

HEATING, VENTILATING AND AIR CONDITIONING

APPLICABLE CODES:

[Village of Oak Brook Zoning Ordinance](#)

[2015 International Residential Code /2015 International Building Code](#)

[2015 International Mechanical Code](#) as adopted and amended by the Village of Oak Brook

[2018 International Energy Conservation Code](#) (Illinois Energy Conservation

2014 National Electric Code

ZONING setback, and utilization requirements must be observed.

CONSTRUCTION SPECIFIC HIGHLIGHTS:

NOTE: Projects are required to comply with every applicable provision of the Village Code, even if it is not listed below.

- Exterior Mechanical Equipment (Compressors, Condensers, Chillers, or similar equipment) is required to be located a minimum of twelve feet (12') from any property line.
- Full visual screening from any point along a front- or side-yard lot line is required for all exterior Mechanical Equipment.
- [RESIDENTIAL HVAC INFO](#)

PERMITS are required for all HVAC work except for in-kind replacement of minor parts.

TO APPLY FOR A PERMIT, YOU WILL NEED:

GENERAL PERMIT APPLICATION

ELECTRICAL PERMIT APPLICATION with a signature of the *Qualified Person* who will be performing the work.

2 COPIES EACH:

- PLAT OF SURVEY – including
 - Dimensioned drawing of the location of all exterior equipment.
 - Working clearances per 2014 NEC Article 110.26.
- CONSTRUCTION DOCUMENTS, drawn to scale and dimensioned, including- but not limited to:
 - ACCA Manual J load calculation. (Total heating supply- from all sources- may not exceed 140% of the Manual J heat loss- total cooling supply may not exceed 119% of the Manual J heat gain). Exterior design temperatures: -4°F, 89°F. Interior design temperatures: 70°F Heating, 72°F Cooling.
 - Manufacturer's specification & installation sheets- designating the size chosen.
 - Controls.
 - Details regarding any admixtures proposed for the heat distribution fluid (antifreeze, corrosion inhibitors, boiler treatments, etc.)
 - Combustion air & Venting. Please include chimney sizing if being partially abandoned for direct vent.
 - Fuel gas piping isometric- including meter sizing verification from NICOR.
 - Electrical Details.
 - Mechanical room specifics:
 - Location
 - Dimensions- including working clearances
 - Opening sizes
 - Access
 - Ventilation
 - Thermal envelope characteristics

HOMEOWNER ASSOCIATION approval may be required in some subdivisions, please contact your association for clarification.

Before signing any home repair or remodeling contract over \$1,000, a person engaging in the business of home repair and remodeling is required in Illinois to provide the customer with a copy of the "[Home Repair: Know Your Consumer Rights](#)" pamphlet.

RESIDENTIAL HVAC REPLACEMENT

Please review the ENTIRE list below and initial EACH item as provided.

1. GENERAL PERMIT:

- ___ a. Completed General Permit application form.
- ___ b. Contractor information.
- ___ c. Heating and cooling equipment sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual .

NOTE: MANUAL J CALCULATIONS MUST BE SUBMITTED & EQUIPMENT SIZE(S) MUST BE SPECIFIED

DESIGN TEMPERATURES:

INTERIOR: 89°F (summer), -4°F (winter)

EXTERIOR: 72°F (heating), 75° (cooling)

- ___ d. IF ANY EXTERIOR EQUIPMENT IS TO BE INSTALLED/REPLACED
 - ✓ 2 copies- Plat of survey indicating location of unit, structure(s) and property line(s) with dimensions. Including specifications and details of pad and screening for outdoor mechanical equipment.
 - ✓ 2 copies- Manufacturers Specifications and details regarding sound levels generated.
 - ✓ Homeowner's Association approval letter (when appropriate- for additional/relocated units).

2. ELECTRICAL PERMIT- **IF REQUIRED:*

- ___ a. A licensed electrical contractor- (1 copy of current license obtained by testing).
- ___ b. Completed and Signed Electrical Permit application form.

3. INSPECTION HIGHLIGHTS- THE INSPECTOR WILL LOOK FOR THESE:

- ✓ Location of Heating, Air Conditioning, and Refrigeration Equipment Outlet- per 2014 NEC 210.63.
 - * NOTE: Electric Permit REQUIRED if an outlet needs to be added.*
- ✓ Working Space -Min 30" x 36" - per 2014 NEC 110.26.
- ✓ Programmable Thermostat- per 2018 IECC R403.1.1.
- ✓ Duct Sealing – per 2018 IECC R403.2.2.
- ✓ Duct Tightness testing- per 2018 IECC R403.2.2.
- ✓ Mechanical system piping insulation – per 2015 IECC R403.3
- ✓ Condensate disposal- per 2015 IRC 1411.3
- ✓ Combustion air per 2015 IRC Chapters 17 & 24

Since the Village of Oak Brook has a variety of zone districts with differing requirements, it has been found to be beneficial for staff to review the locations after submittal rather than encourage individual interpretations. For the specifics of the ordinance, please feel free to refer to Chapter 13 of the Village Code (www.oak-brook.org).

INCOMPLETE SUBMITTALS WILL NOT BE APPROVED.