



PLC. Controllers



- State of Art Design
- With Pre-cooling System
- Heavy Duty
- Suitable for High Temperature
- High quality Efficiency
- All branded Components
- 50 cfm. -3000 cfm. Range

MASTERGOOL

The results in loss of efficiency and material, and increase downtime. Moisture is usually the single major cause of unnecessary costs to compressed air systems. The cost of drying air is must lower than the damage caused by moisture. Thus, clean, dry compressed air is essential for effective working of any pneumatic systems. The only positive means of removing moisture from compressed air, i.e. completely drying air, is to install an air dryer. Compressed air can be dried by to methods









Housing: self extinguishing ABS

Front protection: IP 65
Power supply: 230vac 50Hz
Power absorption: 3VA max

Display: red LED. Input: NTC probes

Relay output: up to 3 relay 20(8)Amp,16(5)Amp,8(3)Amp; 250Vac

Data storing : EPROM memory Operating temperature : 0-60°C Storage temperature : -25-60°C

Relative humidity: 20-85% (non Condensing)

Accuracy: better than 1% of F.S.



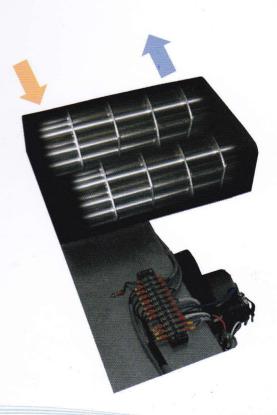
The probes with NTC thermistor are designed for applications where high accuracy and short response time is important. The probe passes several tests, this is why we guarantee a very high reliability. The temperature range is -40 - 110°C (-40 - 230°F).

Pneumatic section

The moist compressed air (dirt, oil and water vapor) enters into the Air/Air Heat Exchanger where it is pre cooled by the outgoing air and thereby conserving energy.

The compressed air next passes through the evaporator, which is of tube in tube construction. It is cooled up to +3°C by the Refrigerant. At this subcooled temperature, the moisture present in the air is condensed and removed by the De-mister.

The cool saturated air passes through the Air to Air Heat Exchanger where it pre cools incoming air and it gets heated up. Thus this system provides clean dry air at the Outlet. Efficient Filter and Automatic Drain Valve carry out the removal of moisture at every stage. The Heat Exchangers are designed in such a way that they are self-cleaning to maintain the constant heat transfer rate.



REFRIGERATED AIR DRYERS

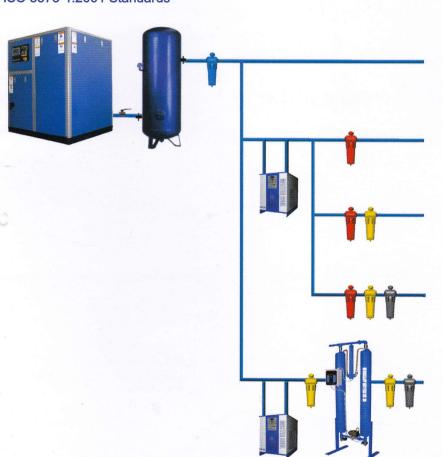


Refrigeration section (Freon)

The Evaporator is of tube in tube construction. The heat removed from the system is dissipated to the atmosphere/water by the condenser. The high pressure refrigerant flows into the expansion valves where it changes into liquid phase at low pressure. The boiling of liquid refrigerant takes place in Evaporator and cold dry air leaves from the Evaporator. Thus cold air leaves from the Evaporator. The low pressure, low temperature refrigerant passes into the compressor and the cycle repeats. The Refrigeration Dryer senses the Refrigerant suction pressure and accordingly varies the flow of Hot Gas Bypass inside the system and maintains constant Dew point at various heat loads.



ISO 8573-1:2001 Standards



Cleaning casting machines. Solder machines and parts.

Precision industries. electronics and pneumatic tools.

Equipment static coating pneumatic bearing.

Food and beverage. Processing and air-source for breathing air packaging, paint spray or print, pneumatic meter

Foodstuff industries drug industries, string and drying chemical dispensing devices, fermentation industries, computer room

Quality classes	Solid	Particle maximum r of particles per m ²	Max pressure Dew point	Max oil content including oil vapour mg/m³		
	0.1-0.5 micron 0.5-1 micron		1.0-5 micron			
1	100	1	0	-70 (0.3)	0.01	
2	100000	100	10	-40 (16)	0.1	
3	-	10000	500	-20 (128)	1	
4		-	1000	+3 (940)	5	
5		-	20000	+7 (1240)		
. 6	g -	-	-	+10 (1500)		

Specification



Model	Connect	Air flow		Voltage	Dimension			
Wiodor	inch	m³/min	cfm	volt	Billionalon			
DTM 103*	3/4"	1.4	50	1-230-50	500 x 600 x 600			
DTM 153*	3/4"	1.8	64	1-230-50	500 x 600 x 600			
DTM 203* '	1"	2.9	102	1-230-50	500 x 600 x 650			
DTM 303*	1"	4.4	155	1-230-50	500 x 600 x 650			
DTM 403*	1"	5.6	198	1-230-50	550 x 800 x 770			
DTM 503*	11/2"	7.3	258	1-230-50	550 x 800 x 770			
DTM 603*	11/2"	9.1	321	1-230-50	550 x 800 x 770			
DTM 753*	2"	11.4	403	1-230-50	600 x 950 x 950			
DTM 1003*	21/2"	15.6	551	1-230-50	600 x 950 x 950			
DTM 1253*	21/2"	18.6	657	1-230-50	600 x 950 x 950			
DTM 1503	3"	- 22.1	781	3-400-50	800 x 1200 x 1200			
DTM 1803	3"	27.3	965	3-400-50	800 x 1200 x 1200			
DTM 2203	3"	30.7	1085	3-400-50	800 x 1200 x 1200			
DTM 2703	3"	40.7	1438	3-400-50	800 x 1200 x 1200			
DTM 3403	4"	47.3	1672	3-400-50	800 x 1200 x 1700			
DTM 4003	4"	53.5	1891	3-400-50	800 x 1200 x 1700			
DTM 5003	4"	62.2	2198	3-400-50	800 x 1200 x 1700			



Data refer to the following

Normal condition: Ambient temperature of 35°C, with inlet air at 7 bar and 3°C pressure dew point (-22°C atmospheric pressure dew point) Max working condition*: Ambient temperature 45°C inlet air temp 80°C and inlet air pressure 13 bar

Correction factor for ambient temperature change		46341					
Ambient temperature °C	30	32	35	38	40	42	45
Factor(F1)	1.11	1.06	1.00	0.96	0.92	0.88	0.84

Correction factor for air inlet temperature change									
Air inlet temperature °C	40	45	50	55	60	65	70	75	80
Factor(F2)	1.09	1.00	0.93	0.90	0.87	0.84	8.0	0.76	0.7

Correction factor for pressure change									
Working pressure kg/cm ²	4	5	6	7	8	9	10	11	13
Factor(F3)	0.70	0.82	0.92	1.0	1.03	1.06	1.09	1.12	1.16

^{***}Dryers maximum air flow = Dryers air flow x F1 x F2 x F3 ***



บธิษัท แอร์พลัส เอ็นจิเนียธิ่ง จำกัด AIR PLUS ENGINEERING CO.,LTD.

249, 251 ซ.พระยามนธาตุฯ แยก 17 แขวง/เขตบางบอน กพม. 10150 249, 251 Soi Prayamonthatu Yeak 17, Bangbon, Bangbon, Bangkok 10150

Tel. 02-496-3237-40 Fax. 02-496-3241 www.airplus.co.th จำหน่าย : อะไหล่ปั้มลมทุกยี่ห้อ, อุปกรณ์นิวเมติก, เครื่องปั้มลม, น้ำมันปั้มลม ช่อม : ช่อม - เช่า เครื่องปั้มลม, ช่อมแอร์ดายเออร์ ทุกยี่ห้อ, ติดตั้งท่อลม