

R&S®MX400 Mobile Tower For ATC and air defense

The R&S®MX400 provides all ATC equipment needed for rapid, safe and reliable ATC operation. It is a completely self-contained system designed for quick installation and for long-term deployment under adverse weather conditions.



The system consists of a two-axle trailer with an integrated lifting mechanism and a detachable ATC cabin. A separate one-axle trailer with a diesel generator provides power for airfield operation wherever and whenever required. The entire system can be towed by any suitable truck. The cabin, built as a full-featured ATC system, is equipped in line with the operational requirements of ICAO.

Overview

The basic equipment consists of the following:

- Up to three controller working positions
- Voice communications system VCS with interfaces to
 - radio system
 - phone (land lines and mobile)
 - network access
- VHF or VHF/UHF radio communications systems
- VHF/UHF guard receiver for the international distress frequencies
- HF radio communications systems (voice and data)
- Digital multichannel voice recorder
- Meteorological system
- Radar display
- GPS-based time reference system
- Split air-conditioning system for worldwide usage
- Filing cabinets for supplies and equipment
- DC power supply system with backup batteries for emergency operation
- Complete accessory package
 - signal light gun
 - fire extinguisher
 - binoculars
 - obstruction lights
 - crash alarm, etc.

System layout

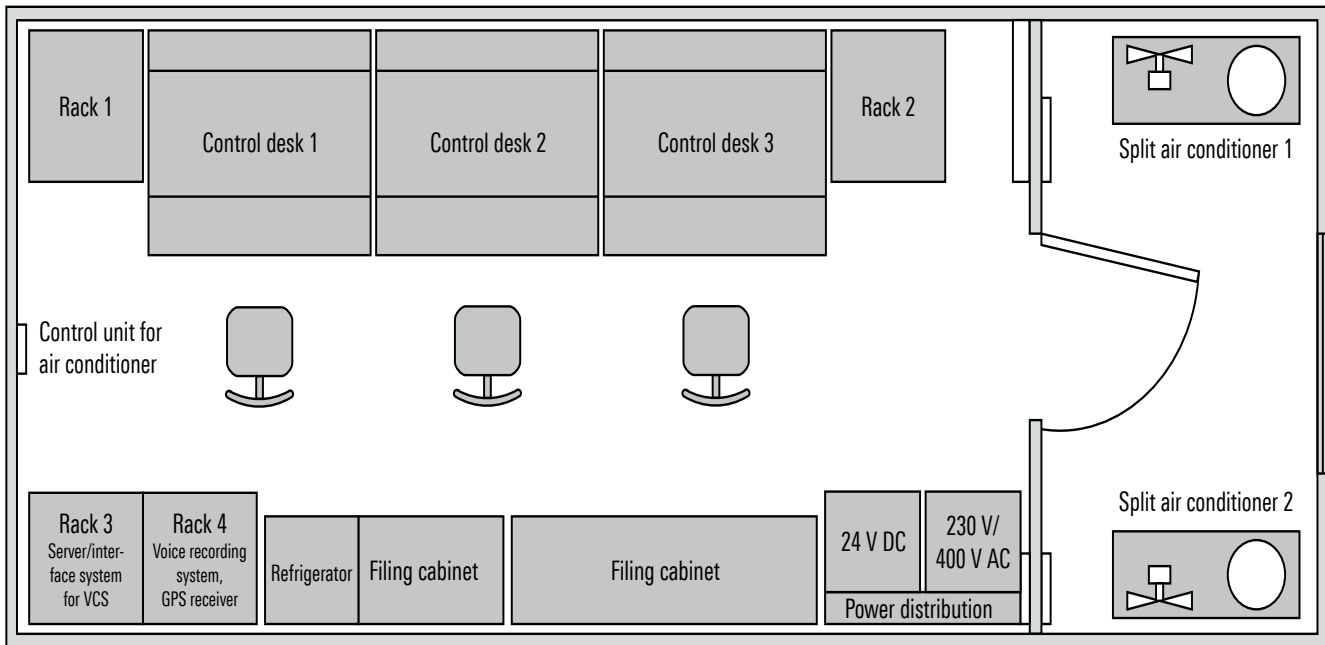
A special lifting mechanism on the two-axle trailer is designed to lift the cabin to the operational height of 6.5 m above ground (working position). An automatic levelling system ensures that the entire mobile tower can be set up in balance easily. The R&S®MX400 can be operated worldwide in all climatic zones.

The dimensions of the detachable ATC cabin comply with the international standard for 20-foot ISO containers, which allows problem-free transport by ship, truck, aircraft, helicopter or rail.

The power supply of the entire mobile ATC tower can be either a landline AC source or a diesel generator. The generator is designed to operate on standby, i.e. it will be started automatically when the local power supply fails.

All system components are integrated in the tower cabin so that the system can be put in operation immediately after arriving on site (< 1 h). The R&S®MX400 mobile tower has a modular system design. The final system design will be tailored to meet the needs of the individual customers.

Example for interior cabin design



Cabin view with two operator desks.



R&S®M3SR radios integrated in R&S®MX400.

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