



**EFFICIENCY**

**HEATING**

**SINCE 1985**

**COOLING**

**Air Conditioning Systems**



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# Air Conditioning Your Home

The typical central air conditioning system is a split system with an outdoor air conditioning unit and an indoor coil that is usually installed on top of the furnace.

The compressor pumps refrigerant through the system to gather heat and moisture from indoors and remove it from the home rejecting the heat outdoors. Heat and moisture are removed from the home when warm air from the inside of the home is blown over the cooled indoor coil. The heat in the air transfers to the coil thereby "cooling" the air.

## Energy Efficiency:

The efficiency of an air conditioning system can be determined by its SEER rating, or Seasonal Energy Efficiency Ratio is a measurement of the air conditioning system over the entire cooling season. The higher the SEER rating the more efficient the system is. **In Canada the minimum SEER rating for an air conditioning system is 13 SEER.**

## Refrigerant and the Ozone Layer:

Air conditioning systems transfer the heat using chemicals called refrigerants. The most common of which is Refrigerant 22. Freon R22 has been in use for many years. However it has the potential of damaging the Ozone layer protecting the earth leading to greenhouse effect, as a result governments have required the phase-out of R22 usage.

**Effective January 2015, the annual allowable amount of R22 usage will be reduced by 90%. By 2020 the annual allowable R22 usage will be reduced by 99.5%.**

**What this means is that your existing system is likely obsolete and will become extremely expensive to repair. Consideration should be given to an environmentally friendly energy efficient air conditioning system.**

## Formicary Corrosion:

A multitude of factors have come together to make failing evaporator coils a significant problem. These include indoor air quality & tighter homes. Volatile organic compounds (VOCs) that gas off from carpets, building materials, furniture, etc., combine with oxygen and moisture to create an acidic solution that reacts with copper to cause pinhole leaks. Ontario's contractor group ClimateCare have decided to only install aluminum evaporator coils.

# Air Conditioning Features

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## Best

- ASXC16 SEER
- 20% more efficient than GSX13 SEER.
- High density sound blanket for quiet operation.
- Two-stage compressor
- ComfortNet & Comfort Alert Compatible.

## Better

- ASX14 SEER
- 10% more efficient than GSX13 SEER.
- High density sound blanket for quiet operation.

## Better

- GSX16 SEER
- 20% more efficient than GSX13 SEER.

## Good

- GSX13 SEER
- New 410A refrigerant.

# Standard Features

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- Copper tube/ aluminum fin coils.
- **Easy** access gauge ports.
- Factory installed liquid line **filter drier**.
- **Heavy-guage** galvanized steel enclosure cabinet.
- Aluminum evaporator coil.



# Features

<i>Models</i>	Two Stage	ComfortNet	Comfort Alert	Sound Blanket	Efficiency	Filter Drier Installed
<b>BEST</b> ASXC16	●	●	●	●	●	●
<b>BETTER</b> ASX14				●	●	●
<b>BETTER</b> GSX16					●	●
<b>GOOD</b> GSX13						●





# Two-Stage Compressor Advantage

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- **Energy savings.** When a two stage compressor is operating at the low level, it uses less energy than the high level. Since it runs at the low level most of the time, it uses much less energy than a standard compressor even though its cooling cycles last longer.
- **Better conditioner for your air conditioner.** Because it has longer cooling cycles, the compressor does not shut on and off nearly as much as a unit with a standard compressor. This puts less strain on your air conditioner and is also more energy efficient.
- **Less temperature swings.** Just like a variable speed blower motor, a two stage compressor is able to cool your home gradually instead of hitting it with a blast of cold air every time the temperature rises above the set point on the thermostat. This results in a more consistent temperature in your home throughout the day and night.
- **Better at dehumidifying air.** The longer cooling cycles of a two stage compressor allow it to spend more time pulling moisture out of the air. This makes it better at controlling high humidity in you home.



# Warranty Information



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the Lifetime Compressor Limited Warranty (good for as long as you own your home), online registration must be completed within 60 days of installation. Online registration not required in California or Quebec.



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the 10-Year Unit Replacement Limited Warranty (good for as long as you own your home), online registration must be completed within 60 days of installation. Online registration not required in California or Quebec.



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration not required in California or Quebec.



## Good

- 10 Year Parts
- 10 Year Compressor

## Better

- 10 Year Parts
- 10 Year Compressor

## Best

- 10 Year Parts
- Lifetime Unit Replacement Warranty

# Control Options

- Two stage unit (ASXC16) is designed to work as part of a fully communicating HVAC system utilizing the ComfortNet thermostats, ComfortNet compatible indoor unit, and up to four wires.
- The two stage units also have legacy 24 VAC inputs to support non-communicating systems. (indoor unit and thermostats)
- Recommend digital programmable or non-programmable heat pump thermostat for single stage units.





# Protecting Your Investment

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## Home Protection Plans Save You Money

- \$25.94 per month.
- Properly maintained systems will save you money and keep your home more comfortable and extend equipment life.
- Twice a year. Our technician will perform a 22-point safety check that will identify any areas of concern that you should be aware of. Your home comfort comprises a series of systems that work in harmony. Just like your car your system requires service and maintenance by a qualified technician.
- Priority Service. When you require service on your heating or air-conditioning equipment you are moved to the front of the line even in peak periods.
- Save on repairs. As a HPP member you will receive a 20% discount on repairs to all your heating & cooling equipment.

## Additional Labour Warranty

### Add up to 10 Year Labour Warranty

- ASXC16 \$499.00
- ASX14 \$599.00
- GSX16 \$499.00
- GSX13 \$599.00

# Your Next Big Purchase Just Became More Affordable

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- You likely weren't planning on replacing your air conditioning system. We've partnered with Financeit to offer you an affordable monthly payment option for your purchase.
- The application process only takes a few minutes and you'll find out if you're approved in seconds.
- Efficiency can send you a link to their application site and you can complete the application in private.
- No pre-payment fees. You can pay off your loan at any time with no penalties.
- Estimated monthly payments including taxes:
  - Best ASXC16 \$69.26/month
  - Better ASX14 \$57.53/month
  - Better GSX16 \$55.31/month
  - Good GSX13 \$48.68/month
- Based on 10 year amortization.



# Who We Are

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Efficiency Heating & Cooling is a locally owned company and has been in business since 1985. We are a full service Heating and Cooling residential and commercial contractor. Efficiency Heating and Cooling is owned by Darcy Sigurdson and Mike Sawa. Both Darcy and Mike are long term residents of Saskatoon and take pride in servicing the community. We are members of the Sask Energy Network.

Efficiency Heating and Cooling employs Refrigeration Mechanics, Journeyman Plumbers and Domestic and Commercial Gas Fitters. Most of our Service Technicians have been with us for more than 10 years. This provides you with continuity of service by technicians that have likely been to your home.

## ***See what some of our customers are saying about us.***

*My AC stopped working so I called. Someone was sent to fix it same day and it was finished by the time I got home from work and a cool house. Awesome job. Thanks for the speedy service!! -Nancy Brown Medwid*

*I'm just phoning to commend you folks and Chad - the young technician who came to our house yesterday on that scheduled call to review the heating and ventilating equipment in this house. I have been so impressed by the people you send over to see us from time to time, and this technician was just excellent. He [was] very clear spoken and did the work very, very well. - Ernie*

### ***Kanta and Sujata & Family***

Efficiency Heating and Cooling was referred to us by very trusted friends.

We had an IBC Boiler which required special servicing on Christmas Day 2015. Efficiency sent out the very best and had our boiler up and running at peak capacity within record time. We simply had to put in the "Request". The "Quote" was very reasonable and the Diagnosis/Service provided on the day Exceptional ~ Since then, we have requested that Efficiency Heating and Cooling both Service and Maintain our entire Furnace Room. Efficiency has a record of trustworthy, reliable service when it comes to Heating & Cooling Systems both commercial and residential: Service is professionally provided with honesty and integrity. Efficiency will work, if possible, to keep the original Manufacturer and Footprint of your Heating/Cooling Systems intact. From Retrofit to New Installations. Efficiency takes time to do it RIGHT.

Consistently excellent service - expeti. courteous, prompt and, as the name suggests - efficient. We've been dealing with Efficiency Heating for years, and continue to be pleased with your service. Thank you.

***Check out more reviews at [www.encyheating.com](http://www.encyheating.com)***