

# wexten® WEXTEN PRECISE INDUSTRIES CO., LTD.

## SPECIFICATION

BUYER: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

WORKING MACHINERY: \_\_\_\_\_

PRODUCT: OIL COOLER FOR MACHINE TOOLS

MODEL NO: C08PTS-3227D

JUDGE ( TECHNICAL INFORMATION )			
1. NON STANDARD		2. STANDARD	✓





FINISHED DATE	DRAFTSMAN	DESIGNER	VERIFY
20151014	<i>[Handwritten Signature]</i>	<i>[Handwritten Signature]</i>	<i>[Handwritten Signature]</i>


HISTORY OF MODIFICATION AND CHANGES				
NO.	REASONS	DATE	REVISER	VERIFY



## ACCESSORY AND DRAWING LIST

NO.	ITEM	QUANTITY	DRAWING NO.	NOTES
	Accessory			
1	C08PTS	1		
2	Standard Accessory			
	• Operation Manual	1		(Attached in the Machinery)
	• Dangerous sticker	5		(Sticker on the plate)
	Drawing list			
1	Specification		C08PTS-M051	
2	Dimension diagram		C08PTS-M061	
3	Cooling system diagram		C08PTS-M071	
4	Electrical circuit diagram		C08PTS-M081	
5	Electrical parts list		C08PTS-M091	
6	Operation limits		C08PTS-M101	
				

# REVISE DRAWING DESCRIPTION

PAGINATION	DATE	REVISER	CONTENT	DRAWING
				

機種	MODEL	C08PTS	
冷卻能力 COOLING CAPACITY	(60 Hz) (60 Hz)	8000BTU/Hr 2000KCAL/Hr	
電 源 POWER SOURCE	主迴路 MAIN CIRCUIT	3ø 220V 50/60 Hz	
	操作迴路 OPERATION CIRCUIT	1ø 24V 50/60 Hz	
外塗裝編號 EXTERNAL PAINTING NUMBER		RAL-7035	
外型尺寸 (長*寬*高) EXTERNAL DIMENSION (DxWxH)	mm mm	423x496x990.5	
壓縮機 COMPRESSOR		8000BTU/Hr	
蒸發器 EVAPORATOR		殼管式 COIL TYPE IN THE HOUSING	
冷凝器 CONDENSER		鰭片式 CROSS-FIN COIL TYPE	
風扇葉片 FAN BLADE		螺旋式風扇葉片 PROPELLER FAN	
油幫浦 OIL PUMP	吐出量 (60Hz) DISCHARGE CAPACITY	20 L/min	
油溫度調節 OIL TEMPERATURE CONTROL		差溫式 (比對溫、調節範圍-9.9°C~+9.9°C) WITH ROOM TEMPERATURE (ADJUSTABLE DIFFERENTIAL TEMPERATURE RANGE:-9.9°C+9.9°C)	
冷媒控制 REFRIGERANT CONTROL		毛细管	CAPILLARY TUBE

保護裝置 PROTECTION DEVICES	過電流保護器 (壓縮機用、電動機用) 、逆欠相保護裝置、再起動防止、高油溫保護 、低油溫保護、油壓力開關 OVERCURRENT RELAY FOR COMPRESSOR AND PUMP MOTOR PHASE-REVERSAL RELAY DELAY TIMER HIGH OIL TEMPERATURE PROTECTION LOW OIL TEMPERATURE PROTECTION OIL PRESSURE METER	
冷媒 REFRIGERANT	R407C / R134a	
使用可能油 APPLICABLE OILS	潤滑油, 油壓作動油 LUBRICANT , PRESSURE OIL	
使用範圍 OPERATIVE RANGE	室 溫 ROOM TEMP	5°C~45°C
	入口油溫 OIL INLET TEMP	5°C~45°C
接繞配管 CONNECTION PIPING SIZE	油 品 OIL SPEC.	ISO VG32
	油 入 口 OIL INLET	PT 3/4"
	油 出 口 OIL OUTLET	PT 3/4"
	補 給 口 SUPPLY	PT 1"
	排 液 口 OIL DRAIN	PT 1/2"
製品質量 COOLER WEIGHT		90kg
標準附屬品 STANDARD ACCESSORY		說明書 OPERATING MANUAL

\* 測試條件 室溫:35°C 油入口溫度:35°C  
AC 3ø220V 50/60HZ

\* Test term  
ROOM TEMPERATURE:35°C OIL INLET TEMPERATURE:35°C  
AC 3ø220V 50/60HZ

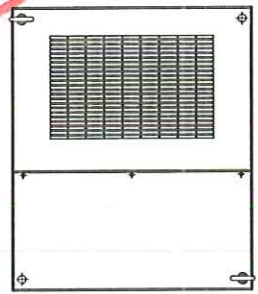


威士頓精密工業(股)公司 WEXTEN PRECISE INDUSTRIES CO.,LTD.	型式 MODEL	C08PTS	圖 號 NO.	C08PTS-M051	設 計 DESIGN	許森永	製 圖 DRAFTSMAN	莊雅婷	審 核 VERIFY	10/14
	型 號 TYPE	Oil cooler for machine tools	名 稱 NAME	Specification	單 位 UNIT	mm	客 戶 CLIENT	Standard	比 例 SCALE	1:1
								日 期 DATE		151014

塗裝色 Coated Color	RAL-7035	
NO.	NAME	SPECIFICATION
1	Control Panel	-9.9°C~+9.9°C(±1.5°C)
2	Power Hole	φ22, 3φ220V, 50/60HZ
3	Air Filter	361x554mm
4	Oil Inlet	PT 3/4"
5	Oil Outlet	PT 3/4"
6	Fixed hole	φ12x18-4
7	Drain	PT 1/2"
8	Liquid Sight Glass	LG-50
9	Oil Suppl't Hole	PT 1"

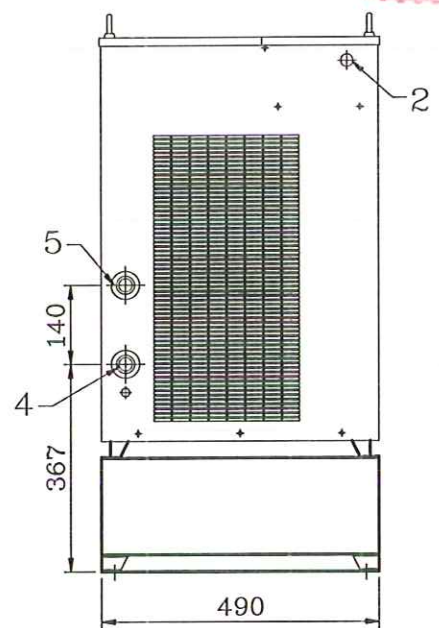
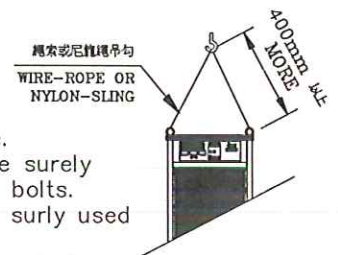


- 注)1. 吸氣、排氣孔 500mm內，勿放置障礙物。  
 2. 懸吊物品時，一定要勾住2個金屬吊環。  
 3. 油配管出入口一定要使用大於20A SGP之管子。  
 4. 排液口之油管需確定安裝在固定位置上。

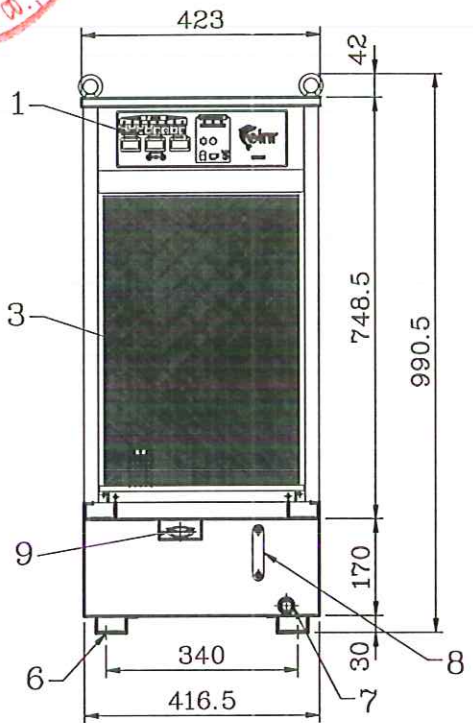


TOP VIEW

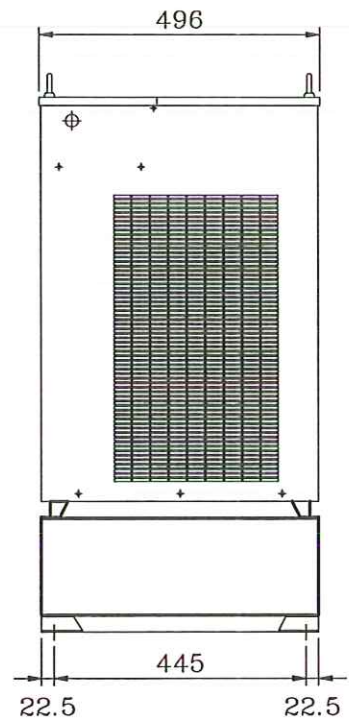
- NOTES) 1. Don't place any obstacles within 500mm from suction and exhaust side.  
 2. When hanging the unit up, to be surely hanging the unit using 2 eye bolts.  
 3. Both oil inlet and outlet pipe is surly used more than 20A SGP pipe.  
 4. The pipe for oil drain pan is sure to be installed on site.



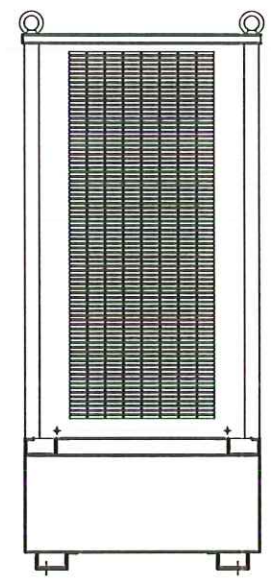
LEFT VIEW



FRONT VIEW



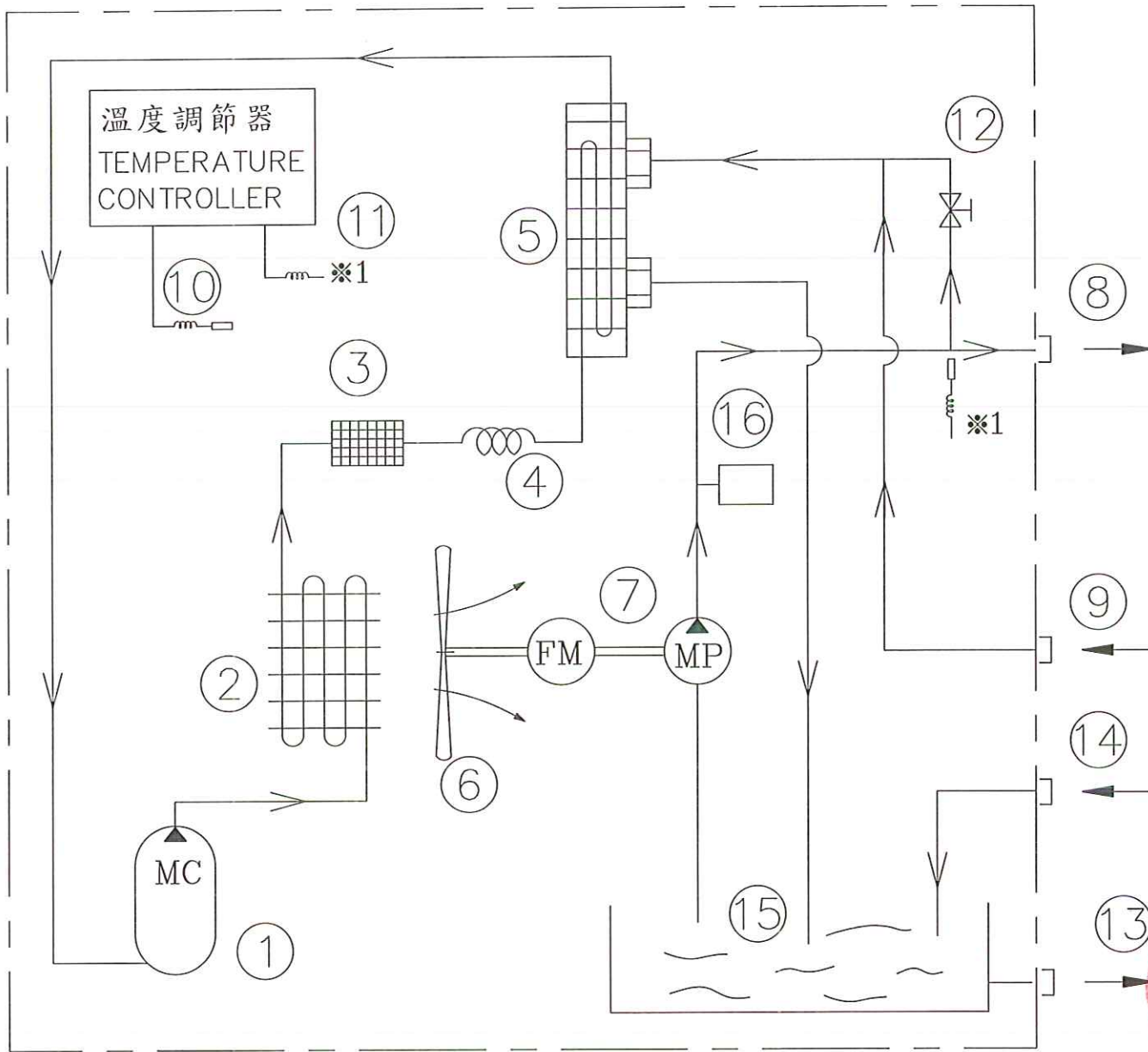
RIGHT VIEW



REAR VIEW

威士頓精密工業(股)公司  
WEXTEN PRECISE INDUSTRIES CO.,LTD.

型式 MODEL	C08PTS	圖號 NO.	C08PTS-M061	設計 DESIGN	許森永	製圖 DRAFTSMAN	莊雅婷	審核 VERIFY	洪成
型號 TYPE	Oil cooler for machine tools	名稱 NAME	Dimension	單位 UNIT	mm	客戶 CLIENT	Standard	比例 SCALE	1:13
								日期 DATE	151014



NO	名稱	NAME
1	壓縮機	Compressor
2	冷凝器	Condenser
3	乾燥器	Dryer
4	毛細管	Capillary Tube
5	蒸發器	Evaporator
6	風扇葉片	FAN BLADE 12"
7	幫浦馬達	Pump Motor
8	油出口	Oil Outlet PT 3/4"
9	油進口	Oil Inlet PT 3/4"
10	室溫感溫棒	Room sensor
11	油溫感溫棒	Oil sensor
12	旁通閥	By pass
13	排液口	Drain PT 1/2"
14	補給口	Supply PT 1"
15	油箱	Oil tank 35L
16	油壓力開關	Oil Pressure meter



威士頓精密工業(股)公司  
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型式 MODEL C08PTS  
型號 TYPE Oil cooler for machine tools

圖號 NO.  
名稱 NAME

C08PTS-M071  
Cooling system

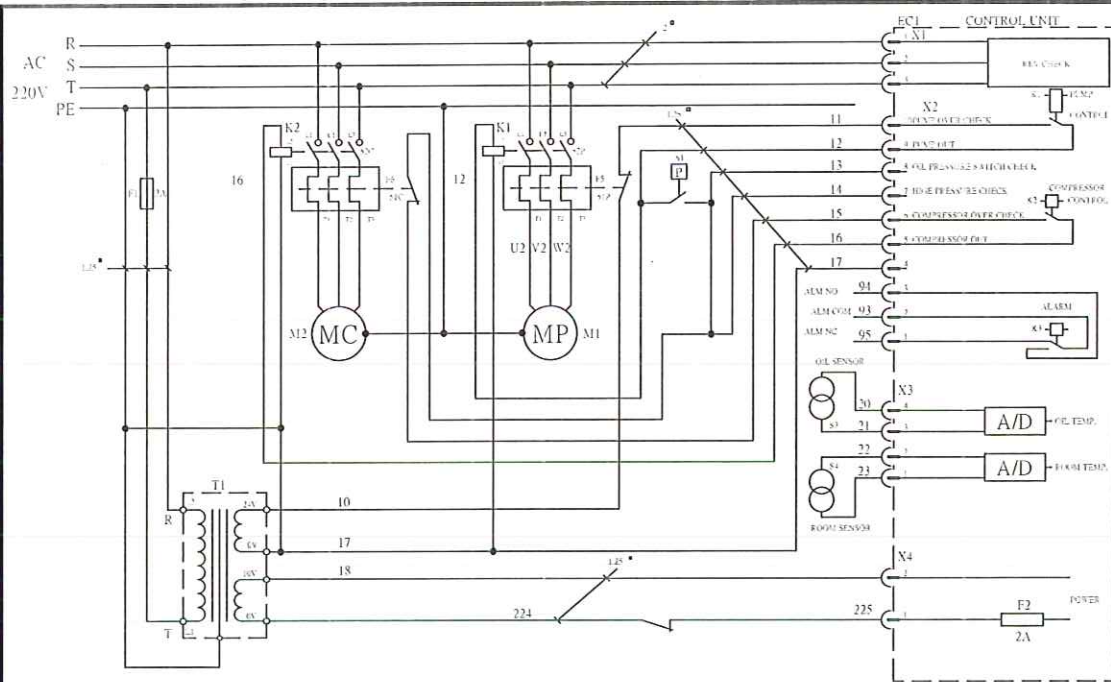
設計 DESIGN  
單位 UNIT mm

許森永  
客戶 CLIENT

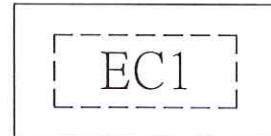
製圖 DRAFTSMAN  
Standard

莊雅婷  
比例 SCALE 1:1

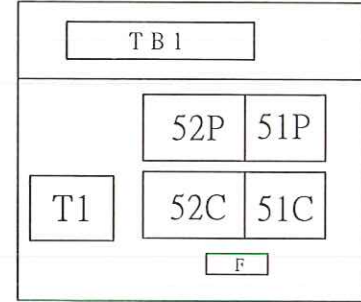
審核 VERIFY  
日期 DATE 151014



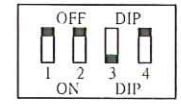
CONTROL PANEL



SWITCH BOX

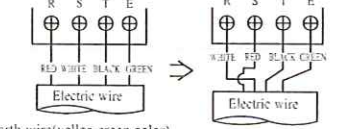


<VERTICAL/HORIZONTAL BIG CONTROL PANEL SETTING FUNCTION>  
 S4 DIP SW FUNCTION :  
 1 : OFF-MANUAL CONTROLLED  
 2 : ON-FIXED TEMPERATURE MODE  
 3 : ON-DETECTION REV  
 4 : OFF-NORMAL ACTION MODE



S4 DIP SW - 4 : ON  
 FUNCTION SETTING:(USING THE KEY ON/OFF TO CHOOSE THE SETTING ITEM FROM 01-14 AND USE THE KEY Δ▽ TO ADJUST THE SETTING VALUE)  
 01 : 50°C                    08 : -1.5°C  
 02 : 5°C                    09 : 30 sec  
 03 : 40°C                    10 : YES  
 04 : 5°C                    11 : NO  
 05 : +9.9°C                12 : NO  
 06 : -9.9°C                13 : Rectifying the Liquid Temp  
 07 : 1.5°C                 14 : Rectifying the Room Temp  
 Diagram of power connection, alarm connection and remote control:

⊙ R,S,T are the power source connections of the cooler. When the phase sequence is correct, the alarm lamp will be shown on the small control panel and the monitor will display RE. And big control panel will display REV.  
 ALARM :

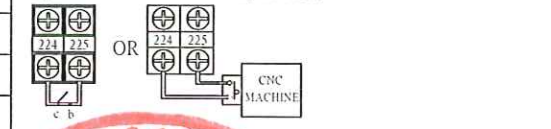


電源容量 (POWER SOURCE CAPACITY)	定格電壓 (RATED VOLTAGE)		過電流繼電器 (OVERCURRENT RELAY (A))	
	220V		51C	51P
C06PTS	1.5 KW		5.0A	2.0 A
51C	過電流保護器	OVERCURRENT RELAY	EC1	制御基板
51P	過電流保護器	OVERCURRENT RELAY	F1	變壓器FUSE
52C	接觸器	CONTACTOR	F2	基板FUSE
52P	接觸器	CONTACTOR	MC	壓縮機
LED1	表示燈(電源-綠)	PILOT LAMP (POWER-GREEN)	MP	電動機
LED2	表示燈(PUMP-綠)	PILOT LAMP (PUMP-GREEN)	SW1	控制切換
LED3	表示燈(COOL-綠)	PILOT LAMP (COOL-GREEN)	SW2	設定模式切換
LED4	表示燈(REV-紅)	PILOT LAMP (REV-RED)	SW3	REV模式切換
LED5	表示燈(OPS-紅)	PILOT LAMP (OPS-RED)	SW4	功能設定
LED6	表示燈(PUMP-紅)	PILOT LAMP (PUMP-RED)	S1	油壓力開關
LED7	表示燈(COM-紅)	PILOT LAMP (COM-RED)	S3	油溫SENSOR
LED8	表示燈(HIP-紅)	PILOT LAMP (HP-RED)	S4	室溫SENSOR
LED9	表示燈(RA-紅)	PILOT LAMP (RA-RED)	T1	變壓器
LED10	表示燈(RO-紅)	PILOT LAMP (RO-RED)	TB1	端子台
LED11	表示燈(OT-紅)	PILOT LAMP (OT-RED)		

OPERATION AND FUNCTION OF CONTROL PANEL

NO	ITEM	OUTLINE	OPERATION&FUNCTION
1	ON/OFF SWITCH	⬆	Run/Stop Switch, touch type
	SET TEMPERATURE	⬅ ➡	⬅ Low temp. setting key, touch type ➡ High temp. setting key, touch type
3	POWER-green lamp	⊙	Power Source lamp Show the cooler is with electricity
	PUMP-green lamp	⊙	Pump is running normally
	COOL-green lamp	⊙	Compressor is running normally
4	REV-Red lamp	⊙	Three phase power unusual
	OPS-Red lamp	⊙	Oil pressure circuit unusual
	PUMP-Red lamp	⊙	Pump motor unusual
	COMP-Red lamp	⊙	Compressor is running unusual
9	HIP-Red lamp	⊙	Refrigerant's pressure unusual
	RA -Red lamp	⊙	The room temp. Sensor is not working.
	RO-Red lamp	⊙	The oil temp. Sensor is not working.
	OT-Red lamp	⊙	Oil temp. is too high

⊙ E is the earth wire (yellow-green color)  
 ⊙ Under no power supply condition.  
 93 , 95, are the b point of the signal. (see as follow)  
 Both of this alarm connections is on-line with CNC machine to detect the cooler status, directly.  
 ( 93 94 B Point NO. ) ↔ ( when the cooler OFF )  
 ( 93 95 A Point NC. ) ↔ ( when the cooler ON )



P.S. As usual, 93, 95 are alarm connection in our cooler. Please change the 94 and 95 when you feel unstable for your machine. (94 is in the line box on the electric panel)  
 224 , 225 are the remote control connection and can be connected with the working machine as the ON/OFF switch.  
 224, 225 normally are in the short circuit condition when the cooler shipped out, by user's request the short circuit can be released and connected to the b point of the CNC controller to stop the cooler.

威士頓精密工業(股)公司 WEXTEN PRECISE INDUSTRIES CO.,LTD.	型式 MODEL 型號 TYPE	C08PTS Oil cooler for machine tools	圖號 NO.	C08PTS-M081	設計 DESIGN	許森永	製圖 DRAFTSMAN	莊雅婷	審核 VERIFY	日期 DATE	151014
			名稱 NAME	Electrical circuit diagram	單位 UNIT	mm	客戶 CLIENT	Standard	比例 SCALE	1:1	





NO	零件名稱 PARTS NAME	符號 MARKS	形號 TYPE
1	壓縮機 COMPRESSOR	MC	8000BTU/Hr
2	幫浦馬達 PUMP MOTOR	MP	20 L/min
3	控制基板 CONTROL CIRCUIT BOARD	EC1	P-3HV
4	油溫感溫棒 OIL TEMPERATURE SENSOR	S3	NTC-1001C
5	室溫感溫棒 ROOM TEMPERATURE SENSOR	S4	NTC-1001C
6	接觸器 CONTACTOR	52C	LC1D09B7
7	接觸器 CONTACTOR	52P	LC1D09B7
8	過電流保護器 OVERCURRENT RELAY	51C	LR3D10
9	過電流保護器 OVERCURRENT RELAY	51P	LR3D07
10	端子台 TERMINAL BLOCK	TB1	20A8P
11	保險絲 FUSE	F1 F2	30MM 2A 20MM 3A
12	變壓器 TRANSFORMER	T1	220V/26V/12V
13	接地銅板 GROUND COPPER PLATE	⊕	5P
14	油壓力開關 OIL PRESSURE SWITCH	S1	P2E



威士頓精密工業(股)公司

WEXTEN PRECISE INDUSTRIES CO.,LTD.

型式  
MODEL  
型號  
TYPE

C08PTS

Oil cooler for  
machine tools

圖號  
NO.  
名稱  
NAME

C08PTS-M091

Electrical parts list

設計  
DESIGN

許森永

單位  
UNIT

mm

製圖  
DRAFTSMAN

莊雅婷

客戶  
CLIENT

Standard

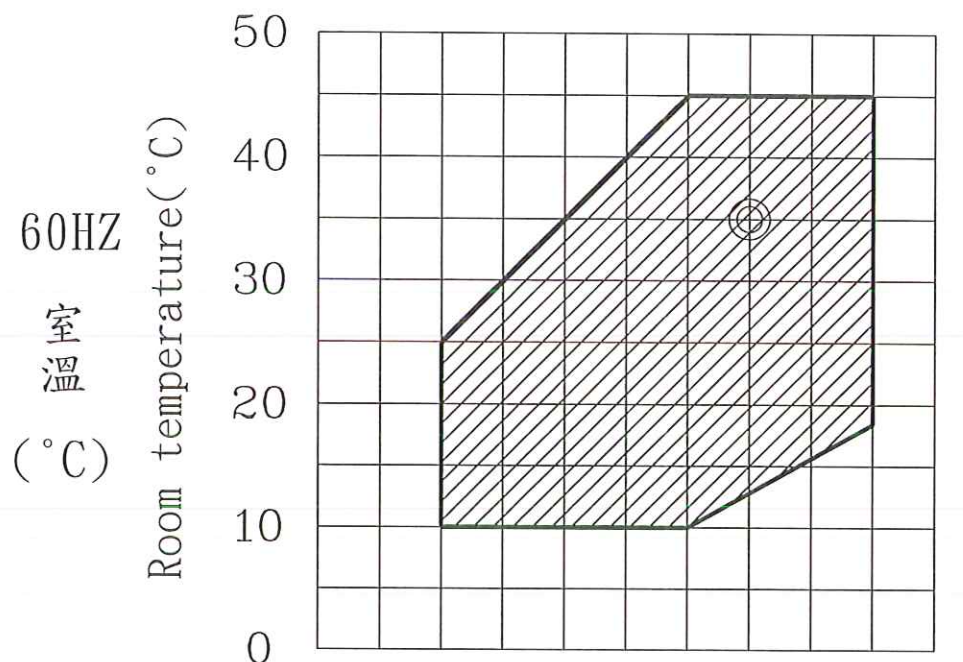
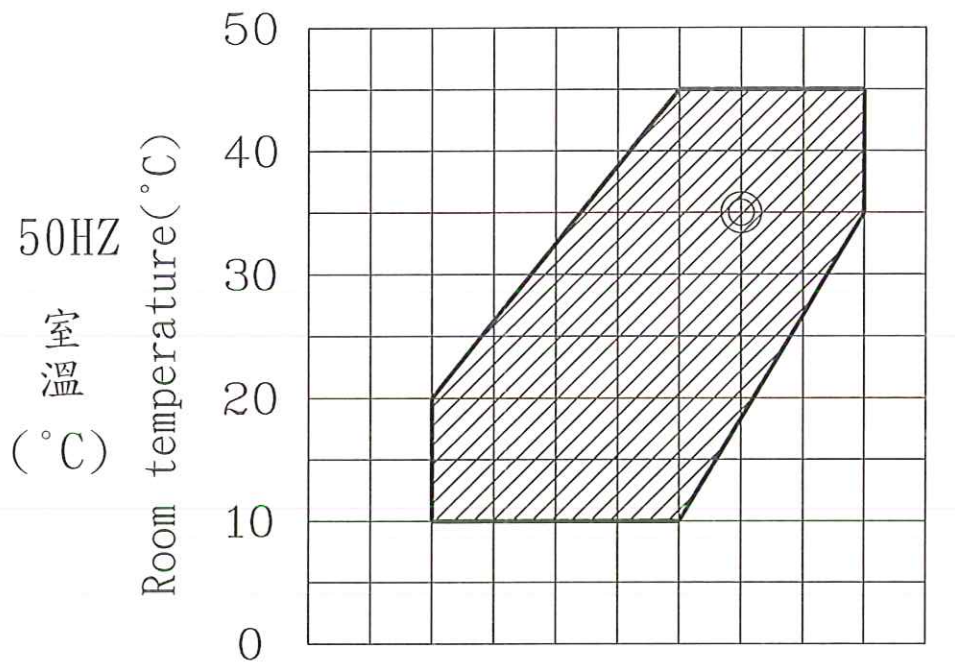
審核  
VERIFY

日期  
DATE

比例  
SCALE

1:1

151014



0 10 20 30 40 50  
 工作機械入口液體溫度(°C)  
 Inlet liquid temperature(°C)

0 10 20 30 40 50  
 工作機械入口液體溫度(°C)  
 Inlet liquid temperature(°C)



備註: 1. ⊙ : 標準點 (Max. cooling performance)  
 ▨ : 使用範圍 (Applicable cooling range)

2. 操作時必須於使用範圍內  
 (於使用範圍條件外操作, 會造成故障)

(Please be sure to operate this unit within the applicable cooling range, or it will result in the breakdown.)

威士頓精密工業(股)公司 WEXTEN PRECISE INDUSTRIES CO.,LTD.	型式 MODEL	C08PTS	圖號 NO.	C08PTS-M101	設計 DESIGN	許森永	製圖 DRAFTSMAN	莊雅婷	審核 VERIFY	沈斌/10/14
	型號 TYPE	Oil cooler for machine tools	名稱 NAME	Operation limits	單位 UNIT	mm	客戶 CLIENT	Standard	比例 SCALE	1:1
								日期 DATE		151014