be done by competent personnel.
- **Do not share the inlet and outlet pipe of the Home Shower Unit with other outlets.**
  - The pressure may drop due to water being drawn off at other point. The shower temperature may become very hot.



⚠ CAUTION

- **Flexible Cord must enter the Unit thru designated point only (do not make additional holes).**

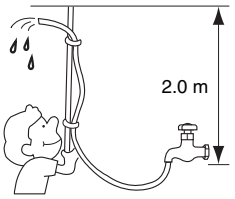
BEFORE INSTALLATION

1. Make sure water flow pressure.

Min. water pressure : 9.8 kPa / 0.1 kgf/cm² / 1.42 psi (DH-3XS1 / DH-4XS1)
4.9 kPa / 0.05 kgf/cm² / 0.71 psi (DH-3XP1 / DH-4XP1)

Max. water pressure : 380 kPa / 3.87 kgf/cm² / 55 psi

- How to measure the water pressure is as illustrated. Water should flow out of the Hose 2.0 m above the Main Water Valve.



Note:
When removing the Unit from package, some water may be found inside.
This is normal as the Unit is tested during the manufacturing process.

HOW TO INSTALL

⚠ WARNING

During installation process make sure electric and water supply is turn OFF.

1. Where to install the Unit.

- Be sure to install the Unit on the wall as illustrated in Figure 1 (vertical position with the water fittings pointing downward).
- Do not install the Unit on uneven wall as shown in Figure 2.
- The Unit must be installed at 1.5 m ~ 1.7 m above the floor.

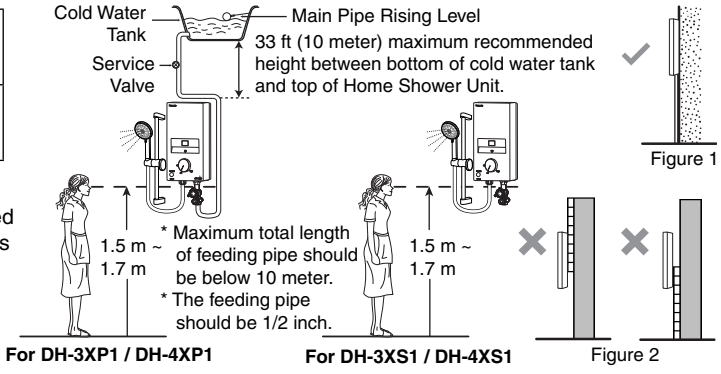


Figure 1

Figure 2

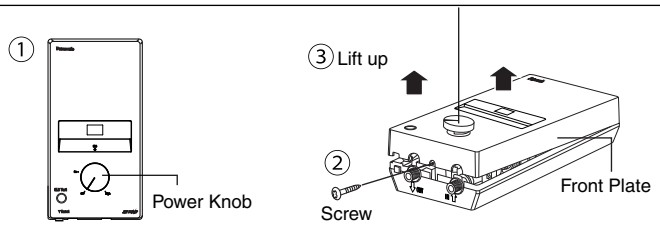
2. How to remove the Front Plate.

① Make sure the Power Knob is at Off condition.

② Remove the screw at the bottom of the Unit.

③ Remove the Front Plate by lifting up the bottom side and then unhook the top side.

Note:
Power Knob is attached to Front Plate. Do not remove Power Knob from Front Plate.

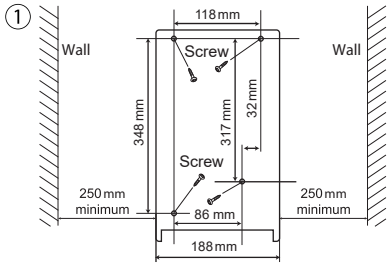


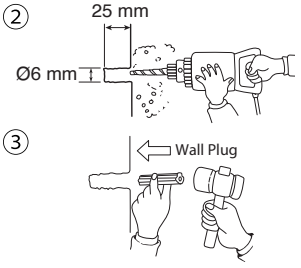
3. How to fix Electric Home Shower.

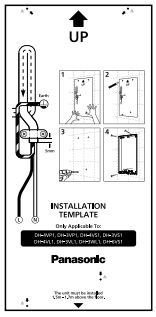
① The distance of the Unit should be more than 250 mm from the right and left of the wall.

② Make 4 holes in the wall using a drill. The location of the hole position as shown in the INSTALLATION TEMPLATE provided.

③ Drive a Wall Plug into the hole.

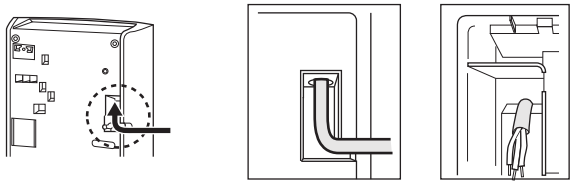






Installation Template

④ Lead the Flexible Cord to the set thru Portion 1 as shown below for electric wiring process.



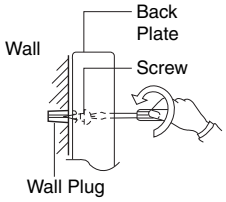
Portion 1 View from inside of the Unit

⚠ CAUTION

Flexible Cord must enter the Unit thru designated point only (do not make additional holes).

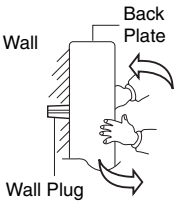
English

⑤ • Mount the Unit on the wall with 4 screws.
• Drive each Screw into the two upper Wall Plugs through the screw holes on the Back Plate and make sure the mounting screws do not contact any metallic elements in the wall.
• After tighten up the two upper Screws, tighten up the remaining two Screws.

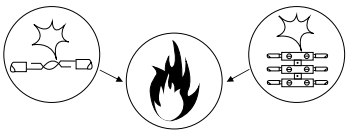


⑥ Please ensure the Unit fixed tightly on wall by shaking it left and right.

Note:
The Unit must be mounted with 4 Screws.

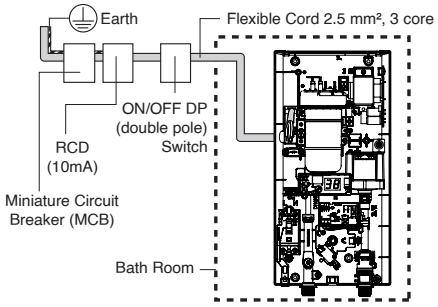


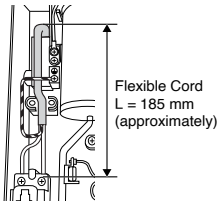
4. Electric wiring.

⚠ **WARNING**	**Proper size of Flexible Cord and electric wiring must be installed to avoid smoke emission and fire hazards.**
⚠ **WARNING**	**The Home Shower must be permanently connected to the electric supply through the ON/OFF DP (double pole) Switch having a contact separation of at least 3 mm in all poles incorporated in the fixed wiring. This switch must be clearly identifiable but out of reach of a person using a fixed bath or shower.**
⚠ **WARNING**	**Risk of fire.** Incorrect joining of wires may cause overheating and fire. 

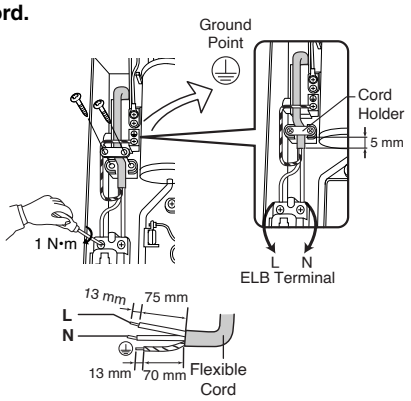
① **Lead the Flexible Cord connected to ELB terminal inside the Unit: 2.5 mm², 3 core Flexible Cord.**

Incorporating Figure 3 (Refer Appendix), the installation of approved external RCD for instantaneous water heater with leakage current sensitivity of 10mA in a wet area of the Energy Commission Guideline for the Design, Installation, Inspection, Testing, Operation and Maintenance of Water Heater Systems.

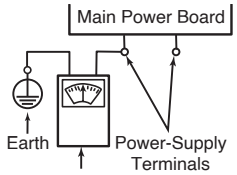




② **Unscrew the Cord Holder and fix the Flexible Cord. Strip the lead wire (coating). Fasten the live wire (L) and neutral wire (N) to the ELB (L,N) and earth wire to the Ground Point with 1 N•m (10 kgf.cm) torque. Fix back the Cord Holder to its position to clamp the Flexible Cord.**



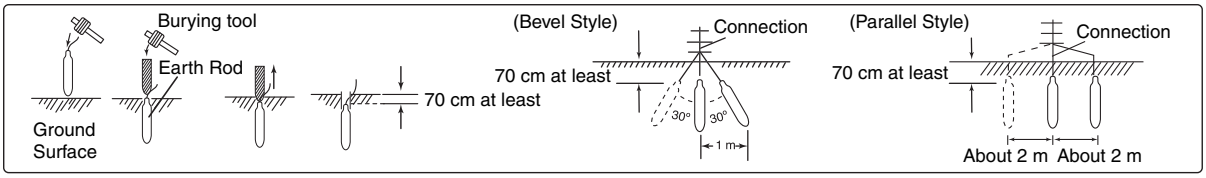
③ **Connect wires in correct polarity (L,N).**
- Connect the wires in wrong polarity (L,N) causes an abnormal condition which may lead to electric leaking, burning, etc.
- Before wiring, please check polarity (L,N) with voltage range of a tester or voltmeter by connecting one terminal of the meter to earth while the other to one of the Power Supply terminals.
- When the needle of the meter deflects greatly, the polarity of the Power Supply terminal is 'L'.



④ **Earth Rod.**

⚠ WARNING	**The Unit must be earthed.** Improper grounding could cause an electric shock.

- The Unit must be earthed.
- Earth Rod fixing procedure. Select adapter place to bury the optional Earth Rod (DQ-6H) for at least 70 cm below ground surface.
- Ensure that the ground resistance is less than 100 Ω. If it is not, drive the Earth Rod deeper into ground surface or use 2 or 3 Rods.



5. Piping installation procedure.

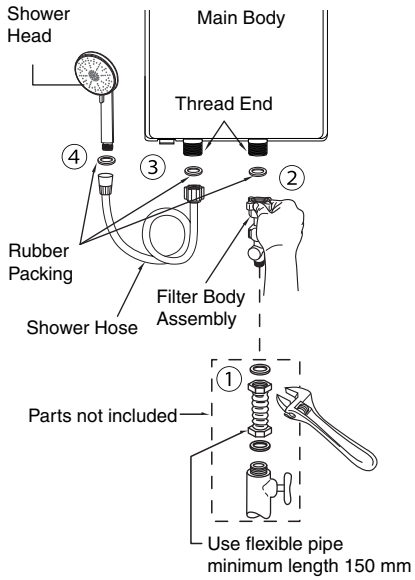
① Place Rubber Packing between Filter Body Assembly and Flexible Pipe. Do not use Piping Tape. **Tighten it by Spanner firmly.**

② Place Rubber Packing between Filter Body Assembly and Main Body. Do not use Piping Tape. **Tighten it by hand firmly.**

③ Place Rubber Packing between Shower Hose and Main Body. Do not use Piping Tape. **Tighten it by hand firmly.**

④ Place Rubber Packing between Shower Hose and Shower Head. Do not use Piping Tape. **Tighten it by hand firmly.**

⑤ The Water Volume Knob should be placed in the front direction of the Unit.



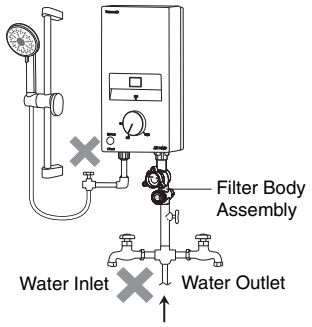
⚠ WARNING

Do not share the inlet or outlet pipe of Home Shower Unit with other outlets.
The pressure may drop due to water being drawn off at other point.
The shower water temperature may become very hot.

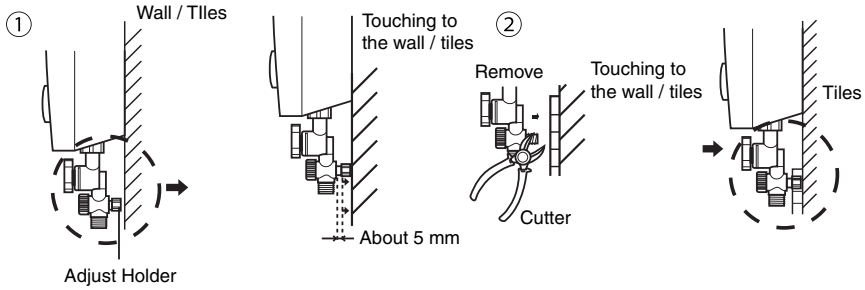
⚠ CAUTION

Avoid using dirty water as it may affect heater performance and other components.

Note:	Make sure no water leaks from pipe connection.
Note:	When glue is used for external piping connection, must wait for the glue to dry before proceed to test run with water.



⑥ Adjust Holder Adjustment. (Behind Filter Body Assembly).



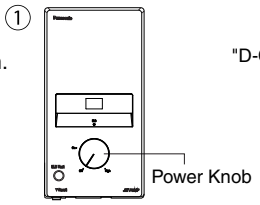
① Set the Adjust Holder behind the Filter Body Assembly by turning it anticlockwise or clockwise. Make sure the Adjust Holder is touching to the wall or tiles.

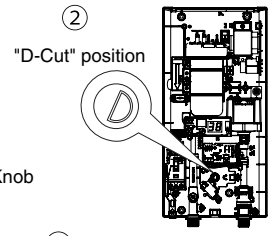
② If the Adjust Holder needs to be cut due to different wall height make sure the Adjust Holder is touching to the wall or tiles to prevent possibility of water leakage at the Filter Body Assembly.

English

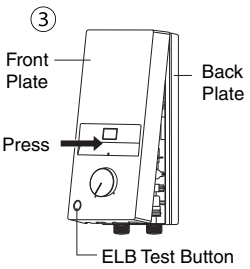
6. How to fix the Front Plate.

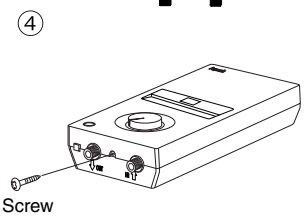
① Make sure the Power Knob on Front Plate is at Off position.
② Make sure the “D-Cut” position of the shaft is located as shown.
③ Close the Front Plate of the Unit according to the sequence as illustrated.
④ Fix the Screw at the bottom of the Unit.



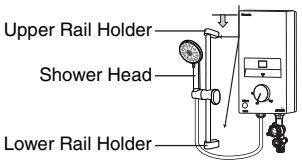
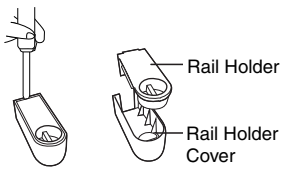
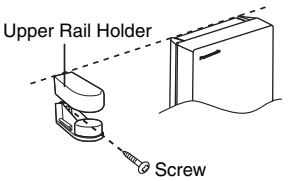
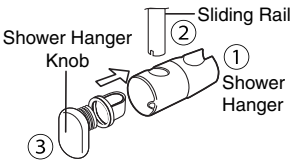
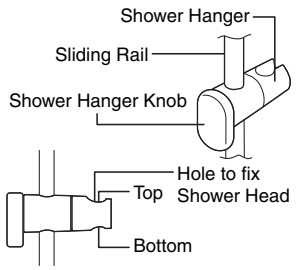
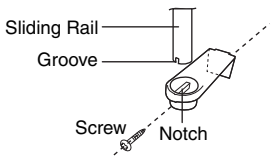
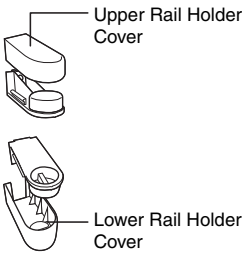
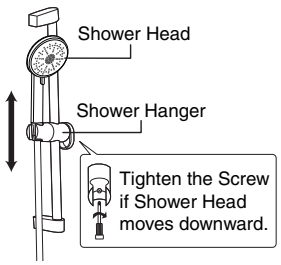


Note:
1. Do not push the ELB Test Button during fixing the Front Plate.
2. Do not apply extreme force to insert the Power Knob during fixing the Front Plate because it will damage the switch inside the Unit.





7. Shower Hanger installation.

<table>
<tr>
<td>① Install the Rail Holder so that the Shower Head height not higher than the unit top.
Make sure the wall level must be same to the Rail Holder fixing position. If the wall is not at the same level, please use spacer (not included) to fix the accessory.
</td>
<td>② Push the Rail Holder Cover (in detaching direction) at back of wall edge using suitable tool to detach it from Rail Holder.
</td>
<td>③ Install the Upper Rail Holder on the wall but not higher than the Unit top. Tighten the Upper Rail Holder with 1 screw.
</td>
<td>④ Prepare the Shower Hanger and Sliding Rail, remove the Shower Hanger Knob by rotating it (anticlockwise) then install the parts following the number ①, ② and ③.
</td>
</tr>
<tr>
<td>⑤ Tighten the Shower Hanger with Shower Hanger Knob.

* Shower Hanger will drop off easily once the knob is loosen.</td>
<td>⑥ Install to the Upper and Lower Rail Holder with the Grooves of the Sliding Rail inserted to the Rail Holder's Notches. Tighten the Lower Rail Holder with 1 Screw. (Make sure to insert the Wall Plugs into the screw hole)
</td>
<td>⑦ Cover the Upper and Lower Rail Holder with the Rail Holder Covers.
</td>
<td>⑧ Adjust the Shower Hanger at the required level and hang the Shower Head as shown in diagram below.
</td>
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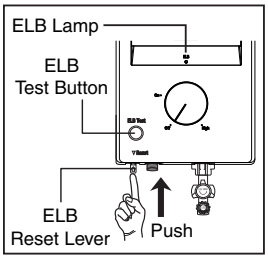
</table>

TEST OPERATION

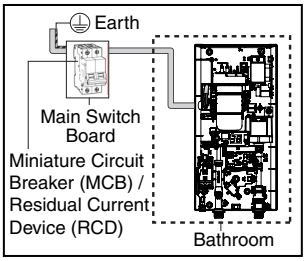
1. • Before switch ON electricity supply, please check the electrical wiring connection to the Unit.
   • Switch ON the Miniature Circuit Breaker (MCB) and ON/OFF DP (double pole) Switch. ELB lamp will light on even power knob in OFF position.
   • Set the ELB of the Unit to On. (Push up the ELB Reset Lever if it is down)
   • Push the ELB Test Button.
   • It is normal if the ELB turns Off (the ELB Reset Lever falls) and push the ELB Reset Lever up. Refer figure as shown.
   • Inspect on the built-in ELB and the main switch board of the premise (once a month) to avoid a hazard to users such as damage to property, serious injury or death.



⚠ WARNING

If the ELB Reset Lever cannot be reset even if you push it up or if it soon slides down during operation, please do not use the Unit and contact the authorized dealer immediately to avoid a hazard to users such as damage to property, serious injury or death. Never fix the ELB Reset Lever forcibly with tape, etc.

2. • Turn On the Main Water Valve.
   • Turn the Water Volume Knob anticlockwise and water will flow out from the Shower Head.
   • Check if water leaks from the Pipe Line.
3. • Turn the Power Knob On.
   • Turn the Power Knob clockwise and hot water will flow out from the Shower Head. (Adjust to desire water temperature).
4. • Refer detail for HOW TO USE and WATER FLOW RATE ADJUSTMENT on page EN6 and EN7.



English

SEBELUM MENGGUNAKAN PANCURAN MANDI ELEKTRIK

LANGKAH-LANGKAH KESELAMATAN

Sila patuhi sepenuhnya

Sila baca "langkah-langkah keselamatan" berikut dengan teliti sebelum menggunakan produk:
Untuk mengelakkan daripada berlakunya sebarang kecederaan kepada diri sendiri dan orang lain atau kerosakan harta benda, arahan yang berikut hendaklah dipatuhi.

■ **Penyalahgunaan disebabkan kegagalan untuk mematuhi arahan yang berikut akan menyebabkan kecederaan atau kerosakan. Tahap keseriusannya boleh dibahagikan seperti yang berikut:**

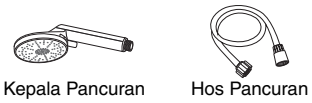
⚠ **AMARAN** — **Penunjuk ini memberi amaran tentang kematian atau kecederaan parah.**	⚠ **PERHATIAN** — **Penunjuk ini memberi amaran tentang kecederaan pengguna atau kerosakan harta benda.**

■ **Arahan yang perlu dipatuhi boleh dibahagikan kepada simbol-simbol yang berikut:**

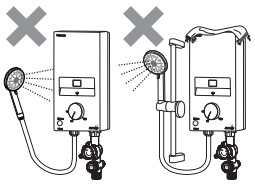
Simbol ini (dengan latar belakang putih) menunjukkan perbuatan yang DILARANG.	**Simbol ini (dengan latar belakang hitam) menunjukkan perbuatan yang WAJIB DILAKUKAN.**

⚠ AMARAN

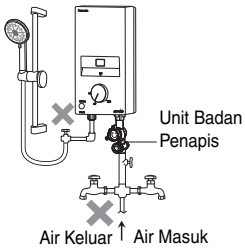
- **Jika Tuas Set Semula ELB tidak boleh berfungsi walaupun anda tolak ia ke atas atau Tuas Set Semula ELB terus menggelongsor ke bawah semasa kendalian, jangan gunakan Unit tersebut dan sila hubungi wakil penjual dengan segera untuk mengelakkan bahaya kepada pengguna seperti kerosakan kepada harta benda, kecederaan parah atau kematian. Jangan mengikat Tuas Set Semula ELB secara paksa dengan pita pelekat dan sebagainya.**
- **Jangan masukkan jari atau objek lain ke dalam Unit Pancuran Mandi Elekrik untuk mengelakkan bahaya fizikal dan kejutan elektrik.**
- **Jangan menggantikan Kepala Pancuran, Hos Pancuran, Kepala Pancuran Hujan atau mana-mana bahagian Unit yang lain dengan alat gantian selain daripada alat gantian asli.**
  - Barangan dari model lain tidak sesuai dengan model ini dan boleh menyebabkan perkara berbahaya berlaku kepada pengguna.



- **Jangan sembur air pada Unit, atau meletakkan tuala basah di atasnya bagi mengelakkan dari bersentuh dengan bahagian hidup untuk menghalang dari bahaya berasap, nyalaan api, kebakaran dan kejutan elektrik.**



- **Produk ini tidak boleh digunakan untuk bekalan air yang boleh diminum.**
- **Hos logam / krom dan injap kawalan konduktif tidak boleh digunakan.**
- **Palam, soket dan kabel yang bersaiz kecil tidak boleh digunakan.**
- **Perkongsian paip untuk air masuk dan keluar adalah dilarang. Tekanan air akan berkurang sekiranya terdapat air keluar pada saluran yang lain. Suhu air pancuran akan menjadi sangat panas.**



- **Jangan memasang, menanggalkan, atau memasang semula unit dengan sendiri.**
  - Pemasangan yang tidak betul akan mengakibatkan kebocoran air, kejutan elektrik, atau kebakaran. Pemasangan hendaklah dilakukan oleh pekerja mahir yang disyorkan oleh pengilang, dan/atau wakil penjual.
- **Salur Air Masuk produk ini tidak boleh disambungkan ke salur masuk air yang diperoleh dari sistem pemanasan air lain.**

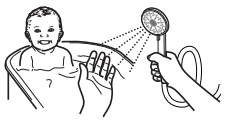
- **Pemasangan hendaklah mematuhi GP/ST/No. 6/2016, *Garis Panduan untuk Reka Bentuk, Pemasangan, Pemeriksaan, Pengujian, Operasi dan Penyelenggaraan Sistem Pemanas Air oleh Suruhanjaya Tenaga*.**
- **Hanya sambungan tetap dan kekal dibenarkan, palam dan soket tidak boleh digunakan. Sekiranya sambungan langsung tidak dapat dibuat ke pemanas air, hanya penyambung dan kotak sambungan yang diluluskan bersaiz betul yang akan digunakan.**
- **Untuk sambungan di dalam bilik pancuran mandi dan di bawah siling, kotak sambungan hendaklah IPX5.**
- **Tembaga fleksibel yang diluluskan, bersaiz betul (MS IEC 60335-1:2013) dengan panjang maksimum 1.5 m, hendaklah digunakan untuk menyambungkan pemanas air ke kotak sambungan.**
- **Saiz kabel minimum mestilah tidak kurang daripada 2.5 mm².**

⚠ AMARAN

- **Unit ini mesti dibumikan.**
  - Pembumian yang tidak sempurna boleh menyebabkan kejutan elektrik.

- **(Risiko berasap / kebakaran / kejutan elektrik / melecur)**
  Contoh kerosakan / keadaan luar biasa:
  - Tuas Set Semula ELB tidak boleh berfungsi walaupun anda tolak ia ke atas atau Tuas Set Semula ELB terus menggelongsor ke bawah semasa kendalian. Sila rujuk CARA-CARA MENGUJI di muka surat MY15.
  - Bau sesuatu terbakar atau asap keluar semasa kendalian.
  - Penutup Set / Penutup Belakang berubah bentuk atau panas yang luar biasa.
  - Suhu air pancuran menjadi terlalu panas dan tidak dapat di kawal dengan menggunakan Tombol Kuasa.
    → Sila hubungi wakil penjual anda dengan segera untuk penyenggaraan / pembaikan.

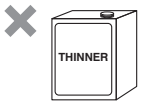
- **Pastikan Pemutus Litar Elektrik (MCB) dimatikan sebelum penyelenggaraan untuk mengelakkan bahaya kejutan elektrik.**
- **Semasa berlaku kilat / petir, matikan Pemutus Litar Elektrik terlebih dahulu untuk melindungi Unit Pancuran Mandi anda dari sebarang kerosakan.**
- **Pemeriksaan ke atas Pemutus Litar Bocor ke Bumi (ELB) terbina dan papan suis utama premis (sebulan sekali) untuk mengelakkan bahaya kepada pengguna seperti kerosakan kepada harta benda, kecederaan parah atau kematian. Sila rujuk CARA-CARA MENGUJI di muka surat MY15.**
- **Setiap kali pancuran air dimulakan, periksa suhu air dengan tangan sebelum mandi.**
- **Semasa Pancuran Air Mandi digunakan oleh golongan seperti kanak-kanak, orang tua, orang sakit dan orang cacat anggota, orang yang mendampingi mereka adalah dinasihatkan supaya memeriksa suhu pancuran dengan tangan dari semasa ke semasa.**



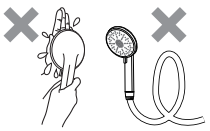
- **Beri perhatian kepada suhu pancuran apabila mengurangkan pengaliran air.**
  - Suhu pancuran akan menjadi sangat panas sekiranya pengaliran air terlalu rendah.
- **Produk ini tidak boleh digunakan oleh pengguna (termasuk kanak-kanak) yang kurang upaya dari segi fizikal atau mental, atau kekurangan pengalaman dan pengetahuan, kecuali diberikan arahan atau panduan tentang produk oleh pihak yang bertanggungjawab terhadap keselamatan mereka. Kanak-kanak hendaklah diawasi untuk memastikan bahawa mereka tidak bermain dengan produk.**
- **Matikan Unit apabila tidak digunakan.**

⚠ PERHATIAN

- **Jangan gunakan benzena, pencair, agen peluntur dan sebagainya untuk pembersihan bagi mengelakkan bahaya berasap, nyalaan api, kebakaran dan kejutan elektrik.**

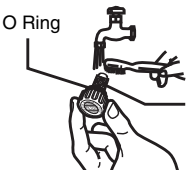


- **Elakkan menggunakan air yang kotor kerana ia boleh menjejaskan prestasi pemanas dan lain-lain komponen.**
- **Jangan sekat Kepala Pancuran dengan tangan, tuala atau melenturkan Hos Pancuran. Kadar aliran air akan menurun dan suhu air akan menjadi sangat panas.**

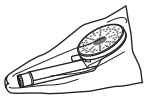
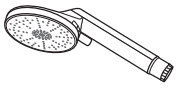
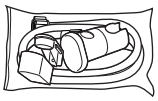
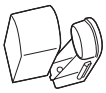
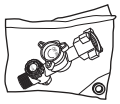
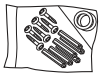


- **Untuk mengelakkan berlakunya bahaya disebabkan pemutus litar tidak beroperasi, maka produk ini tidak boleh disambungkan kepada suis luaran seperti alat penghidup masa, atau penyambungan litar yang biasanya di on dan off oleh utiliti.**

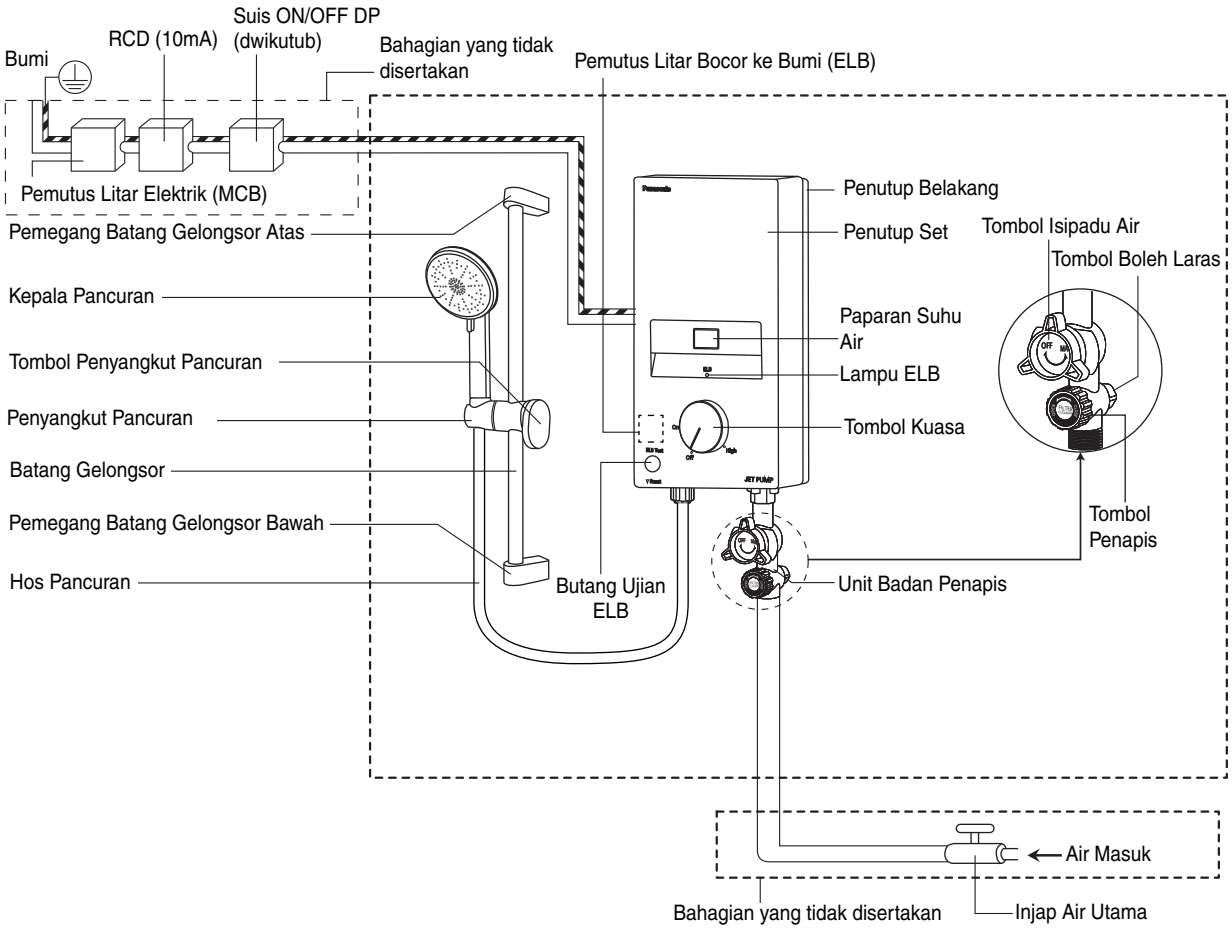
- **Pastikan O Ring tidak tertanggal dan bersih daripada bendasing atau kotoran untuk mengelakkan kebocoran air.**

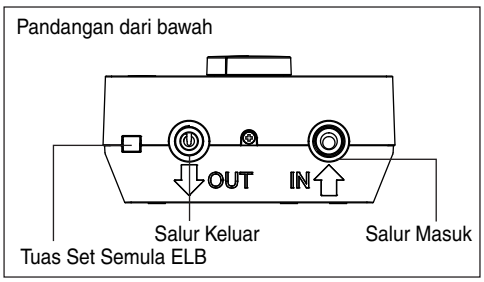


AKSESORI

Set:	Barangan disertakan:		
 Set Kepala Pancuran	 Kepala Pancuran (1 set)		
 Set Penyangkut Pancuran	 Hos Pancuran (1 set)	 x 2 Pemegang Batang Gelongsor (2 set)	 Penyangkut Kepala Pancuran (1 set)
 Set Unit Badan Penapis	 Unit Badan Penapis (1 set)	 Pelapik Getah (1 keping)	 Lampiran Amaran Unit Badan Penapis (1 helai)
 Batang Gelongsor	 Batang Gelongsor (1 batang)		
 Set Pemasangan	 x 6 Palam Dinding (6 batang)	 x 2 Pelapik Getah (2 keping)	 x 6 Skru (6 batang)
 Templat Pemasangan	 Templat Pemasangan (1 helai)		

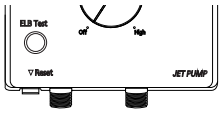
MENGENALI BAHAGIAN-BAHAGIAN



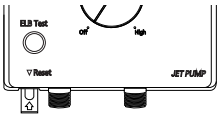


CARA-CARA MENGGUNAKANNYA

1. Hidupkan Pemutus Litar Elektrik (MCB) dan Suis ON/OFF DP (dwikutub).
2. Tolak ke atas Tuas Set Semula ELB sekiranya ia berada pada kedudukan bawah.
3. Untuk membuka air, laraskan Tombol Isipadu Air mengikut arah lawan jam.
   (Pastikan Injap Air Utama buka).
   (Air akan mengalir keluar dari Kepala Pancuran pada suhu air masuk).
4. Putarkan Tombol Kuasa pada On. Paparan Suhu Air akan menunjukkan suhu air keluar.
5. Suhu pancuran boleh dikawal beransur-ansur dengan memutarkan Tombol Kuasa.
   Jika Tombol Kawalan Kuasa diputarkan pada arah jam suhu pancuran akan meningkat, mencapai suhu tertinggi pada kedudukan 'High'.



ELB: Keadaan ON



ELB: Keadaan OFF


Tombol Kuasa



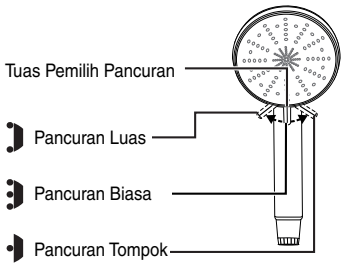
Paparan Suhu Air

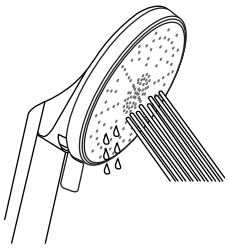
- Memutarkan Tombol Isipadu Air melawan arah jam akan meningkatkan aliran air dan menurunkan suhu air.
- Memutarkan Tombol Isipadu Air mengikut arah jam akan mengurangkan aliran air dan meningkatkan suhu air.
  (Sila rujuk CARA MENYELARASKAN KADAR ALIRAN AIR si muka surat MY7).

6. Apabila suhu air keluar melebihi 47°C, Paparan Suhu Air akan berkelip 'HI'.
   Ini adalah perkara biasa, namun sila beri perhatian kepada suhu pancuran apabila paparan menunjukkan 'HI'.



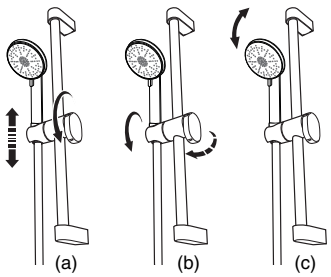
7. Adalah perkara biasa bagi Paparan Suhu Air untuk menunjukkan suhu sensor ambien apabila tiada aliran air.
8. Pilih pancuran mandian pilihan dengan memusingkan Tuas Pilih Pancuran.



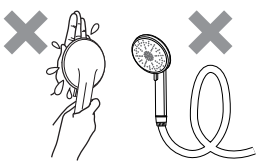


Nota:
Apabila menghentikan pengaliran air atau menukar pemilihan pancuran air dari Pancuran Luas ke Pancuran Tompok, beberapa titisan air akan terus keluar dari Kepala Pancuran kurang dari 2 minit. Ini adalah biasa kerana terdapat air tertinggal di dalam Kepala Pancuran dan bukan perkara luar biasa kepada Unit ini.

9. Selepas menggunakan Unit ini, sila matikan Unit dengan melaraskan Tombol Kuasa ke Off dan matikan bekalan air dengan melaraskan Tombol Isipadu Air mengikut arah jam sehingga aliran air terhenti sepenuhnya. Walaupun aliran air dihentikan, pam akan terus beroperasi jika Tombol Kuasa tidak dilaraskan ke Off.
10. Kepala Pancuran boleh diubah pada pelbagai kedudukan.
    a) Longgarkan Tombol Penyangkut Pancuran untuk melaraskan Penyangkut Pancuran ke atas atau ke bawah.
       Ketatkan semula Tombol Penyangkut Pancuran.
    b) Longgarkan Tombol Penyangkut Pancuran dan Penyangkut Pancuran boleh diubah ke kiri atau ke kanan.
       Ketatkan semula Tombol Penyangkut Pancuran.
    c) Sudut Kepala Pancuran boleh diubah dengan menggerakkan Kepala Pancuran ke atas atau ke bawah.



Nota: Sekiranya bekalan air terhenti, tutup Tombol Isipadu Air dengan melaraskan pada arah jam dan pastikan Tombol Kuasa dalam keadaan Off. Ini untuk mengelakkan pengaliran air dari Kepala Pancuran setelah bekalan air pulih semula.



⚠ PERHATIAN

Jangan sekat Kepala Pancuran dengan tangan, tuala atau melenturkan Hos Pancuran. Kadar aliran air akan menurun dan suhu air akan menjadi sangat panas.

CARA MENYELARASKAN KADAR ALIRAN AIR

1. Cara melaraskan kadar pengaliran air maksima.

Langkah 1 : Pilih mod Pancuran Luas pada Kepala Pancuran menggunakan Tuas Pemilih Pancuran (rujuk Gambarajah 1).

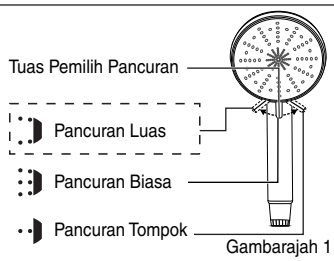
Langkah 2 : Tutup Injap Air Utama.

Langkah 3 : Pusingkan Kepala Pancuran menghala ke atas pada paras pinggang.

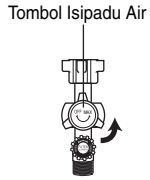
Langkah 4 : Laraskan Tombol Isipadu Air mengikut arah lawan jam ke posisi isipadu maksima (rujuk Gambarajah 2).

Langkah 5 : Buka Injap Air Utama sedikit demi sedikit dan laraskan ketinggian pancuran (H).
Disyorkan menyelaraskan ketinggian air pancuran H = 35 cm ~ 45 cm (kira-kira 3 L/min).
(Sekiranya ketinggian pancuran (H) tinggi, suhu air panas akan menurun akibat kadar pengaliran yang berlebihan).

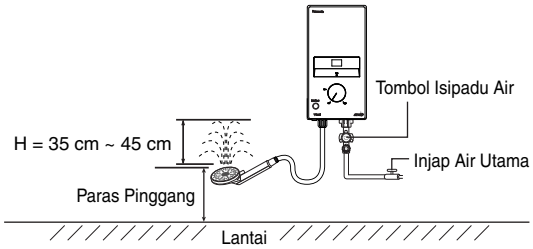
Nota:
1. **Beri perhatian pada suhu pancuran semasa merendahkan isipadu air.**
   Suhu pancuran akan menjadi sangat panas jika kadar aliran air terlalu rendah.
2. **Tombol Isipadu Air berada pada tahap maksima ketika ini (rujuk Langkah 4).**
   Sila laraskan kepada kadar aliran yang bersesuaian dengan memutarkan Tombol Isipadu Air pada arah jam.



Gambarajah 1



Gambarajah 2



PENYENGGARAAN

⚠ AMARAN	❗ **Pastikan Pemutus Litar Elektrik (MCB) dimatikan sebelum penyelenggaraan untuk mengelakkan bahaya kejutan elektrik.**

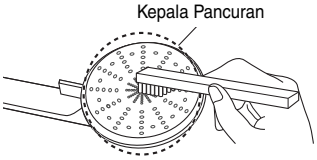
1. Pembersihan Penutup Set.

Pastikan Pemutus Litar Elektrik dimatikan sebelum dibersihkan.

1) Bersihkan dengan kain yang dilembapkan.
2) Jangan guna benzena, pencair, pencuci, peluntur dan lain-lain.
3) Jangan sembur air pada Unit, atau meletak tuala basah di atasnya.
4) Pastikan guna kain yang sesuai untuk membersihkan permukaan Penutup Set bagi mengelakkan calar.

2. Pembersihan Kepala Pancuran.

1) Bersihkan lubang-lubang pada Kepala Pancuran menggunakan berus lembut dari masa ke semasa. (Disyorkan seminggu sekali).

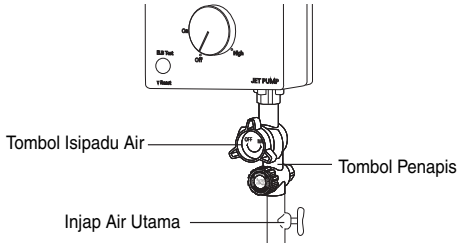


3. Pembersihan Unit Penapis (Unit Penapis dipasang pada Tombol Penapis).

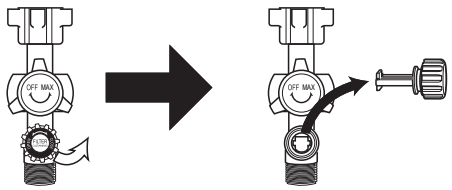
Penapis Air di dalam Unit Penapis mestilah dicuci seminggu sekali.
Unit Penapis mestilah dicuci sekiranya air panas tidak mengalir dengan sempurna.

Membuka, membersih dan memasang Unit Penapis.

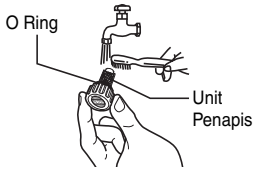
① Tutup Injap Air Utama.



② Pusingkan Tombol Penapis ikut arah lawan jam dan keluarkannya.

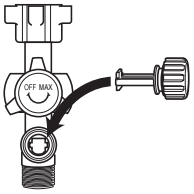


③ Bersihkan Unit Penapis.



⚠ PERHATIAN	❗ **Pastikan O Ring tidak tertanggal dan bersih daripada bendasing atau kotoran untuk mengelakkan kebocoran air.**

④ Masukkan Unit Penapis dan ketatkan (ikut arah jam).



⑤ Laraskan Tombol Isipadu Air kembali ke posisi asal dengan merujuk kepada Cara Menyelaraskan Kadar Aliran Air di muka surat MY7.

PANDUAN KEROSAKAN

1. Sila periksa perkara-perkara berikut sebelum pembaikan.

Tanda-tanda	Perkara yang perlu diperiksa
Pancuran air tidak mengalir seperti biasa.	1. Periksa Unit Penapis. Bersihkan Penapis jika ianya tersumbat dengan kekotoran (rujuk Pembersihan Unit Penapis di muka surat MY8). 2. Periksa Kepala Pancuran. Bersihkan Kepala Pancuran jika ada kekotoran (rujuk Pembersihan Kepala Pancuran di muka surat MY8).
Tiada air panas mengalir keluar dari saluran keluar (tiada aliran elektrik ke Unit).	1. Pastikan Tombol Kuasa bukan pada kedudukan OFF. 2. Pastikan Tuas Set Semula ELB tidak menggelongsor ke bawah. Tolak Tuas Set Semula ELB ke atas untuk ke keadaan asal (lihat CARA-CARA MENGUJI di muka surat MY15). 3. Pastikan Suis ON/OFF DP (dwikutub) dihidupkan. 4. Pastikan Pemutus Litar Elektrik (MCB) dihidupkan.
Tiada air mengalir keluar dari Kepala Pancuran.	1. Periksa Tombol Isipadu Air. Putar Tombol Isipadu Air mengikut arah lawan jam jika ia ditutup. 2. Periksa Injap Air Utama. Buka Injap Air Utama sekiranya tertutup (rujuk CARA-CARA MENGGUNAKANNYA di muka surat MY6).
Air tidak cukup panas.	1. Sila rujuk CARA MENYELARASKAN KADAR ALIRAN AIR di muka surat MY7.

2. Jika anda mendapati keadaan seperti berikut semasa menggunakan peralatan ini, jangan gunakan Unit dan sila hubungi wakil penjual anda yang sah dengan segera.
   - Kebocoran air.
   - Tiada Pengaliran air.
   - Suhu air tidak dapat dikawal.
   - Lampu ELB tidak menyala.
   - Tiada paparan pada Paparan Suhu Air.
   - E2 berkelip pada Paparan Suhu Air.
3. Kemahiran tertentu diperlukan untuk memperbaiki peralatan ini. Oleh itu jangan sekali-kali cuba membaikinya sendiri.

SPESIFIKASI

Model	DH-3XS1	DH-4XS1	DH-3XP1	DH-4XP1
Voltan	240 V a.c. 50 Hz			
Penggunaan Kuasa	3800 W	4500 W	3800 W	4500 W
Kawalan Kuasa Elektrik	Suhu Air Semasa (Off), 1000 W ~ 3800 W	Suhu Air Semasa (Off), 1000 W ~ 4500 W	Suhu Air Semasa (Off), 1000 W ~ 3800 W	Suhu Air Semasa (Off), 1000 W ~ 4500 W
Tekanan Air Minima	9.8 kPa / 0.1 kgf/cm² / 1.42 psi		4.9 kPa / 0.05 kgf/cm² / 0.71 psi	
Tekanan Air Maksima	380 kPa / 3.87 kgf/cm² / 55 psi			
Ukuran	380 (H) mm x 190 (W) mm x 82 (D) mm			
Berat	1.4 kg	1.5 kg	2.5 kg	2.6 kg
Sistem Keluaran	Sistem Punca Tunggal (Keluaran Terbuka)			

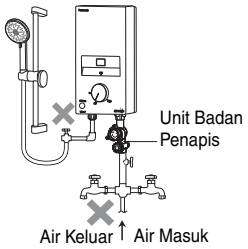
CARA MEMASANG PANCURAN MANDI ELEKTRIK

⚠ AMARAN

- **Saiz Kabel Fleksibel dan pendawaian elektrik mestilah dipasang dengan sempurna untuk mencegah bahaya berasap dan kebakaran.**
- **Semasa proses pemasangan, pastikan sumber elektrik dan air telah ditutup.**
- **Pancuran mandi ini hendaklah disambung secara kekal ke bekalan elektrik menerusi Suis ON/OFF DP (dwikutub) yang mempunyai pemisahan sesentuh sekurang-kurangnya 3 mm pada semua kutub yang digabungkan dalam pendawaian tetap. Suis ini hendaklah dipasangkan dengan jelas tetapi jauh dari jangkauan pengguna.**
- **Jangan usik Unit semasa pemasangan atau waranti akan terbatal.**

- **Unit ini perlu dibumikan.**
  - Pembumian yang tidak sempurna boleh menyebabkan kejutan elektrik.

- **Jangan memasang Unit Badan Penapis pada saluran keluar kerana air pada saluran masuk tidak dapat ditapis dan mengakibatkan bendasing untuk masuk ke dalam unit. Ini akan menyebabkan Unit Pemanas dan Kepala Pancuran tersumbat.**
- **Jangan memasang, menanggalkan, atau memasang semula unit dengan sendiri.**
  - Pemasangan yang tidak betul akan mengakibatkan kebocoran air, kejutan elektrik, atau kebakaran. Pemasangan dan pendawaian haruslah dilakukan oleh pekerja yang mahir.
- **Perkongsian paip untuk air masuk dan keluar adalah dilarang.**
  - Tekanan air akan berkurang sekiranya terdapat air keluar pada saluran yang lain. Suhu air pancuran akan menjadi sangat panas.



⚠ PERHATIAN

- **Kabel fleksibel harus dimasukkan ke unit melalui bahagian yang sedia ada sahaja (jangan membuat lubang tambahan).**

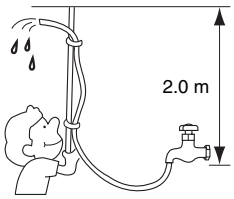
SEBELUM PEMASANGAN DIBUAT

1. Pastikan tekanan air.

Tekanan Air Minima : 9.8 kPa / 0.1 kgf/cm² / 1.42 psi (DH-3XS1 / DH-4XS1)
4.9 kPa / 0.05 kgf/cm² / 0.71 psi (DH-3XP1 / DH-4XP1)

Tekanan Air Maksima : 380 kPa / 3.87 kgf/cm² / 55 psi

- Cara mengukur tekanan air seperti dalam gambarajah. Air hendaklah mengalir keluar dari Hos setinggi 2.0 m dari Injap Air Utama.



Nota:
Apabila mengeluarkan unit dari bungkusan , kemungkinan ada kehadiran sedikit air di dalamnya.
Ini adalah biasa kerana unit-unit diuji semasa proses pembuatan.

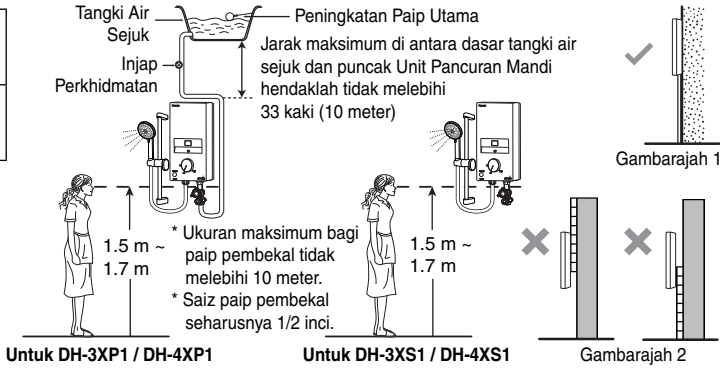
CARA MEMASANG

⚠ AMARAN

Semasa proses pemasangan, pastikan sumber elektrik dan air telah ditutup.

1. Di mana unit ini perlu dipasang.

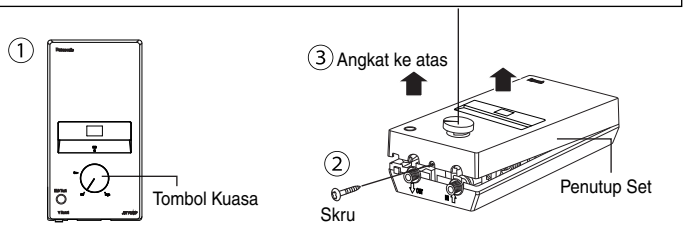
- Pastikan unit ini dipasangkan pada dinding seperti dalam Gambarajah 1 ((kedudukan menegak dengan penyambungan aliran air menghala ke bawah).
- Jangan memasang Unit pada dinding yang tidak rata seperti yang ditunjukkan dalam Gambarajah 2.
- Unit hendaklah dipasang pada ketinggian 1.5 m ~ 1.7 m dari atas lantai.



2. Menanggalkan Penutup Set.

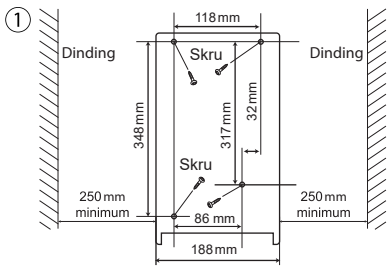
① Pastikan Tombol Kuasa dalam keadaan Off.
② Tanggalkan skru dari bahagian bawah unit.
③ Tanggalkan Penutup Set dari bahagian bawah dahulu diikuti dengan bahagian atas.

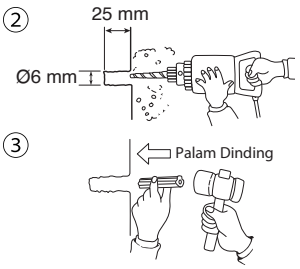
Nota:
Tombol Kuasa adalah terpasang pada Penutup Set. Jangan tanggalkan Tombol Kuasa daripada Penutup Set.

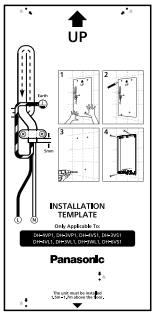


3. Cara memasang Pancuran Mandi Elektrik.

① Jarak Unit hendaklah lebih daripada 250 mm dari kanan dan kiri dinding.
② Buat 4 lubang pada dinding menggunakan gerudi. Kedudukan posisi lubang seperti yang ditunjukkan pada TEMPLAT PEMASANGAN yang disediakan.
③ Masukkan Palam Dinding ke dalam lubang.

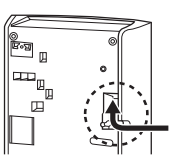


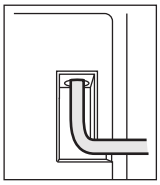


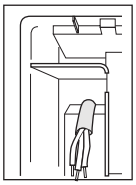


Templat Pemasangan

④ Kabel Fleksibel hendaklah dimasukkan ke dalam Unit menerusi Bahagian 1 seperti gambarajah di bawah untuk proses pendawaian elektrik dilakukan.



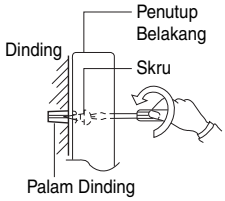

Bahagian 1


Pandangan dari dalam Unit

⚠ PERHATIAN

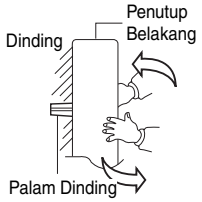
Kabel fleksibel harus dimasukkan ke unit melalui bahagian yang sedia ada sahaja (jangan membuat lubang tambahan).

⑤ • Unit hendaklah dipasang ke dinding dengan 4 skru.
• Masukkan setiap Skru ke dalam dua Palam Dinding atas melalui lubang skru pada Plat Belakang dan pastikan skru pelekap tidak menyentuh mana-mana unsur logam di dinding.
• Selepas mengetatkan kedua-dua Skru pada bahagian atas, ketatkan Skru yang selebihnya pada bahagian bawah Penutup Belakang Unit.

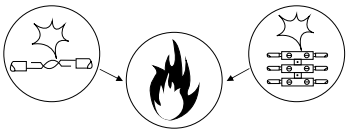


⑥ Periksa sama ada Unit diikat dengan ketat dengan menggerakkan Unit ke kiri dan kanan.

Nota:
Unit mesti diketatkan dengan 4 Skru.

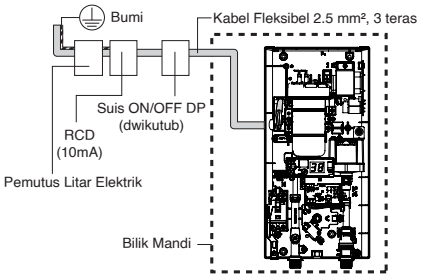


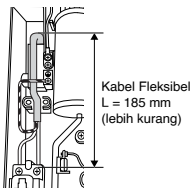
4. Pendawaian elektrik.

⚠ **AMARAN**	**Saiz Kabel Fleksibel dan pendawaian elektrik mestilah dipasang dengan sempurna untuk mencegah bahaya berasap dan kebakaran.**
⚠ **AMARAN**	**Pancuran mandi ini hendaklah disambung secara kekal ke bekalan elektrik menerusi Suis ON/OFF DP (dwikutub) yang mempunyai pemisahan sesentuh sekurang-kurangnya 3 mm pada semua kutub yang digabungkan dalam pendawaian tetap. Suis ini hendaklah dipasangkan dengan jelas tetapi jauh dari jangkauan pengguna.**
⚠ **AMARAN**	**Risiko kebakaran.** Pendawaian yang tidak betul boleh mengakibatkan kepanasan melampau dan kebakaran. 

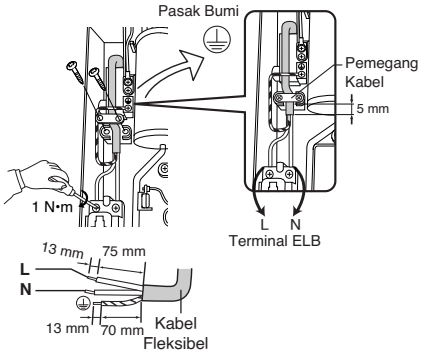
① **Pendawaian Kabel Fleksibel disambungkan ke ELB di dalam Unit: 2.5 mm², Kabel Fleksibel 3 teras.**

Menggabungkan Rajah 3 (Rujuk Lampiran), pemasangan RCD luaran yang disetujui untuk pemanas air segera dengan kepekaan arus kebocoran 10mA di kawasan basah mengikut Garis Panduan Suruhanjaya Tenaga untuk Reka Bentuk, Pemasangan, Pemeriksaan, Ujian, Operasi dan Penyelenggaraan Sistem Pemanas Air.

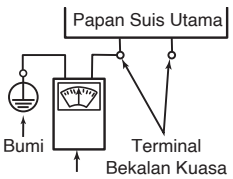




② **Buka Pemegang Kabel dan pasangkan Kabel Fleksibel. Buangkan Penyalut Wayar di bahagian hujungnya. Ketatkan wayar hidup (L) dan wayar neutral (N) pada ELB (L, N) dan wayar bumi pada Pasak Bumi dengan menggunakan daya kilas 1 N•m (10 kgf.cm). Pasang semula Pemegang Kabel untuk memegang Kabel Fleksibel.**



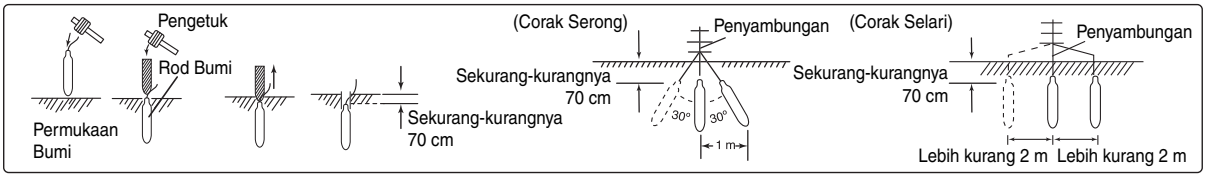
③ **Sambungkan wayar pada kekutuban yang betul (L,N).**
• Sambungan wayar pada arah kekutuban yang salah (L,N) akan menyebabkan litar konduksi kutub tidak berfungsi seperti biasa dan boleh menyebabkan kebocoran elektrik, kebakaran dan sebagainya.
• Periksa arah kekutuban (L,N) terlebih dahulu sebelum pendawaian berpandukan alat uji julat voltan atau meter voltan dengan menyambungkan satu terminal meter ke bumi, dan satu terminal lagi disentuhkan ke salah satu terminal bekalan kuasa.
• Apabila jarum meter banyak terpesong, arah kekutuban terminal bekalan kuasa adalah 'L'.



④ **Rod Bumi.**

⚠ AMARAN	**Unit ini perlu dibumikan.** Pembumian yang tidak sempurna boleh menyebabkan kejutan elektrik.

- Unit ini perlu dibumikan.
- Cara memasang Rod Bumi. Pilih permukaan bumi yang sesuai untuk menanam Rod Bumi (DQ-6H) Rod Bumi hendaklah ditanam sekurang-kurangnya 70 cm ke dalam permukaan tanah.
- Pastikan rintangan tanah kurang daripada 100 Ω. Jika rintangan tanah tidak kurang daripada 100 Ω, tanam Rod itu lebih dalam atau gunakan 2 atau 3 Rod.



5. Cara-cara pemasangan paip.

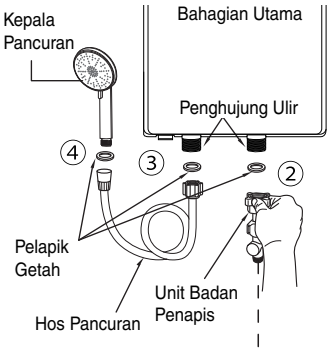
① Letakkan Pelapik Getah di antara Unit Badan Penapis dan Paip Mudah Lentur. Jangan guna Pita Paip. **Ketatkan dengan Sepana.**

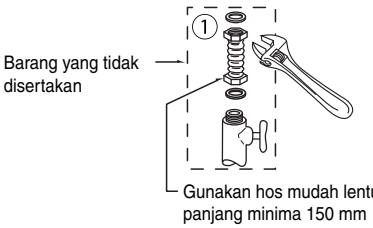
② Letakkan Pelapik Getah di antara Unit Badan Penapis dan Bahagian Utama. Jangan guna Pita Paip. **Ketatkan dengan tangan.**

③ Letakkan Pelapik Getah di antara Hos Pancuran dan Bahagian Utama. Jangan guna Pita Paip. **Ketatkan dengan tangan.**

④ Letakkan Pelapik Getah di antara Hos Pancuran dan Kepala Pancuran. Jangan guna Pita Paip. **Ketatkan dengan tangan.**

⑤ Tombol Isipadu Air hendaklah dipasang mengarah ke hadapan Unit.





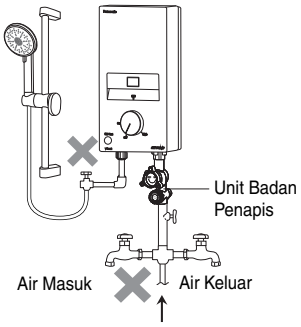
⚠ AMARAN

Perkongsian paip untuk paip masuk dan keluar dilarang.
Tekanan air akan berkurang sekiranya terdapat air keluar pada saluran yang lain. Air akan menjadi sangat panas.

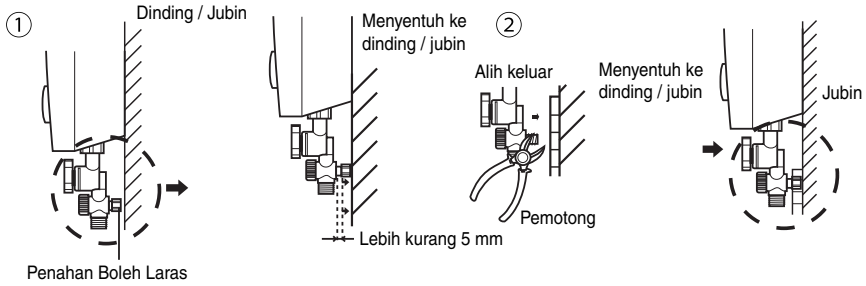
⚠ PERHATIAN

Elakkan menggunakan air yang kotor kerana ia boleh menjejaskan prestasi pemanas dan lain-lain komponen.

Nota:	Pastikan tiada kebocoran air pada sambungan paip.
Nota:	Apabila gam digunakan untuk sambungan paip luar, mestilah tunggu gam kering sebelum ujian dengan air diteruskan.



⑥ Penyelarasan Penahan Boleh Laras. (Belakang Unit Badan Penapis).



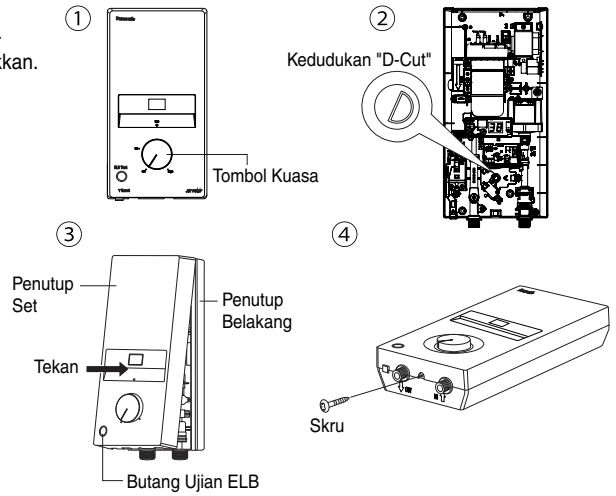
① Selaraskan Penahan Boleh Laras yang berada di belakang Tombol Isipadu Air dengan memutarnya mengikut atau melawan arah jam. Pastikan Penahan Boleh Laras menyentuh dinding atau jubin.

② Sekiranya Penahan Boleh Laras perlu dipotong kerana perbezaan ketinggian dinding, sila pastikan Penahan Boleh Laras menyentuh dinding atau jubin untuk mengelakkan kemungkinan berlakunya kebocoran air pada Unit Badan Penapis.

6. Menutup Penutup Set.

① Pastikan Tombol Kuasa pada Penutup Set dalam kedudukan Off.
② Pastikan posisi "D-Cut" pada aci diletakkan seperti yang ditunjukkan.
③ Tutupkan Penutup Set seperti susunan yang ditunjukkan pada gambarajah.
④ Pasang Skru pada bahagian bawah Unit.

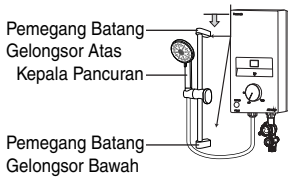
Nota:
1. Jangan tekan Butang Ujian ELB semasa menutup Penutup Set.
2. Jangan gunakan daya yang melampau untuk memasukkan Tombol Kuasa semasa memasang Penutup Set kerana ia akan merosakkan suis di dalam Unit.



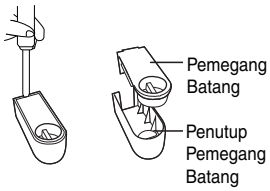
7. Pemasangan Penyangkut Pancuran.

① Pasangkan kedua Pemegang Batang Gelongsor supaya kedudukan Kepala Pancuran tidak melebihi bahagian atas Unit.

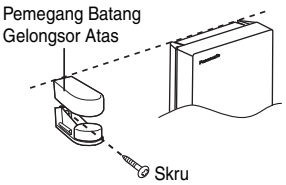
Pastikan permukaan dinding untuk pemasangan Pemegang Batang Gelongsor adalah sama rata. Jika tidak sama rata, sila gunakan pelapik (tidak disertakan) semasa memasang aksesori tersebut.



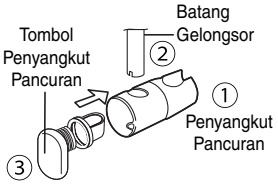
② Tolak Penutup Pemegang Batang Gelongsor (dalam arah tertanggal) di bahagian belakang tepi dinding menggunakan alat yang sesuai untuk menanggalkannya daripada Pemegang Batang Gelongsor.



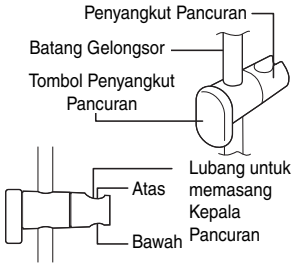
③ Pasang Pemegang Batang Gelongsor Atas pada dinding tetapi tidak melebihi bahagian atas Unit. Ketatkan Pemegang Batang Gelongsor Atas dengan 1 skru.



④ Sediakan Penyangkut Pancuran dan Batang Gelongsor, tanggalkan Tombol Penyangkut Pancuran dengan memusingkannya (arah lawan jam) kemudian pasangkan mengikut urutan ①, ② and ③.

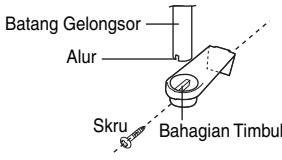


⑤ Ketatkan Penyangkut Pancuran dengan Tombol Penyangkut Pancuran.



* Penyangkut Pancuran akan jatuh sekiranya tombol dilonggarkan.

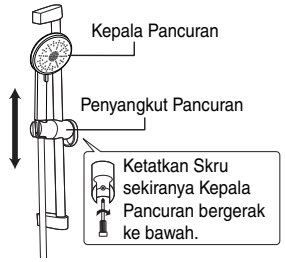
⑥ Pasangkan Pemegang Batang Gelongsor Atas dan Bawah dengan Alur pada Batang Gelongsor dimasukkan kepada permukaan yang tertimbul pada Pemegang Batang Gelongsor. Ketatkan Pemegang Batang Gelongsor Bawah dengan 1 skru. (Pastikan untuk memasukkan Palam Dinding ke dalam lubang skru).



⑦ Tutup kedua-dua Pemegang Batang Gelongsor dengan Penutup Pemegang Batang Gelongsor.

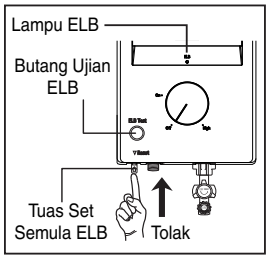


⑧ Laraskan Penyangkut Pancuran pada kedudukan yang dikehendaki dan sangkutkan Kepala Pancuran seperti dalam gambarajah di bawah.



CARA-CARA MENGUJI

1. • Sebelum menghidupkan bekalan elektrik ON, sila semak sambungan pendawaian elektrik ke Unit.
   • Hidupkan Pemutus Litar Elektrik (MCB) dan Suis ON/OFF DP (dwikutub). Lampu ELB akan menyala pada tombol kuasa walaupun dalam kedudukan OFF.
   • Hidupkan ELB pada Unit (tolak Tuas Set Semula ELB ke atas).
   • Tekan Butang Ujian ELB.
   • ELB adalah di dalam keadaan baik apabila ianya pada kedudukan Off (Tuas Set Semula ELB akan menggelongsor ke bawah) dan tolak Tuas Set Semula ELB ke atas. Sila rujuk gambarajah.
   • Pemeriksaan ke atas Pemutus Litar Bocor ke Bumi (ELB) terbina dan papan suis utama premis (sebulan sekali) untuk mengelakkan bahaya kepada pengguna seperti kerosakan kepada harta benda, kecederaan parah atau kematian.



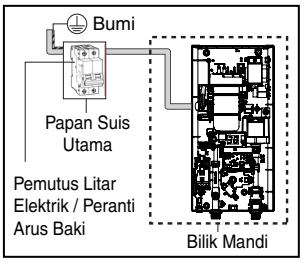
⚠ AMARAN

Jika Tuas Set Semula ELB tidak boleh berfungsi walaupun anda tolak ia ke atas atau Tuas Set Semula ELB terus menggelongsor ke bawah semasa kendalian, jangan gunakan Unit tersebut dan sila hubungi wakil penjual dengan segera untuk mengelakkan bahaya kepada pengguna seperti kerosakan kepada harta benda, kecederaan parah atau kematian. Jangan mengikat Tuas Set Semula ELB secara paksa dengan pita pelekat dan sebagainya.

2. • Buka Injap Air Utama.
   • Putar Tombol Isipadu Air mengikut arah lawan jam dan air akan mengalir keluar dari Kepala Pancuran.
   • Periksa sekiranya ada kebocoran air daripada Saluran Paip.

3. • Putarkan Tombol Kuasa pada On.
   • Putar Tombol Kuasa mengikut arah jam dan air panas akan mengalir keluar dari Kepala Pancuran. (Laraskan mengikut kehendak suhu air).

4. • Sila rujuk CARA-CARA MENGGUNAKANNYA dan CARA MENYELARASKAN KADAR ALIRAN pada muka surat MY6 & MY7.



APPENDIX / LAMPIRAN

- Refer to GP/ST/No. 6/2016, Guideline for the Design, Installation, Inspection, Testing, Operation and Maintenance of Water Heater Systems by Energy Commission.
- Rujuk kepada GP/ST/No. 6/2016, Garis Panduan bagi Reka Bentuk, Pemasangan, Pemeriksaan, Pengujian, Pengoperasian dan Penyelenggaraan Sistem Pemanas Air oleh Suruhanjaya Tenaga.

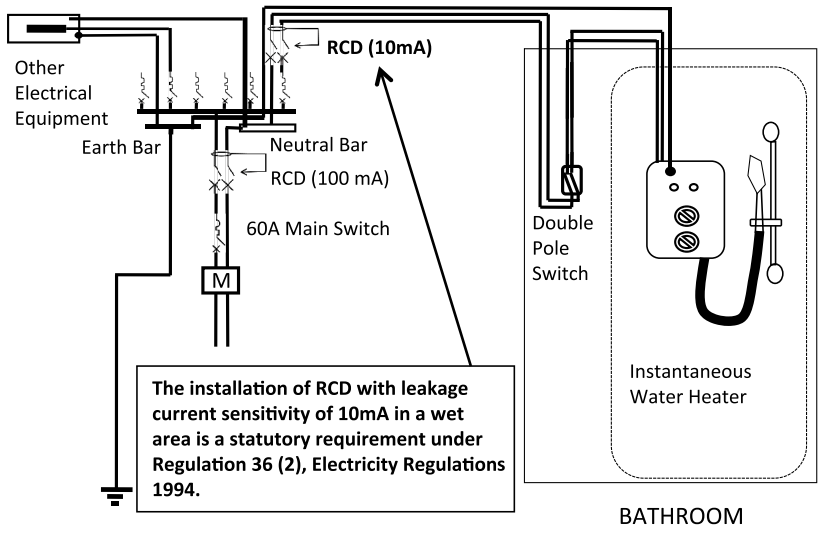


Figure 3: The installation of RCD for instantaneous water heater with leakage current sensitivity of 10mA in a wet area.

Panasonic Manufacturing Malaysia Berhad (196501000304)
No. 3, Jalan Sesiku 15/2, Section 15, Shah Alam Industrial Site,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia.
http://www.panasonic.com

Printed in Malaysia
H0626Y0

Panasonic

WARRANTY POLICY

PANASONIC MALAYSIA SDN BHD
WARRANTY POLICY

This warranty entitles the customer to a free service on Panasonic products within a period of 12 months (1 year) from the date of purchase.

(A) Terms and Conditions of Product Warranty:

1. This warranty applies to each new product purchased for domestic use in Malaysia from Panasonic Authorized Dealers supplied by Panasonic Malaysia Sdn. Bhd. ("PM").
2. Customer is required to register their product warranty within 14 days of the purchase date. The registration process includes completing the online warranty form and uploading a copy of the purchase receipt/invoice as proof of purchase. Registration can be completed by visiting our website link https://www.panasonic.com/my/support.html. Validity of warranties registered online evidenced in printouts shall be subject to approval by PM pursuant to applicable Panasonic policies, rules, discretion or otherwise.
3. Customer is required to present the original warranty card or warranty registration certificate together with the valid proof of purchase receipt/invoice for your warranty service, failing which PM or Panasonic Authorized Service Dealers reserves the right to decline any warranty claim.
4. Customer shall permit PM to conduct diagnostic tests on the product to determine the cause of failure/defect. PM determination of cause of fault/defect shall be final and conclusive.
5. This warranty applies to ascertained manufacturing defects arising from normal and reasonable consumption, including but not limited to household usage within the warranty period. PM or PM Authorized Dealer will at their discretion not to impose charges for any repair and/or replacement of defective component/part or replace/exchange with the equivalent product.
6. Product exchanges under this warranty are subject to PM sole discretion, evaluation and approval, and the decision shall be final. In the event of replace/exchange, PM will not refund the price difference between the value of the replacement product.
7. Any part replaced or product replaced/exchanged under this warranty shall become the property of PM. Repaired, replaced/exchanged part or product will continue to be under warranty for the remaining product warranty period but for a period of not less than ninety (90) days.
8. To the extent permitted by law, no other warranties, whether express or implied, including warranties of merchantable quality and fitness for a particular purpose, shall apply to the product. PM shall not be liable for loss of profits, human injury, special, indirect, or consequential damages sustained in any whatsoever proceeding, claim and/or demand resulting or attributed to the product or service rendered to it.
9. All express and implied conditions herein or otherwise are subject to PM authority and discretion where and when deemed appropriate.
10. PM reserves the right to bring back the product for further investigation or diagnosis and shall not be reliable for any compensation claims due to whatsoever inconvenience caused to Customer.
11. For non-Panasonic online platform purchase, customer must refer the original seller/agent for 3rd party defect coverage.
12. For product that is not sold by PM can be sent to PM or PM Authorised Service Centre for a chargeable repair are subject to the discretion of PM. The decision of PM regarding service charges shall be final.
13. PM reserves the right to decline to provide service where the product is obsolete, no longer deemed serviceable or replaceable for any reason, and/or after the product discontinued.
14. All defects or issues including natural disaster must be reported to PM or Panasonic Authorised Service Dealers within 7 days (or when and where deemed convenient thereof) from the discovery of defect or issues. The warranty does not cover incidents not being reported thereof.
15. Incorrect, inaccurate, incomplete, inappropriate, information provided by any parties and/or appointed representatives will not be bonded or applicable for any warranty claim purposes.
16. Cost associated with the installation or dismantling of the product before and after repair. Customer is responsible for all installation or dismantling services, including any associated labour or transportation costs, regardless of the product's warranty status. PM will not be liable for any damages or costs incurred during these processes.
17. If the customer authorizes PM to repair the Product(s) which is not covered under the warranty, the Customer must pay all the charges for all parts, shipping/delivery and labour for the repair and return of the Product.
18. Any 3rd party software applications may be enhanced/upgraded/discontinued/disabled without further notice.
19. Home service only applicable for Television (more than 32 inches), Washing Machine & Dryer, Refrigerator, Electric Home Shower, Built-In-Kitchen (BIK), Commercial Microwave Oven, Range Hood, Bidet, Smart Closet, Ceiling Fan, Ventilating Fan, Water Pump (for ground installation only), Projector (Laser/DLP), Display Panel, Security (CCTV), Video Intercom, and other than these products indication, additional charges/fees (part, labour and transportation) will be imposed.
20. PM reserves the right to refuse to attend to any product installed/located in locations which are deemed inaccessible, inappropriate, and/or hazardous to the safety and wellbeing of its service agents and will be deemed to be outside the warranty coverage.
21. Customer is required to collect their repaired/serviced products within 60 days from the date of notification by PM. If the product is not collected within this period, PM reserves the right to charge storage fees, dispose of the product, or take other appropriate actions without further notice. PM will not be liable for any loss or damage to the product due to the customer's failure to collect within the specified timeframe.
22. This warranty card is not replaceable in the event of loss, theft, and/or defacement.
23. PM reserves the right to amend the terms and conditions in whole or in part without prior notice given.
24. The terms and conditions are governed by the laws of Malaysia and the Customer(s) agree to submit to the non-exclusive jurisdiction of the Courts of Malaysia.
25. If any dispute arises, PM reserves the right to exercise its discretion to determine and resolve the matter accordingly.

(B) Conditional Warranty for Selected Products:

Applicable for selected products: its specific component after the general warranty within a period of 1 year (12 months) has expired. All expenses relating to service/labour charges, transportation or freight charges, refilled gas, additional replacement parts, incurred in repairing or servicing the product will be borne by the customer.

1. Washing Machine component/part warranty.
   - Top Load below 8kg and Front Load Non-Inverter : PC Board (Main/Power/Controller) within 3 years ; Wash Motor only 1 replacement within 5 years.
   - Top Load 8kg and above ; Front Load Inverter : PC Board (Main/Power/Controller) within 3 years ; Wash Motor only 1 replacement within 12 years.
   - Washer Dryer : PC Board (Main/Power/Controller) within 3 years ; Wash Motor only 1 replacement within 12 years (only valid for the Product purchased from 1st April 2025).
   - Twin Tub and Tumble Dryer/Heat Pump : All part within 1 year.
2. Refrigerator component/part warranty.
   - Single Door / 2-Door (below 180 litres net capacity) : Only 1 Compressor replacement within 5 years.
   - 2-Door (180 litres net capacity and above) / Side-By-Side / Multiple Doors : Only 1 Compressor replacement within 12 years.
3. Television product warranty.
   - Product warranty for TV : An additional 12 months product warranty.
4. Digital Still Camera / Video Camera product warranty.
   - An additional 12 months product warranty.
5. Water Pump component/part warranty.
   - Motor unit within 3 years.
6. Electric Home Shower component/part warranty.
   - Pump unit within 5 years.
7. Ceiling fan (DC) component warranty.
   - DC motor unit within 3 years.
8. System Solution product/component/part warranty.
   - Product warranty for Projector, CCTV, Professional Display, Professional Broadcast Camera (Main Unit only), Pan-tilt Zoom Camera (Main Unit only), Video Intercom, Network Switch, and HDVC : An additional 24 months product warranty.
   - Lamp unit of (i) LCD/DLP : 1,000 hours or 1 year whichever comes first ; (ii) SSI (Laser Projector): 10,000 hours.

(C) What is Not Covered in This Warranty:

1) Defects caused by the attack of household pests, pets, fire, lightning, theft, power failure, natural disasters (floods, fires, winds, earthquakes, lightning), corrosion, rusting, dust, spillage, stain, cosmetic damage (dent, crack, scratch), batteries leaking/damage due to long storage period, pollution, abnormal voltage or usage of generator, modifications, tampering, alteration or repair by unauthorized person, misuse, negligence, riots, accident, operate the products not according to the product's operating and installation instruction, poor storage condition, corrosive surrounding, chemical reaction, commercial usage, including abnormal long usage hours; or, under extreme usage environmental conditions, improper testing, issues cause by 3rd party equipment, demonstration, maintenance services; or general cleaning, installation, transportation from Dealers premises; or own collection; or shifting houses, improper packing/unpacking, normal wear and tear, wrong setting, poor network connection, foreign object entering the product, infestation by insects or vermin, product serial/batch number has been removed or made illegal or has been tempered with, usage of non-genuine spare parts, effect of electromagnet interference, adjustment or alteration of any kind.
2) This warranty does not include the removal, relocation, or retrieval of the product from its storage location, whether on-site of off-site. It is customer's responsibility to ensure that the product is accessible for service, inspection, or repair. The warranty covers only the repair replacement of the product once it is made available to our authorised service personnel.
3) The affected/defect is not reported to PM or Panasonic Authorized Service Dealers within 7 days from the incident date.
4) The affected/defect product have been disposed by the customer.
5) LCD/LED/OLED TV display typically will contain a small number of pixel and it is not classified manufacturing defect. Any pixel defects do not affect the operation or use of the product and is not considered a defect under this warranty.
6) Projector's Digital Mirror Devices (DMD block) damaged cause by direct/indirect laser beam.
7) Failure to conduct user servicing / cleaning / maintenance of the product or component (including heads, internal cavities, tub, filter, etc.).
8) Consumables, accessories, cabinet or cosmetic parts, knobs, remote control, batteries, filters, adapter, power cord, CCD unit (Projector), speakers, whip antenna, metal halide lamp, lens, carton box and packing materials.
9) Projector/CCTV/Professional Display : use the product in pubs, clubs, outdoor or any dusty hot or smoky atmosphere.
10) Purchase of used or display or demo or clearance product that is Obsolete/End-Of-Life/discontinued.
11) Proof of purchase that has been altered/illegible.
12) For non-Panasonic extended warranty provided by the PM Dealers or Non-Dealer or Insurance company.
13) Product purchased from non-authorised dealers or from overseas (unless applicable international warranty applies).

YOUR GUARANTEE OF QUALITY & SERVICE

Warranty

Panasonic Malaysia Sdn Bhd

Panasonic Malaysia Sdn Bhd

Registration No. 197601000977 (26975-W)

Customer Care Centre

Tel : 03 7953 7600 Fax : 03 7953 7606

E-mail : ccc@my.panasonic.com

Service Centre

Selangor / Kuala Lumpur
Lot 10, Jalan 13/2, 46200 Petaling Jaya,
Selangor Darul Ehsan
Tel : 03 7953 7600 Fax : 03 7953 7606

Pulau Pinang / Kedah / Perlis
No. 117, Jalan Macalister, 10400 Pulau Pinang.
Tel : 04-227 4070 Fax : 04-227 8411

Johor
No. 2, 2A, 2B, Jalan Impian Emas 7,
81300 Skudai, Johor Bahru.
Tel : 07-554 3531 / 07-558 3561 Fax : 07-557 3506

Warranty Registration

Service Request

Chat with US

Other than above Service Centre , kindly visit our website : https://www.panasonic.com./my/support/service-center.html for nearest Authorised Service Centre.

THIS WARRANTY CARD IS TO BE RETAINED BY CUSTOMER. FOR WARRANTY SERVICE, PRESENT THIS WARRANTY CARD WITH ORIGINAL PURCHASE RECEIPT		
Customer's Name : **Address :** **E-mail Address :**		**Date of Purchase** Date Month Year **(To be completed by dealer)**
Tel No.	**House :**	**Dealer's name and address (Stamp)**
	Handphone :	
Product		
Model		
Serial No. / BatchNo.		

The customer's data or personal information collected is governed in accordance to Personal Data Protection Act 2010 (PDPA) and applicable personal data protection policy. This policy may be reviewed from time to time and obtain detailed & updated version, please refer to Panasonic Malaysia website www.panasonic.com.my

ALL – 122024