

服務團隊 SERVICE TEAM

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ZU HOW INDUSTRY IS A PROFESSIONAL BOILER MANUFACTURE.
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前瞻、創新、人性化
ADVANCED INNOVATION USERS FRIENDLY

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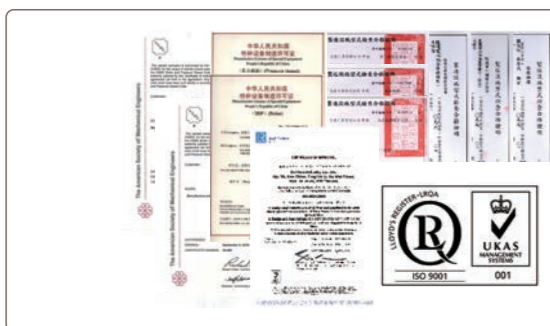
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- ISO 9001(2008)國際品質認證
ISO 9001(2008) International Quality Certified
- 中華民國鍋爐及壓力容器製造設施檢查合格認證
Boiler and Pressure Vessel Manufacturing Facility
Qualified Certificate by Republic of China
- 中國特種設備鍋爐及壓力容器製造許可證
Manufacture License of Special Equipment
People's Republic of China (Boiler/Pressure Vessel)
- 美國機械工程師學會 ASME 「S」及「U」認證標
Awarded American Society of Mechanical Engineers (ASME)
"S" Stamp and "U" Stamp

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貫流式
蒸汽鍋爐
STEAM BOILER
ONCE-THROUGH TYPE



重油 Heavy Oil

 志豪工業有限公司
ZU HOW INDUSTRY Co., LTD.

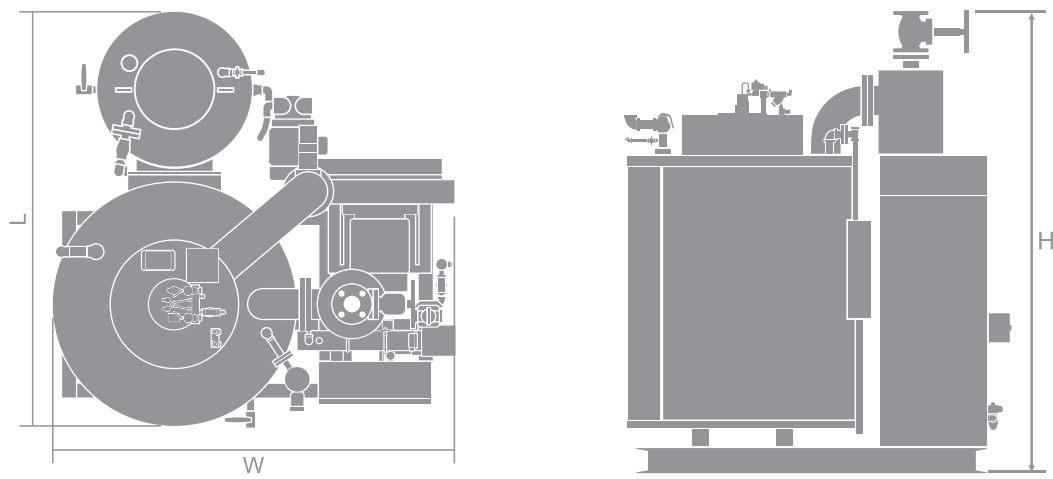
產品特點 PRODUCT FEATURE

- | | |
|--|--|
|  <p>4~5分鐘發生蒸汽
點火後4~5分鐘後即可獲得足壓之蒸汽。
PROMPT STEAM AFTER 4-5 MINUTES OF LIGHTING
WITH SUFFICIENT STEAM OBTAINED AFTER 4-5 MINUTES OF LIGHTING, IMMEDIATE WORK IS AVAILABLE.</p> |  <p>效率達 85%~93%
爐體構造吸熱效果佳，燃燒效率達 85%~93%
EFFICIENCY 85% - 93%
BOILER STRUCTURE OF EXCELLENT HEAT-ABSORPTION EFFECT PROVIDES SATISFIED COMBUSTION EFFICIENCY 85% - 93%.</p> |
|  <p>穩定的蒸氣品質
鍋爐自動偵測爐水濃縮電導度排放爐水，提高蒸氣品質，延長鍋爐使用壽命。
STABLE STEAM QUALITY
BOILER AUTOMATICALLY DETECT BOILER WATER'S CONCENTRATED ELECTRICAL CONDUCTIVITY AND DISCHARGE THE BOILER WATER. STEAM QUALITY AND BOILER USE-LIFE ARE CONTROLLED AND IMPROVED.</p> |  <p>運轉安靜
送風機及燃燒機聲音皆較舊式同型產品低 5~6 db，即使在鍋爐邊作業亦不受影響。
SILENT
THE SOUND OF EXHAUST FAN AND COMBUSTION IS 5-6DB LOWER THAN THE OLD TYPE. SILENT SOUND OF OPERATION OFFERING COMFORTABLE SURROUNDINGS.</p> |
|  <p>傳熱性佳
燃燒氣體高速流動水管群間，熱對流佳，熱吸引快，傳熱效果佳。
GOOD HEAT TRANSFER
COMBUSTION GAS FLOW THROUGH THE FIN OF THE TUBE. THE HEAT TRANSMIT IS QUICK AND RESULT IS WELL.</p> |  <p>安全裝置及控制
燃燒、蒸汽壓力及水位均全自動控制，運轉既安全又經濟。
SAFETY EQUIPMENT & CONTROLLING
FULL AUTO-CONTROLLED COMBUSTION, STEAM PRESSURE AND WATER LEVEL PROVIDE SAFE & ECONOMIC OPERATION.</p> |
|  <p>免執照、免檢查
符合「工礦安全檢查所」所定之壓力容器檢查規則的免檢規定。
LICENCE-FREE & INSPECTION-FREE
IN COMPLIANCE WITH PRESSURE VESSEL INSPECTION-FREE RULES SPECIFIED BY "INDUSTRIAL/MINING SECURITY INSPECTING ADMINISTRATION" OF R.O.C.</p> |  <p>高技術·高品質
全自動 CO₂ 焊接，一貫化的生產部品規格統一，品質有保障。
HIGH TECHNOLOGY, HIGH QUALITY
THE FULL-AUTOMATIC CO₂ WELDS, PRODUCTION OF THE CONSISTENCY AND THE PARTS SPECIFICATION UNIFY, RESULTING IN HIGH QUALITY PRODUCTS.</p> |

MEMO



給水預熱器 FEED WATER PREHEATER

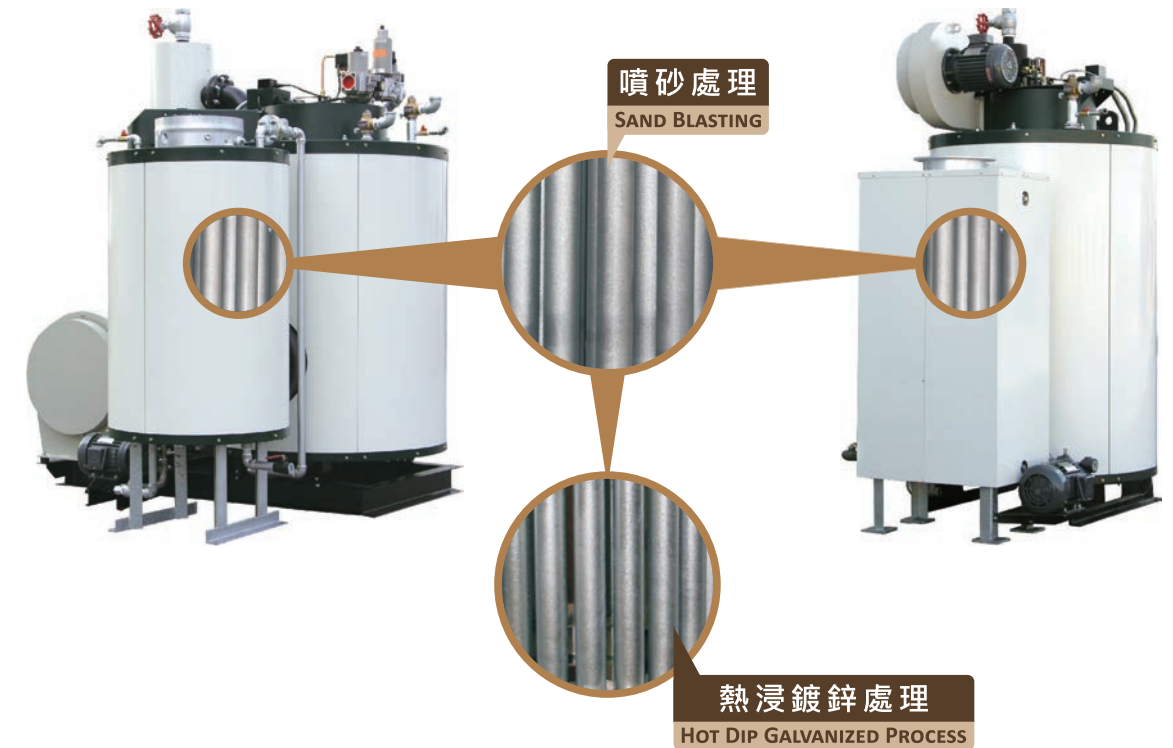


形式 Model	長 L (mm)	寬 W (mm)	高 H (mm)
ZH-300H	1360	915	1760
ZH-300HE	1558	915	1760
ZH-400H	1360	915	1860
ZH-400HE	1558	915	1860
ZH-500H	1532	1098	2115
ZH-500HE	1697	1098	2115
ZH-600H	1532	1098	2215
ZH-600HE	1697	1098	2215
ZH-750H	1630	1118	2190
ZH-750HE	1774	1152	2190
ZH-1000HE	1597	1479	2310
ZH-1000HF	1730	1479	2310
ZH-1500HE	1972	1924	2305
ZH-1500HF	1972	1924	2305
ZH-2000HE	1958	1908	2360
ZH-2000HF	1958	1908	2360

※ 以上尺寸僅供參考，請依實際尺寸為準。
Above Dimensions are for Reference Only, Please Refer to the Actual Product Size.

O 型給水預熱器 O TYPE FEED WATER PREHEATER

E 型給水預熱器 E TYPE FEED WATER PREHEATER



O 型及 E 型給水預熱器爐管使用無縫鋼管經噴砂、熱浸鍍鋅處理降低低溫腐蝕發生，延長使用壽命

O type and E type feed water preheater uses seamless steel tube of the boiler tube which has been processed by sand blasting and hot dip galvanized. These processes can reduce the low-temperature corrosion and extend the durability.



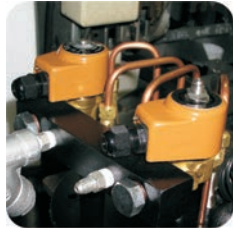
不同燃料搭配不同型式的給水預熱器，讓你鍋爐運轉更順暢，給你更好的鍋爐燒效率及效能效率的感受

Different fuels collocated with different types of feed water preheater; makes your boiler runs more smoothly and provide higher boiler efficiency.

多樣化、獨特性的安全控制功能保護措施，提升鍋爐使用的安全性及壽命。

**THE DIVERSITY AND UNIQUE SAFETY CONTROL AND PROTECTION FUNCTIONS
ENHANCE THE BOILER SAFETY AND EXTENT THE DURABILITY**

重油電磁閥 HEAVY OIL SOLENOID VALVE



採用瑞士製Lucifer，重油專用電磁閥作動正確，確保運轉之安全。
Use Switzerland made Lucifer. Safety is guaranteed when the heavy oil solenoid valve is operating correctly.

爐體溫度偵測器 BOILER BODY TEMPERATURE SENSOR



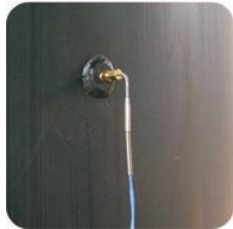
可偵測蒸汽的溫度，當溫度超出設定值時自動斷電停機，確保鍋爐運轉安全。
The sensor helps to check the steam temperature. When the temperature exceeds the set value, the boiler would self deenergizing to ensure boilers operate safely.

全量式安全閥 FULL BORE SAFETY VALVE



構造精密、穩定性高、吹洩量大，超壓時開啟及壓力下降時關閉，準確性高，絕無洩漏情形。
Precise construction; high stability; great discharge capacity; automatically switches on under excessive pressure and closes up when pressure drops down; excellent accuracy and no leakage occurrence.

水管溫度偵測 WATER TUBE TEMPERATURE SENSOR



可偵測水管溫度，以檢測鍋爐是否有產生水垢。若偵測到溫度上升至設定溫度時，則鍋爐會自動停止運轉。
To detect the temperature of water tubes in order to examine whether water has scaled in boiler. If the temperature reached the set value, the boiler will stop its operation.

送風馬達 DRAFT FAN



馬達特殊設計大幅縮短了馬達外觀的長度，使其運轉時更穩定、壽命更長、噪音更低。
The design in draft fan has decreased its length effectually; hence when the draft fan operates both stability and effective duration will increase, but noise will decrease.

ZH-600H	ZH-600HE	ZH-750H	ZH-750HE	ZH-1000HE	ZH-1000HF	ZH-1500HE	ZH-1500HF	ZH-2000HE	ZH-2000HF
600		750		1000		1500		2000	
323000		404300		539000		808000		1080000	
8.6		8.9		9.9		9.9		9.9	
10		10		10		10		10	
137		134		176		176		163	
85	92	85	92	90	93	90	93	90	93
N	Y	N	Y	Y		Y		Y	
ON-OFF		TWO-STAGE		TWO-STAGE		TWO-STAGE		TWO-STAGE	
B42.6	B39.4	B53.4	B49.3	B67.2	B65.0	B100.8	B97.5	B134.7	B130.3
C41.0	C37.9	C51.4	C47.5	C64.7	C62.6	C97.0	C93.8	C129.6	C125.4
7.6		9.6		10.3		16.3		19.8	
1.5		1.5		1.5		2.2		3.7	
1.5		1.5		2.2		5.5		7.5	
0.4		0.4		0.4		0.4		0.4	
0.2		0.2		0.2		0.2		0.2	
4.0		6.0		6.0		8.0		8.0	
1060	1210	1170	1352	1460	1890	1856	2278	2050	2392
15		25		25		25		25	
25		25		25		25		40	
32		40		50		50		65	
25		25		25		25		25	
25		25		32		25&25		25&32	
/		/		10		10		10	
250		290		330		360		360	
8		8		14		22		22	
1532	1697	1630	1774	1597	1730	1972	1972	1958	1958
1098	1098	1118	1152	1479	1479	1924	1924	1908	1908
2215	2215	2190	2190	2310	2310	2305	2305	2360	2360



- 1. ZH- xxxx H indicates Heavy Oil boiler.
- 2. Standard power is 3HP / 220V / 60HZ. Notice of change , if any , is required.
- 3. Fuel consumption is calculated at low heat value: B heavy oil = 8910 kcal / I , C heavy oil = 9260 kcal / I .
- 4. Partial modification for improvement is allowed without notice.
- 5. Boiler efficiency tolerance value ±1%.

鍋爐效率性能 & 標準規格 BOILER PERFORMANCE & STANDARD SPECIFICATIONS

項目ITEM		型式MODEL	ZH-300H	ZH-300HE	ZH-400H	ZH-400HE	ZH-500H	ZH-500HE	
性能 PERFORMANCE	換算蒸發量 EQUIVALENT OUTPUT	Kg/h	300		400		500		
	發生熱量 HEAT OUTPUT	Kcal/h	162000		216000		269000		
	傳熱面積 HEATING SURFACE AREA	m ²	5.4		6.0		7.8		
	最高壓力 MAX.PRESSURE	Kgf/cm ²	10		10		10		
	保有水量 WATER CONTENT	L	88		98		125		
	鍋爐效率 BOILER EFFICIENCY	%	85	92	85	92	85	92	
	給水預熱器 WATER PREHEATER	/	N	Y	N	Y	N	Y	
	燃燒方式 COMBUSTION TYPE	/	ON-OFF		ON-OFF		ON-OFF		
	燃料消耗量 FUEL CONSUMPTION	l/h	B21.4	B19.8	B28.5	B26.4	B35.5	B32.8	
			C20.6	C19.0	C27.4	C25.4	C34.2	C31.6	
本體設備電力 ELECTRICAL POWERCAPACITY	kw	5.75		6.1		6.85			
輔機電力 POWER OF AUXILIARY EQUIPMENTS	給水泵馬達 WATER PUMP MOTOR	kw	0.75		0.75		1.5		
	送風機馬達 EXHAUSTING FAN MOTOR		0.4		0.75		0.75		
	噴燃泵馬達 INJECTION PUMP MOTOR		0.4		0.4		0.4		
	控制盤 CONTROL PANEL		0.2		0.2		0.2		
	電器加熱器 ELECTIC-HEATER		4.0		4.0		4.0		
製品重量 PRODUCT WEIGHT	kg	720	820	750	850	1020	1170		
接管口徑 PIPE DIAMETERS	燃料入口管徑 FUEL INLET DIA	mm	15		15		15		
	給水入口管徑 FEED WATER INLET DIA		20		20		25		
	蒸汽出口管徑 STEAM OUTLET DIA		25		25		32		
	爐水排放管徑 BOILING-WATER DRAIN DIA		25		25		25		
	安全閥管徑 SAFETY VALVE DIA		20		20		25		
	自動排放管徑 AUTO BLOWDOWN DIA		/		/		/		
	煙囪外徑 CHIMNEY DIA		φmm	200		200		250	
	引入電源線徑 POWER WIRE INLET DIA		mm ²	5.5		5.5		5.5	
尺寸 SIZE	鍋爐尺寸 BOILER DIMENSIONS	長 LENGTH	1360	1558	1360	1558	1532	1697	
		寬 WIDTH	915	915	915	915	1098	1098	
		高 HEIGHT	1760	1760	1860	1860	2115	2115	



1. ZH-xxxx H 代表重油鍋爐。
2. 供應電源為 三相 / 220V / 60HZ 標準品，電源異動請另行通知。
3. 燃料低位發熱量：B重油 為 8910 kcal / l，C重油 為 9260 kcal / l。
4. 產品因改良需要，亦可做部份修改，不另行通知。
5. 鍋爐效率之誤差容許值為 ±1%。

自動排放裝置 Automatic Discharge Device



可偵測爐水濃縮電導度；當電導度達到排放標準時，鍋爐會自動將爐水排出。可穩定控制爐水的品質提高蒸汽品質，避免爐體苛性脆化、水垢產生降低鍋爐效率及水管損壞。
Use to detect boiler water concentrated electrical conductivity. The boiler water will self-discharge when the electrical conductivity reach the discharge standard. This device helps to control boiler water's quality, improve steam quality and avoid furnace caustic embrittlement. It also prevents water scale reduce the boiler effectiveness and damage the water tube.

水位控制裝置 WATER LEVEL CONTROLLING DEVICE

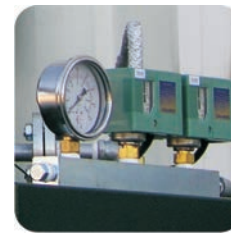


給水量不足檢知：微電腦自己做運算檢知，有效防止鍋爐無水空燒，及水泵故障退化之前的報知；水位控制異常檢知：微電腦自我診斷，有效防止水位電極棒斷線，短路或因水垢附著而產生的故障。

WATER INSUFFICIENCY INSPECTOR: Self-examined by the Microcomputer; effectively prevent idle combustion; respond to the malfunction of pumps before operation shutdowns.

WATER LEVEL CONTROL ERROR INSPECTING: Self-examined by the Microcomputer; efficiently prevents disconnection of water-level electrode rods, short cuts or operation faults caused by scale coherence.

壓力顯示及壓力開關 PRESSURE DISPLAY AND SWITCH



鍋爐運轉狀態變化，蒸汽量之發生狀態也會隨其變化，假使蒸發快速，隨之壓力也漸漸增加，這壓力的變化可由壓力表表示出來壓力開關使用蒸汽專用不銹鋼膨脹管，耐久性高，確保運轉安全。

The formation of steam would change as the boiler's operation status varies. If evaporation accelerates, the pressure within the boiler would increase as well. This increase in pressure will be displayed by the pressure gauge. The pressure switch is made of stainless steel expandable tubes for steam. It has excellent durability which ensures operation safety.

程式控制器 PROGRAM CONTROLLER



一體成型的控制器，保持線路運轉安全，維修容易控制回路漏電檢知：防止瓦斯鍋爐控制回路，因漏電而不正常作動而產生的故障確保鍋爐運轉的安全。

Integrated controller; ensures circuit operating safety; can be easily repaired. Inspector of electricity leakage in circuit control: Prevents malfunction caused by electricity leakage in the circuit control of a gas boiler, hence ensures boiler's operating safety.

油溫顯示 OIL-TEMPERATURE DISPLAY



可隨時掌握燃油溫度，藉由油溫的調整與燃燒的狀況，可判斷油品的優劣，當燃燒系統異常時，易判斷鍋爐異常狀況。

Use to control oil temperature. Oil quality can be known according to the oil temperature adjustment and burning condition. When the burning system malfunctioned, boiler status can be easily defined.

噴槍 NOZZLES

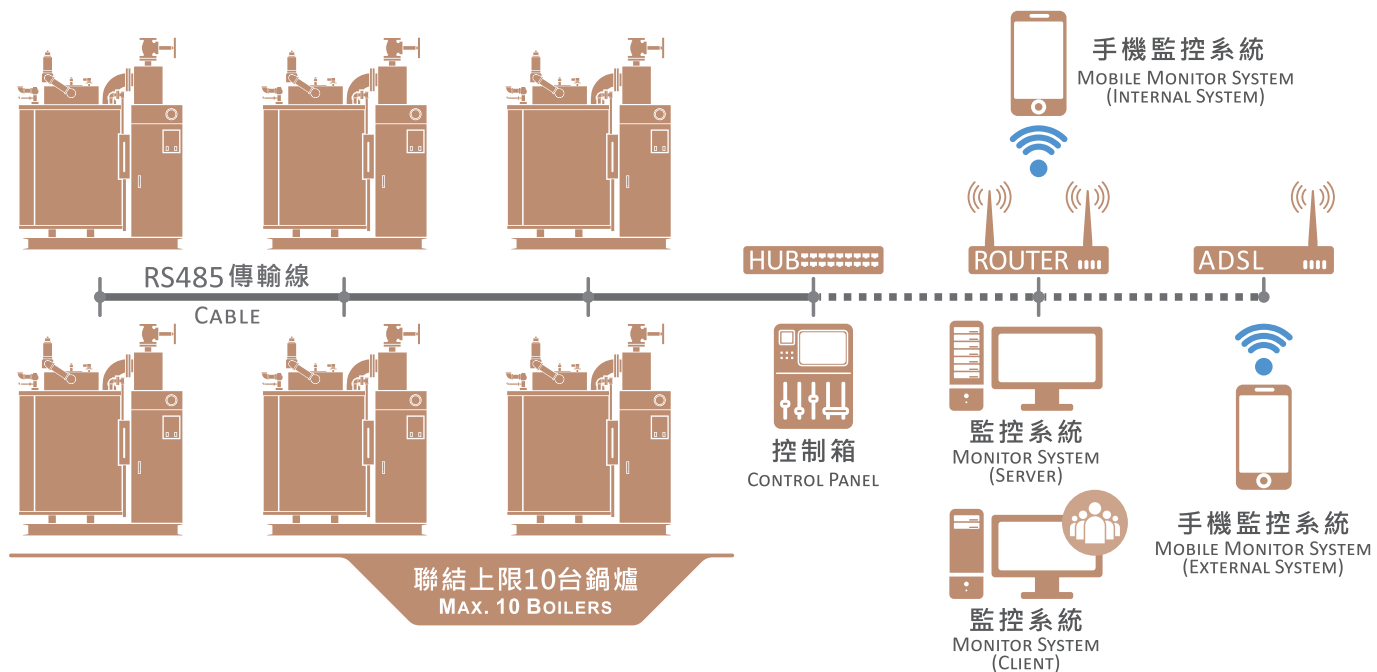


具有防漏及快速均衡油溫及預熱功能，燃燒時無黑煙產生。

Include leaking-proof, fast balancing oil temperature and preheat functions, no black smoke would be produced when burning.



網路遠端監控系統 REMOTE CONTROL SYSTEM



診斷鍋爐運轉狀況及協助故障排除
IDENTIFY BOILER'S OPERATING CONDITIONS
AND ASSIST WITH TROUBLESHOOTING

同時監視並控制多台鍋爐運轉
MONITOR AND CONTROL SEVERAL BOILERS
CONCURRENTLY

連接志豪維修中心
CONNECT WITH ZU HOW SERVICE CENTER

記錄故障時間、位置、蒸發量、燃料消耗量、給水量、蒸汽壓力、水管溫度、排氣溫度、給水溫度
RECORD:
MALFUNCTION TIME, MALFUNCTION POSITION,
EVAPORATION AMOUNT, FUEL CONSUMPTION,
FEED WATER AMOUNT, STEAM PRESSURE,
WATER TUBE TEMPERATURE, EXHAUST TEMPERATURE
AND FEED WATER TEMPERATURE

記錄統整 & 列印日報表及月報表
INTEGRATE RECORDS & PRINT DAILY REPORTS
AND MONTHLY REPORTS

