



## TOWER CENTRE

### HEATING, VENTILATION, & AIR CONDITIONING FACTSHEET

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**Address:** 115 and 131 – 9<sup>th</sup> Avenue SW, Calgary, AB

**General Description:** Tower Centre is one building of five in the Palliser Complex. It is a 262,500 square foot low rise multi use building. The west portion consists of 4 floors: the east portion is 5 floors. Parking is provided in the attached 1,398 stall Palliser Parkade.

**Mechanical Engineer:** Smith Andersen Engineering Ltd.

**General:**

- The building automation is Delta Controls, Enteliweb Operating System.
- Heating and cooling to the tenant spaces is provided by perimeter radiation throughout. West and East are separate zones and Variable Air Volume ("VAV") interior and exterior air boxes.
- All chillers were replaced between 2003 and 2008, annual efficiency testing and inspections for the boilers.

**Design Criteria:** The building's HVAC systems are designed to meet or exceed ASHRAE Building Code requirements. Central air distribution is provided by to 12 HVAC zones; 1 for each floor separated into West and East distribution. Floor air is distributed through VAV system located above ceiling.

**Filters:** MERV 13 bag filters. Bag filter changes are based on pressure drop over the filter bank averaging between 1-2 years depending on outdoor air quality.

**Heat:** Heat is supplied from a Central Plant with 4 Cleaver Brooks Steam boilers. Radiant Heat, Domestic hot water and Fan heating systems are converted from steam supplied from the Central Plant.

**Air Conditioning:** Cooling is provided from the Central Plant with 3 York chillers; two 900 ton and one 600 ton. Chilled water is pumped to Tower Centre

**Air Exchange:** Tower Centre Floor Air Exchanges will be up to 6 times per hour with a complete Outdoor air replacement every 90 minutes.

**Standard Hours of HVAC Operation:** 6:00 a.m. to 6:00 p.m. Monday to Friday



## **COVID-19 and HVAC**

Ventilation and filtration provided by HVAC systems can reduce the airborne concentration and risk of transmission through the air. However, even the most robust HVAC system cannot control all airflows and completely prevent the spread of the virus. Ventilation and effective airflow pattern is however a primary infectious control strategy. The filtration systems in Tower Centre are first class and at the high end of the MERV (Minimum Efficiency Reporting Value) rating system. With the warmer weather, our dampers are open to allow for maximum fresh outdoor air to dilute air contaminants that are generated by the building, its furnishings and its occupants that may potentially carry COVID-19.