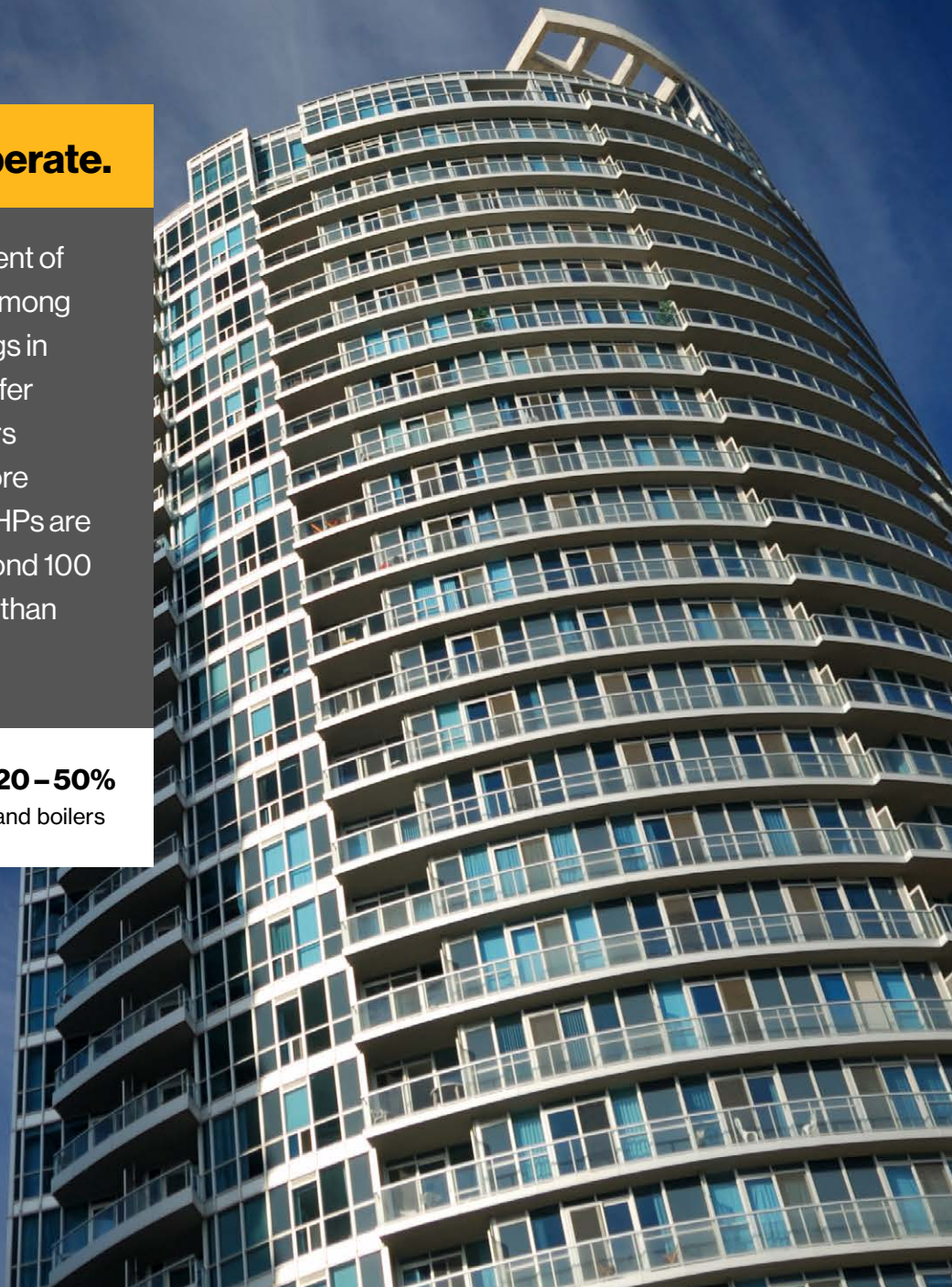
More comfort, less climate impact

Choose gas heat pumps for efficiency and lower operating costs

Easy to install, easy to operate.

Space heating accounts for 61 percent of greenhouse gas (GHG) emissions among commercial and institutional buildings in Canada.* Gas heat pumps (GHPs) offer an affordable way for building owners to take significant climate action. More efficient than condensing boilers, GHPs are designed to deliver efficiencies beyond 100 percent,† with lower operating costs than conventional natural gas systems.

Reduce GHG emissions by 20 – 50%
compared to natural gas furnaces and boilers



ENBRIDGE®
Life Takes Energy®

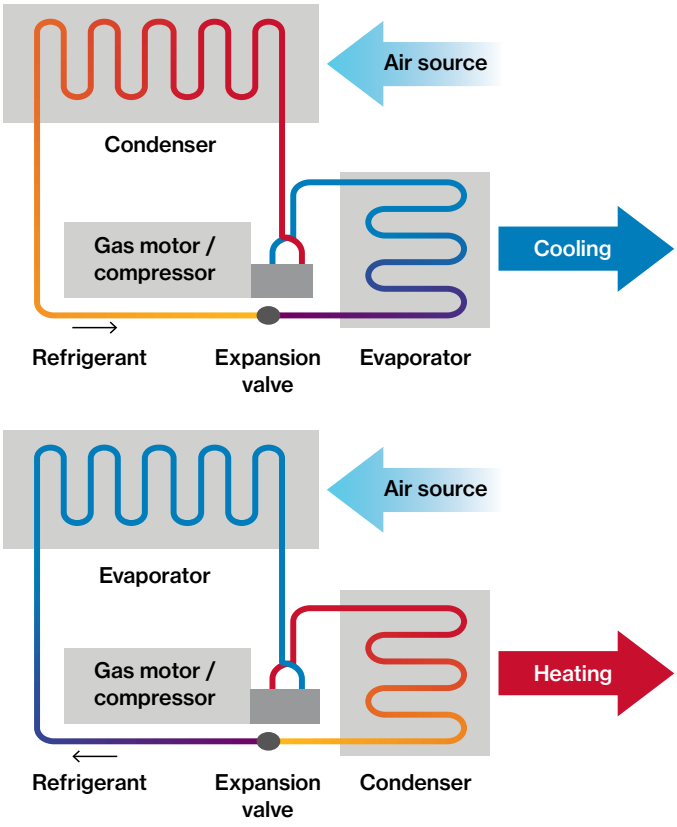
How do gas heat pumps work?

GHPs are highly efficient for space heating, hot water and even cooling. Using natural gas, they work by drawing in thermal energy from the outdoor air and transferring it in and out of buildings. This cycle of energy transfer keeps buildings warm in the winter and cool in the summer.

There are two types of gas heat pumps available for the commercial sector:

Gas-engine driven heat pumps (GEHP)

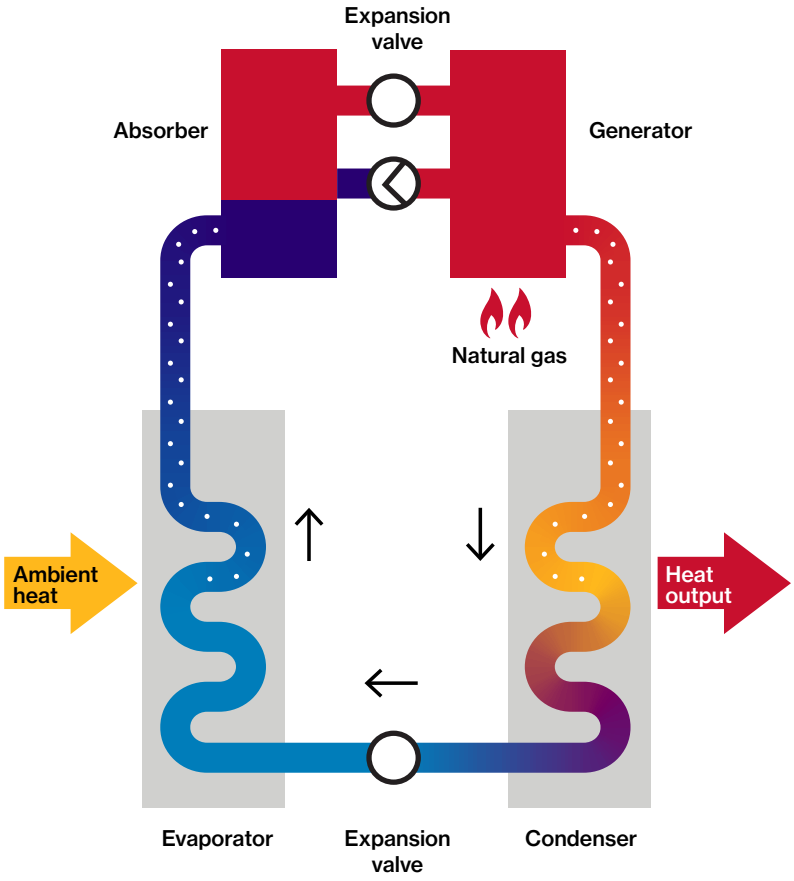
GEHPs are similar to electric heat pumps in that they supply year-round heating and cooling. They use a natural gas engine to power a compressor, which drives the refrigeration cycle.



Source: Yanmar.com

Gas-absorption heat pumps (GAHP)

GAHPs supply heat, domestic hot water and cooling. Compared to electric heat pumps, they use ammonia as a refrigerant instead of hydrofluorocarbons (HFCs). Unlike HFCs, ammonia has zero global warming potential.



Source: TAF.ca

GEHPs are ideal for:

- Office buildings
- Big box stores
- Small retail

GAHPs are ideal for:

- Multi-unit residential buildings
- Long-term care facilities
- Hotels and laundromats

5 reasons to consider GHPs

Lower operating costs and reduce energy costs from 20 – 70 percent.

Reduce GHG emissions by 20 – 50 percent.

Easy to convert to low- and no-carbon fuels such as RNG and renewable hydrogen.

Exceed codes and standards with efficiency greater than 100 percent.

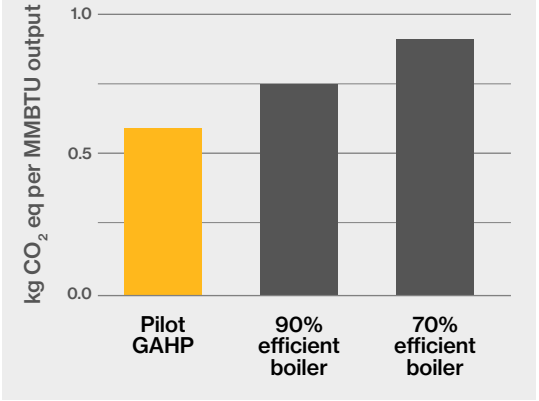
Can provide both heating and cooling using natural gas.

Did you know?

Space and water heating account for 59 percent of building sector energy use and 68 percent of building sector emissions in Canada.*

How do GHPs compare?

Compared to other natural gas heating equipment, GHPs are more efficient, reduce more emissions and are more cost-effective long-term. Compared to electric heat pumps, payback can be as short as five years.



Source: TAF.ca

Success stories

Arleta Manor, Toronto

Toronto Community Housing, The Atmospheric Fund (TAF) & Enbridge Gas

At a social housing complex for older adults in Toronto, two GAHP units help meet the building's hot water needs more efficiently and effectively, with condensing boilers providing any additional heating required to meet the temperature setpoint.

By the numbers

114% to 125% system efficiency

19 tonnes of carbon emissions are avoided annually

10,000 m^3 of natural gas are saved annually

Burnham Family Farm Market, Cobourg

The gas-engine driven three-pipe system now supplies heating and cooling to two renovated sections of a local market: its bakery and retail zones. The system is designed to transfer heat between the two areas. If the bakery zone requires cooling, the system transfers heat from the bakery to the retail zone to reduce energy demand.

By the numbers

120% to 140% heating efficiency

110% to 160% cooling efficiency

32% natural gas is saved during winter

Incentives and expert help are available

For a limited time, Enbridge Gas incentives cover 80 percent of incremental project costs for qualifying projects, up to **$40,000 per GHP unit**.‡ Whether you're considering installing a GHP or want to explore your options, get in touch with our team for expert advice and ongoing support at every stage.

- Get help planning and developing your project.
- Leverage technical expertise and assistance.
- Access incentives to help you minimize the upfront cost.

Financial incentives are available on a first-come, first-served basis, so apply soon to take advantage of this limited-time offer.

GHPs are readily available from two major manufacturers:

ROBUR® YANMAR

Connect with an Energy Solutions Advisor to get your GHP project underway

gasheatpumps@enbridge.com

* Source: Natural Resources Canada Energy Use Data Handbook (2018) † As heat pumps use energy to move heat, rather than to generate heat, the resulting efficiency in terms of heat output is greater than 100 percent. ‡ Financial incentives are only available to Enbridge Gas Inc. customers with accounts in good standing. GHP projects must achieve annual natural gas savings of at least 10,000 m³, based on Enbridge-approved energy modelling estimates, to qualify for incentives. Please contact gasheatpumps@enbridge.com to confirm eligibility.

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