



MAKING THE WORLD A COOLER PLACE

# OPTIMUM h e a t i n g & c o o l i n g Air

## Indoor Air Quality Should you be concerned?

Did you know that most people spend over 90% of their time indoors? Kind of shocking when you think about it, isn't it? And many of those people are children, who, for their size, breathe up to twice as much air as adults, making them at greater risk for health problems that come from indoor air pollutants. In fact, the number of children with asthma has doubled in the past 10 years; 1 in 15 children under 18 years of age now has asthma. Sometimes indoor air pollution comes from what people do in their home, such as smoke, keeping furry pets, or use of solvent chemicals. Sometimes indoor air pollution can come from what people have in their homes, such as new furniture, carpets and building products which give off chemicals used in their making. It's not always easy to tell what the air quality in our home

is like unless someone is sensitive to chemicals or pets, or we notice our homes seems stuffy and stale. We can take precautions to make sure our indoor air is fresh and clean: don't allow smoking inside, perform dusty or smelly projects outdoors, do not allow pets in bedrooms, use household chemicals safely. One of the surest and best ways is to exhaust indoor air regularly, and allow fresh outdoor inside. Open windows, use bathroom and kitchen exhaust fans regularly. As air is exhausted, outdoor air will make its way inside to replace it. Continuously circulating the air through your furnace filter will catch many pollutants and the better quality filter, the more pollutants will be caught. It is important to check

your filter regularly and to make sure it is clean. Filters should be checked every 6 weeks. There is a wide range of filter quality in the market and the rule of thumb is, the higher the MERV (efficiency rating) -the better the filter quality. You might visit [Bryant.com](http://Bryant.com) to see what we have available in **air filters, electronic air cleaners, ultraviolet lights** (these kill bacteria and mold spores) and **air to air heat exchangers**. The air to air heat exchangers "capture" heat from the air being exhausted, and this heat is used to temper the incoming air from outdoor; thus saving energy and providing fresh air into the home. Only you can make sure your home is a healthy home— but there a lots of places to go for help.

*Come see us at the  
Home Show!  
October 13—15  
at the Interior Savings Centre*

*"We could learn a lot from crayons. Some are sharp, some are pretty, some are dull, some have weird names, & all are different colours.....but they all have to learn to live in the same box."*

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# Can heat pumps change the world?



Scientists, working for the Canadian government, have agreed for years (and published lots of material to verify) that heat pumps work well in Kamloops. The measure of efficiency for heat pumps is classified in two ways:

- **S.E.E.R.** or Seasonal Energy Efficiency Rating is used to rate the electrical efficiency of an air conditioner, which is one half of a heat pump. The standard for Canada is now set at 13 S.E.E.R., which is about twice as efficient as a twenty year old air conditioning unit.
- **C.O.P.** or Coefficient of Performance; this heat rating for a heat pump, in the Kamloops area, can be as high as 3.2. What does this mean? An electric baseboard heater has a C.O.P. of 1. For every unit of electricity put into an base board heater, 1 unit of heat will result. For every 1 unit of electricity put into a heat pump, as much as 3.2 units of heat will be the result. This scenario works for hundreds of cooler hours a year but drops off as the temperature gets colder. Once the weather goes below 0°C, the heat pump slowly goes towards a C.O.P. of 1. At this point it is not operating as efficiently as your alternate back up gas/oil or electrical unit could be, and the back up heat will kick in to take over heating the home.

With the natural gas prices now a commodity on the world market, higher prices will only enhance the value of a heat pump to the average consumer. British Columbia may continue to enjoy inexpensive electricity rates for years to come, even if our capacity needs to expand. See the comparative index of electricity prices below.

# ***"REJUVENATE YOUR FURNACE"***

## **15 Points Precision Tune-up**

- Inspect thermostat; check heat anticipator
- Inspect heat exchanger for cracks, holes or separations
- Check condensate line/pump
- Check for gas leaks
- Check gas pressures
- Check operation of venting systems
- Clean burner areas, inspect, clean & adjust burners
- Inspect & clean fan & filter assembly
- Check all electrical & controls
- Clock and adjust input to manufacturer's specifications
- Confirm temperature rise within specs
- Inspect, clean & adjust pilot or electronic ignition as applicable
- Check secondary heat exchanger
- Inspect filter or electronic air cleaner as applicable
- Check proper operation of motor(s) and lube as necessary

**\$89** plus gst

### **Double Risk Free Money Back Guarantee**

#1. If your system breaks down and needs repairs after we've performed this service, we'll refund your \$89.

#2. If this tune-up doesn't save you money on your utility bill, receive a full refund. No questions asked.

*-some conditions may apply-*

**OPTIMUM***Air*  
heating & cooling

**851-6981**

**optair.ca**

*Coupon valid Oct 1—Oct 31,, 2006—must present coupon at time of purchase*

"Work is accomplished by those employees who are still striving to reach their level of incompetence."



**- con't from page 2-**

David Shaw, a retired refrigeration engineer for Carrier/Bryant, has invented a next generation heat pump that works to colder temperatures with amazing results. (Once again, Bryant is on the leading edge of technology!) It is being called the L.T.H.P., or Low Temperature Heat Pump. Look for these new heat pumps on the market in the next few years. Heat pumps will change the world.

We encourage everyone to talk to us about heat pumps or look for information on the internet. One site you must look up is [nrcan.gc.ca](http://nrcan.gc.ca).

**Electric Heat pump + Natural Gas Furnace =**



**Save Up to \$250**  
Newsletter Readers; Purchase a Hybrid System between October 15 and October 30 and we'll take an extra \$250 off the final quote when you mention this newsletter. Call for details.



Randy Nowicki  
Sales/Installations Manager  
Optimum Air Heating & Cooling

Two gas company servicemen, a senior training supervisor and a young trainee, were out checking meters in a suburban neighborhood. They parked their truck at the end of the alley and worked their way to the other end. At the last house a woman looking out her kitchen window watched the two men as they checked her gas meter. Finishing the meter check, the senior supervisor challenged his younger co-worker to a foot race down the alley back to the truck to prove that an older guy could out run a younger one. As they came running up to the truck, they realized the lady from that last house was huffing and puffing right behind them. They stopped and asked her what was wrong. Gasping for breath, she replied, "When I see two gas men running as hard as you two were, I figured I'd better run too!"

**LET US KNOW :**

if you'd rather not receive this news-letter in the future. **Please.** We know what it's like to receive mail we don't want! You can easily contact us through our website or call **851-6981**—leave your name and message if outside business hours.



**HIGHER QUALITY, LOWER COST & HYBRID TECHNOLOGY ?**

For a limited time, when you choose a Bryant high-efficiency heating / cooling system, we'll give you a rebate up to \$1100 on qualifying units and systems. And we haven't mentioned utility rebates and free 10 year parts and labour warranties yet, either.

*Please call for details!*

**851-6981**



**WHY FEED THE BEAST in the basement?**

Thinking of going high efficiency? In today's marketplace, the biggest bang for your buck in home improvement is investing in high efficiency equipment. And the return on this investment is tax free, as well as being a built in inflation fighter. As energy prices rise, so does your savings; the savings is percentage driven, no matter how much energy costs rise. How many investments can actually pay for themselves? This one does. The money saved on heating/cooling your home more efficiently can be applied to paying for the new equipment. And the equity in your home just went up. Check out the following example:



**Scenario: Kamloops, BC**

Large Home: 1972: 2500 sq. feet: existing furnace—62% efficient (pilot light and belt driven); heating cost: \$1773 a year

**Action:**

Upgrade to a Hybrid Heat System (furnace and heat pump); cost \$10,000 plus or minus \$2500 (depending on equipment model chosen and ease of installation)

**Result:**

Heating Cost : \$811 year; Save \$962 year (\$19,240 over 20 years—at today's prices!) Apply to system cost.

**GOOD ONES**

'Always do the right thing. This will gratify some people and astonish the rest.'

'What would men be without women? Scarce, sir..... ..mighty scarce.'

'Sometime I wonder if the world is being run by smart people who are putting us on, or by imbeciles who really mean it.'

*-Mark Twain-*

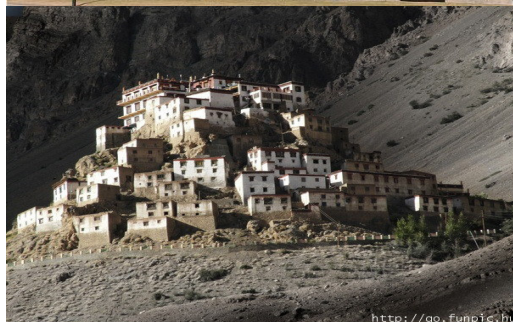
**MAKING THE WORLD A COOLER PLACE**



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**WE'RE ON THE WEB!  
optair.ca**



We've worked on some interesting buildings!