



New Passenger terminal building at Muscat International Airport – Oman

The new Muscat International Airport - designed to the latest state-of-the-art technology, but still with an authentic Omani touch - is a symbol of the modern state.

The new passenger terminal building at Muscat International Airport will be the future gateway to the Sultanate of Oman. This facility will have capacity to handle 12 million passengers per annum (MPPA). The new airport is designed as ICAO category 4F airport. Runways have been designed to enable independent parallel operation even of the world's largest aircraft, the Airbus A380.

The passenger terminals are designed to the latest state-of-the-art technology and in accordance with IATA Service Level A standard.

The total gross area for the new Muscat International terminal building is 580,000 m² with an overall airport land area of 21 km². Further expansions are already being planned for Muscat International airport in three subsequent phases, ultimately boosting the airport's capacity to first 24, then 36 and finally 48 MPPA.

Application

The project is benefitted with the key feature of self-balancing of the PICVs and ABVs, which significantly has reduced the installation time due to no requirement of parent balancing valves in the system. Moreover, the commissioning time for the chilled water system has been reduced significantly. In addition, the project is benefitted by maintaining design delta T, due to no overflow though PICVs, even at part load conditions.

Project configurations

FlowCon is the sole supplier of PICVs and ABVs.

Project Management: ADPI, Muscat

Consultant: Hill International, Muscat

Contractor: Bechtel-ENKA-Bahwan Engineering Company - Joint Venture

Project name: MC-3 Passenger Terminal Building (PTB), Muscat

Configuration of building: AHUs + Precision Air-conditioning units + FCUs + Plate heat exchangers

Number of valves: +3000 valves

Valve model:

PICV: FlowCon Green and FlowCon SM incl. fail-safe actuators

ABV: FlowCon E-JUST (adjustable) and FlowCon AHU + Wafer (factory pre-set)

Configuration: PICVs on AHUs and FCUs and ABVs on Plate heat exchangers

Types of application: New building

Date of inauguration: March 2018.



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