

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	<b>HOWARD COUNTY          RESIDENTIAL          HEATING-VENTILATION-AIR          CONDITIONING AND          REFRIGERATION PERMIT          APPLICATION</b>	HVACR PERMIT # <u>M10000886</u> BUILDING PERMIT #
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BUILDING ADDRESS: <u>13906 Castlebar Drive</u> <u>Glenwood MD 21738</u> SUBDIVISION: CENSUS TRACT:      SECTION:      AREA: LOT: <u>11</u> TAX MAP: <u>22</u> PARCEL: <u>110</u> BLOCK:      ZONE:	OWNERS NAME: <u>Peter and Joan Fuechsel</u> ADDRESS: <u>13906 Castlebar Drive</u> CITY: <u>Glenwood</u> STATE: <u>MD</u> ZIP CODE: <u>21738</u> HOME PHONE: <u>301 854-6477</u> WORK PHONE: <u>240-228-6274</u>
PROPERTY ID:      MAP COORDINATES: <u>280462</u>	
TYPE OF IMPROVEMENTS:      USE:	

	CHECK ONE	HOW MANY	COMPANY NAME: <u>Loves Heating &amp; Air, Inc.</u>
SINGLE FAMILY DWELLING	<input checked="" type="checkbox"/>	<u>2</u> ZONES	LICENSEE NAME: <u>John Davidson</u>
SINGLE FAMILY TOWNHOUSE	<input type="checkbox"/>	___ ZONES	ADDRESS: <u>PO Box 396</u>
MULTI-FAMILY / HOTEL/MOTEL	<input type="checkbox"/>	___ ROOMS	CITY: <u>Severn</u>
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS)	<input type="checkbox"/>	___ ROOMS	STATE: <u>MD</u> ZIP CODE: <u>21144</u>
			PHONE: <u>410 551-1376</u> HVACR LICENSE NO: <u>5613</u>

10/5/2010 - Well Permit Approved  
 10/6/2010 B.P. Approved

<b>New</b> <input type="checkbox"/> Heating and Air Conditioning <input type="checkbox"/> Geo Thermal System	<input type="checkbox"/> Heating System Only <input type="checkbox"/> Ductless Mini Splits	<b>Other Work (Describe):</b> <input type="checkbox"/> Thru The Wall Systems
<b>Replacement</b> <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input checked="" type="checkbox"/> Heating and Air Conditioning	<b>Additions and Alterations</b> <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Heating and Air Conditioning	

\*\*\*\*Replacement Geo Thermal Systems are not required; However, if a new one is being sought a permit is required\*\*\*\*

<b>Zones</b> Permit Fee = # of Zones x \$40 = <u>80</u> Technology Fee (10% of Permit Fee) = <u>8</u> Plus Application Fee <u>\$50.00</u> Total Fees Due = <u>138.00</u>	<b>Rooms</b> Permit Fee = # of Rooms x \$80 = _____ Technology Fee (10% of Permit Fee) = _____ Plus Application Fee \$50 <u>\$50.00</u> Total Fees Due = _____
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I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

SIGNATURE OF LICENSEE: [Signature]  
 PRINT NAME OF LICENSEE: John Davidson  
 Email Address: info@lovesheatingandair.com

DATE: 8-16-10

<b>Validation</b> Check Number: <u>3102</u> Cash: _____ Receipt Number: <u>217654</u>
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Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

Word doc: T:\Updated Forms\hvac application  
 Rev: 10.2009

M1000886

**Load Short Form**  
**Entire House**  
 Love's Heating & Air Inc.

Job:  
 Date: Jun 28, 2010  
 By:

P.O. Box 396, Severn, MD 21144 Phone 410-551-1376 Fax 410-551-2157 Email johnlove@lovesheatingandair.com Web www.lovesgeothermal.com

**Project Information**

For: Fuechsel

**Design Information**

	Htg	Clg	Method	Infiltration
Outside db (°F)	15	91		Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	55	16	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	46	34		

**HEATING EQUIPMENT**

Make  
 Trade  
 Model  
 GAMA ID

Efficiency 80 AFUE  
 Heating input 0 Btuh  
 Heating output 0 Btuh  
 Temperature rise 0 °F  
 Actual air flow 1126 cfm  
 Air flow factor 0.031 cfm/Btuh  
 Static pressure 0 in H2O  
 Space thermostat

**COOLING EQUIPMENT**

Make  
 Trade  
 Cond  
 Coil  
 ARI ref no.  
 Efficiency 0 SEER  
 Sensible cooling 0 Btuh  
 Latent cooling 0 Btuh  
 Total cooling 0 Btuh  
 Actual air flow 1126 cfm  
 Air flow factor 0.047 cfm/Btuh  
 Static pressure 0 in H2O  
 Load sensible heat ratio 0.93

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
basement	952	5708	1637	175	76
main flr	952	10617	9054	326	421
family rm	252	5705	3170	175	147
upstairs	952	10922	8388	335	390
mast bd	252	3708	1965	114	91
Entire House	3360	36660	24214	1126	1126
Other equip loads		0	0		
Equip. @ 0.96 RSM			23149		
Latent cooling			1755		
<b>TOTALS</b>	<b>3360</b>	<b>36660</b>	<b>24904</b>	<b>1126</b>	<b>1126</b>

Printout certified by ACCA to meet all requirements of Manual J 8th Ed

