

CASE STUDY:
Avenir Centre

Industry:
Multi Sports/
Entertainment Arena



AVENIR CENTRE

LOCATION

150 Canada St,
Moncton, NB E1C 0V2

BUILDING SIZE

50,500 sq ft

ENGINEERING FIRM

MCW Consultants Ltd

BOILER PROFILE

3 – Dynaforce - (DRNH-3000) Fully Condensing Boilers complete with MBS protocol converter

FEATURES

3,000,000 BTU's of input and 2,835,000 BTU's output each

Lead-leg cascade control of 3 boilers

Each boiler has a 5:1 Turndown ratio

The boilers use 316L / 439 grade stainless steel counter flow, primary/secondary construction

Up to 99% thermal efficiency

Premix fiber mesh burner provides extremely low NOx emissions (less than 9ppm)



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The Avenir Centre is an 8,800 seat indoor multi sports arena in Moncton, NB. It opened in 2018 and serves as the home of the Moncton Wild Cats of the Quebec Major Junior Hockey League as well as the Moncton Magic of the National Basketball League. The centre replaced the Moncton Coliseum as the City's main indoor arena. The centre is named for Avenir Hearing a New Brunswick audiology company who has 11 clinics in New Brunswick.

Engineering Firm: MCW Consultants Ltd

MCW Consultants Limited were the mechanical engineers involved in the project. They are a fully integrated mechanical and electrical consulting engineering service company with more than a half century of consulting experience.

Camus Boiler Function:

The Camus boilers provide the primary heating for the entire Avenir Center. The boilers are monitored by the Building Management System (BMS), however, the on-board Sola controllers provide the Lead-Lag cascade control, which has built in "outdoor reset", enhancing the efficiency of the system.

