MOLD AREA PROTECTION

- Cooling System with Chiller -

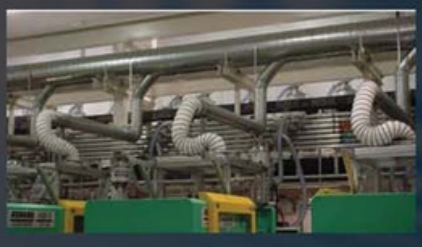
KEY FEATURE :

-Increase productivity

-Improve product quality

VICH

MOLD AREA PROTECTION
FOR INJECTION &BLOWING



Controlled by PLC
(Programmable Logic Controller)

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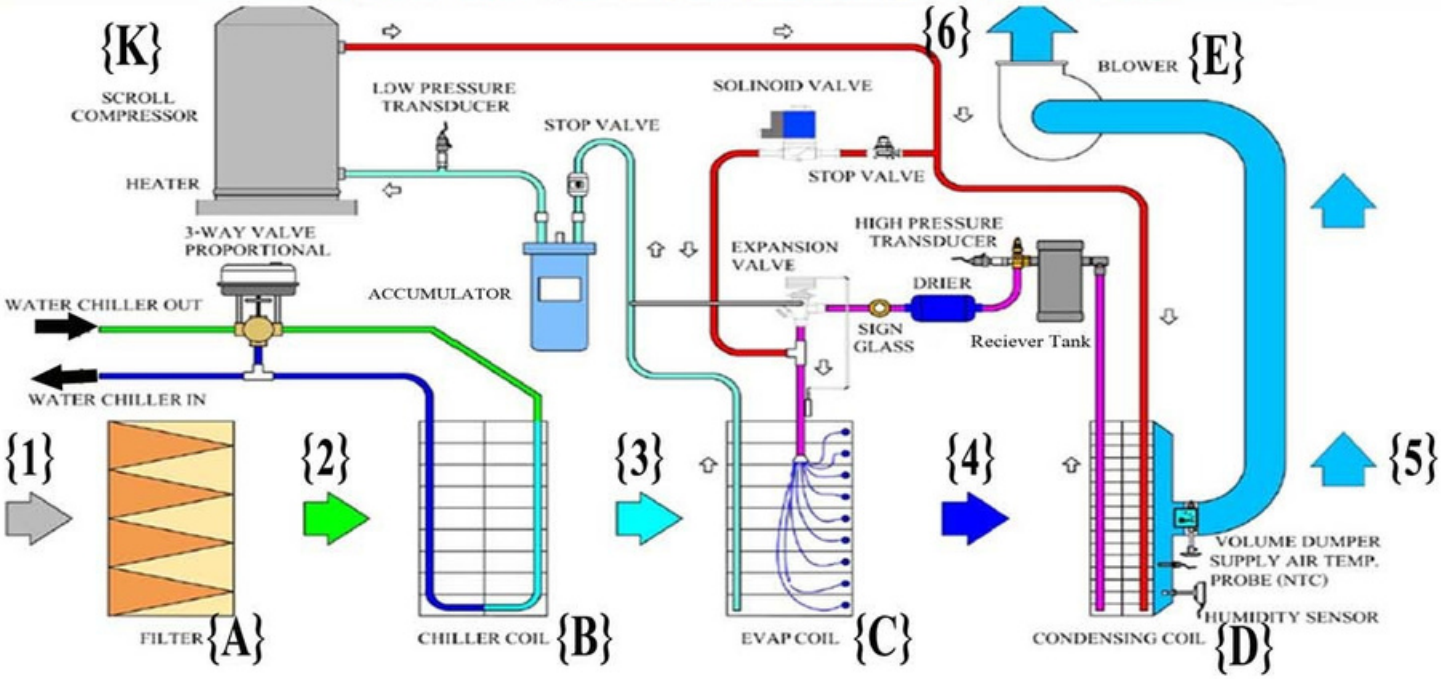
PHYSICAL DATA & ELECTRICAL DATA



Ambient air {1} is sucked into the unit through a filter {A} and the filtered air {2} is chilled in to steps. The first step takes place in the chilled water heat exchanger {B} and the pre-cooled air {3} then enters the heat exchanger of the integrated refirgerantion circuit {C} to be cooled down to a temperatureof 37F {4}. A large amount of the moisture contained in the air is seperated in both coolers due to condensation and is collected in a tray {G} . The water is then pumped out of the unit by the pump {F} The compressor {K} takes the heat from the evaporator {C}and pumps it in the condensor {D} at high temperature. The chilled air now passes through the condenser and warms up a temperature of 75 C {5} before it leaves the unit {6} to a dry air duct work through the centrifugal blower {E} . The filtered dry air is distributedinside and isolated cabin containing the mold s of the processing machine.

	MAP-400	MAP-700	MAP-1200	MAP-1500	MAP-2500	MAP-3500
Maximum air flow rate (cfm),(M3/min)	400(11.2)	700(19.6)	1200(33.6)	1500(42)	2500(70)	3500(98)
Minimum air flow rate (cfm),(M3/min)	200(5.6)	300(8.4)	500(14)	700(19.6)	1200(33.6)	1900(53.2)
Air outlet diameter (inch)	6	12	12	12	16	16
Chilld water load at 40C (105 F), 80% r.h. (tons)	6.20	12.40	18.6	24.80	41.30	59.00
Water flow rate (gal/min)	7.93	15.85	23.775	31.70	53.90	76.10
Chilld water load at 35C (95 F), 80% r.h. (tons)	4.40	8.80	13.2	17.60	29.40	42.60
Water flow rate (gal/min)	5.70	11.40	17.1	22.80	38.60	54.70
Chilld water load at 29C (85 F), 70% r.h. (tons)	2.95	5.40	7.85	10.30	18.00	25.80
Water flow rate (gal/min)	3.50	7.10	10.7	14.30	23.50	33.30
Chilld water load at 25C (77 F), 60% r.h. (tons)	1.55	3.10	4.65	6.20	10.40	14.70
Water flow rate (gal/min)	2.00	4.00	6	8.00	13.50	19.00
Chilld water load at 68 F, 50% r.h. (tons)	1.05	2.10	3.15	4.20	7.00	10.00
Water flow rate (gal/min)	1.45	2.80	4.15	5.50	9.30	12.90
Water conrections (inch)	3/4	3/4	3/4	1 1/4	1 1/2	2
Max. Condesation water flow (gal/min)	6.60	13.20	19.8	26.40	44.10	61.60
Width (inch),(mm)	55(1400)	62(1600)	70(1800)	78(2000)	86(2200)	94(2400)
Depth (inch),(mm)	62(1600)	62(1600)	62(1600)	62(1600)	62(1600)	62(1600)
Height (inch),(mm)	55(1400)	55(1400)	55(1400)	55(1400)	55(1400)	55(1400)
Weight: (lb),(Kg)	1023(465)	1408(640)	1793(815)	2178(990)	3014(1370)	3568(1630)
Irstalled power (kW)	3.70	4.70	5.7	6.70	8.80	10.80
Max . Power consumption (kW)	2.30	3.20	4.1	5.00	8.50	10.00
Electrical power supply		380V/3/ 50 Hz				