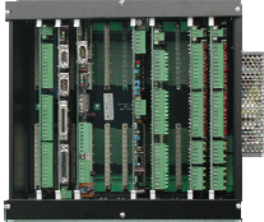
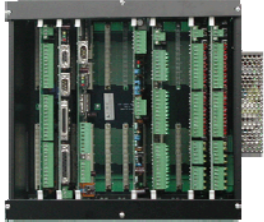











Specification		Models		Main control box					
		EMPC9000		EMPC9600		AF1000	AF2000	AF3000	
Appearance									
Size		L:318 mm W:299 mm H:163 mm		L:318 mm W:299 mm H:164 mm		L:326 mm W:221.6 mm H:42.5 mm	L:464 mm W:221.6 mm H:42.5 mm	L:429 mm W:238 mm H:153.7 mm	
		Plug-in design (11 slots), 4 slots for expansion space.				Light-thin design, easy disassembly, save the space of the electronic control box. Applies to low and middle machine models.			Short card plug-in design (14 slots), 7 slots for expansion space, high extensibility and reduce the height to save electronic control box space. Applies to low and middle machine models.
Analog Input	Input ports	Position	4	DZC9001	4	DZC9001	4 (Module)		6 (AF3001)
		Pressure sensors	3		3		3 (Module)		2 (AF3001) Comes with a 20V power supply
	Resolution	16 bits (0-65535 each port)				16 bits (0-65535 each port)		18 bits (0-262144 each port)	
	Sampling time	150 μs@1ch				150 μs@1ch		150 μs@8ch (18 μs@1ch)	
	Calibration	Software linearity correction				Software linearity correction		Software linearity correction	
	Power supply	+10Vdc/10ma @3500 Ω				+10Vdc/10ma @3500 Ω		+10Vdc/10ma @3500 Ω	
Extensibility		NO		Can be used DZC9601 Position port 8 ; Pressure sensor 5		NO		Factory specified expansion System maximum 16 ports Position port:10 ; Pressure sensor:6	

Temperature Control	Zones	12 zones (DZC9005) 11 zones for heating control · 1 zone for oil control	8 zones (Module) 7 zones for heating control · 1 zone for oil control	12 zones (AF3005) 11 zones for heating control · 1 zone for oil control High counter for 5 ports	
	Control mode accuracy	Fuzzy PID control 1°C	Fuzzy PID control 0.5°C	Fuzzy PID control 0.5°C	
	Display accuracy	1°C	0.1°C	0.1°C	
	Temperature range	K type 0-500°C	K type 0-400°C	K type 0-400°C	
	Alarms	Upper limit, lower limit of range	Upper limit, lower limit of range	Upper limit, lower limit of range	
		TBO: Thermocouple Broken Out	TBO: Thermocouple Broken Out	TBO: Thermocouple Broken Out	
		OPN: Heater band broken out	OPN: Heater band broken out	OPN: Heater band broken out	
Thermocouple TC+/TC-reverse					
Extensibility	NO	NO	Can be expanded AF3005 *1 (12 zones) System maximum 24 zones Heating : 23 ; Oil:1 High counter for 10 ports		
Proportional Control	Standard provide	1P/1F DZC9006-1PIF * 1	2P/1F Module	3P/2F Module	4P/4F AF3003 * 1
	Resolution	12 bits (0-4095 each port)	12 bits (0-4095 each port)	12 bits (0-4095 each port)	12 bits (0-4095 each port)
	Voltage control	Standard provide +10Vdc ; Selected ±10Vdc	Standard provide ±10Vdc	Standard provide ±10Vdc	Standard provide ±10Vdc
	Current control	+1Adc	+1Adc	+1Adc	+1Adc
	Calibration	Software linearity correction	Software linearity correction	Software linearity correction	Software linearity correction
	Ramping control	Hardware correction 256-segment changes with fastest reaction speed 0.001sec	Hardware correction 256-segment changes with fastest reaction speed 0.0025sec	Hardware correction 256-segment changes with fastest reaction speed 0.001sec	Hardware correction 256-segment changes with fastest reaction speed 0.001sec
	Servo hydraulic valve	NO	controlled; Software calibration of the full scale range	NO	Written in
	Extensibility	Can be expanded DZC9006-P (pressure) or DZC9006-1PIF (pressure and flow)	Can be expanded AF3003 *1 (4P/4F)	NO	System maximum 8P/8F AF3003 * 2
System maximum 3P/3F DZC9006-1PIF * 3					

External Input	Number of ports	48 ports includes high counter 4 ports DZC9007-24 * 2	64 ports includes high counter 4 ports DZC9007 * 2	32 ports includes high counter 5 ports Module	48 ports includes high counter 5 ports Module	48 ports AF3007-24 * 2
	Indicator	Green		Green	Green	Green
	Operating voltage	24Vdc ±10%		24Vdc ±10%	24Vdc ±10%	24Vdc ±10%
	Input current	24Vdc @10ma		24Vdc @10ma	24Vdc @10ma	24Vdc @10ma
	Isolation	Optically isolated		Optically isolated	Optically isolated	Optically isolated
	Power supply	24Vdc @14.6A		24Vdc @6.5A	24Vdc @14.6A	24Vdc @14.6A
	Extensibility	Can be expanded DZC9007-24	Can be expanded DZC9007-32		NO	NO
System maximum 96 ports includes high counter 4 ports DZC9007-24 * 4		System maximum 128 ports includes high counter 4 ports DZC9007-32 * 4		System maximum 120 ports AF3007-24 * 5		
External Output	Number of ports	48 ports DC output 32+Relay output16 DZC9008-24 * 2	64 ports DC output 48+Relay output16 DZC9008-32 * 2	32 ports DC output 26+Relay output 6 Module	48 ports DC output 42+Relay output 6 Module	48 ports DC output 36+Relay output12 AF3008(24DC) * 1 AF3009(12DC/12Relay) * 1
	Indicator	DC : Red Relay : Yellow		DC : Red Relay : Yellow	DC : 紅 Relay : Yellow	DC : Red Relay : Yellow
	Isolation	Optically isolated		Optically isolated	Optically isolated	Optically isolated
	DC Drive IC	MOSFET@6A		MOSFET@6A	MOSFET@6A	MOSFET@6A
	DC minimum load	5mA		5mA	5mA	5mA
	DC maximum load	1.8A(continue loading)		1.8A(continue loading)	1.8A(continue loading)	1.8A(continue loading)
	DC maximum peak current	3A		3A	3A	3A
	Relay working voltage	120-250Vac, 18-32Vdc		120-250Vac, 18-32Vdc	120-250Vac, 18-32Vdc	120-250Vac, 18-32Vdc
	Relay minimum load	10mAac/10Adc		10mAac/10Adc	10mAac/10Adc	10mAac/10Adc
	Relay maximum load	3Aac/5Adc (continue loading)		3Aac/5Adc (continue loading)	3Aac/5Adc (continue loading)	3Aac/5Adc (continue loading)
	Relay maximum peak current	5Aac/5Adc		5Aac/5Adc	5Aac/5Adc	5Aac/5Adc
	Power supply	24Vdc @14.6A		24Vdc @6.5A	24Vdc @14.6A	24Vdc @14.6A
Extensibility	Can be expanded DZC9008-24	Can be expanded DZC9008-32		NO	NO	Can be expanded AF3008(24DC) or AF3009(12DC/12Relay)
	System maximum 96 ports DZC9008-24 * 4 DC 72 ports ; Relay 24 ports	System maximum 128 ports DZC9008-32 * 4 DC 104 ports ; Relay 24 ports				System maximum 120 ports due to DC & Relay required choice expanded AF3008 or AF3009

Specification	Models		Man-machine interface	
	EMPC Series		AF Series	
	7.5" STN	10.4 TFT	8" TFT	10.4" TFT
Appearance				
Size	L:543mm W:242mm H:72.6mm	L:572mm W:318mm H:72.6mm	L:470mm W:260mm H:56.8mm	L:600 mm W:310 mm H:56.8 mm
	Integrated design, can save the cost of man-machine fixed box		Embedded design, applies a fixed box of the universal man-machine, high alternative	
Display interface	7.5" STN-LCD CCFL backlight 640*480 pixels	10.4" TFT-LCD CCFL backlight 640*480 pixels	8" TFT-LCD LED backlight 800*600 pixels	10.4" TFT-LCD LED backlight 800*600 pixels
Touch interface	NO		Four-wire resistive (choose)	Four-wire resistive (choose)
Network interface	NO		10/100M (choose)	10/100M (choose)
Module memory	Built-in 80 groups (NVSram) USB expansion available		Built-in 80 groups (F-Sram) no battery loss and data loss problems USB expansion available	Built-in 80 groups(F-Sram) no battery loss and data loss problems USB expansion available
Machinery factory parameters storage	NO		YES	YES
Program update	EEPROM demolition burning		USB update directly	USB update directly