



Sound Conducive to Exercise at Concordia University's Fitness Center



When Concordia University built the new EV Building, they debated what they could do with the basement. A fitness center for the University students seemed like the best use of this space. Opening in March 2007, Concordia University's Fitness Center sought out the best sound products to fit the environment. The University turned to Multicomtech Inc. and TOA Canada Corporation to help them fulfill their audio requirements.

Concordia University's Fitness Center had several distinct rooms/areas to be outfitted with sound. Each area had different requirements that had to be met ranging from soothing background music to loud, motivating, music and sound.

Multicomtech Inc. based in St. Laurent, Quebec specializes in multi-media, projection systems and audio. They are one of the main installers at Concordia University and also work on projects in corporate offices, educational environments, etc. With a company history of 7 years and staff with more than 20 years of multi-media experience, Multicomtech Inc. is no stranger to TOA Products.

Concordia University is a supporter of TOA Canada Corporation's products and has used them in other projects around the campus. Together with Multicomtech Inc. they decided that TOA's products would be the perfect fit for the fitness center. Concordia University wanted the system to be simple to use, and to be secure so that adjustments could not be made to the system. Multicomtech Inc. installed speakers, amplifiers and wireless products for each area to fulfill each distinct requirement.

The fitness center is divided into several rooms/areas. The main area in the facility required a comfortable setting with background music that creates an environment conducive to exercising. The facility had extremely high ceilings and was constructed of concrete blocks, and glass on all walls. This construction created high reverberation that had to be overcome. The ventilation in this room was suspended from the ceiling creating installation challenges because Multicomtech Inc. had to work around a lot of structural obstacles. Once the installation was complete, Multicomtech had to test the system several times to adjust the system to the room noise. Multicomtech Inc. decided on TOA's ceiling speakers powered with TOA's 9000 Series digital matrix mixer/amplifier. The F-122 ceiling speakers were chosen to combat the echo and the high ceilings because of the excellent dispersion that the speaker offers. Each speaker was mounted into a back can and flush mounted into the ceiling of the facility. The 9000 Series digital matrix mixer/amplifier is set up to allow only 4 control buttons, including volume, and allows an I-pod, tuner, or CD player to be plugged in. The rest of the system has been locked for security allowing only the office staff access to the amplifier to adjust the volume. The Yoga and dance studios have been set up with the same equipment to allow an enjoyable and relaxing workout.



The spinning room required music that was loud and could be heard over 20+ bikes, riders and the instructor. The ceilings in this room are very low with large air ducts. Again the University wanted a closed audio system with no access except for volume control on the I-pod, tuner or CD player. There is a wireless microphone system installed for the instructor to be heard over the music and noise of the bikes and participants.

The University also has a recreational room to host basketball, volleyball, etc games. This room required a durable system that had great sound. Multicomtech Inc. decided on TOA's HX-5 variable angle speaker for this application. The HX-5 is a durable speaker that can take a hit from a ball and still perform. The speaker has been mounted on the wall and angled towards the floor to combat the reverberation in this room.

Multicomtech Inc. took advantage of one of TOA's many product training seminars and found it to be a great opportunity to learn more about TOA's products. "TOA's technical product training seminar for the 9000 product, aided me in learning the physical programming of the 9000 Series family of products. This training was helpful in fulfilling the needs of Concordia University." stated André St-Pierre, Director of Services and System Integration at Multicomtech Inc.

Denis David, President of Multicomtech Inc. is impressed by TOA Canada Corporation's reputation. The product installation was very simple; the product is easy to use and fits the Fitness Center at Concordia University. "On this particular project, the quality of TOA product and their professional technical assistance was a great help to us. A special thanks to Arthur Bronstein (*Regional Sales Manager, Eastern Canada, TOA Canada Corporation*) who is always supportive of both Concordia University and Multicomtech Inc. Both the University and I are very satisfied with the installation, product and how well the product works in Concordia University's Fitness Center." explained Mr. David.