

## CITY OF COEUR D'ALENE Residential HVAC System Design Form

IDAHO	Building Permit No
Please COMPLETE "ALL" Fields Below (For new dwellings submitted for building permits after 01-01-2010)	DESIGNATED CONTACT PERSON  Name: Phone:Cell: E-mail:
Mechanical Contractor:	REQUIRED ATTACHMENTS ATTACHED
License Number:	<ol> <li>Manufacturer's Performance Data Sheets</li> <li>Manual D Worksheets</li> <li>Duct Distribution Line Drawing</li> <li>Choose one (1) of the following:</li> </ol>
Phone Number: E-mail:	a) Manual J1 Form & Worksheets Yes
Job Address:	b) MJ1AE Form & Worksheets* Yes -OR- c) Other Approved Form & Worksheets Yes
LINAC LOAD CALCULATIONS (	c) Other Approved Form & Worksheets Tes
Design Conditions:  Winter Design Conditions:  Outdoor Temperature Indoor Temperature Total Heat Loss  building Construction Information:  Building:  Number of Bedrooms Conditioned Floor Area Sq ft Number of Occupants  Number of Occupants  Building:  Number of Bedrooms Conditioned Floor Area Sq ft Sedrooms + 1	
Outdoor Temperature Indoor Temperature Latent Heat Gain #	/indows: Eave Overhang Depth ft U – Factor Skylights: irection Orientation of Front Door:
HVAC EQUIPMENT SELECTION (Per 2018 IRC M1401.3)	
Heating Equipment Data:  Equipment Type Manufacturer Model Number Heating Capacity  Cooling Equipment Equipment Type Manufacturer Model Number Cooling Capacity	Heating cfm Cooling cfm Static Pressure
HVAC DUCT DISTRIBUTION DESIGN (Per 2018 IRC M1601.1)	
Design Airflow  External Static Pressure  Pressure Losses  Available Static Pressure  Longest Supply Run  Longest Return Run  Total Effective Length  Friction Rate	duct board, flex, duct board, flex, sheet metal, other: sheet metal, other:
(Available Static Pressure = ESP-CP) (Friction Rate = ASP x 100 / TEL)  The load calculations, equipment selection, and duct system design were performed based on the plans as submitted for a Building	
Permit. The system will be installed in the field per the approved equipment and duct design.	
CONTRACTOR (Please Print)	
Contractor Signature: Date	
* If Home qualifies for MJ1AE form base on Abridged Edition Checklist	