

#### 即熱式恆溫氣體熱水爐 Instantaneous Modulation Gas Water Heater

#### 使用說明書 User Instructions

#### 型號 Model NSW13TM / NSW16TM / NSW13RM / NSW16RM





NSW13TM NSW16TM NSW13RM NSW16RM

香港煤氣適用 For Hong Kong Town Gas

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#### 注意!

根據香港氣體安全條例,任何氣體裝置工程,包括爐具和接駁喉管的安裝, 必須由註冊氣體裝置技工執行,而該技工已於相關的氣體工程類別註冊及受 聘於註冊氣體工程承辦商。

為安全使用本爐具,請遵照下列各項指示。下列指示對安全有莫大關係,警示及其意思如下:

<u></u> 危險	若忽視此警示,並作出錯誤行動,可能引致死亡或嚴重受傷和發生火警的危險。
<u></u> 警告	若忽視此警示,並錯誤使用爐具,可能引致死亡或嚴重受傷,亦可導致 火警發生。
<u></u> 注意	若忽視此警示,並錯誤使用爐具,可能會引致受傷和財物損毀。

上述描述所導致的受傷及財物損毀情況,請參考下列詳細描述。

- 受傷 : 出現損傷、燙傷及觸電等情況,並須送院治理或長期留院治療。
- 財物損毀: 對房屋及傢俱等物件造成廣泛損毀。

本說明書中包含不同警示,請參考下列有關警示意思的描述。



危險、警告、 注意



禁止



切勿觸摸



必須執行



切勿拆開



必須接到地線

#### **危險**

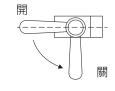
#### 若發現本爐具出現以下問題



- 當使用爐具時,若發現異常的火焰、氣味或特別的 聲音,請立即關閉熱水水龍頭及煤氣錶掣,並通知 煤氣公司安排檢修。
- 在發生地震或火災時,請立即停止操作爐具。



1. 關閉熱水水龍頭



2. 關閉煤氣錶掣



#### 切勿將煙道的出口置於室內

• 煙道的出口必須面向室外地方。





#### 危險



#### 若你發覺有煤氣洩漏

- 1. 請停止使用本爐具, 並關閉煤氣錶掣。
- 2. 開啟所有窗戶 讓煤氣排出 屋外。
- 3. 使用位於室外的 電話與煤氣公司 緊急事故熱線 2880 6999聯絡。



關閉水龍頭







#### 若發生燃氣洩漏



- 切勿點燃明火、插拔電源插頭。
- 禁止開啟或關閉電器產品。
- 切勿在附近使用電話、手機。







切勿在漏氣處理完畢前進行上述活動或再次打開煤氣錶掣。

#### ⚠ 警告

#### 請小心看管兒童



- 注入熱水到浴缸時, 切勿讓兒童在浴室玩耍, 以免兒童不小心掉進浴缸或導致預計不到的 意外發生。
- 切勿讓兒童於沒有成人監督下洗澡。

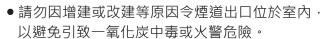
#### 嚴禁自行拆卸、維修或改裝爐具



■ 爐具的安裝、維修及其他附帶工程,必須由受僱於註冊氣體工程承辦商及領有適當類別的 氣體裝置技工進行,以免造成危險或損毀爐具。



#### 切勿遮蓋煙道出口







#### **注意**

#### 有關安裝

- 嚴禁安裝爐具於室外地方。
- 0
- 爐具必須在空氣流通的房間安裝及使用。
- 請儘量縮短熱水喉管的長度,以及避免水管有可能導致閉塞及滯水的地方。
- 儘量縮短熱水出口與水龍頭的距離。
- ●安裝煙道時,確保排出的煙氣不會直接排向外牆、窗戶、玻璃、鋼門或鋁窗框等物件, 這或會引致這些物件出現變形及變色。

#### 遵照下列指示,避免火警



- 切勿於爐具或煙道問圍擺放易燃物品,如紙張、木材或 衣服。
- 切勿於爐具或煙道周圍擺放或使用揮發性物品,如汽油 或揮發油。
- 切勿於爐具或煙道周圍擺放或使用噴霧罐·如噴髮劑或噴霧清潔劑。



#### 有關用途

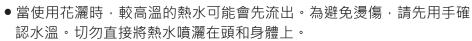


- 本爐具只供家居用途。為免縮短爐具的壽命,請勿用於商業用途。
- 請勿將流經本爐具的水用作飲用或煮食用途。
- ◆本爐具只作供應熱水給浴室或廚房使用,切勿用作其他用途,以免發生意外或損毀爐具。

#### 遵照下列指示以防燙傷



■當使用熱水後,立即重開熱水水龍頭或迅速減慢熱水流出時,較高溫的 熱水有機會突然噴出。為避免燙傷危險,切勿將熱水直接噴灑在頭和身 體上。





先用手確認水溫



● 切勿觸摸煙道,避免燙傷。



切勿觸摸煙道

#### **注**注意



#### 有關爐具控制器

●請勿讓小孩隨意按動爐具的面板控制器或遙控器 (如適用)。 避免造成意外或損毀爐具。



#### 有關使用



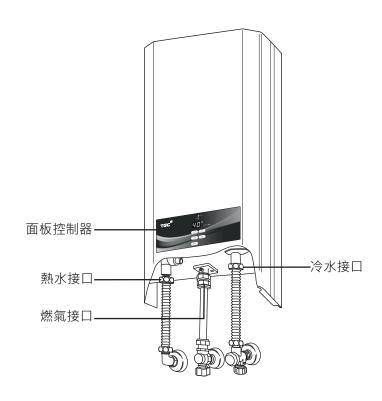
- 若爐具已停用超過一星期,於使用前,應將滯留於水管內的水先排走。
- 進行排水時,應儘量避免產生水霧或水花。
- 排水方法:關閉爐具,將距離爐具最遠的熱水水龍頭完全開啟1分鐘。
- 為節省能源,不使用熱水時,應將爐具完全關閉。

#### 有關清潔及保養



- 若爐具或喉管接觸到含氯除菌劑、酸性浴室清潔劑、除臭劑或食鹽,請用大量的清水把它們沖掉,避免造成意外或損毀爐具。
- 切勿使用溶劑或油性清潔劑清潔爐具,否則或會令爐具變色或變形。
- 請使用原廠零件及配件,避免造成意外或損毀爐具。

#### NSW13TM / NSW16TM / NSW13RM / NSW16RM



- 爐具最多可接駁 1 個浴室遙控器 (RC-80BE) 及 1 個廚房遙控器 (RC-80K)。
- 額外浴室遙控器 (RC-80BE)及廚房遙控器 (RC-80K)亦可供選購。

面板控制器



(隨爐附送)

浴室遙控器 RC-80BE



(可供選購)

廚房遙控器 RC-80K



(可供選購)

#### 面板控制器/遙控器

#### 開/關指示燈

• 爐具開啟時,綠色指示燈 會亮起。

#### 溫度顯示

- 顯示熱水溫度設定。
- 當熱水溫度設定為50℃或 以上,溫度顯示會閃爍, 同時高溫指示燈會亮起。
- 於爐具出現異常時顯示故 障信號。

#### 水溫設定按鈕

• 用作調節熱水溫度。

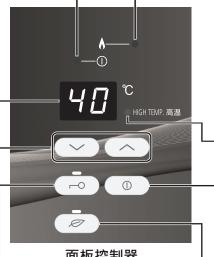
#### 優先按鈕/ 優先指示燈

#### 面板控制器或浴室遙控器

- 用作轉變面板控制器或 遙控器的優先選控權。
- 按下按鈕取得優先選控 權。擁有優先選控權的 遙控器,綠色優先指示燈 會亮著。
- 熱水溫度可於綠色優先指 示燈亮著的面板控制器或 遙控器調節。
- 指示燈閃爍時,優先選控 權不可更改。
- 指示燈熄滅時, 重按取回 優先選控權。

#### 廚房遙控器

- 只有優先指示燈。
- 擁有優先選控權的遙控器 燈號便會亮起。



#### 面板控制器



浴室遙控器: RC-80BE



廚房遙控器: RC-80K

#### 運作指示燈

- 爐具於備用狀態,綠色 指示燈會亮起。
- 運作時,指示燈會由綠色 色變為黃色。

#### 高溫指示燈

● 當熱水溫度設定在 50°C 或以上時,紅色指示燈 會亮起。

#### 開/關按鈕

- 用作啟動或關閉爐具。
- 按下按鈕啟動爐具,溫度 顯示、開/關指示燈及 優先指示燈會亮起。
- 擁有優先選控權的面板 控制器或遙控器可按動 該按鈕關閉爐具。

#### 環保按鈕/ 環保指示燈

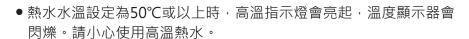
● 按下按鈕啟動環保 (Eco) 模式,綠色指示燈會 亮起。

#### 操作指示

#### 注意

- 首次或於早上使用爐具時,供氣管道內有機會因殘留空氣而無法即時點燃燃燒器。 請關閉熱水水龍頭,待10秒後再開啟熱水水龍頭,重複自動點燃程序。
- 為避免燙傷:
  - 淋浴前請先用手確認水溫,切勿直接將熱水噴灑在頭和身體上。
  - 使用高溫熱水後,水管中仍存有高溫熱水。再次使用較低溫的熱水時,應先用手確認水溫,待溫度適合後才使用。







先用手確認水溫

- 在供水壓力較高的情況下,使用爐具時有機會出現較大的水流聲, 此屬正常現象。
- 長時間不使用爐具時,請關閉冷水水掣及爐具供氣閥。

#### 初次使用爐具

#### 請按以下指示檢查爐具運作。

將熱水水溫調節至35℃的設定。完全開啟熱水 水龍頭,並確認熱水流出後關閉。

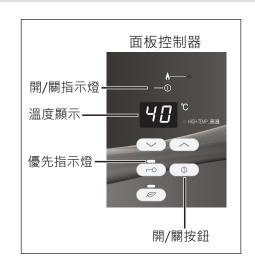




#### 使用爐具

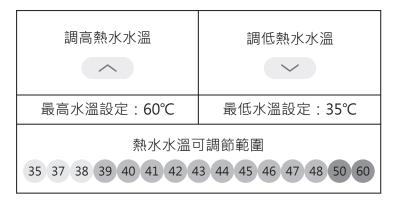
#### (1) 啟動爐具

- 啟動爐具電源後,按面板控制器或遙控器(如適用) 上的開/關按鈕。
- 溫度顯示及開/關指示燈亮起,此時爐具處於備用狀態。
- 安裝後首次使用時,預設溫度為40℃。



#### (2)設定熱水水溫

● 按水溫調節按鈕調節熱水水溫。

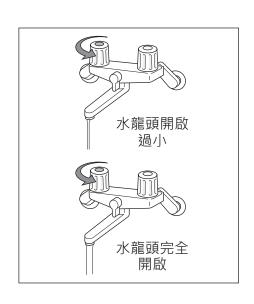


 熱水溫度設定為50℃或以上時,高溫指示燈會亮起, 溫度顯示會閃爍。



#### (3)使用熱水

- 開啟熱水水龍頭後,燃燒器會自動點燃,熱水隨即流出。 黄色運作指示燈會亮起。
- 熱水流量低於最低熱水流量時,燃燒器便會關閉。因此 熱水水龍頭不宜開啟過小,否則使用時有機會出現無法 燃點或中途熄火現象。
- / 爐具運作時,熱水溫度只可設定為48℃或以下。/ 如熱水溫度已設定為48℃或以上,熱水溫度只可調低。

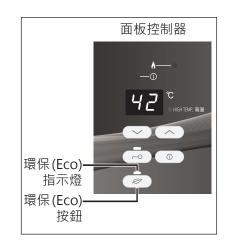


#### 操作指示

#### 使用爐具

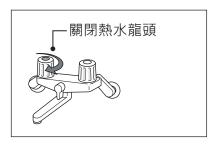
#### (4) 設定環保 (Eco) 模式

- 按環保 (Eco) 按鈕啟動環保 (Eco) 模式,綠色指示燈會亮起。
- 於環保(Eco) 模式下,爐具最高水流量限制於9升/每分鐘。
- 所設定的熱水水溫不會受環保 (Eco) 模式的啟動而影響。
- 再按環保(Eco)按鈕取消環保(Eco)模式,其指示燈會熄滅。



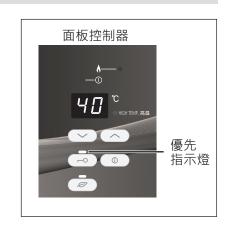
#### (5)停止使用熱水

- 關閉熱水水龍頭後,爐具立即停止運作,熱水停止流出。 運作指示燈會熄掉。
- 需再次使用熱水時,重複步驟(1)至(4)。
- 按下面板控制器或遙控器(如適用)上的開/關按鈕·溫度 顯示及所有指示燈會熄滅。



#### 轉換優先選控權 (安裝多個遙控器)

- 安裝一個或以上(最多兩個)的遙控器,只有擁有優先選控權的面板 控制器或遙控器才可設定熱水溫度,以防止意外發生,如燙傷等。
- 當面板控制器或浴室遙控器擁有優先選控權,綠色優先指示燈會 京起,而其他遙控器上的優先指示燈會閃爍。
- 當廚房遙控器擁有優先選控權,其優先指示燈會亮起,而其他遙控器上的優先指示燈會熄滅。
- 利用面板控制器或浴室遙控器可轉換優先選控權至廚房遙控器。
- 優先選控權不能於優先指示燈閃爍時或爐具正在運作時轉換。



面板控制器 浴室遙控器\* 廚房遙控器\*



(優先指示燈亮起)



(優先指示燈閃爍)



(優先指示燈閃爍)

按動面板控 制器的優先 按鈕獲取優

按動浴室遙

控器的優先

按鈕獲取優

先選控權。

先選控權。

面板控制器 浴室遙控器\* 廚房遙控器\*



(優先指示燈熄滅)



(優先指示燈熄滅)



(優先指示燈亮起)

浴室遙控器\* 廚房遙控器\*

再次按動面板 控制器的優先 按鈕將優先選 控權轉換至廚 房遙控器。

面板控制器 浴室遙控器\* 廚房遙控器\*



(優先指示燈閃爍)



(優先指示燈亮起)



(優先指示燈閃爍)

面板控制器



(優先指示燈熄滅)



(優先指示燈熄滅)



(優先指示燈亮起)

再次按動浴室 遙控器的優先 按鈕將優先選 控權轉換至廚 房遙控器。

- \*浴室遙控器為 RC-80BE; 廚房遙控器為 RC-80K。
  - ●每個遙控器均可儲存其之前擁有優先選控權所設定的溫度(最高48℃),取回優先選控權時,設定溫度 將變更為上次儲存的溫度。
  - 設定溫度為50℃或以上時,解除後再取回優先選控權時,設定溫度將變更為48℃。
  - 當爐具處於備用狀態超過10分鐘,優先選控權會自動解除,所有優先指示燈會關掉。再使用爐具時,爐具會按照之前擁有優先選控權的面板控制器或遙控器所設定的溫度提供熱水。
  - ●設定溫度為50℃或以上,且處於備用狀態超過10分鐘時,優先選控權會自動解除,設定溫度將變更 為48℃。

#### 操作指示

#### 安全裝置

- ●熄火安全装置:裝置利用火焰感應棒監察燃燒狀態是否正常。當火焰失效時,信號會傳送到主控器,裝置會啟動,並停止爐具運作。
- **殘火保護裝置:**熱水水龍頭關閉後,若火焰仍然存在而熱交換器內的熱水溫度高達設計溫度時, 裝置啟動,並停止爐具運作。
- 防止過度沸騰保護裝置:當熱水溫度高於設計溫度時,裝置會啟動,並停止爐具運作。
- 防止過熱保護裝置:當熱交換器燒毀或溫度高於設計溫度時,裝置會啟動,並停止爐具運作。
- ●防止過高水壓保護裝置:當爐具內的水壓高於設計水壓 · 位於熱水出口的水洩壓閥會打開洩壓 · 並於水壓降回設計水壓時關閉。
- 水流量感應裝置:當冷水水流受到阻隔或被中止,裝置會啟動,並停止爐具運作。
- **助燃風扇轉速檢查裝置**:裝置利用轉速感應器監察風扇的轉速是否正常。當風扇轉速與要求轉速 有所偏差時,信號會傳送到主控器以調整轉速。

#### 調節熱水溫度提示

- 為配合在不同季節的沐浴使用,可透過面板控制器或遙控器 (如適用),調節所需的熱水溫度。
- 在冬季偶有極寒冷的天氣,自來水的溫度可能過低或熱水流量過大,爐具的出水溫度可能會比較低,可透過調節水龍頭或花灑掣減少熱水流量,以便獲得適合的水溫。
- 在夏季偶有極炎熱的天氣,自來水的溫度可能過高或熱水流量過小,爐具的出水溫度可能會比較高,您可以取消環保(Eco)模式或透過調節水龍頭或花灑掣輔以混合冷水,以便獲得適合的水溫。

#### 保養

- (1) 爐具機身及遙控器不可用溶劑清潔,應使用濕軟布揩抹,再用乾軟布抹乾。
- (2) 爐具機身及遙控器備有防水設計,但亦盡量避免向爐具機身及遙控器噴水。
- (3) 如花灑出水量變少,花灑頭的水孔可能已堵塞。應檢查並加以清理。
- (4) 必須定期檢查及保養爐具,以確保使用上的安全及效率。

#### 故障處理

安全裝置會持續監察爐具運作的狀況。當故障發生時,故障代碼會立即顯示在溫度顯示上。當致電維修服務時,請說出故障時所顯示號碼。

故障代碼	故障原因	處理方法
01	連續燃燒60分鐘	關閉熱水龍頭,關掉遙控器,重新啟動開關按鈕後便 可再運作。
10	殘火檢測	請致電客戶服務
11	點火失誤	關閉面板控制器或遙控器 (如適用)後,檢查煤氣錶 閥及 / 或爐具供氣閥是否完全開啟。確認供氣正常及 未有中斷。如供氣正常,重新啟動控制器。重複開啟 及關閉熱水水龍頭數次,每次開關需隔約10秒。如故 障代碼仍然存在,請致電客戶服務。
12	熄火保護裝置啟動	請致電客戶服務
14	防止過熱保護裝置啟動	請致電客戶服務
16	防止過度沸騰裝置啟動	請致電客戶服務
20	殘火保護裝置啟動	請致電客戶服務
31	回流熱敏電阻斷接或短路	請致電客戶服務
32	熱水熱敏電阻斷接或短路	請致電客戶服務
61	助燃風扇出現異常	請致電客戶服務
71	電控件故障	請致電客戶服務
72	電控件故障	請致電客戶服務
73	電控件故障	請致電客戶服務
760	電控件故障	請致電客戶服務
90	燃燒裝置故障	請致電客戶服務

在一般情況下,關閉熱水水龍頭然後重新開啟,故障代碼有可能消除。若故障代碼仍然存在,可先嘗試關閉供電電源,等待10秒後重新啟動爐具。如故障代碼繼續存在,請致電煤氣公司客戶服務熱線28806988。

在寒冷及潮濕的天氣,煙道出口偶會冒出煙霧,這是煙氣中的水氣遇冷而形成白色煙霧,此屬正常現象。

#### 故障處理

#### 關於熱水供應及溫度

#### 沒有熱水供應

- 檢查供氣是否正常及有否出現中斷。
- 檢查水龍頭是否出水正常。
- 檢查冷水過濾網是否被堵塞。
- 檢查供電是否正常。
- 完全開啟煤氣錶閥及 / 或爐具供氣閥。
- 完全開啟冷水水掣及 / 或熱水水龍頭。
- 啟動爐具電源後,並按面板控制器或遙控器(如適用)上的開/關按鈕。

#### 熱水沒有即時流出

- 啟動電源後,按面板控制器或遙控器 (如適用) 上的開/關按鈕。
- 從爐具到熱水水龍頭間存在一段距離,因此熱水未能即時流出。

#### 熱水流量出現變化

- 如爐具正於一個水龍頭供應熱水,並於另一個水龍頭需同時供應熱水時,熱水水流量會減少。而因應供水熱水壓及水管狀況,有機會出現熱水水流量驟降或水流斷續的情況。待供水水壓及水管狀況穩定後,熱水水流會穩定下來。
- 因不同水龍頭產品於特性上有所差異,熱水水流量的改變有機會屬個別產品的 特性。例如:熱水水流於剛流出時會較多,後續水流將趨於穩定。

#### 熱水溫度過高

- 完全開啟冷水水掣及/或熱水水龍頭。
- 檢查所設定的熱水溫度是否適當。
- 在夏季偶有極炎熱的天氣,自來水的溫度可能過高或熱水流量過小,爐具的出水溫度可能會比較高,您可以取消環保(Eco)模式,調節水龍頭或花灑掣輔以混合冷水,以便獲得適合的水溫。

#### 熱水溫度過低

- 完全開啟煤氣錶閥及/或爐具供氣閥。
- 檢查所設定的熱水溫度是否適當。
- 在冬季偶有極寒冷的天氣,自來水的溫度可能過低或熱水流量過大,爐具的出水溫度可能會比較低,您可以調節水龍頭或花灑掣來減少熱水水流量,以便獲得適合的水溫。

#### 故障處理

#### 關於熱水供應及溫度

熱水溫度不穩定

- 完全開啟供水主閥,確保供水壓力足夠。
- 増加混合水龍頭的熱水量・避免因熱水流量低於最低熱水流量・而導致燃燒器 關閉。

不能調節熱水溫度 設定

- ●確認使用中的面板控制器或遙控器 (如適用) 擁有優先選控權,及檢查優先 指示燈是否亮著。
- 爐具運作時,熱水溫度只可設定為48℃或以下。如熱水溫度已設定為48℃或 以上,熱水溫度只可調低。

#### 關於面板控制器、遙控器 (如適用) 及爐具運作

開/關指示燈沒有 亮起

- 檢查供電是否正常。
- 啟動爐具電源後,並按面板控制器或遙控器 (如適用) 上的開/關按鈕。

熱水溫度設定自行 變更

- 設定溫度為50℃或以上時,解除後再取回優先選控權時(如適用),溫度設定將 變更為48℃。
- 設定溫度為50℃或以上,目處於備用狀態超過10分鐘時,優先選控權會自動 解除,設定溫度將變更為48℃。

沒有使用熱水, 但風扇仍然運作 • 燃燒器關閉後, 助燃風扇仍維持短暫運作, 此屬正常運作。

使用中涂熄火

- 完全開啟煤氣錶閥及 / 或爐具供氣閥。
- 檢查供氣是否正常及有否出現中斷。
- 完全開啟冷水水掣及 / 或熱水水龍頭。
- 檢查水龍頭是否出水正常。

排煙管出口冒出煙霧 ● 在寒冷及潮濕的天氣,煙氣中的水氣遇冷形成白色煙霧,此屬正常現象。

出現渾濁情況

熱水出水變為白色並 ● 水中溶解的空氣受熱後,形成氣泡,此屬正常運作。

短暫流出水份

偶然於水洩壓閥出口 ●爐具內水壓高於設計水壓,位於熱水出口的水洩壓閥會打開洩壓,並於水壓 降回設計水壓時關閉。

# 規格

型號			NSW13TM	NSW16TM	NSW13RM	NSW16RM	
	爐具類別		機動排煙密封式				
	安裝方式			掛牆式			
	排氣方式	排氣方式		 排	背	 排	
	尺寸-闊x高x深(雪	毫米)		370 x 67	75 x 128		
	重量 (千克)			1	5		
	燃氣種類			香港	煤氣		
	供氣壓力 (千帕)			1	.5		
	燃氣接駁			3/4"	BSP		
	水管接駁	冷水		1/2"	BSP		
	小百分似	熱水		1/2"	BSP		
	   供電及信號接駁	電源		交流電 220	)伏特50赫		
		信號線		直流1	2伏特		
# <del>*</del> +P +2		煙道末端			形		
基本規格	煙道接駁	煙道直徑	進風接口 排氣接口	l:Ø100 □:Ø60	進風接口 排氣接口		
		煙道長度	最長5米及3個彎位 (1個彎位約等於2米長度)		,	/	
	點火方式			自動電	子點火		
	<b>宛中却名芸 (ブモ)</b>	最高	28.4	34.9	28.4	34.9	
	額定熱負荷 (千瓦)	最低		5.	81		
	耗電量 (瓦)	耗電量(瓦)		56	43	51	
	パナッレ 会に 十つ	機身		IP.	X4		
	防水能力	遙控器	IPX5				
	熱水供應能力25°C升溫(公升/分鐘)		2.5 至 13.0	2.5 至 16.0	2.5 至 13.0	2.5 至 16.0	
	熱水供應量範圍 (公升/分鐘)		2.5 至 16.0	2.5 至 20.0	2.5 至 16.0	2.5 至 20.0	
系統運作	最低熱水流量(公升)	最低熱水流量 (公升/分鐘)		2	.5		
31/1/0/2211	最低運作水壓 (千帕)			1	0		
	建議運作水壓範圍 (千帕)				700		
	熱水水溫選擇 (℃)			35、37至4	8、50及60		
		熄火安全裝置		火焰感應棒			
	殘火保護裝置		雙金屬開關 (90℃)				
	防止過度沸騰保護裝	置	熱敏電阻 (89℃)				
	防止過熱保護裝置		熱斷流器 (184℃)				
安全裝置	防止過高水壓保護裝	置	水洩壓閥 (啟動:1648千帕)				
		水流量感應裝置		水流感應器			
		助燃風扇檢測裝置		轉速感應器			
		電流過大保護裝置		保險絲 (5A)			
	漏電保護裝置				断路器		
功能	環保 (Eco) 模式			有			
<b>√) N</b> C	智慧功能			有 ( 需購置外置控制器 )			
配件	遙控器 (有線) ※可供選購		※ 遙控器 RC-80BE / RC-80K				

爐具符合香港電氣產品 (安全) 規例。

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#### Attention!

According to the Gas Safety Ordinance of Hong Kong, any gas installation works including the installation of appliances and connection tubing, must be undertaken by registered gas installers who are registered for that appropriate classes and be employed by registered gas contractor.

In order to use this appliance safely, please be sure to follow the below guidelines. The following guidelines have an important bearing on safety. Symbols and their meanings are as below.

<u> </u>	If you ignore this warning sign and act mistakenly, it may incur death, or serious injury and will lead to an imminent danger of fire breaking out.
<b>Warning</b>	If you ignore this warning sign and mistakenly handle the appliance, it may incur death or serious injury and may lead to fire incident.
<u> </u>	If you ignore this warning sign and mistakenly handle the appliance, this may incur injury or property damage.

The above injuries and properties damage refer specifically to the following descriptions.

• Injury : Injuries, burns and electric shocks etc. that require treatment in hospital

or long-term hospitalization.

Properties Damage: Widespread damage to house and furnishings.

This user instructions includes different symbols, please refer to the following descriptions for the meanings of corresponding symbols.



Danger, warning, caution



Forbidden



Do not touch



Be sure to do



Disassembly is forbidden



Must be earthed

#### **!** Danger

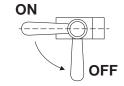
#### If you notice following problems with this appliance



- If you notice abnormal flames, gas smell or strange sounds when using the appliance, please turn off hot water tap and gas meter valve immediately and contact the Towngas company.
- In the event of earthquake or fire, cease operation without hesitation.



1.Turn off hot water tap



2.Turn off gas meter valve



#### Do not place the outlet of flue terminal indoor

• The outlet of flue terminal should be faced outdoor.



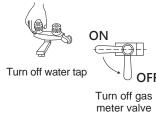


#### **A** Danger



#### If you notice a gas leak

- 1. Cease use and turn off the gas meter valve.
- Open all windows to disperse the gas.
- 3. Call Towngas Emergency Hotline on 2880-6999 with a phone outside the premises.







#### If there is a gas leak

 Do not ignite a fire, insert or remove power plug.



- Turning on or off any electrical appliance is forbidden.
- Do not use telephone or mobile phone nearby.







Do not perform any of the above actions or turn on the gas meter valve again until the gas leak is fixed.

#### **Marning**



#### Care to be taken with children

- When filling hot water into the bath-tub, do not allow children to play in the bathroom to avoid the children falling into the bath-tub or causing any dangers.
- Do not allow children to bath without the supervision of adult.

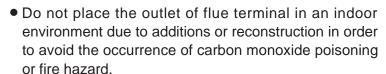


#### Self disassembling, repairing and modification of appliance are strictly forbidden

 Gas installer, who performs any installation, maintenance and its related work of appliance, shall be employed by registered gas contractor and be registered under appropriate class of gas installation work to prevent hazard or damage to the appliance.



#### Do not cover outlet of flue terminal







#### **⚠** Caution

#### Regarding installation



- Do not install the appliance at outdoor.
- Install and use the gas appliance in a well-ventilated room.
- Minimize pipe length and avoid dead legs and stagnant corners in hot water pipework.
- Minimize the distance between hot water outlet and water tap.
- When installing the flue terminal, make sure the flue gas does not discharge directly to the outside walls, windows, glass, mesh doors or aluminum sashes etc. This could cause material disfiguration or discolouration.

#### What you must do to prevent fire



- Do not place flammable materials, such as paper, wood or clothes, around the appliance or flue terminal.
- Do not place or use volatile materials, such as gasoline or benzene, around the appliance or flue terminal.
- Do not place or use spray cans, such as hair spray or spray cleaners, around the appliance or flue terminal.

# Flue terminal

#### Regarding use

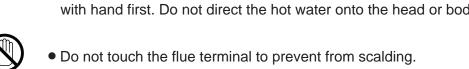


- This appliance is intended for residential application only. Do not use it for commercial application lest its service life is shortened.
- Do not use water from the appliance for drinking or cooking.
- This appliance is intended for supplying hot water to bathroom and kitchen. Do not use it for other purpose in order to avoid accidents or damage to the appliance.

#### What you must do to prevent scalding



- When turning on the tap again after using hot water or quickly reducing the hot water flow, relatively high-temperature hot water may suddenly come out. As there is a risk of being scalded, do not direct the hot water onto your head or body.
- When using the shower, relatively high-temperature hot water may come out first. In order to prevent scalding, check the hot water temperature with hand first. Do not direct the hot water onto the head or body.







Do not touch flue terminal

#### **!** Caution

#### Regarding control unit of appliance



 Keep the front panel control or remote control (if applicable) out of reach of children. It is intended to prevent accidents or damage to the appliance.



#### Regarding operation



- If appliance is not used for more than one week, drain away stagnant water inside the water pipework before use.
- During water purging, generation of water mist or splash should be avoided.
- Method of water purging: Turn off the appliance, fully turn on the most distant hot water tap from the appliance for 1 minute.
- To save energy, switch off appliance completely when hot water is not used.

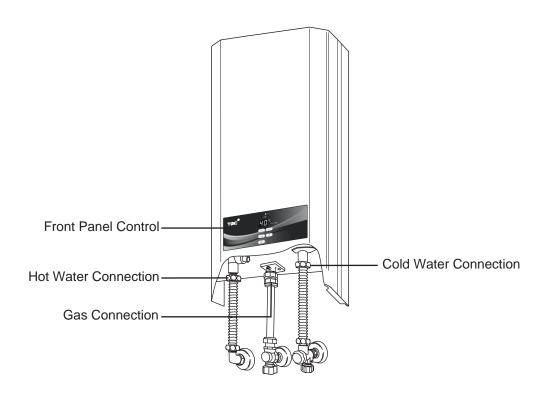
#### Regarding cleaning and maintenance



- If the appliance or pipework circuits are in contact with chlorine-based fungicides, acidic bathroom cleaners, deodorants or salt, wash them off with ample water straight away to prevent causing accidents or damage to the appliance.
- Do not use solvent or oil-based cleaners to clean the appliance. This could cause discolouration or disfiguration of appliance.
- Use only genuine parts for this appliance to prevent causing accidents or damage to the appliance.

#### **Product Descriptions**

#### NSW13TM / NSW16TM / NSW13RM / NSW16RM



- Appliance can be connected to a maximum of 1 bathroom remote control (RC-80BE) and 1 kitchen remote control (RC-80K).
- Additional bathroom remote control (RC-80BE) and kitchen remote control (RC-80K) can be purchased optionally.

Front Panel Control



(With appliance)

Bathroom Remote Control RC-80BE



(Optional to purchase)

Kitchen Remote Control RC-80K



(Optional to purchase)

#### **Product Descriptions**

#### Front Panel Control / Remote Control

#### **ON/OFF Indicator**

• When the appliance is turned on, green indicator lights up.

#### **Temperature Display**

- Display setting of hot water temperature.
- Temperature display blinks and high temperature indicator lights up when hot water temperature is set at or above 50°C.
- Error code will be displayed when the appliance malfunctions.

# Water Temperature Setting Button

• Use for adjusting hot water temperature.

# Priority Button / Priority Indicator

#### Front Panel Control or Bathroom Remote Control

- Use for changing priority of front panel control or remote control.
- Press the button to obtain the priority. Green priority Indicator lights up on the remote control with priority.
- Front panel control or remote control with green priority indicator lighting up can adjust hot water temperature.
- Priority cannot be changed when the indicator flashes.
- Press it again to obtain the priority when indicator goes out.

#### **Kitchen Remote Control**

- Priority indicator only.
- Remote control with priority indicator lighting up.

# Front Panel Control GAS WATER HEATER 探報熱水罐

#### Operation Indicator

- Green indicator lights up in standby mode.
- Indicator turns yellow from green during operation.

### High Temperature Indicator

 Red indicator lights up when hot water temperature is set at or above 50°C.

#### **ON/OFF Button**

- Use for turning on or off appliance.
- Press the button to turn on appliance, temperature display, ON/OFF indicator and priority indicator light up.
- Press the button to turn off appliance when priority indicator lights up.

# Eco Button / Eco Indicator

• Press the button to turn on eco mode, green indicator lights up.



Bathroom Remote Control: RC-80BE



Kitchen Remote Control: RC-80K

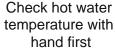
#### Caution

- When using the appliance for the first time or in the morning, the burner may not be ignited instantly because there may be some air remained inside the gas pipe. Please turn off the hot water tap and wait for 10 seconds, then turn on the hot water tap again to repeat the auto-ignition process.
- To prevent scalding:

before use.

- Check hot water temperature with hand first before taking shower. Do not direct hot water onto the head or body directly.
- After using high-temperature hot water, the high-temperature hot water still remains inside the water pipework. To use relatively low-temperature hot water again, check the temperature with hand first and wait for suitable temperature





- High temperature indicator lights up and temperature display blinks when hot water temperature is set at 50°C or above. Be careful of using high-temperature hot water.
- In case of high water supply pressure, relatively loud sound of water flow may occur during the operation of appliance. This is a normal phenomenon.
- Turn off the cold water valve and the gas supply valve of appliance when it is not used for a long period of time.

#### First Time Usage of Appliance

#### Check the appliance by following instructions.

 Set the hot water temperature at 35°C.
 Fully turn on the hot water tap and turn off after confirming the hot water is running out.

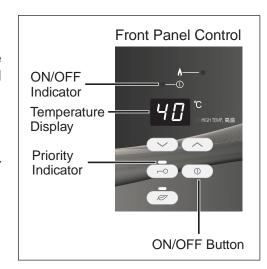




#### **Use of Appliance**

#### (1) Starting up appliance

- After turning on the power supply of appliance, press the ON/OFF button on front panel control / remote control if applicable.
- Temperature display and ON/OFF indicator light up.
   Appliance is under standby mode.
- First time usage after new installation, default hot water temperature is 40°C.

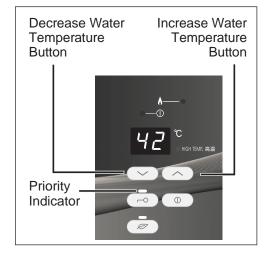


#### (2) Setting hot water temperature

 Pressing temperature adjusting buttons to adjust hot water temperature.

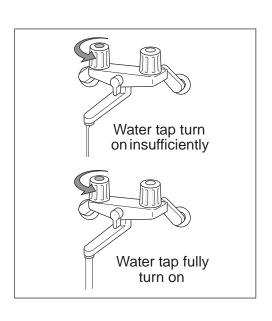
Increase hot water temperature	Decrease hot water temperature			
Highest water temperature setting: 60°C	Lowest water temperature setting: 35°C			
Range of adjustment of hot water temperature 35 37 38 39 40 41 42 43 44 45 46 47 48 50 60				

• Temperature display blinks when hot water temperature is set at 50°C or above.



#### (3) Using hot water

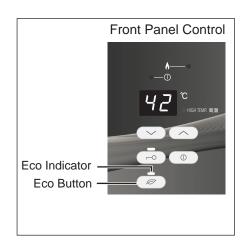
- After turning on hot water tap, burner will be ignited automatically and hot water will be supplied.
   Yellow operation indicator lights up.
- Burner will be turned off when the hot water flow is lower than the minimum hot water flow. Therefore, hot water tap should not be turned on insufficiently.
   Otherwise, ignition may fail or the flame may be extinguished during use.
- When appliance is in operation, hot water temperature can only be set at 48°C or below. If hot water temperature is set at 48°C or above, hot water temperature can only be decreased.



#### **Use of Appliance**

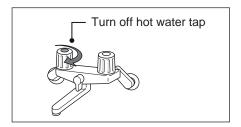
#### (4) Setting Eco mode

- Press Eco button to activate Eco mode and green indicator lights up.
- Appliance limits the maximum water flow rate to 9L/min under Eco mode.
- Set temperature wil not be affected during the activation of Eco mode.
- Press again the Eco button to deactivate the mode and its indicator goes out.



#### (5) Stopping use of hot water

- Appliance stops operation immediately and hot water flow stops when the hot water tap is turned off.
   Operation indicator will goes out.
- To use hot water again, repeat step (1) to (4).
- Press the ON/OFF button on front panel control or remote control (If applicable) with priority to turn off the appliance. Temperature display and all indicators go out.



#### Change of Priority (For installation of multiple remote controls)

- When one or more (maximum two) remote controls are installed, only the front panel control or remote control with priority can adjust the hot water temperature in order to avoid accidents, such as scalding.
- When the front panel control or bathroom remote control has the priority, its indicator lights up while the others will flash.
- When the kitchen remote control has the priority, its indicator lights up while the others will go out.
- Use the front panel control or bathroom remote control to change the priority to kitchen remote control.
- Priority cannot be changed when the priority indicator is flashing or the appliance is in operation.

Press priority

button of

front panel

control to

obtain the

Press priority

button of

bathroom

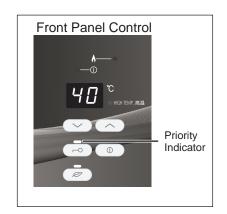
control to

obtain the

remote

priority.

priority.







(Priority indicator (Priority indicator lights up)

Bathroom Remote Control\*



is flashing)

Kitchen Remote Control\*



(Priority indicator is flashing)

Front Panel Control



(Priority indicator goes out)

Bathroom Remote Control\*



(Priority indicator goes out)

Kitchen Remote Control\*



(Priority indicator lights up)

panel control again to change the priority to kitchen remote control.

Press priority

button of front

Front Panel Control



Bathroom Remote Control\*



(Priority indicator (Priority indicator

Kitchen Remote Control\*



(Priority indicator

Front Panel Control



(Priority indicator (Priority indicator

Bathroom Remote Control\*



goes out)

Kitchen Remote Control\*



(Priority indicator lights up)

Press priority button of bathroom remote control again to change the priority to kitchen remote control.

- \* Bathroom remote control is RC-80BE. Kitchen remote control is RC-80K.
- Each remote control can memorize the previous water temperature setting (maximum 48°C) with priority. When the priority is obtained, the previous water temperature setting will be displayed.
- If hot water temperature is set at 50°C or above, water temperature setting will be changed to 48°C when the priority is released and obtained again.
- When the appliance is in standby mode for more than 10 minutes, priority will be released. All priority indicators will go out thereafter. When appliance is used again, the appliance will provide hot water at the temperature set by the latest front panel control or remote control with priority.
- If hot water temperature is set at 50°C or above, and the appliance is in standby mode for more than 10 minutes, priority will be released, then water temperature setting will be changed to 48°C.

#### **Safety Device**

- Flame failure safety device: Using the flame rod sensor to monitor whether the combustion status is normal. When the flame fails, signal will be sent to the main controller, the device will activates and stop the operation of appliance.
- Remaining flame protection device: If the flame still remains with the hot water temperature inside the heat exchanger has reached the design temperature after the hot water tap has been turned off, the device will activate and stop the operation of appliance.
- Over boiling protection device: If the hot water temperature is higher than the design temperature, the device will activate and stop the operation of appliance.
- Over heat protection device: If the heat exchanger burns out or the temperature reaches the design temperature, the device will activate and stop the operation of appliance.
- Over pressure protection device: If the water pressure inside the appliance is over the design pressure value, the pressure relief valve located near the hot water outlet will be opened to release pressure. After reducing to the design pressure value, it will then be closed.
- Water flow sensing device: If the cold water flow becomes restricted or stopped, the device will activate and stop the operation of appliance.
- Combustion fan revolution checking device: Using the revolution sensor to monitor whether the revolution of fan is normal. When the revolution of fan deviates from the required speed, signal will be sent to the main controller to adjust the revolution.

#### **Reminder of Adjusting Hot Water Temperature**

- To suit bathing purpose of different seasons, you may adjust hot water temperature through front panel control or remote control (if applicable).
- In winter, there may be occasional extremely cold weather where supply water temperature is exceptionally low or required water flow is too high. Hot water temperature of appliance may be relatively lower. You may appropriately reduce the hot water flow by adjusting water faucet or shower tap to attain the suitable water temperature.
- In summer, there may be occasional extremely hot weather where supply water temperature is exceptionally high or required water flow is too low, hot water temperature of appliance may be relatively higher. You may appropriately increase the hot water flow or mixing with cold water by turning off the Eco mode, adjusting faucet or shower tap to attain the suitable hot water temperature.

#### **Maintenance**

- (1) Never use solvents to clean the body of appliance. Please wipe the surface with a soft damp cloth, then dry with a soft cloth.
- (2) Avoid spraying water onto the body of appliance.
- (3) If the water flow at shower head is reduced, the holes of shower head may be blocked. It should be checked and cleaned.
- (4) It is necessary for the appliance to be inspected and maintained regularly so that it can be used safely and efficiently.

#### **Troubleshooting**

Safety devices will keep monitoring the operation status of appliance. If a fault occurs, a fault code will be displayed on the temperature display. Please quote the code displayed when contacting customer service.

Fault Code	Details of Failure	Remedy
01	60 min. continuous combustion	Close the hot water tap, turn off the ON/OFF Button and turn on operation again.
10	Remaining flame detection	Contact Towngas Customer Service Hotline
11	Ignition failure	Turn off the ON/OFF Button, then check whether the gas valve is opened and the gas supply is not interrupted. If gas supply is normal, press ON/OFF button to switch on water heater. If there is no error display when the hot water tap is opened or closed several times the unit is operating normally. If the error message still persists, contact Towngas Customer Service Hotline.
12	Flame rod activates	Contact Towngas Customer Service Hotline
14	Overheat protection device activates	Contact Towngas Customer Service Hotline
16	Over boiling thermistor activates	Contact Towngas Customer Service Hotline
20	Remaining flame protection device activates	Contact Towngas Customer Service Hotline
31	Disconnection or short circuit of the inlet water thermistor	Contact Towngas Customer Service Hotline
32	Disconnection or short circuit of the hot water thermistor	Contact Towngas Customer Service Hotline
61	Trouble with the revolution of the combustion fan	Contact Towngas Customer Service Hotline
71	Trouble with an operation control	Contact Towngas Customer Service Hotline
72	Trouble with an operation control	Contact Towngas Customer Service Hotline
73	Trouble with an operation control	Contact Towngas Customer Service Hotline
760	Trouble with an operation control	Contact Towngas Customer Service Hotline
90	Trouble with the combustion	Contact Towngas Customer Service Hotline

In general cases, fault may be eliminated by turning off and then turning on the hot water tap again. If the fault cannot be eliminated, try to turn off the power supply and wait for 10 seconds before turning on the appliance again. If the fault still persists, please contact Towngas Customer Service Hotline on 2880 6988.

In cold and humid weather, cloudy mist may occasionally emerge from the flue terminal. The white mist is the condensate of water vapour in flue gases. This is a normal phenomenon.

#### **Troubleshooting**

#### Issues of hot water supply and temperature

# No hot water supplied

- Check if the gas supply is normal and without suspension.
- Check if the water is running out from water tap normally.
- Check if the cold water filter is being blocked.
- Check if the power supply is normal.
- Fully turn on the gas meter valve and/or gas supply valve of appliance.
- Fully turn on the cold water valve and/or hot water tap.
- After turning on the power supply of appliance, press the ON/OFF button on front panel control or remote control (if applicable).

# No hot water supplied immediately

- After turning on the power supply, press the ON/OFF button on front panel control or remote control (if applicable).
- There is a distance between the appliance and the hot water tap, therefore, hot water cannot be supplied immediately.

# Hot water flow is fluctuated

- When the appliance is supplying hot water to a water tap with another water tap using hot water at the same time, the hot water flow will be reduced. Depending on the conditions of water supply pressure and pipework, hot water flow may be reduced suddenly or with a discontinued water flow situation. After the conditions of water supply pressure and pipework are stabilized, hot water flow will be stable.
- Due to the differences in product features of water tap, variation of hot water flow may be special feature of particular product. For example: hot water flow will be higher at the beginning and water flow will be stabilized afterward.

# Hot water temperature is too high

- Fully turn on the cold water valve and/or hot water tap.
- Check if the set hot water temperature is appropriate.
- In summer, there may be occasional extremely hot weather where supply water temperature is exceptionally high or required water flow is too low, hot water temperature of appliance may be relatively higher. You may turn off the Eco mode, adjust water faucet or shower tap to mix with cold water for attaining suitable water temperature.

# Hot water temperature is too low

- Fully turn on the gas meter valve and/or gas supply valve of appliance.
- Check if the set hot water temperature is appropriate.
- In winter, there may be occasional extremely cold weather where supply water temperature is exceptionally low or required water flow is too high, hot water temperature of appliance may be relatively lower. You may appropriately reduce the hot water flow by adjusting water faucet or shower tap to attain the suitable water temperature.

#### **Troubleshooting**

#### Issues of hot water supply and temperature

# Hot water temperature is unstable

- Fully turn on the main water supply valve to ensure sufficient water pressure.
- Increase hot water flow of mixing-type faucet to avoid the hot water flow lower than the minimum hot water flow that burner will be turned off.

# Unable to adjust hot water temperature setting

- Confirm the using front panel control or remote control (if applicable) has the priority and check if the priority indicator lights up.
- When appliance is in operation, hot water temperature can only be set to 48°C or below. If hot water temperature is set at 48°C or above, hot water temperature can only be decreased.

#### Issues of front panel control, remote control (if applicable) and appliance operation

# ON/OFF indicator does not light up

- Check if the power supply is normal.
- After turning on the power supply of appliance, press the ON/OFF button on front panel control or remote control (if applicable).

#### Hot water temperature setting changes automatically

- If hot water temperature is set at 50°C or above, water temperature setting will be changed to 48°C when the priority is released and obtained again (if applicable).
- If hot water temperature is set at 50°C or above, and the appliance is in standby mode for more than 10 minutes, priority will be released, then water temperature setting will be changed to 48°C.

# Fan keeps operating without use of hot water

 After the burner is closed, combustion fan will keep operating for a short period of time. This is a normal phenomenon.

# Flame failure during usage

- Fully turn on the gas meter valve and/or gas supply valve of appliance.
- Check if the gas supply is normal and without suspension.
- Fully turn on the cold water valve and/or hot water tap.
- Check if the water is running out from water tap normally.

# Cloudy mist emerges from flue terminal

 In cold and humid weather, white mist is the condensate of water vapour in flue gases. This is a normal phenomenon.

# Hot water turns milky with a cloudy status

 Dissolved air in water is released as bubbles when heated. This is normal phenomenon.

#### Water is discharged momentarily from the outlet of pressure relief valve

 If the water pressure inside the appliance is over the design pressure value, the pressure relief valve located near the hot water outlet will be opened to release pressure. After reducing to the design pressure value, it will then be closed.

## **Specifications**

Model			NSW13TM	NSW16TM	NSW13RM	NSW16RM
	Appliance Type		Fan Draught Room-sealed Type			
	Installation Type		Wall-mount Type			
	Flue Type		Тор	Top Flue Back Flue		Flue
	Dimensions - W x H x D	(mm)		370 x 67	75 x 128	
	Weight (kg)			1	5	
	Gas Type			Hong Kong	Town Gas	
	Gas Supply Pressure (kl	Pa)		1	.5	
	Gas Connection			3/4"	BSP	
	Water Pipework	Cold Water		1/2"	BSP	
	Connections	Hot Water		1/2"	BSP	
	Power Supply &	Power Supply		A.C. 220	OV 50Hz	
Basic	Signal Connections	Signal Cable		DC ·	12 V	
Specifications		Flue Terminal		Circula	ar Type	
	Exhaust Connections (mm)	Flue Diameter		ection: Ø100 / Connection: Ø60	Air Inlet Conne Exhaust outlet C	
	Flue Length		Maximum 5m & 3 bend (1 bend equivalent to 2m)		/	,
	Ignition Type			Automatic S	park Ignition	
	Rated Heat Input (kW)	Maximum	28.4	34.9	28.4	34.9
		Minimum		5.	81	
	Electrical Consumption (	(W)	54	56	43	51
	Lavalat Matanana	Body		IP	X4	
	Level of Water-proof	Remote Control	IPX5			
	Amount of Hot Water Supply with 25°C Temperature Rise (L/min)		2.5 to 13.0	2.5 to 16.0	2.5 to 13.0	2.5 to 16.0
	Amount of Hot Water Supply Range (L/min)		2.5 to 16.0	2.5 to 20.0	2.5 to 16.0	2.5 to 20.0
Operation	Minimum Hot Water Flow (L/min)			2	.5	
System	Minimum Operation Water Pressure (kPa)			1	0	
	Range of Normal Operation	on Water Pressure (kPa)		70 to	700	
	Range of Hot Water Ten	nperature (°C)		35, 37 to 4	8, 50 & 60	
	Flame Failure Safety Device		Flame Rod			
	Remaining Flame Protection Device		Bi-metal Switch (90°C)			
	Over Boiling Protection I	Device	Thermistor (89°C)			
Safety	Overheat Protection Dev	vice	Thermal Fuse (184°C)			
Devices	Over Pressure Protectio	n Device	Pressure Relief Valve (ON: 1648kPa)			
	Water Flow Sensing Device		Water Flow Sensor			
	Combustion Fan Revolution Checking Device		Speed Detection Sensor			
	Over Electrical Current Protection Device		Fuse (5A)			
	Earth Leakage Safety Device		Earth Leakage Safety Device			
Function	Eco Mode		Yes			
i unction	Smart Function		Yes (R	equired to purcha	se External Contro	ol Unit)
Accessories	Remote Control (Wired)  ※Optional to purchase		Remote control RC-80BE / RC-80K			K

The appliances comply with the Electrical Products (Safety) Regulation in Hong Kong.



香港中華煤氣有限公司 The Hong Kong and China Gas Company Limited