

HOT WATER BOILER

UP-BURN TYPE / DOWN-BURN TYPE

熱水鍋爐
上燃式/下燃式



前瞻

Advanced

創新

Innovation

人性化

Users Friendly

產品介紹

PRODUCT DESCRIPTION

適用範圍

Application Field

1. 熱水鍋爐為一種常壓容器，其運作方式較為安全。

Hot water boiler is a type of atmospheric pressure vessel. Its mode of operation is fairly safe.

2. 廣泛用於浴室、浴池、暖房、養殖魚塢、工廠製程等洗浴及供暖設備。

It is widely used in bathrooms, baths, greenhouses, fish farms, factory processes, heating equipment and so on.

洗浴 Bath

鍋爐透過熱水循環泵循環溫水箱中的熱水，週而復始把儲水設備的熱水加熱。

The boiler circulates the water in the warm water tank through the hot water circulating pump in cycles to heat up the hot water in the storage tank.

供暖 Heating

鍋爐透過熱水循環泵循環暖氣管道的熱水，藉由放熱器可以達到人們採暖的需求。

The boiler circulates the hot water of the heating pipe through the hot water circulating pump to achieve heating needs through the radiator.



洗浴、供暖等應用領域

Application areas such as bathing and heating



觀光業
Tourism



室內暖房
Indoor Conservatory



養殖漁業
Aquaculture



醫療業
Health Care Industry



紡織業
Textile Industry



飯店業
Hotel



橡膠業
Rubber Industry



塑膠業
Plastics Industry



屠宰業
Butchery



製袋業
Bag Industry



蘭花業/農業
Orchid/
Agriculture



餐飲業/食品加工業
Catering/
Food Processing Industry



科技產業/電子業
Technology Industry/
Electronic Industry



鋼鐵業/電鍍業
Steel Industry/
Electroplating Industry



石化業/生物科技業
Petrochemical Industry/
Biotechnology Industry

1. 特殊罐體設計，燃燒效率高且保溫效果佳；罐體及設備防蝕處理全面。

Special boiler body design with high boiler efficiency and well isolation. The tank body and equipment are fully processed with anti-corrosion treatment.

節省燃料用量
Fuel saving

高燃燒效率降低燃料使用量，進而達到節省效果。
High combustion efficiency reduces fuel consumption, thereby achieving cost savings.

延長設備壽命
Increase the
equipment lifetime

- 表面鍍鋅防蝕處理，徹底防銹，避免水垢生成。
The surface is anti-corrosion galvanized. Fully rust-proof and avoid scale formation.
- 加裝電解鎂棒，電解防蝕性佳，減少管路鏽蝕。
The corrosion-resistant galvanized metal are employed for the construction of the boiler body which is anticorrosion and without boiler scale.

2. 全自動控制、免專人管理，可做24小時記憶定時。

Fully automatic control, supervision free with 24-hour memorable timer.

操作簡便
Easy to
operate

保養容易
Easy
maintenance

3. 提供健全的售後服務，確保鍋爐性能穩定及安全。

Quality services keep performance and safety of the boiler at high standard.

4. 熱水流通量大，水壓穩定，水溫不忽冷忽熱，全天候有熱水。

Hot water output is plentiful, water pressure and temperature are stable at any time.

5. 強制送風，完全燃燒。

For draft fun, combustion completely.



無煙環保，降低環境傷害

Smoke-free and environmentally friendly, reducing environmental damage.

上燃式熱水鍋爐 UP-BURN HOT WATER BOILER



瓦斯 GAS



柴油 DIESEL



重油 HEAVY OIL

下燃式熱水鍋爐 DOWN-BURN HOT WATER BOILER



瓦斯 GAS



柴油 DIESEL



狀態指示燈
Status Indicator

0	運轉停止 Running Stop	0	燃燒停止 Combustion Cease
1	溫度到達 Heating Complete	7	送風 Draft
2	加溫中 Heating	2	點火 Ignition
3	溫度異常 Temperature Abnormal	3	低燃燒 Low Combustion
4	空燒 Idle Combustion	4	高燃燒(雙段火) High Combustion(Two-Stage)
5	低液位 Low Liquid Level	5	疑似火 Suspicious Flame
6	馬達異常 Pump Abnormal	6	不著火 Misfiring
7	爐體溫度斷線 Boiler Body Temperature Disconnected	7	熄火 Flameout
8	控制器異常 Controller Abnormal	8	漏電(燃燒程序異常) Electric Leakage (Combustion Process Abnormal)
9	外部空燒 External Idle Combustion	9	風壓開關未定位 Air Pressure Switch Un-Position
A	外部低液位 External Low Liquid Level	A	風壓異常 Air Pressure Abnormal
		b	瓦斯壓力異常 Gas Pressure Abnormal

指示說明
Instructions

1. 狀態指示燈對照指示說明。

Status indicator and indicator instruction comparison.

狀態指示燈將鍋爐各種狀態簡化成簡單易懂的數字符號，對應指示說明文字，實現直覺操作性，清楚掌握鍋爐狀態。

The status indicator simplifies the complex status of the boiler into simple and easy to understand digital symbols. The instruction clearly corresponds to the status indicator enhance the intuitive operability, control the boiler status at all times.



兩段式開關
Two-Stage Switch

2. 兩段式開關同時具備安全性及簡易性。

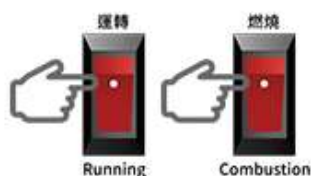
Two-stage switch provides both safety and ease of use.

採用兩段式開關，分別控制運轉及燃燒功能。當燃燒出現異常時可緊急復歸，毋需斷電停工。

Two-stage switch design, which are run switch and combustion switch. In case of abnormal combustion, resetting the machine doesn't require interruption of power.

此面板為瓦斯燃料機種，實際面板以實際機台為主。
This panel is a gas fuel model, and the actual panel is based on the actual machine.

啟動 START



輸入電源開關，數秒後點火燃燒
The boiler ignites and starts combustion in seconds after the power switch is on.

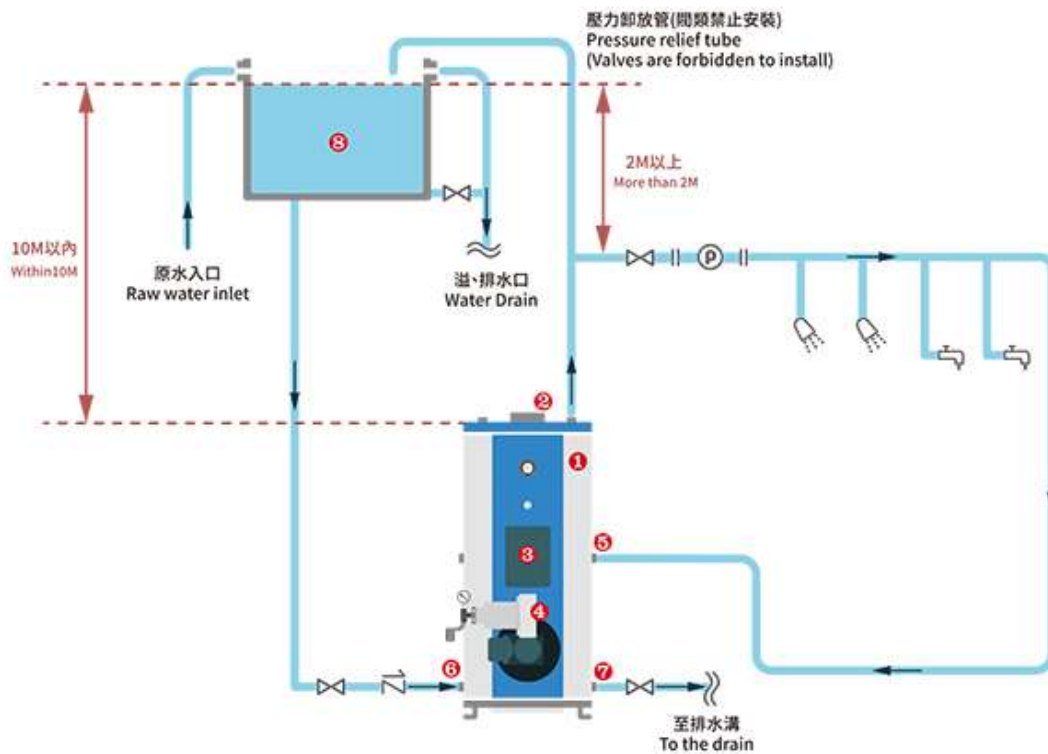
全自動燃燒控制、熱水溫度控制
Automatic combustion control, water temperature control.

燃燒復歸 COMBUSTION RESET

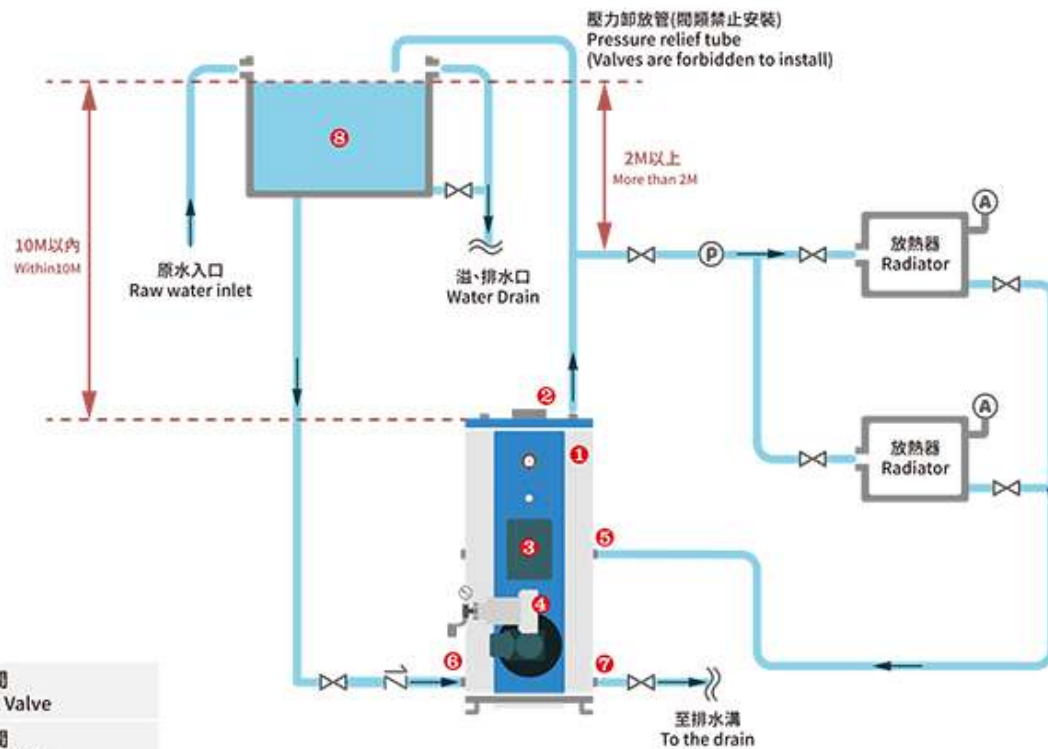


流程圖 PROCESS CHART

有循環給熱水流程 CENTRAL HEATING SYSTEM FLOW DIAGRAM



暖房用管路流程 CYCLE HEATING SYSTEM FLOW DIAGRAM



	截止閥 Break Valve
	逆止閥 Check Valve
	泵浦 Pump
	蓮蓬頭 Shower
	水龍頭 Faucet

01. 鍋爐本體	Boiler Body	05. 回水管	Return Pipe
02. 煙囪	Chimney	06. 供水管	Supply Pipe
03. 控制箱	Control Panel	07. 排水口	Water Outlet
04. 分離式燃燒機	Burner	08. 水塔	Water Tank

項目 Item		瓦斯燃料 Gas Fired					柴油燃料 Diesel Fired						
型號 Model		GW-60	GW-80	GW-140	GW-180	GW-260	KW-60	KW-80	KW-140	KW-180	KW-260		
出力熱量 Heat output	kcal/h	60000	80000	140000	180000	260000	60000	80000	140000	180000	260000		
給水能力(50°C上昇) Water flow rate(50°C vertical lift)	l/h	1200	1600	2800	3600	5200	1200	1600	2800	3600	5200		
罐體構造 Boiler body	型式 Type	立式煙管 Vertical chimney											
	罐水容量 Water content	l	184	241	332	400	492	184	241	332	400	492	
	傳熱面積 Heat surface area	m ²	2.5	3.5	4.6	6.3	8.4	2.5	3.5	4.6	6.3	8.4	
	擾流板 Turbulent plate	-	SUS304交叉式 SUS304 Cross type										
	最高使用壓力 Max working pressure	kg/cm ²	5.0										
	效率 Efficiency	%	92										
燃燒機 Burner	燃燒方式 Combustion method	-	全自動強制送風燃燒 Automatic burner(Force draft fan)										
	型式 Type	-	G10	G20	G30	G40	G50	Z1	Z2	Z3	Z4	Z5	
	燃料消耗量 Fuel consumption	柴油 Diesel	l	-	-	-	-	-	7.8	10.4	18.1	23.3	33.6
		13A	Nm ³ /h	6.6	8.8	15.4	19.8	28.5	-	-	-	-	-
		LPG	KG	5.7	7.6	13.3	17.1	24.7	-	-	-	-	-
	電源 Power source	-	1ø220V										
	點火方式 Ignition system	-	高壓放電點火 High electric spark										
馬達出力 Motor output	KW	0.4	0.4	0.4	0.4	0.75	0.4	0.4	0.4	0.4	0.75		
控制裝置 Control devices	燃燒控制 Combustion control	-	全自動燃燒安全控制 Automatic control					全自動燃燒控制 Automatic ON-OFF control					
	溫度控制 Temperature control	-	熱水溫度控制 Water Temperature control										
	安全裝置 Safety devices	-	火焰離子檢出、燃燒安全控制器、溫度超溫控制器、溫度及壓力安全閥 Flame detection, temperature controller, pressure switch and safety combustion protection										
配管口徑 Connection Diameter	給水管 Feed water pipe	mm	40	40	50	65	65	40	40	50	65	65	
	回水管 Feedback water pipe		40	40	50	65	65	40	40	50	65	65	
	冷水管 Cold water pipe		40	40	50	65	65	40	40	50	65	65	
	排放管 Blowdown pipe		40	40	50	65	65	40	40	50	65	65	
	給油管 Fuel pipe		-	-	-	-	-	8	8	8	8	8	
	燃燒入口 Gas inlet		13A	20	20	25	25	40	-	-	-	-	-
			LPG	15	15	20	20	25	-	-	-	-	-
煙囪外徑 Chimney diameter(outside)	ømm	150	150	200	200	250	150	150	200	200	250		
尺寸 Boiler Dimensions	鍋爐尺寸 Dimensions	長 Length	1048	1068	1205	1383	1492	1048	1068	1205	1311	1492	
		寬 Width	700	700	800	900	1000	700	700	800	900	1000	
		高 Height	1418	1718	1718	1718	1718	1418	1718	1718	1718	1718	
製品重量 Net weight	kg	306	352	417	568	670	306	350	415	566	658		
運轉重量 Running weight		490	593	749	968	1162	490	591	747	966	1150		



1. 燃料消耗量是燃料的低位發熱量計算出: 柴油 8400kcal/l ; 13A=9900kcal/Nm³,LPG=11460kcal/kg*
2. 燃燒瓦斯入口壓力值: 13A:200mmAq,LPG:280mmAq
3. 產品因需要改良可作部分修改,不另行通知。

1. Fuel consumption is calculated at low heat level : Diesel 8400 kcal/l ; 13A=9900kcal/Nm³,LPG=11460kcal/kg.
2. Combustion gas inlet pressure value : 13A:200mmAq,LPG:280mmAq.
3. Products may be changed for improvement without notice.

上燃式熱水鍋爐 UP-BURN HOT WATER BOILER

鍋爐型號 Boiler Model	HW	/	/	180S	260S	400S	600S	800SE	1000SE	1250SE	1500SE	2000SE			
	KW	80S	140S	180S	260S	400S	600S	800SE	1000SE	1250SE	1500SE	2000SE			
	GW	80S	140S	180S	260S	400S	600S	800SE	1000SE	1250SE	1500SE	2000SE			
發生熱量 Heat Output	kcal/h	80000	140000	180000	260000	400000	600000	800000	1000000	1250000	1500000	2000000			
給水能力 (50°C 上昇) Water Flow Rate (50°C Vertical Lift)	l/h	1600	2800	3600	5200	8000	12000	16000	20000	25000	30000	40000			
鍋爐效率 Boiler Efficiency	%	90													
罐體構造 Boiler Body	類型 Type	/	上燃水管式 Water Tube Type												
	保有水量 Water Content	L	58	78	110	220	275	320	320	386	405	445	520		
	傳熱面積 Heat Surface Area	m ²	2.8	3.7	5.4/5.1	7.8	8.9	10.5	10.5	13.4	15.4	16.4	18.8		
	最高壓力 Max. Pressure	kg/cm ²	10												
	鍋爐型態 Boiler Type	/	小型鍋爐 Small Type Boiler												
燃燒機 Burner	燃燒方式 Combustion Type	/	ON-OFF					TWO-STAGE							
	機型 Model	/	分離式(強制送風) Separate Type (Force Draft Fan)												
	燃料消耗量 Fuel Consumption	柴油 Diesel	l/h	10.6	18.5	23.8	34.4	52.9	79.4	105.8	132.3	165.3	198.4	264.6	
		重油 Heavy Oil	l/h	/	/	21.6	31.2	48.0	72.0	96.0	120.0	150.0	180.0	240.0	
		LPG	13A	Nm ³ /h	9.0	15.7	20.2	29.2	44.9	67.3	89.8	112.2	140.3	168.4	224.5
			PROPANE	kg/h	7.8	13.6	17.5	25.2	38.8	58.2	77.6	97.0	121.2	145.4	193.9
		BUTANE	kg/h	8.2	14.3	18.3	26.5	40.8	61.2	81.5	101.9	127.4	152.9	203.9	
	點火方式 Ignite Type	/	高電壓放電點火 High Electric Spark												
	設備電力 Power Of Equipments	H	kw	/	/	4.8	5.55	8.3	9	14.3	16.3	22	26	28.5	
		K	kw	0.6	0.6	0.8	1.55	2.3	3	6.3	8.3	12	16	16.5	
G		kw	0.6	0.6	0.8	1.15	1.9	2.6	5.9	7.9	11.6	15.4	16.5		
控制 Control	燃燒控制 Combustion Control	/	全自動點火・燃燒(不著火自動停機) Full Automatic Ignition, Combustion (Misfiring Will Automatic Running Stop)												
	溫度控制 Temperature Control	/	數位顯示電子式溫度控制器(上下限可調) Electronic Digital Display Temperature Controller (Upper Limit / Lower Limit Selectable)												
	安全裝置 Safety Devices	/	不著火爐斷停機・超溫爐斷停機・溫度及壓力洩放閥・馬達異常爐斷停機 Misfiring, Excess Fuel temperature, Pressure Switch And Safety Combustion Protection, Pump Is Abnormal.												
配管口徑 Pipe Diameters	給水管徑 Feed Water Pipe	mm	40	40	50	65	65	80	100	100	125	125	150		
	回水管徑 Feedback Water Pipe	mm	40	40	50	65	65	80	100	100	125	125	150		
	排放管徑 Blowdown Pipe	mm	25	25	25	25	25	25	25	25	25	25	25		
	煙囪外徑 Chimney Diameter	Ø mm	150	150	200/150	250	290	330	360	360	400	400	480		
	燃料入口 Fuel Inlet	柴油 Diesel	mm	8	8	8	15	15	25	25	25	25	25	25	
		重油 Heavy Oil	mm	/	/	15	15	25	25	25	25	25	25	25	
13A		mm	20	25	25	40	40	40	50	50	50	50	50		
LPG		mm	15	15	20	25	25	40	40	40	50	50	50		
尺寸 Size	鍋爐尺寸 Boiler Dimensions	長 Length	mm	975	1110	1214	1475	1640	1700	1941	2140	2156	2190	2200	
		寬 Width	mm	658	786	900	953	1122	1300	1433	1600	1600	1800	1800	
		高 Height	mm	1550	1649	1804	2200	2014	2286	2046	2350	2419	2419	2419	



1. 供應電源為 三相 / 220v / 60Hz 標準品，電源異動請另行通知。
2. 燃料種類HW：重油，KW：柴油，GW：瓦斯。
3. 重油燃料低位發熱量：9260 kcal/l，柴油燃料低位發熱量：8400 kcal/l，瓦斯燃料低位發熱量：13A=9900 kcal/ Nm³；LPG PROPANE =11460 kcal/kg；LPG BUTANE =10900 kcal/kg。
4. 瓦斯供給壓力 13A：200 mmAq；LPG：280 mmAq。(發熱量 400000 kcal以下)。
5. 發熱量 600000 -2000000 kcal/h 機種中壓供氧 0.8-3.5 kg/cm²，鍋爐瓦斯入口前加裝減壓系統減至 400-700 mmAq (600000 - 1000000 kcal/h)；700-1400 mmAq (1250000 -2000000 kcal/h)。
6. 產品因改良需要，可做部份修改，不另行通知。
7. HW-180S 傳熱面積為5.4m²，煙囪尺寸 Ø200，KW-180S、GW-180S 傳熱面積為5.1m²，煙囪尺寸 Ø150。
8. 鍋爐效率之誤差容許值為±1%、鍋爐尺寸之誤差容許值為±1%。

1. Standard power is 3-Phase / 220v / 60Hz. Notice of change, if any, is required.
2. Fuel type HW = Heavy oil · KW = Diesel · GW = Gas.
3. Fuel consumption is calculated at low heat value : 13A=9900 kcal/ Nm³, LPG PROPANE =11460 kcal/kg, LPG BUTANE =10900 kcal/kg, Heavy oil = 9260 kcal/l, Diesel = 8400 kcal/l.
4. Gas supply pressure 13A : 200 mmAq, LPG : 280 mmAq. (Under heat output 400000 kcal/h).
5. Heat output 600000 -2000000 kcal/h supply pressure 0.8~3.5 kgf/cm². Installation of pressure reducing device , gas entrance to the boiler to reduce 400-700 mmAq (600000 - 1000000 kcal/h) · 700-1400 mmAq (1250000 -2000000 kcal/h).
6. Partial modification for improvement is allowed without notice.
7. HW-180S Heating surface is 5.4m², Chimney diameter Ø 200, KW-180S, GW-180S Heating surface is 5.1m², Chimney diameter Ø 150.
8. Boiler efficiency tolerance value ±1%. Boiler dimension tolerance value ±1%.



服務團隊 SERVICE TEAM

本公司是專業的鍋爐製造廠，如有任何需求歡迎與我們聯絡。
ZU HOW Industry is a professional boiler manufacturer.
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- ISO 9001(2015)國際品質認證
ISO 9001(2015) International Quality Certified
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Qualified Certificate by Republic of China
- 美國機械工程師學會ASME「S」及「U」認證標
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