

Circulating Fluid Temperature Controller

Eldro-Chiller

Basic Type

Temperature stability ± 2 °C / Compact

The temperature control method by Compressor ON/OFF, Air-cooled condenser fan, Electronic valve Control and temperature sensor, realized temperature stability of ± 2 °C and a small-size tank.

Model	Cooling capacity [W] (50 / 60 Hz)	Size (mm)	Weight	Set temperature range
PWNE-015	1000 / 1200	L 498 x W 497 x H 680	~ 35 kg	10°C to 30°C
PWNE-020	1400 / 1600			
PWNE-025	1900 / 2200			

- Single-phase 200 to 230 VAC (50 / 60 Hz)

Series PWNE



Eldro-Chiller **Basic Type**

Single-phase 200 to 230 VAC

Series **PWNE**



Air-cooled refrigeration

015	Cooling capacity 1000 / 1200 W (50 / 60 Hz)
020	Cooling capacity 1400 / 1600 W (50 / 60 Hz)
025	Cooling capacity 1900 / 2200 W (50 / 60 Hz)

Model		PWNE-015-A-23(T)	PWNE-020-A-23(T)	PWNE-025-A-23(T)
Cooling method		Air-cooled refrigeration		
Refrigerant		R407C (HFC)		
Control method		Compressor ON/OFF		
Ambient temperature/humidity/Altitude		Temperature: 5 to 40 °C, Humidity: 30 to 70 %, Altitude: less than 3000 m		
Circulating fluid system	Circulating fluid	Tap water, 15 % ethylene glycol aqueous solution		
	Set temperature range	°C 10 to 30		
	Cooling capacity (50 / 60 Hz)	W 1000 / 1200 For option -T: 900 / 1100	1400 / 1600 For option -T: 1300 / 1500	1900 / 2200 For option -T: 1800 / 2100
	Temperature stability	°C ±2		
	Pump capacity (50 / 60 Hz)	l/min 7 (0.13 MPa)/7 (0.18 MPa) For option -T: 0.13 (at 7 l/min)/0.18 (at 7 l/min)		
	Tank capacity	L Approx. 5		
	Port size	Rc 1/2		
	Fluid contact material	Stainless steel, Copper (Heat exchanger brazing), Bronze, Alumina ceramic, Carbon, PP, PE, POM, FKM, EPDM, PVC		
Electrical system	Power supply	Single-phase 200 to 230 VAC (50 / 60 Hz) Allowable voltage range ±10 %		
	Circuit protector	A 10		
	Applicable earth leakage breaker capacity	A 10		
	Rated operating current	A 4.6 / 5.1	4.7 / 5.2	5.1 / 5.9
	Rated power consumption (50 / 60 Hz)	kVA 0.9 / 1.0	0.9 / 1.0	1.0 / 1.2
Noise level (50 / 60 Hz)	dB 60 / 61			
Weight	kg 35 For option -T: 42			

Application Examples

Application Examples	Heat source	Automotive	Light electrical appliance	Food	Machinery	Medical	Semiconductor
Arc welding machine	Torch	√			√		
Resistance welding machine	Tip	√	√		√		
Laser welding machine	Oscillator	√	√		√		√
UV curing device	Lamp	√	√	√		√	
X-ray instrument			√			√	√
Electronic microscope	Lens		√			√	√
Laser marker	Oscillator	√	√	√		√	√
Ultra sonic wave inspection machine		√	√		√		
Atomizing device / Crushing equipment	Blade			√			
Linear motor	Motor	√			√		
Packaging machines (food products)	Dies/Welded portions			√			
Mold cooling	Mold	√	√	√		√	
Temperature control of adhesive and paint material	Paint material / Welding materials	√	√	√			
Cooling of vacuum pump	Pump	√					√
Shrink fit machine	Workpiece	√			√		
Gas cylinder cabinet							√
Concentrating equipment	Test liquid			√		√	
Reagent cooling equipment	Reagent			√		√	√
Cleaning machine (hydrocarbon-based)	Cleaning tank	√	√		√		
Printing machine	Roller		√	√	√		√
Chamber electrode	Electrode						
High frequency induction heating equipment	Power supply/Heating coil	√			√		



ISO-9001:2015
 ISO-13485:2016
 Comply to AS-9100
 Comply to MIL-STD



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