

Implementation of ACCA Manuals J and D as per IRC

Following are the procedures for the City of Post Falls that all new residential homes are required to follow in order to comply with the IRC as it pertains to the forced air heating and cooling systems. The IRC requires the system to be designed as per ACCA Manuals J and D or other approved methods. The manuals provide for a pencil and paper approach, with other approved methods being specified in Manual J under section A2-5 (page 77), that states “or third-party software approved by ACCA”.

At this time, compliance shall be required under the following conditions or applications;

- An electric/gas forced air furnace with no AC system/components will need to show compliance for the heating system as per ACCA Manual J heating loads and duct system.
- An electric/gas forced air furnace with an AC coil in place as a pre-sell item but without the full unit in place, will need to show full compliance for both the heating and AC system as per Manual J and D, as it is apparent that AC will be installed at a later date and will need to meet the code requirements at that time.
- An electric/gas force air furnace with the full AC system in place at time of occupancy will need to show full compliance for both the heating and air conditioning system as per Manual J and D.
- Installation of an AC system into an existing forced air system will be handled on the following basis until further notice. A single family residence submitted for permit before January 1, 2010 will not be required to show compliance. A single family residence submitted for permit on or after January 1, 2010 will be required to show full compliance with ACCA Manuals J and D.

Two sets of paper work shall be provided from one of the compliance methods below, including equipment documentation from the manufacturer, a line drawing of the duct work layout delineating the TEL of the system, type and size of ducts used and the number/letter designation of transition fittings used in the supply and return systems. This is required at time of mechanical permit application and shall be reviewed by the City of Post Falls to verify compliance. Upon approval, one copy will be kept in the building permit file for that residence, with the other provided to the contractor for use by the inspector in the field to verify correct installation.

Acceptable Methods of Showing Compliance For ACCA Manuals J & D

Method	A*	B**
Pencil and Paper directly from Manual J 8 th Edition and Manual D		X
Pencil and Paper directly from Manuals J 8 th Edition, J 8ae, and D	X	
ACCA “speed sheets” for Manual J 8ae and Manual D***	X	
RHVAC software designed by Elite	X	X
DUCTSIZE software designed by Elite	X	X
Right-J software designed by Wrightsoft	X	X
Right-D software designed by Wrightsoft	X	X
HVAC Wizard designed by Nitek	X	X
AccuLoads designed by ADteck	X	X

***A. Typical single-family residence with a single zone constant volume system, not over 15% glazing; other constraints as noted in Manuals J 8th edition, J 8ae & D.**

****B. Larger than normal single-family residence, multi-zone systems, over 15% but less than 25% glazing; other constraints as noted in Manuals J 8th edition and D.**

***** Available free at <http://www.acca.org/speedsheet/>**