Acme Sanitary Ware Co. Ltd.
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong
Tel: 2388 7171 Fax: 2710 8012
Email: acme@acmesanitary.com.hk
Website: www.acmesanitary.com.hk
Since 1949

PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			Page	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Stern (Israel) "Neptune Shower Panel" Exposed mounted touch-free electronic thermostatic shower panel with water temperature adjustment for hot and cold water in AC Supply with 5m wire AC 110-240 Vac 50/60Hz to 9V 0.3A **IP68 waterproof switching transformer**
Dimensions	L189 x W60 x H1016 mm
Model	Neptune Shower Panel 1000 TE
Code Number	604410
Supplier	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012
E-mail	acme@acmesanitary.com.hk
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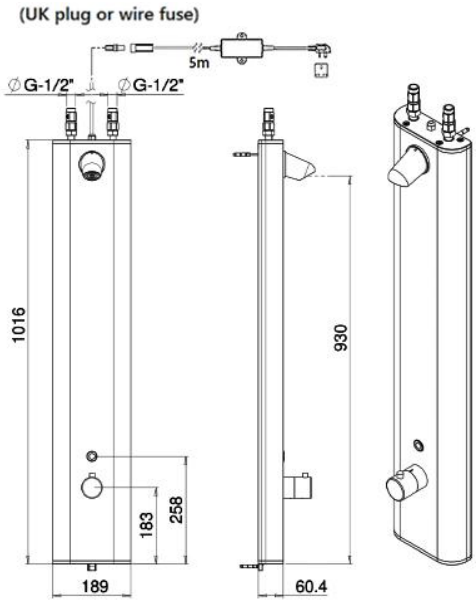
Illustration/ Drawing

NEPTUNE SHOWER PANEL 1000 TE
Ref # 604410

Touch free electronic shower panel activated by an infrared sensor. Includes a thermostatic mixer, non-return valves, filters and thermostop at 38 °C. Aluminum panel. Includes a vandal resistant shower head with a 9 LPM flow restrictor. Low battery indicator included. The following settings can be changed by using the Stern remote control: sensor range, security time, delay in, delay out and on-off.

Application:
Combines an elegant design with high quality into a vandal resistant product. Helps washrooms to stay hygienic, safe and water saving. Ideal for retrofit installations, sport facilities and spas.

Use:
Touch free electronic shower control. The shower will be activated once the user steps within the sensor range.



PRODUCT AT A GLANCE	
Installation	Exposed
Power Supply	• 9V battery • 9V transformer
Operating pressure	0.5-8.0 bar / 7.0-116.0 PSI
Water supply	Hot and cold water
Water flow	9 LPM / 2.38 GPM
Water Saving Options	3.5 LPM/0.93 GPM, 4LPM/1.05 GPM, 5 LPM/1.32 GPM 6 LPM/1.59 GPM, 7 LPM/1.85 GPM
Water Temperature	Maximum 70°C

ORDERING INFORMATION			
MODEL	CODE	POWER	ADDITIONAL SPECIFICATIONS
NEPTUNE SHOWER PANEL 1000 TB	602410	6X1.5V batteries	With thermostatic mixer for water temperature control
NEPTUNE SHOWER PANEL 1000 TE	604410	9V Transformer	

Installation:
Wall mounted exposed

Water supply:
Hot & Cold (2 inlets)

Water temperature:
Max 65 °C

Operating pressure:
0.5 - 8.0 bar

Power source:
IP68 Encapsulated transformer

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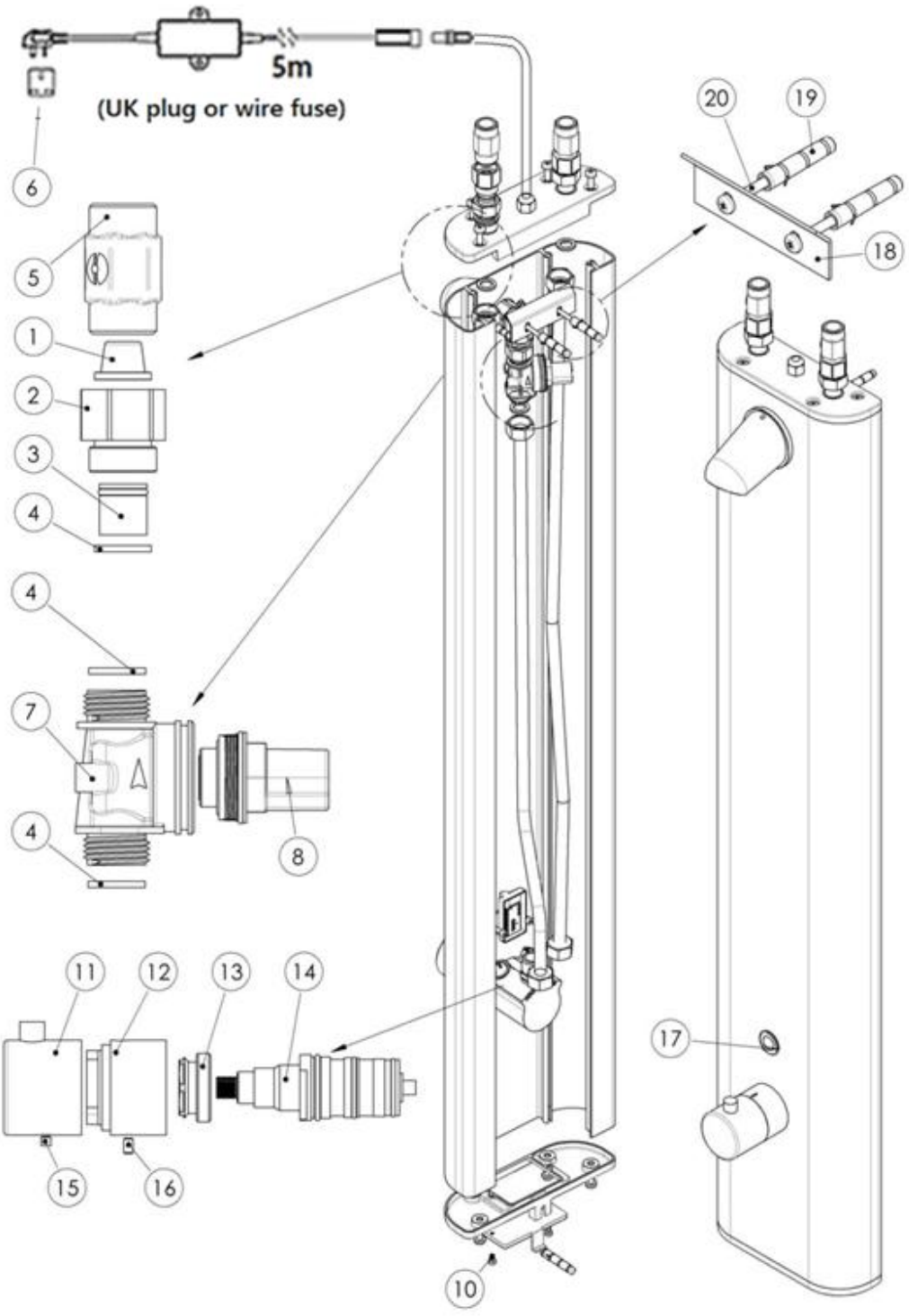
SANITARY WARE SPECIFICATION SHEET

Neptune Shower Panel 1000TE (604410)



Note: In order to locate the relevant spare part, please check the corresponding parts and part number in the drawing. Minimum order quantity will be required.

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SANITARY WARE SPECIFICATION SHEET

Quantity	Part Number	Description	Cat. No.
	-	**Seals and Screws Kit**	**07210124**
2	10	Screw M4	
1	15	Screw M5x5	
1	16	Screw M5x8	
9	4	Gasket	
	-	**Inlet Nipple Kit**	**07246013**
1	1	Filter	
1	3	Valve Check	
1	2	Adapter	
1	4	Gasket	
1	5	Ball Valve G-1/2"	
	-	**Mounting Kit**	**07280009**
1	18	Support for Shower Panel	
3	19	Wall anchor plug	
3	20	Screw	
	17	**Prox sensor P for Shower Panel**	**07220164**
	14	**Thermostatic cartridge**	**07110014**
	13	**Nut for Thermostat**	**07055137**
	-	**Thermostatic Handle Kit**	**07110023**
1	11	Thermostatic handle	
1	15	Screw M5x8	
	-	**Adapter for Handle Kit**	**07260018**
1	12	Adapter for Handle	
1	16	Screw M5x8	
	-	**Solenoid BS-Housing Kit**	**07231013**
1	8	Solenoid Valve	
2	4	Gasket	
1	7	Valve Body 1/2" short PA	
	8	**Solenoid Valve**	**07500065**
	6	**Transformer**	TBC

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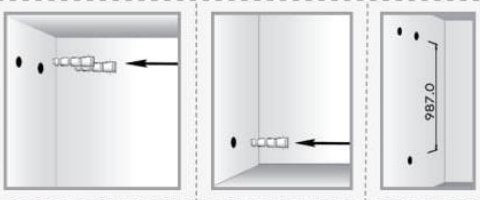
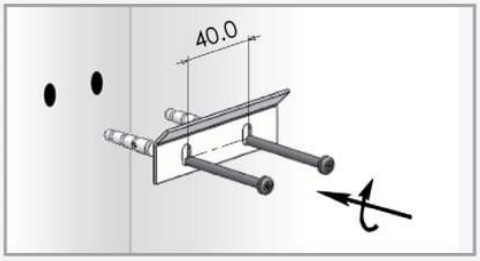
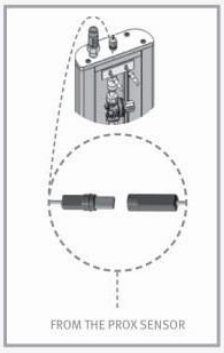
INSTALLATION

1	Shut off the water supply. Drill two top holes for the support and one bottom hole in the wall according to the panel dimensions and drive the anchors in.	
2	Secure the support to the two top holes using 2 screws.	
3	Assure that the cable coming from the prox sensor to the solenoid valve is connected.	
4	**For battery operated versions:** Connect the other cable coming from the prox sensor to the battery box connector.	
	For transformer operated versions: a. Connect the extension cable coming out of the waterproof power cable pass, through to the encapsulated transformer connector. b. Assure that the power supply cable and the prox sensor cable are connected.	 

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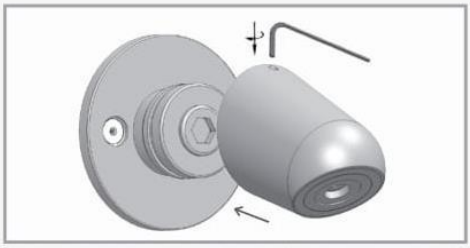
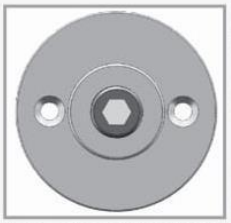
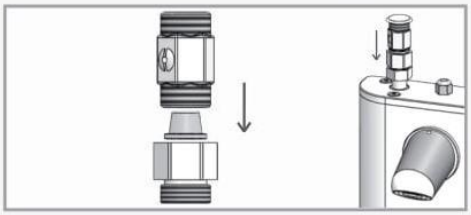
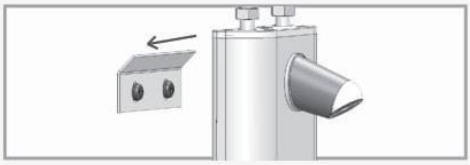
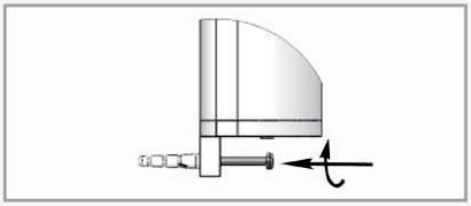
INSTALLATION

5	Assemble the shower head 9000 on the shower head basis already installed on the shower panel and secure it into place using the 2mm Allen key.	
NOTE: The shower head 9000 is provided with a 9LPM flow restrictor, combined in the shower head basis that is already installed on the shower head panel. If you do not wish to restrict the flow, remove the flow restrictor with an 8mm Allen key.		 
6	Connect the shut off valve\s to the water inlet\s at the top cover of the shower panel. IMPORTANT: Make sure that the filter\s is\are installed between the shut off valve\s and the water inlet\s.	
7	Mount the shower panel on the support.	
8	Secure the shower panel bottom cover to the wall using a screw.	
9	Connect the shut off valve\s to the water supply pipe\s. Turn on the water supply and check for leaks.	

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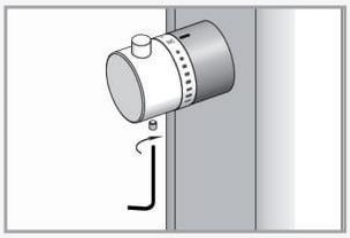
ADJUSTING THE WATER TEMPERATURE

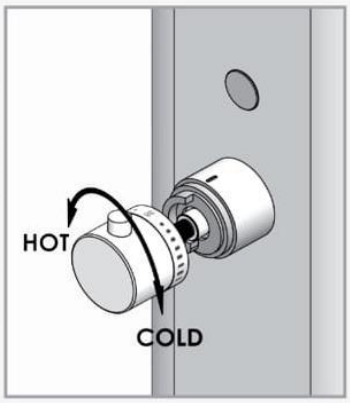
The shower has been factory calibrated to 38°C under ideal installation conditions.
Due to variations in site conditions, the mixed water temperature may need adjustments to match the site conditions and make sure that it is safe.

1. Unscrew the regulation knob screw and remove the regulation knob.

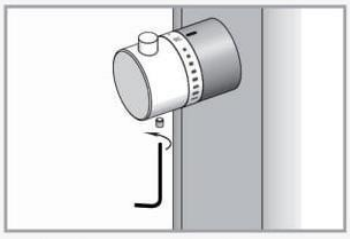


2. Process to the 38°Csettings by turning the spindle and measure the water temperature with a thermometer. The setting is correct when a temperature of mixed water of 38°C is achieved. Assemble the regulation knob to 38°C position. The anti scalding knob must correspond to the 38°C stop in the stop ring, without moving the spindle.

NOTE: Make sure always to use a thermometer with proven accuracy.



3. Screw the regulation knob screw and tighten it.



THE MIXER IS NOW CALIBRATED ACCORDING TO THE SITE SPECIFIC CONDITIONS.

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TROUBLESHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the faucet:	1. Sensor flashes continuously when user's hands are within the sensor's range.	Low battery.	Replace battery
	2. Red light in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short.	Increase the range
		2. Range is too long.	Decrease the range
		3. Battery is completely used up	The battery must be replaced.
		4. Unit is in "Security Mode"*	
		5. Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
	3. Red light in the sensor flashes once when user's hands are within the sensor's range.	1. Connectors between the electronic unit and solenoid are disconnected.	Connect the electronic unit connectors to the solenoid.
		2. Debris or scale in solenoid.	Check the solenoid valve.
		3. The central orifice in the diaphragm is plugged or the diaphragm is torn	Clean the orifice or replace diaphragm.
		4. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
		5. The water supply pressure is under 8 bars.	Reduce the supply water pressure.
Water flow from spout does not stop:	1. Sensor flashes once when user's hands are within the sensor's range.	Debris or scale in diaphragm	Clean the orifice or replace diaphragm.
	2. Red light in the sensor does not flash once when user's hands are within the sensor's range.	1. Sensor is dirty or covered.**	Clean or eliminate case of interference.
		2. Sensor is picking up reflections from the washbasin or another object.	Decrease the range or eliminate cause of reflection.

* "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow. To return to normal operation remove any blockage.

** In this case, the water flow will stop anyway after 90 seconds because of the security time.