



How Do Heat Pumps Work?



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Heating & Air Conditioning



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**The best air source heat pumps
on the Market**



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**In this Video we will be covering
the following topics...**

How a Heat Pump Works!

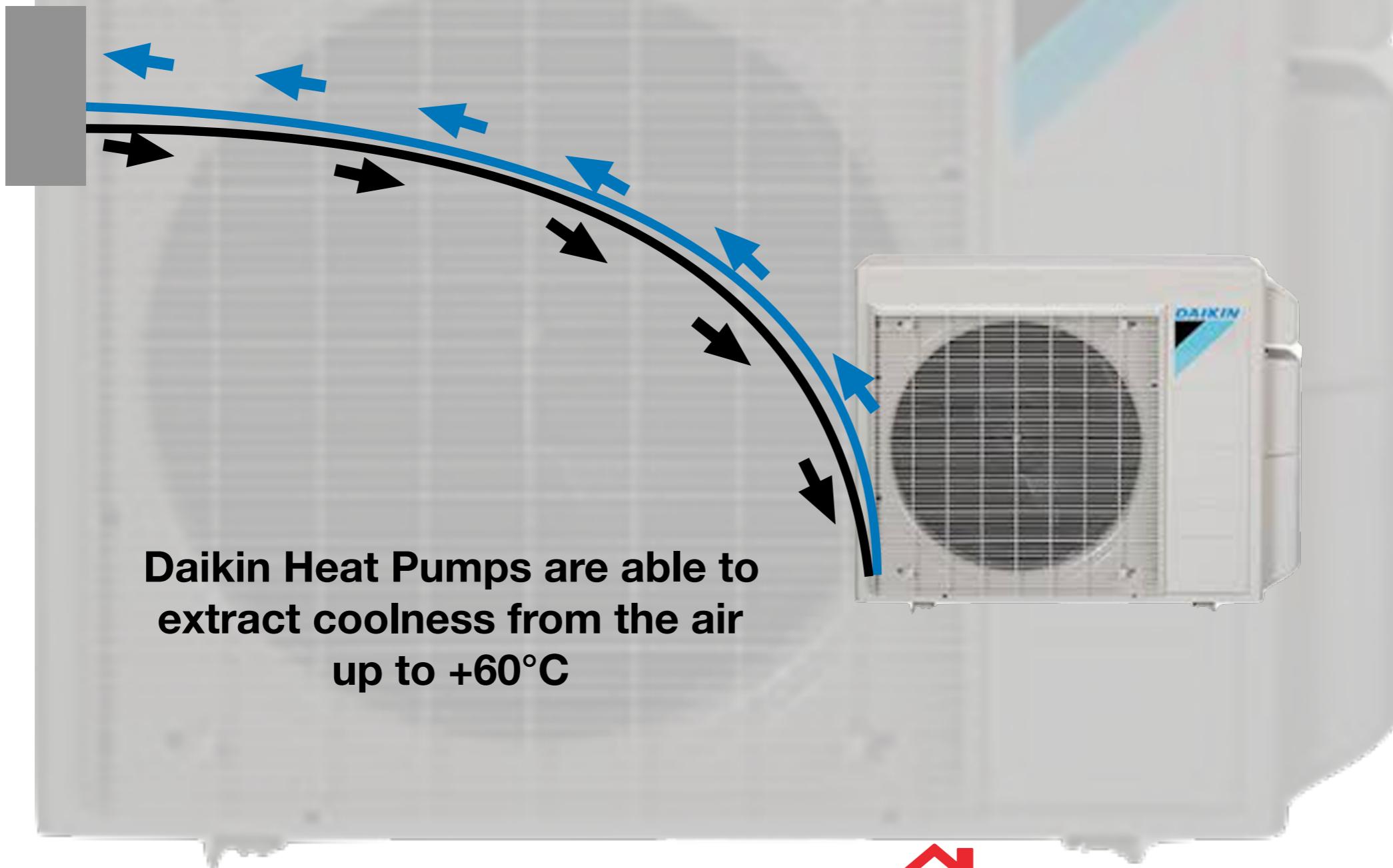
Are Heat Pumps Efficient?

Where is a Heat Pump Recommended?



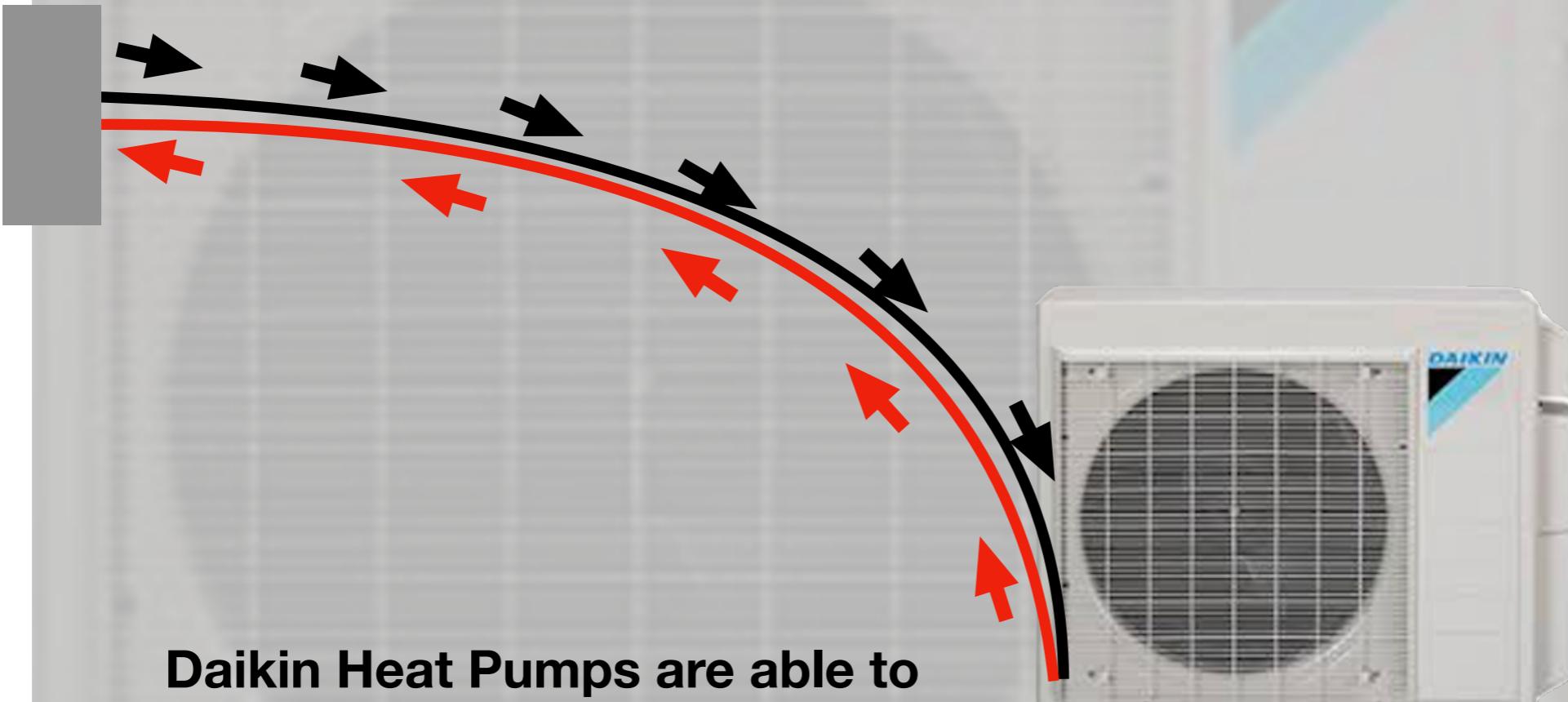
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How a Heat Pump Works!



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How a Heat Pump Works!



**Daikin Heat Pumps are able to
extract heat from the air
down to -25°C**



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Are Heat Pumps Efficient?

**Heat Pump efficiencies are measured
by three factors...**

SEER Rating or Seasonal Energy Efficiency Ratio

**HSPF or Heating Seasonal Performance Factor
and**

COP or Coefficient of Performance.



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Are Heat Pumps Efficient?

SEER or Seasonal Energy Efficiency Ratio
this is the same rating system that all
air conditioners are rated on...
the higher the SEER number
the more efficient the
air conditioner

Most air conditioners today are 13 to 24 SEER



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Are Heat Pumps Efficient?

HSPF or Heating Seasonal Performance Factor
This is how the heating cycle of
Heat Pumps are rated...
The Higher the HSPF Number
the more efficient the
Heat Pump



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Are Heat Pumps Efficient?

COP or Coefficient of Performance

This is how all heating
heating systems are rated...
the higher the COP number
the more efficient the heating system is

We are all familiar with Furnaces
and the percentages of efficiency.
High Efficient Furnaces range from
90 to 98% efficient.

This means for every dollar spent on fuel
90 to 98% is converted into heat



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Are Heat Pumps Efficient?

Electric Baseboards have a COP of 1:1 meaning for every dollar you spend on electricity you get a dollar in heat.

That's pretty good...except electricity is expensive...ask anyone who is heating a home with electric baseboards.

You also do not have centralized air conditioning with baseboard heaters.



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Are Heat Pumps Efficient?

A Daikin air source Heat Pump has COP of up to 1:4.56 meaning for every dollar you spend on electricity you get up to 4.56 dollars in heat.

That's right up to \$4.56 of heat for every dollar you spend in electricity

Now, it is an up to amount because Daikin air source heat pumps work down to -25°C. The COP starts to drop off around -15°C.



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Are Heat Pumps Efficient?

**Most air source heat pumps are
very expensive and only
work to -5°C**

**Daikin is a world leader in
Air source heat pumps producing a
heat pump that out preforms most traditional
heat pumps at a very reasonable price.**



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Are Heat Pumps Efficient?

Daikin Heat Pumps have...

SEER of up to 17.9

HSPF of up to 12.5

and

COP of up to 4.56



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Where is a Heat Pump Recommended?

Air source heat pumps can be used anywhere but, should be seriously considered in a few situations...

If you just want to heat/cool one area of your home

You live out in a rural area

You heat your home currently with electric baseboards



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Where is a Heat Pump Recommended?

If you just want to heat/cool
one area of your home

A Daikin single zone air source heat pump
will provide that area with heat in the winter
and air conditioning in the summer



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Where is a Heat Pump Recommended?

You live out in a rural area

Where affordable natural gas is not available...
you have to use oil or propane...
both options are expensive.

The Daikin FIT air source heat pump
can be used with an electric air handler,
a natural gas or propane fuelled furnace...



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Where is a Heat Pump Recommended?

You live out in a Rural Area

And because it is an air source heat pump
that provides heat to as low as -25°C
you will rarely have to use the electric
air handler or dual fuel furnace
saving you thousands on your heating

Your heating cost would be like having a couple of
70 to 100 watt light bulbs on



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Where is a Heat Pump Recommended?

**You heat your home currently
with electric baseboards**

**If you have ever heated a home with
electric baseboard heaters
you know how expensive that can be**



**It can also be very expensive and messy
to convert your home to a forced air system
with the cost of the system and all the drywall
work needed to hide the duct work**



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Where is a Heat Pump Recommended?

You heat your home currently
with electric baseboards

A Daikin air source heat pump
multi-zone system can provide your home
with affordable heating and centralized cooling
with out all the mess and expense
of re-drywalling your home



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Air Source Heat Pumps

**As you can see air source heat pumps
have many applications with
cooling available to +60°C
and
heating available to -25°C**

**You would rarely need a back up
heat source and never need a
back up cooling source**



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Company

**More Important than all of this
is the Installation Company**



HomeBridge Canada Inc.
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Was Established in 2001

All Fully Licensed & Qualified All Employees not Subcontractors

All Factory Trained

WSIB Compliant

Full Liability Insurance



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Company



HomeBridge Canada Inc.
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In Simcoe County

705.722.0209

In York Region

905.954.3800



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