



DESIGN AIR CLIMATECARE®

INSTALLATION AND MAINTENANCE GUIDE

2011 Edition



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There are some key differences with new systems in the past ten years beyond general functionality and reliability. These include more airflow, better temperature and humidity control, muted sound, and energy efficiency.

Replacing your Furnace or Air Conditioner

If your system is 10 years or older and needing significant repairs, replacing the system is the most economical option. Properly installed new models save up to 35% in energy.

If you have a standard efficient system 12 years or older, it's time to replace your system. General aging, parts wear and likelihood of coming expensive repair, and the compared energy efficiency of older versus new models all make it a worthwhile investment to purchase a new system.

The Cost Breakdown of an Installation

The expense of an installation is not only the cost of the new machine. Most companies cut corners, to lower their costs by lowering their installation materials and labour time. Operations include the certification, insurance, and training that installers undertake.

- Equipment
- Labour
- Installation Materials
- Operations



Heating, Cooling, & Indoor Air Quality

The Components of a Quality Installation

Installations are what maximize the efficiency and adjust the system for optimal performance. The quality of the installation is as important as the quality of unit. Choosing a quality brand is important, though it is second to the specific requirements. These include:

1) Time Spent

Quick installations skip full testing and documentation.

2) Level of Testing and Documentation

Installation work should be fully documented and left with you.

3) Quality of Materials Used for the Installation

Cut costs often come out of the quality of the 31 other components used for an installation.

4) Customization of the Installation

Quality installations will look to improve the installation by including custom improvements to your standard system that improve its energy efficiency, durability, and quality of operation.

While you can make rough guesses at the appropriate size for a system, the only way to accurately determine the appropriate size is by doing a heat loss/ heat gain analysis.

Available Government Savings

Federal, provincial, and municipal governments all have offered savings and rebates for anyone retrofitting an old system. However, their availability, qualifications for eligibility, and value are continually changing. If you're wanting to research the most current information on these offers check out the following sites:

Every Kilowatt Counts: www.everykilowattcounts.ca



Questions to Ask Potential Contractors

If you are considering several contractors, here are some questions you should ask.

1) How much time will they spend on your installation?

A good job should take up to a day for a furnace or air conditioning installation if it will include proper testing and start-up.

2) Is the work being subcontracted by hour or per job?

3) Will there be paperwork showing everything that has been done?

Request a written start-up sheet, showing what was done.

4) Do they do any performance testing?

This should include heat gain/heat loss, as well as air balancing or performance testing.

5) What accreditation do their service men have?

Beyond insurance, they should have G1, G2, G3 ODP, 313A, 313D for any furnace or A/C installations.

6) What do they do with the old system?

How well do they dispose of all the remaining parts safely and environmentally? Refrigerants need to be contained and returned for environmental protection.

Design Air's Engineered Installations

Design Air's Engineered Installation is the superior process with complete testing, customized alterations, and full written documentation. It ensures that equipment will run optimally with necessary customization ensuring optimal performance. Our initial assessment will include our start-up sheet, checklist, and score test.

We take 8 hours to complete by our own staff (paid salary, fully trained and accredited with WSIB insurance). Their qualifications include: G1, G2, G3, 313A, 313D and ODP.

We dismantle your old system, recycling it completely and safely handling all hazardous gases and liquids.



Our Products

FURNACES

Carrier and ClimateCare



AIR CONDITIONERS

Carrier and ClimateCare



AIR FILTERS

MODEL
Aprilaire 4200
Airwash Hepa Filter 350
Airwash Hepa Filter 675



For filter replacements, review the Filter Catalogue or contact us directly.

WHOLE HOUSE DEHUMIDIFIERS

MODEL	PINTS REMOVAL
Aprilaire 1710 Portable	90
Aprilaire 1750	90
Aprilaire 1770	150



WATER HEATERS

MODEL
Basic 40
John Woods 50
Rheem Tankless RT666



THERMOSTATS

MODEL
Aprilaire 8463
Carrier 7 Day PAC
Carrier 7 Day and Humidity PRP



HUMIDIFIERS

MODEL
Aprilaire 500
Aprilaire 600
Aprilaire 700



PAC: Programmable Air Conditioning Unit
 PRP: Programmable Air Conditioning Unit with Humidity Control

600 and 700 models come with an outdoor sensor

Maintenance

Why Maintenance Matters

Maintenance will make an incredible difference to the operating of your systems. At minimum this should include changing your filters. Ideally, a maintenance check should include basic tune-ups, oiling of parts, and testing for efficiency, carbon monoxide, and cleaning. These should be done by a qualified technician.

Maintenance also keeps warranties eligible, and reduces energy bills significantly. It will prevent expensive problems down the line. The manuals for any installed system should include sections on how to maintain your equipment.

WeCare Maintenance Plan

This annual plan includes annual inspection, guaranteed appointments, no charge for show-up, diagnosis, or repairs, no overtime or premium time charges, and a written report. Please call for details and to set up a plan.

WeCare Protection Plan

This annual plan includes all Maintenance Plan service plus parts and labour coverage for any needed repairs.

AIR CONDITIONERS

DESCRIPTION	COST
Basic Clean and Check	CA\$99.95
Complete Air Conditioner Maintenance	CA\$149.00
WeCare Maintenance Plan	\$216.00 annual
WeCare Protection Plan	\$336.00 annual*



FURNACES

DESCRIPTION	COST
Basic Clean and Check	CA\$99.95
Complete Furnace Maintenance	CA\$149.00
WeCare Maintenance Plan	\$158.00 annual
WeCare Protection Plan	\$276.00 annual*



WeCare Maintenance and Protection rates can be paid monthly or annually.

Call for details or to purchase a plan. *HST not included. Protection Plans **include** Maintenance plan services.

AIR CONDITIONER AND FURNACE

DESCRIPTION	COST
WeCare Maintenance Plan Combo	\$294.00 annual
WeCare Protection Plan Combo	\$528.00 annual

Combination Maintenance or Protection plans have 2 annual visits.



VENTILATION

DESCRIPTION	COST
Heat Recovery Ventilation Maintenance	CAS120



Benefits for Maintenance Plans and Protection Plans Include

- No introductory diagnostic charge (save \$149)
- Save 20 percent on future service work
- Satisfaction guaranteed or full refund



Design Air is a professional heating, ventilation, and air conditioning company. We are committed to the highest standards in maintenance, repairs, and installations for residential homes and commercial spaces in the Greater Toronto Area.

We are a professional engineering company. This means our staff receives training and qualification far beyond factory basics. Our Engineered Best Practice standards ensure you are dealing with highly skilled and professional staff at all times.

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