

## NZTAP MANUFACTURER CASE STUDY



## MANUFACTURER BACKGROUND

Mitsubishi Electric Canada was established in 1979 as a subsidiary of the Mitsubishi Electric Corporation of Japan. Since then, we have been at the forefront of providing Canadians with unparalleled quality of heating and air conditioning technology, sales, installation and support.

MESCA HVAC Division is highly involved in sustainability initiatives and are members of the following organizations: CaGBC, CHBA Net Zero Council, Active House Canada, Passive Buildings Canada, EnerQuality Net Zero Technology Advancement Program, ASHRAE and HRAI.

## WHAT IS IT?

An ASHP is an appliance that has an exterior condenser and an interior fan coil to transfer heat from one space to another. It does this through the Vapour compression cycle aka the refrigeration cycle. The heat can be transferred from inside to out or outside to In.

At the heart of Mr. Slim heat pumps lies Variable Compressor Speed Inverter (VCSi) technology. Unlike conventional machines which only cycle between On and Off, VCSi systems detect changes in room temperature and readjust the compressor speed to provide heating or cooling as needed. This means the space maintains a consistent, accurate temperature for ultimate comfort, all while using only the minimum amount of power. By adjusting air conditioning capacity to run more efficiently, energy costs are reduced. Some of the features include:

- Up to 65% energy cost reduction over ERH
- Small foot print
- Up to 8 individual zones (per system)
- Improves air quality, reducing dust, mold and allergens
- Reduces humidity
- Quieter than a human whisper
- Modular
- Wireless remote controller and or touch screen display

# INSTALLATION

Systems are installed by the mechanical/HVAC contractor during mechanicals install stage. In Ontario this is installed by the mechanical/HVAC contractor. Trade certification is not a requirement in Ontario, but the HRAI does provide designer qualifications, recognized by the municipalities. MESCA will provide an extended warranty if the system is installed by a trade certified by Mitsubishi.

Industry HVAC training is provided by the HRAI. Individual builder training workshops will be provided by MESCA as part of this program.

# STANDARDS & CERTIFICATIONS

Meets all applicable Canadian standards, some models are ENERGY STAR certified.

# BENEFITS AND COSTS

From a cost standpoint, a heat pump system compared to an equivalent size modulating gas furnace with high efficiency a/c is going to be about 20% more.

- Better occupancy comfort with more system intelligence
- Constant airflow
- Ability for zoning a multi level home
- Combined heating and cooling system
- Decarbonization
- Energy Efficiency
- Can be run off grid



## CONTACT?

Do we want to provide contact info here