

## Residential Forced Air Heating & Ventilation Details

|                |          |
|----------------|----------|
| Permit Number: | Address: |
|----------------|----------|

The following information must be submitted with the application for a Residential HVAC Permit. This information is not a substitute for Code requirements.

The ventilation system design must meet the requirements of Section 9.32 of the current Alberta Building Code. However, any of the referenced Standards in the Code such as, but not limited to CAN/CSA F326-M91 Residential Mechanical Ventilation Systems or Hydronic Standard CAN/CSA-13214-12 may be used to design the system. The system may also be designed by a professional engineer.

|                                                  |                                                            |                                                                                   |
|--------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Appliance Type</b>                            |                                                            |                                                                                   |
| <input type="checkbox"/> Forced Air              | <input type="checkbox"/> Non-Forced Air                    | <input type="checkbox"/> Natural Draft                                            |
| <input type="checkbox"/> No Combustion Appliance | <input type="checkbox"/> Direct Vent (Sealed Combustion)   | <input type="checkbox"/> Other (specify) <input style="width: 80%;" type="text"/> |
| <input type="checkbox"/> Mechanically Vented     | <input type="checkbox"/> Solid Fuel (including Fireplaces) |                                                                                   |

|                                                                                                              |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Details</b> For greater than 5 bedrooms, a separate ventilation design by a professional must be provided |                                                                                                     |
| Total BTU's from Heat Loss Calculations:                                                                     | Total BTU <input style="width: 80%;" type="text"/>                                                  |
| Number of Bedrooms:                                                                                          | Normal Operating Exhaust Capacity (NOEC):<br><small>(as per table 9.32.3.3 of the ABC 2014)</small> |
| Method of heating excess make-up air:                                                                        | Maximum Outdoor Airflow:<br><small>(as per table 9.32.3.4 of the ABC 2014)</small>                  |
|                                                                                                              | Max Airflow <input style="width: 80%;" type="text"/>                                                |

| <b>Appliance</b> Please include information for all gas appliances in the building including heating, hot water tank, fireplaces, etc. |                                          |                                          |                                          |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------------------|
|                                                                                                                                        | Manufacturer                             | Model                                    | BTU Input                                | Airflow (L/sec)                                          |
| Heating Appliance:                                                                                                                     | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/>                 |
| Hot Water Tank (Gas):                                                                                                                  | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | Airflow (L/sec)                                          |
| Hot Water Tank (Electric):                                                                                                             | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |                                                          |
| Air to Air Exchanger (HRV):                                                                                                            | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |                                                          |
| Gas Fireplace #1:                                                                                                                      | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | Airflow (L/sec)                                          |
| Gas Fireplace #2:                                                                                                                      | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |                                                          |
| Gas Fireplace #3:                                                                                                                      | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |                                                          |
| Gas Fireplace #4:                                                                                                                      | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |                                                          |
| Other #1:                                                                                                                              | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> | Airflow (L/sec) <input style="width: 90%;" type="text"/> |

**Privacy Notice:**

The personal information collected on the form is authorized by sections 4(a) and 4(c) of the Protection of Privacy Act. Please be aware that some or all of the information you provide on this form may be made public. If you have questions about the collection, or management of personal information, you can contact the City of Lethbridge Privacy Officer at APO@lethbridge.ca, or by phoning 311, or 403-320-3111 (if outside of Lethbridge).