

A GRANDER VIEW

Kitchener | Ontario



THE CHALLENGE

Built in Kitchener, Ontario, A Grander View is a three-story, 2,150 square meter facility that is considered the most energy efficient office building in Canada. The building required an energy efficient HVAC system that would provide heating and cooling as needed.

THE SOLUTION

A Mitsubishi Electric Variable Refrigerant Flow (VMF) City Multi split system was installed, consisting of three rooftop heat pumps each connected to 20 fan coils. The system requires no water piping and minimal ducting. Refrigerant piping connects the fan coil units together in series and is used to transfer heating and cooling to the office spaces. The system is called variable flow since a varying amount of refrigerant is circulated, depending on how many fancoils units are calling for heating or cooling. An important element of the design of the system is the separation of ventilation from heating and cooling as these loads vary independently. Separate systems allow great indoor air quality even at times of part-load heating and cooling when the system is turned down to minimum airflow.

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