Data Center

Thermal Solution Research Instrument

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Long Win Science & Technology Corporation

Headquarter in Taiwan

LW-9120 AMCA 210 Wind Tunnel

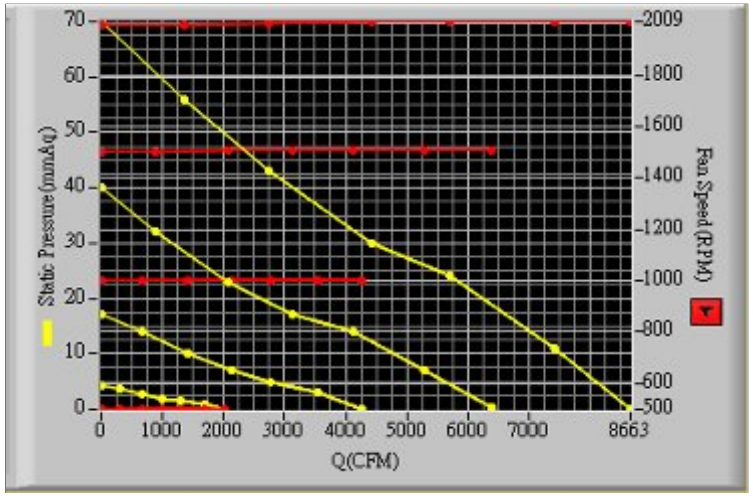
Airflow rate:
40~5000CFM

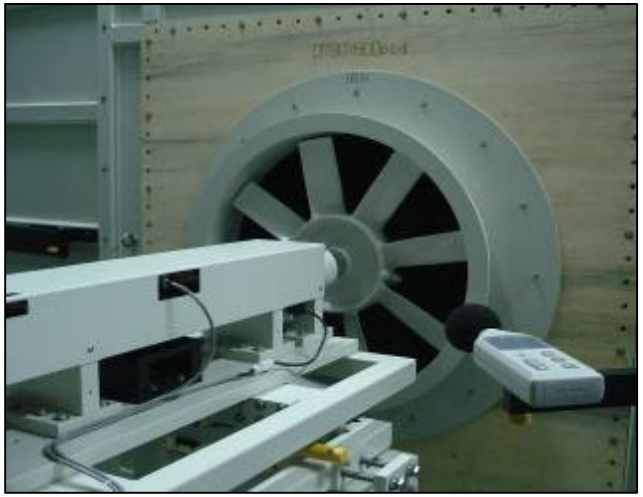
Static Pressure:
0~150 mmAq

- Fan Performance Test
- System Resistance Test
- Rack System Airflow Test

Fan Aerodynamics Performance Test

2000 RPM			
P_{STP}	Q_{STP}	Torque	N
mmAq	CFM	N-m	RPM
72.25	0.00	10.22	1995
57.72	1369.73	9.30	1999
44.26	2728.86	8.52	2003
30.84	4420.32	7.86	2006
24.66	5700.39	7.97	2006
0.06	8662.61	7.26	2009





Temperature Controlled Airflow

(with AMCA 210 wind tunnel)

Heating Capacity: 30kW-hr

Heat Exchanger Performance Test

Chiller for Liquid Cooling

Cooling Capacity: 30000 kcal-hr

Steam and Water Heating Device

Steam Generator:

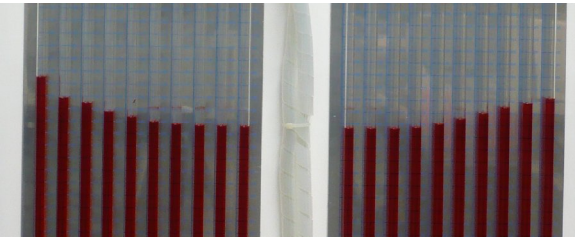
36kg/hr-water

Heating Capacity:

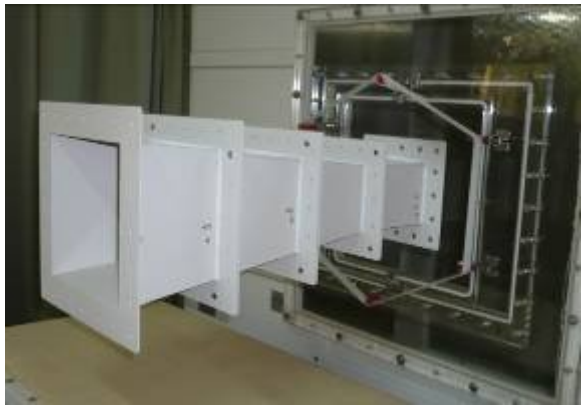
24kW-Hr

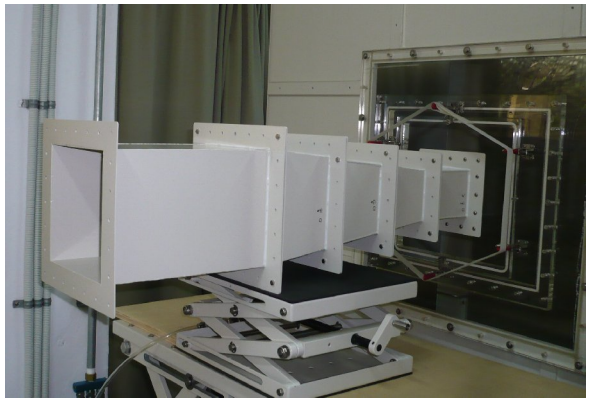
Channel Pressure Drop Research

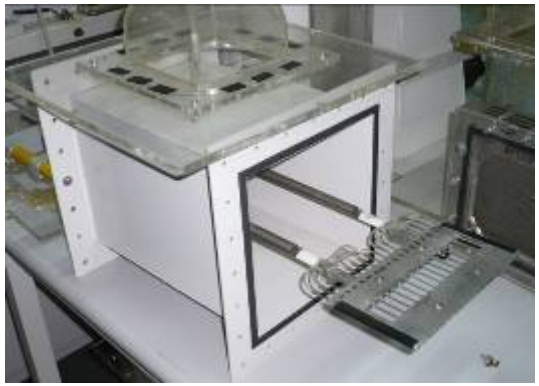
(with AMCA 210 wind tunnel)

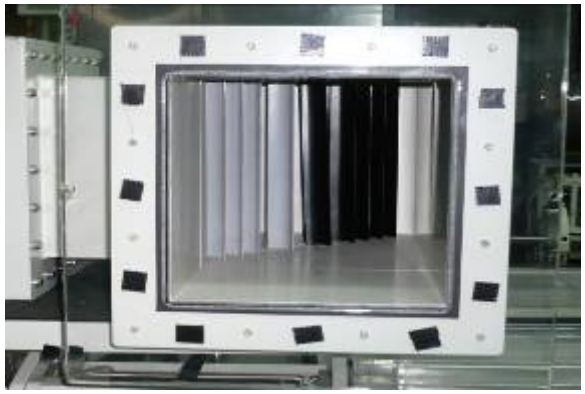


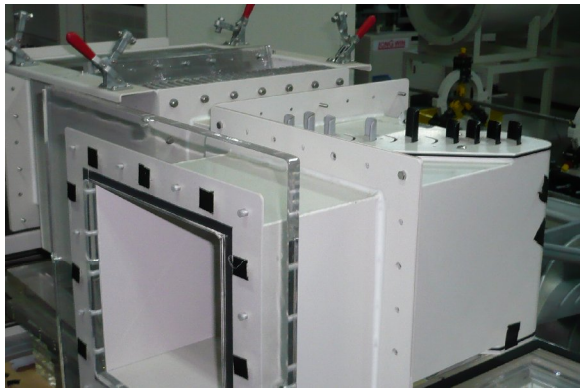
1. Straight
2. Bend
3. Converge
4. Diverge











LW-9560 Walk-in Chamber

Dimension: 3 x 3.6 x 2.4(H) m

LW-9560 Walk-in Chamber

Control Conditions:

1. System Airflow
2. Room Temperature
3. Outlet Airflow Location

Control Panel

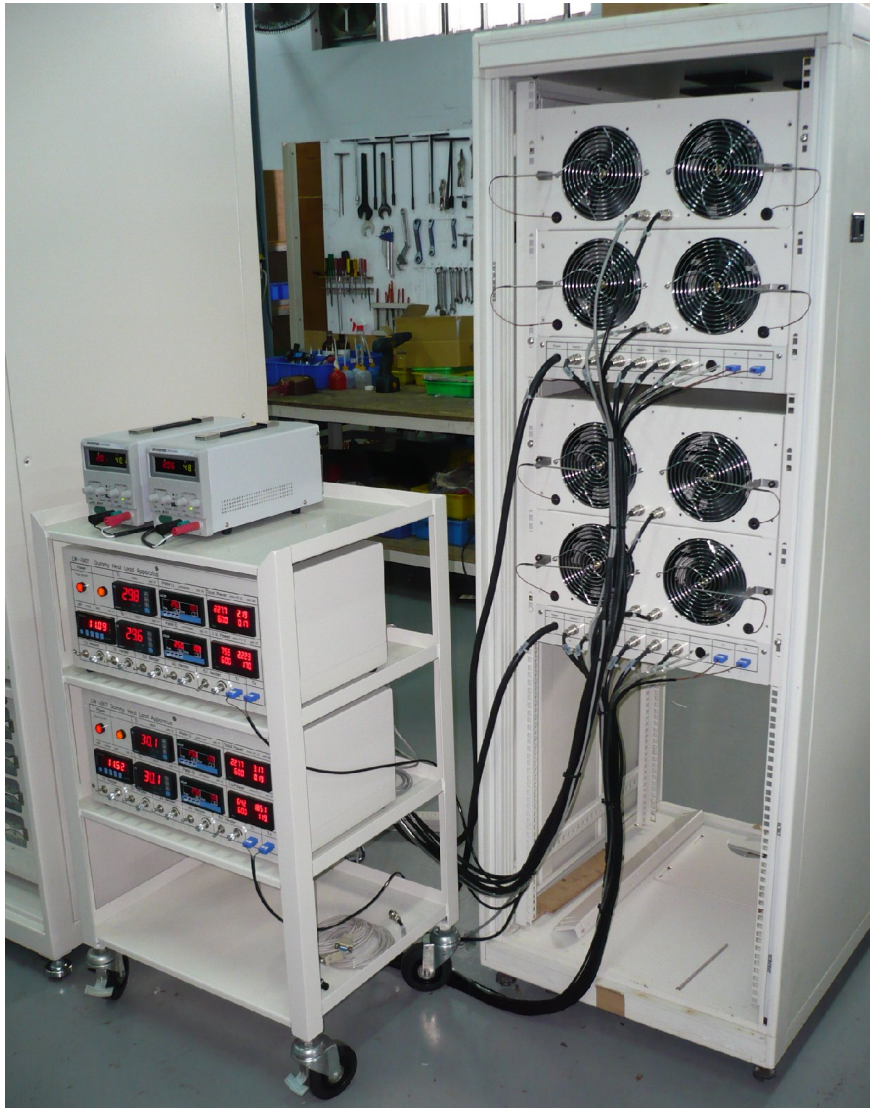
LW-9561 42U Heat Load Dummy Rack

26.4 kW / Rack
PC-based control

LW-4907 10U Heat Load Dummy Server

6.6 kW / 10U Server
PC-based control

1. Heating Power
2. System Airflow



Thank You!