

Circulating Fluid Temperature Controller

Eldro-Chiller

Standard Type

Temperature stability ± 1.0 °C

Model	Cooling Method	Cooling capacity [kW] (50 / 60 Hz)	Set temperature range
PWN-110	Air-cooled refrigeration	9.0/9.5	5°C to 35°C
PWN-160		13.0/14.5	5°C to 35°C
PWN-110	Water-cooled refrigeration	10.0/11.0	5°C to 35°C
PWN-160		14.5/16.5	5°C to 35°C

- 3-phase 380 to 415 V AC (50/60 Hz)



Series PWN-110/160



Eldro-Chiller Standard Type

Series PWN-110/160

Air-cooled 400 V Type



110	10 kW
160	15 kW

Model		PWN-110-A-40	PWN-160-A-40		
Cooling method		Air-cooled refrigeration			
Refrigerant		R407 C (HFC)			
Control method		PID control			
Ambient temperature °C		-5 to 45			
Circulating system	Circulating fluid	Tap water, 15 % ethylene glycol aqueous solution, Deionised water			
	Set temperature range	°C	5 to 35		
	Cooling capacity 50 / 60 Hz	kW	9.0/9.5	13.0/14.5	
	Heating capacity 50 / 60 Hz	kW	1.7/2.2	2.5/3.0	
	Temperature stability	°C	±1		
	Pump capacity	Rated flow 50 / 60 Hz (Outlet)	l/min	42/56	
		Maximum flow rate 50 / 60 Hz	l/min	55/68	
		Maximum pump head	m	50	
	Minimum operating flow rate 50 / 60 Hz	l/min	28/42		
	Tank capacity	L	18		
	Circulating fluid outlet, circulating fluid return port		Rc 3/4 (Symbol F: G 3/4, Symbol N: NPT 3/4)		
	Pump drain port		Rc 1/4 (Symbol F: G 1/4, Symbol N: NPT 1/4)		
	Automatic fluid fill system (Standard)	Supply side pressure range	Mpa	0.2 to 0.5	
		Supply side fluid temperature	°C	5 to 35	
		Automatic fluid fill port		Rc 1/2 (Symbol F: G 1/2, Symbol N: NPT 1/2)	
Overflow port			Rc 1 (Symbol F: G1, Symbol N: NPT 1)		
Fluid contact material		Stainless steel, Copper (Heat exchanger brazing), Brass, Bronze, PTFE, PU, EPDM, PVC, NBR, PE, NR, PBT, PP, POM, Carbon, Ceramic			
Power supply		3-phase 380 to 415 V AC (50 / 60 Hz) Allowable voltage range ±10 % (No continuous voltage fluctuation)			
Earth leakage breaker (Standard/With handle)	Rated current	A	20		
	Sensitivity of leak current	mA	30		
Rated operating current 50 / 60 Hz		A	6.9/7.5	8.1/9.6	
Rated power consumption 50 / 60 Hz		kW (kVA)	3.7/4.7 (4.7/5.3)	4.8/6.1 (5.7/6.6)	
Noise level (Front 1 m/Height 1 m)		dB (A)	70	72	
Waterproof specification		IPX4			
Weight (dry state)		kg	170	180	

Eldro-Chiller Standard Type

Series PWN-110/160

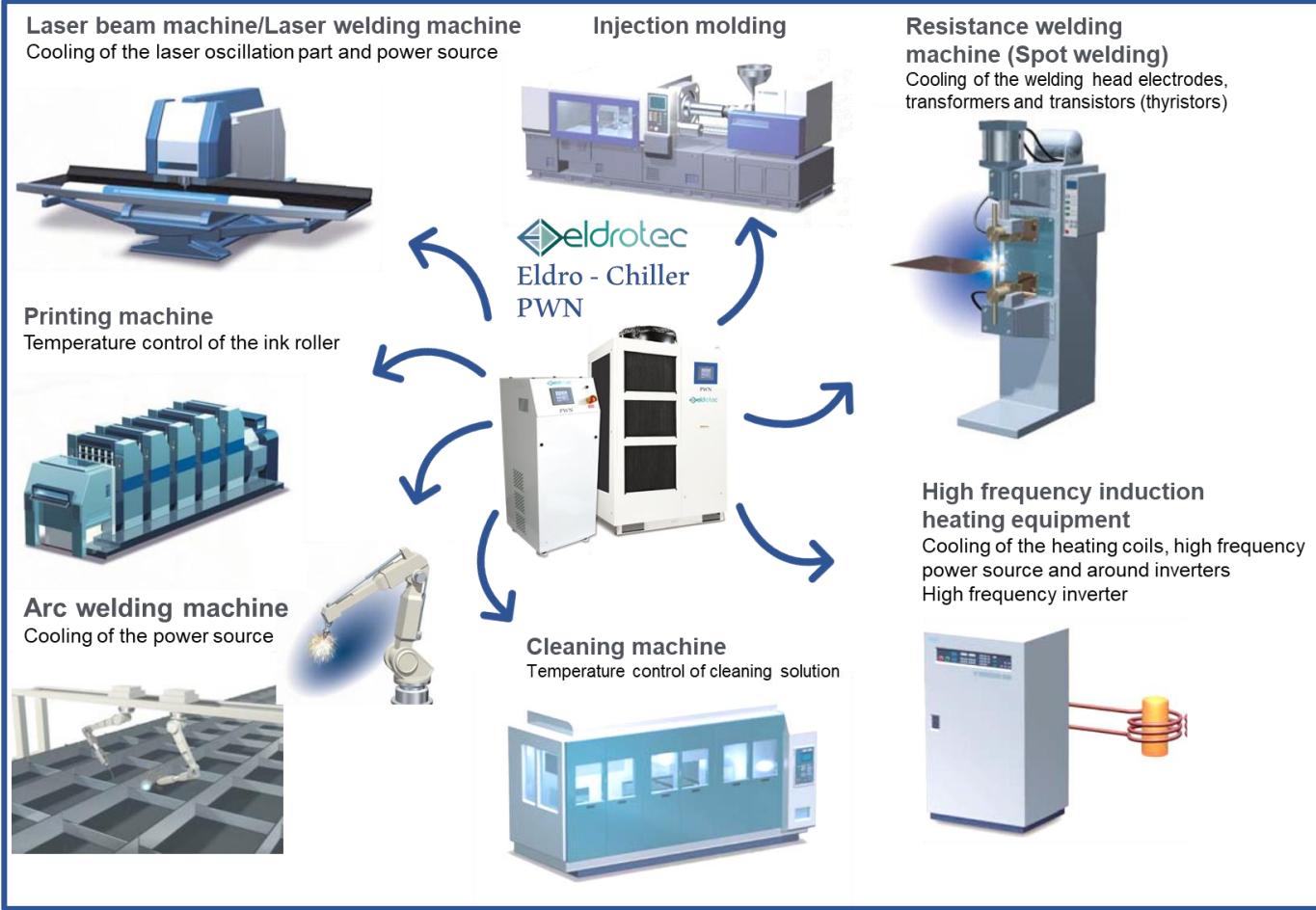
Air-cooled 400 V Type



110	10 kW
160	15 kW

Model		PWN-110-W-40	PWN-160-W-40	
Cooling method		Water-cooled ref rigeration		
Refrigerant		R407 C (HFC)		
Control method		PID control		
Ambient temperature °C		2 to 45		
Circulating system	Circulating fluid	Tap water, 15 % ethylene glycol aqueous solution, Deionised water		
	Set temperature range	°C	5 to 35	
	Cooling capacity 50 / 60 Hz	kW	10.0/11.0	14.5/16.5
	Heating capacity 50 / 60 Hz	kW	1.7/2.2	2.5/3.0
	Temperature stability	°C	±1	
	Pump capacity	Rated flow 50 / 60 Hz (Outlet)	l/min	42/56
		Maximum flow rate 50 / 60 Hz	l/min	55/68
		Maximum pump head	m	50
	Minimum operating flow rate 50 / 60 Hz	l/min	28/42	
	Tank capacity	L	18	
	Circulating fluid outlet, circulating fluid return port		Rc 3/4 (Symbol F: G 3/4, Symbol N: NPT 3/4)	
	Pump drain port		Rc 1/4 (Symbol F: G 1/4, Symbol N: NPT 1/4)	
	Automatic fluid fill system (Standard)	Supply side pressure range	Mpa	0.2 to 0.5
		Supply side fluid temperature	°C	5 to 35
		Automatic fluid fill port		Rc 1/2 (Symbol F: G 1/2, Symbol N: NPT 1/2)
Overflow port			Rc 1 (Symbol F: G1, Symbol N: NPT 1)	
Fluid contact material		Stainless steel, Copper (Heat exchanger brazing), Brass, Bronze, PTFE, PU, EPDM, PVC, NBR, PE, NR, PBT, PP, POM, Carbon, Ceramic		
Facility Water System	Temperature range	[°C]	5 to 40	
	Pressure range	[MPa]	0.3 to 0.5	
	Required flow 50 / 60 Hz	[l/min]	33/34	38/40
	Facility water pressure differential	[MPa]	0.3 or more	
	Facility water inlet/outlet		Rc 3/4 (Symbol F: G 3/4, Symbol N: NPT 3/4)	
	Fluid contact material		Stainless steel, Copper (Heat exchanger brazing), Bronze, Brass PTFE, NBR, EPDM	
Power supply		3-phase 380 to 415 V AC (50 / 60 Hz) Allowable v oltage range ±10 % (No continuous v oltage f luctuation)		
Earth leakage breaker (Standard/With handle)	Rated current	A	20	
	Sensitivity of leak current	mA	30	
Rated operating current 50 / 60 Hz	A	6.4/7.2	7.7/9.5	
Rated power consumption 50 / 60 Hz	kW (kVA)	3.4/4.4 (4.5/5.0)	4.5/6.0 (5.4/6.6)	
Noise level (Front 1 m/Height 1 m)	dB (A)	70		
Waterproof specification		IPX4		
Weight (dry state)	kg	150	155	

Application Examples



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



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