

## Northern Arena - Silverdale Pools, Auckland

### Scope of Work

Established in 2010, Northern Arena is an award winning, learn to swim and private fitness facility right in the heart of the Hibiscus Coast, Silverdale, Auckland.

With a combination of swimming pools, gym, group fitness classes and expert staff located on the North Shore of Auckland, it is just 25 minutes' drive from the Auckland Harbour Bridge.

The complex features:

- Pool hall with two learn to swim pools for toddlers and pre-teen children, and a seven-lane pool for next stage learning
- Pool hall with an 8 - lane pool for training and training for training and school sporting events
- Gymnasium areas covering weights, cycling machines studio, Cardio area, running machines area and 2 aerobics studios
- Pool area changing rooms and gymnasium area changing rooms
- Offices and Physiotherapy rooms

MHL successfully completed detailed design, supply and installation of the ventilation and heating equipment to the pools and gymnasium plus Air-conditioning to the office and physio areas.

### Project Highlights

Project Start: early - 2010

Project Finish: March 2011

Value: \$1.25M



### Engineering Features

- 500 kW - Air to water heat pump installation using pools exhaust air to provide hot water to heat the incoming air for the ventilation systems, as well as heat the 4 pools plus pre heat the hot water cylinder to all the amenities areas
- 380 kW - Back up natural gas boiler to the Heat pump
- 2 - Inlet fan chambers with fans & hot water coils serving each pool area
- 1 - Combined exhaust chamber with fans & refrigeration coils connected to the heat pump
- Supply and extract air fans to the aerobics studios and gymnasium areas
- Inverter Airconditioned to the Cycling