

### Building Type

Retail

### Size

55,000 m<sup>2</sup> retail space

### Project Highlights

- DX systems for optimal system efficiency.
- Pre-cooling of ventilation fresh air by total enthalpy heat exchangers with DX dehumidification coils.
- 10°C Water for fish cleaning & vegetable wash areas.
- ELV systems
- Standby power generation.

### Architect / Client :

BSBG / MBRE



The Aswaaq town centers located at Al-Mizhar and Nad Al Hamar areas of Dubai are "mini-malls" providing neighborhood supermarket & retail facilities to these two communities.

Guided by Aswaaq facility managers the need for highly economic, efficient and reliable MEP systems to International Standards, engineered, designed & their installation supervised by Mario Associates.

The Nad Al Hamar site being approx half of the Al-Mizhar project which required a total of 76 ducted split units and 13 roof top package units ranging from 8 to 54 kW capacity providing over 72,000 l/s of conditioned air to the space.

The MEP design of Mario Associates permitted individual retail tenant metering for all energy (including for space cooling) used; space temperature & humidity levels variation requirements of the supermarket area to be met; redundancy with diversity on utility availability; inexpensive & rapid maintenance for minimal downtime.

