

A GRANDER VIEW

Kitchener | Ontario



THE CHALLENGE

A Grander View is the most energy-efficient office in Canada. At the heart of the design is a heating and cooling system known as a variable refrigerant flow (VRF) multi-split system. At A Grander View there are three rooftop heat pumps, each connected to 20 fancoil units. The system requires no water piping and only minimal ducting.

THE SOLUTION

Refrigerant piping connects the fancoil units together in series and is used to transfer heat and cooling to the office spaces. The system is called variable flow since a varying amount of refrigerant is circulated, depending on how many fancoil 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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