



THERME NORD BUCURESTI

COMPANY: FOHNN AUDIO
LOCATION: BUCHAREST, ROMANIA

Amid a plethora of palm trees and exotic plants, accompanied by the soothing sound of waves, visitors are transported to another world in Romania's newest attraction, the Therme Nord Bucuresti. The magnificent leisure complex, completed earlier this year, offers a range of attractions including an enormous wave pool, several water slides, various saunas (including a cinema sauna) and pool bars. Visitors can explore activities, such as water gymnastics and hydrotherapy, alongside more traditional bathing. The complex also has an event area for live music and entertainment, as well as a variety of restaurants, gift shops, a room with video game consoles, a planetarium and more. Built over a thermal spring, approximately 1,400-metres deep, which provides a constant source of warm water for the outdoor pool, the Therme Nord Bucuresti is one of the continent's largest spa and leisure pool complexes (also boasting Europe's largest retractable glass roof). The construction process has involved over 500 companies from 20 countries. Selecting and installing a sound system throughout this extensive visitor attraction has proved a substantial project in itself. The need for accurate reproduction of both speech and music - for safety announcements and information, background music and event sound - amid the toughest acoustic conditions, demanded a system that could deliver on a number of levels. Lead installers, Avisonik from Engen decided on loudspeakers from fellow South German colleagues, Fohhn

Audio.

The complex's main Galaxy area includes seven clusters of Fohhn Arc-Series loudspeakers. Principally designed for fixed installation / architectural use, this series offers a variety of compact full range / mid-high speakers that can be used for both large area and long distance coverage, as well as for more selective sound within limited spaces. Each cluster consists of two AT-66w 600W full range systems, plus a 300W AT-22w high performance system, used as a downfill. Both models are weatherproofed, making them ideal for use in open or damp environments. The systems are suspended, via mounting brackets, from special ceiling constructions. For added low frequency coverage, the clusters have been supplemented with a centrally flown, electronically steerable, vertical Focus Sub Array consisting of 14 compact 700W AS-31 subwoofers. Applied use of Fohhn's Beam Steering Technology, together with a cardioid arrangement, ensures that bass energy from the array is not inadvertently emitted onto the ceiling. This results in a quieter and more even overall sound.

More Arc-Series loudspeaker systems have been installed around the entrances and exits to the large water slides. These include two compact AT-09 200W systems, four slightly larger AT-201 300W systems and three lightweight but powerful AT-35 500W systems - selected for their outstanding speech intelligibility, acoustic efficiency and excellent dispersion character-

istics.

A total of 17 Fohhn DSP four-channel amplifiers - nine D-4.1200 and eight D-4.750 - are used to drive the Arc-Series loudspeaker systems.

The separate spa and thermal areas of the complex feature Fohhn's Linea LX line source speakers. Developed for long distance coverage and effective transmission of both speech and music in venues with demanding acoustics, these slender systems are also designed for subtle architectural integration. Hidden among the palm trees are several loudspeaker clusters, each comprising four LX-220 systems mounted on support columns. These provide subtle background music for guests. Additional LX-100 systems near the restaurant area add some extra high frequency coverage.

To ensure optical integration into the surroundings, all loudspeaker systems have been colour-matched to their respective areas using special RAL colours. Wiring up the system has also proved no mean feat, with over 10,000 metres of loudspeaker cabling required for signal transmission and power supply throughout the complex.

"We are delighted to have our systems installed in one of Europe's newest visitor attractions," says Fohhn Audio's Director of Sales & Marketing, Uli Haug. "It has involved some considerable planning for our colleagues from Avisonik GmbH, together with Fohhn specialists, but everyone is extremely pleased with the results." www.fohnn.com