



### ...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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# Thermal Management



Panel Air Conditioner  
Process Chiller  
Heat Exchanger





## Panel Air Conditioner - Face Mount

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

060F	090F	135F	200F	300F
700	1050	1570	2325	3500
1Ph/ 230V / 50 Hz				
350	750	900	1400	1750
R134a				R22
24	35	43	64	68
340	380	425	425	
265	270	240	290	
455	650	1000	1250	

Model (PAC)	
Cooling Capacity	(w)
Power input	
Power	(w)
Refrigerant	
Weight	(kg)
Dimensions	L (mm)
	B (mm)
	H (mm)

## Panel Air Conditioner - Top Mount

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

060T	090T	135T	200T	300T
700	1050	1570	2325	3500
1Ph/ 230V / 50 Hz				
350	750	900	1400	1750
R134a				R22
25	32	42	70	76
500	600		800	
355	425		455	
360	450		540	

(AWC) Model (AAH)	
Cooling Capacity	(w)
Power	(w)
Air Flow rate	(cfm)
(lpm) Water Flow / Max. Temp (°C)	
Weight	(kg)
Dimensions	L (mm)
	B (mm)
	H (mm)

## Air Air Panel Cooler

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

050	080	140	220
50/°k	80/°k	140/°k	220/°k
116	170	200	340
340	500	880	1350
+55°C			
12	20	30	45
315	310	480	620
90	100	155	230
780	1250	1260	1275

## Air Water Panel Cooler

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

060	090	200	300	450	600
700	1050	2325	3500	5250	7000
60	80	100	150	240	550
200	275	450	600	700	850
4	4	7	10	15	20
10	15	20	22	30	50
300	390	420		420	800
100	200	200		200	400
470	650	750	1000	1800	

## Water Chiller

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

005	010	015	020	030
1.75	3.5	5.25	7	10.5
1.2	1.75	2.3	3.1	4.8
0.35		0.4		
5	10	20		30
½" x ½"		1" x 1"		
58	75	175	225	
520 x 700 x 810			920 x 750 x 850	
20			50	

Model (WCB)	
Cooling Capacity	(kw)
Power: Ref.system	(kw)
Pump	(kw)
Required flow rate	(l/min)
Water in/out size	(inch)
Weight	(kg)
Dimensions	LxBxH (mm)
Tank capacity	(lit)

## Water Chiller

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

040	050	075	100	150
14	17.5	26	35	53
6.5	7.2	9.5	13	20
0.4	1	1.02		1.56
50		85	100	160
1" x 1"			1 ½" x 1 ½"	
250	300	700		900
1000 x 800 x 1300		1100 x 2000 x 1600		1000 x 2200 x 1880
80		100		150

## Oil Chiller

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

010	015	020	030	050
3.5	5.25	7	10.5	17.5
3Ph/ 415V / 50 Hz				
2.05	3.1	3.9	5.6	8.7
15°C to 45°C				
75	175		225	300
520	920			1000
700	750			800
810	850			1300

(OCB) Model (TEC)	
(kw) Cooling Capacity	(w)
Operating voltage	
(kw) Power	(w)
Operating temp	(°C)
Weight	(kg)
Dimensions	L (mm)
	B (mm)
	H (mm)

## Thermoelectric Panel Cooler

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

030	075	150
30	75	150
24V DC		
48	62.4	144
-10°C to +60°C		
1.7	5.5	11
230	250	400
120	200	250
150	150	150

