

**MIRACO - CARRIER
MANUFACTURING PLANT
& EQUIPMENTS LAYOUT**

Factory Introduction

Built in: 1976

Factory Area

Site: 969,000 sq.ft

Mfg. facility: 315,150 sq.ft

Warehouse: 196,751 sq.ft

Office:

1550 Total Employees

391 hourly / 476 salary

Production Lines: 12

Number of Shifts: 1 to 3

Total Production Units: 409,374

Total Sales in 2010 : 1.283 Billion EGP



ISO 9001 Quality certified, from Dec 1995

ISO 14001 Safety certified, from Jan 2007

ISO 18001 EH&S certified, from Mar 2009



Engineering Building

Manufacturing Workshops

Warehouses

Parking

Office Building

Miraco Advanced Manufacturing Techniques To Ensure Quality In Tube Manufacturing



Miraco Advanced Manufacturing Techniques To Ensure Quality In Coil Manufacturing



Miraco will have a New Japan FIN DIE by Oct. 2011, same as China.



Miraco Advanced Manufacturing Techniques To Ensure Quality In Sheet Metal Manufacturing



CNC



Miraco Advanced Manufacturing Techniques To Ensure Quality In Painting Manufacturing



Miraco Advanced Manufacturing Techniques To Ensure Quality In Coils Manufacturing (100% Helium Leak Tested)



Vacuum Helium Camber test



Miraco Advanced Manufacturing Techniques To Ensure Quality In Assembly Lines of RLC Outdoor Units



R410a production line to be available by July. 2011

Miraco Advanced Manufacturing Techniques To Ensure Quality In Assembly Lines of High Wall Indoor Units



Miraco Advanced Manufacturing Techniques To Ensure Quality 100% **End of Line Testing** of Each RLC Outdoor Unit



Invest 10million EGP to establish 5 End line test rooms. 100% test required.

5minutes operation test
(2min. HP, 3min. CO)

Performance data check:
Current, Pressure, Temp.
difference.

8L Turbo Vacuum pump
circle operation.

Miraco Advanced Manufacturing Techniques To Ensure Quality End of Line Testing of High Wall system



Miraco Advanced Manufacturing Techniques To Ensure Quality End of Line Testing of High Wall system



Miraco Advanced Manufacturing Techniques To Ensure Quality End of Line Performance Testing of High Wall system



Miraco Advanced Manufacturing Techniques To Ensure Quality End of Line Testing of High Wall outdoor Units



Safety Test

Miraco Advanced Manufacturing Techniques To Ensure Quality End of Line Sound Testing of High Wall Indoor Units



Miraco Advanced Manufacturing Techniques To Ensure Quality In Assembly Lines of Commercial Products



Miraco Advanced Manufacturing Techniques To Ensure Quality In Assembly Lines of Refrigeration Products

