

Thermal Management



Panel Air Conditioner
Process Chiller
Heat Exchanger



www.zappcool.com

Industrial Cooler - Side Mount

Extend the life of system by keeping cool. Turning center, VMC and HMC CNC machine panel cooling.

Model	PAC	030F	045F	060F	090F	135F	200F	300F	
Cooling Capacity	W	350	525	700	1050	1570	2320	3450	
Power Input		1Ph/ 230V / 50Hz							
Power	W	300	325	350	750	900	1400	1750	
Refrigerant	R	R143a							R22
Weight	Kg	23		35		42	64	68	
Dimensions	L	mm		339		377	425		
	B	mm		261		270	290		
	H	mm		454		650	1004		

PAC200F



Air Water Panel Cooler

Cooling panels at hazardous environment like die casting and foundry panels - using chilled water.

Model	AWPC	90	200	300	450	600	900
Cooling Capacity	W	1050	2325	3500	5250	7000	10500
Power	W	80	100	100	160	230	220
Fan Flow rate	m ³ /hr	450	750	1000	1180	1850	2550
Water flow rate	lpm	4	7	10	15	20	30
Weight	Kg	15	20	22	30	50	70
Dimensions	L	mm	390	420	420		800
	B	mm	200	200	200		400
	H	mm	650	750	1000		1800

AWPC200



Air Air Heat Exchanger

Low cost cooling where required temperature is higher than ambient, wind mill and telecom panels.

Model	AAH	50	80	140	220	
Specific heat Transmission	W/°K	50	80	140	220	
Power	W	160	170	200	340	
Fan Flow rate	m ³ /hr	575	860	1500	2300	
Noise	dB(A)	62	73	76		
Weight	Kg	9.5	20	30	45	
Dimensions	L	mm	330	311	480	620
	B	mm	90	106	155	230
	H	mm	800	1250	1260	1275

AAH 050



Industrial Cooler - Top Mount

Suitable for Plasma/Gas cutting machine panel cooling. It will be installed on top side of panel.

Model	PAC	045T	060T	090T	135T	200T	300T	
Cooling Capacity	W	525	700	1050	1570	2320	3450	
Power input		1Ph/ 230V / 50 Hz						
Power	W	325	350	750	900	1400	1750	
Refrigerant	R	R134a				R22		
Weight	Kg	29	30	42	70	76		
Dimensions	L	mm		500		604		900
	B	mm		355		428		710
	H	mm		360		456		425

PAC045T



* Please contact us for detailed specification and panel cut-opening dimensions.

Water Chiller

Cools the critical components of machine to enhance the productivity. Laser head, Mould & EDM coolant cooling.

Model	WCB	003	005	007	010	015	020	025	030
Cooling Capacity	kW	1.05	1.7	2.5	3.5	5.26	7	8.8	10.5
Power: Ref.system	kW	1	1.2	1.5	1.7	2.3	3.1	3.6	4.8
Pump	kW	0.2	0.35		0.4				
Required flow rate	l/min	5	10		20		30		
Water In/out size	inch	½" x ½"				1" x 1"			
Weight	Kg	40	58	65	75	175		225	
Dimensions LxBxH	mm	700 X500 X 800				924x754x851			
Tank capacity	lit	20				50			

WCB040



Water Chiller

Higher capacity system - Centralized cooling system for all kind of industry.

Model	WCB	040	050	065	075	085	100	125	150
Cooling Capacity	kW	14	18	23	26	30	35	44	53
Power : Ref.system	kW	6	7	8.5	9.1	12	13	17	20
Pump	kW	0.4	1		1.02		1.56		
Required flow rate	l/min	50		65	85		100	130	160
Water In/out size	inch	1" x 1"				1 ½" x 1 ½"			
Weight	Kg	250	300		400		650		
Dimensions LxBxH	mm	804 x 1024 x 1251			2000 x 1100 x 1500		2200x1000x1883		
Tank capacity	lit	100			100		150		

WCB100



Oil Chiller

Hydraulic, spindle & coolant oil cooling, ensures accuracy of Job within the limit by keeping constant temperature.

Model	OCB	003	005	010	015	020	030	040	050
Cooling Capacity	kW	1.05	1.74	3.5	5.26	7.01	10.5	14	17.5
Power : Ref.system	kW	1	1.2	1.7	2.3	3.1	4.8	7.1	7.2
Pump	kW	0.1	0.35		0.8		1.5		
Required flow rate	l/min	10			30	40	55	75	95
Weight	Kg	40	58	75	175		225	250	300
Dimensions LxBxH	mm	700 X 500 X800			924 X 754 X851		804x1024x1251		
Tank capacity	lit	20			50		100		
Power input		3Ph/ 415V / 50 Hz							

OCB020



Thermoelectric Cooler

Cooling without compressor and refrigerant, suitable for small sensitive panels like Robotics, laser and CNC system.

Model	TEC	030	075	150
Cooling Capacity	W	30	75	150
Operating voltage	v	24V DC		
Power	A	2.1	3.8	7.6
Operating temp	°C	-10°C to+60°C		
Weight	Kg	1.7	5.7	11
Dimensions	L	mm	230	247
	B	mm	119	204
	H	mm	151	145

TEC 075



* Design and specification are subject to change without prior notice.



...Whatever the application

Our many years of experience from across varied industries such as cooling of complex machine tools & machining centers, Control panel, lubrication system, wood working machines, welding system, plastic injection moulding, die casting, packaging machines, Plasma/laser sources for marking/cutting machines, Textile processing, RF valve,... etc. Our engineering team is constantly developing and improving cooling technology.

....we give a solution

ZAAP COOL precision cooling system are designed and built by most experienced engineers in the industry, using proven, environmental friendly components, which are energy efficient, low-noise, reliable cooling system for your requirements.

.....customized service

In order to ensure trouble free functioning of your system, we offer a broad range of service facility besides sales, which are fast and individually tailored to your company's requirements.

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