



**City of Annapolis**  
 Department of Planning and Zoning  
 145 Gorman Street Fl 3  
 Annapolis, MD 21401-2529

FOR CITY USE ONLY	
PERMIT #	Mech-0619
ISSUED	11/4/21
EXPIRES	6/30/23

Permitting@annapolis.gov • 410-260-2200 • Fax 410-263-9158 • TDD use MD Relay or 711 • www.annapolis.gov

### Mechanical Permit Application

All work must be done in accordance with the State Mechanical code as adopted by the City of Annapolis.

Residential     Commercial     New building     Existing building

Job location 1012 Park Ave

Property Tax ID # \_\_\_\_\_ Related Building Permit # B1021-0342

Property owner Chaustrak Prop

Address \_\_\_\_\_

City \_\_\_\_\_ ST \_\_\_\_\_ Zip \_\_\_\_\_

Occupant None Phone 443-336-5642

State license holder WEHN HVAC, INC. John Wehn MD license # 15935

Trading as 1416 St. Stephens Church Rd. Crownsville, Maryland 21032 Phone \_\_\_\_\_

(410) 793-0777

	Fuel type	Total new install	Alter existing	Replace existing	Service work
Air conditioning		<input checked="" type="checkbox"/>			
Heating		<input checked="" type="checkbox"/>			
Fireplace					
Refrigeration					
Hydronics					
Ductwork		<input checked="" type="checkbox"/>			
Heat Pump	<input checked="" type="checkbox"/>				
Type 2 commercial hood & Ductwork					

Gas fired heating appliance BTU input \_\_\_\_\_ output \_\_\_\_\_

Oil fired heating appliance GPH of burner \_\_\_\_\_ Size & type of flue or vent \_\_\_\_\_

Cost of entire installation (material and labor) 11,850.00

Additional comments Install 2 Heat Pump Systems with Ductwork

I certify and agree as follows; I am authorized to make this application; that the information is correct; that I will comply with all conditions, regulations and codes of the City of Annapolis which are applicable hereto; that I will perform no work on the above property not specifically described hereon; that the permit is void if authorized work does not commence within 120 days from issue date; that the issued permit is not transferable; that all fees are not refundable; that no work shall be started until permit is issued.

Signature of licensed contractor [Signature] Date 10/27/21

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Total fee due \$171.10 Received by [Signature] Date \_\_\_\_\_

Special condition (if any) / Notes \_\_\_\_\_

**Residential Heat Loss and Heat Gain Calculation**

In accordance with ACCA Manual J  
Manual J ACCA 8th Edition Version 2

**Report Prepared By:****Wehn HVAC Inc.****For:**

*Chauhan Prop  
1012 Park Ave  
Annapolis Md 21403*

**Design Conditions:** Baltimore AP**Indoor:**

Summer temperature: 68  
Winter temperature: 72  
Relative humidity: 50

**Outdoor:**

Summer temperature: 95  
Winter temperature: 13  
Summer grains of moisture: 107  
Daily temperature range: High

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
<b>Whole House</b>	<b>1,917.7 sq.ft.</b>	<b>17,629</b>	<b>4,772</b>	<b>22,401</b> <b>( 2 tons )</b>	<b>25,594</b>
<b>First Floor</b>		17,629	4,770	22,399	25,593
Family Room/Dining	545 sq.ft.	3,965	1,322	5,287	7,037
Infiltration		673	862	1,535	1,841
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
People	2	600	460	1,060	0
Fireplace		0	0	0	1,660
- Best - combustion air from outdoors, glass doors, damper					
Floor	545 sq.ft.	0	0	0	836
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
S Wall	198.3 sq.ft.	279	0	279	643
- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board					
Window	45 sq.ft.	1,836	0	1,836	1,317
- Double pane; Vinyl frame; Clear glass					
- No inside shading; Coating: None (clear glass); No outside shading.					
Ceiling	545 sq.ft.	577	0	577	740
- Under ventilated attic; R-44 (14 inch); Dark					
Kitchen	188 sq.ft.	2,044	230	2,274	1,744
Infiltration		179	230	409	491
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Miscellaneous		1,200	0	1,200	0
Floor	187.5 sq.ft.	0	0	0	288
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
N Wall	110.7 sq.ft.	156	0	156	359
- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Window	12 sq.ft.	310	0	310	351
	- Double pane; Vinyl frame; Clear glass				
	- No inside shading; Coating: None (clear glass); No outside shading.				
Ceiling	188 sq.ft.	199	0	199	255
	- Under ventilated attic; R-44 (14 inch); Dark				
Pantry	55 sq.ft.	114	0	114	289
Infiltration		0	0	0	0
	- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2				
Floor	55 sq.ft.	0	0	0	84
	- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)				
N Wall	40 sq.ft.	56	0	56	130
	- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board				
Ceiling	55 sq.ft.	58	0	58	75
	- Under ventilated attic; R-44 (14 inch); Dark				
Entry Foyer	82 sq.ft.	717	345	1,062	1,805
Infiltration		269	345	614	736
	- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2				
Floor	82.2 sq.ft.	0	0	0	126
	- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)				
N Wall	63.3 sq.ft.	89	0	89	205
	- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board				
Door	18 sq.ft.	272	0	272	627
	- Metal; Fiberglass; No storm				
Ceiling	82 sq.ft.	87	0	87	111
	- Under ventilated attic; R-44 (14 inch); Dark				
Masterbed	278 sq.ft.	4,310	1,322	5,632	4,704
Infiltration		673	862	1,535	1,841
	- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2				
People	2	600	460	1,060	0
Floor	277.7 sq.ft.	0	0	0	426
	- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)				
NE Wall	229 sq.ft.	322	0	322	743
	- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board				
Window	45 sq.ft.	2,421	0	2,421	1,317
	- Double pane; Vinyl frame; Clear glass				
	- No inside shading; Coating: None (clear glass); No outside shading.				
Ceiling	278 sq.ft.	294	0	294	377
	- Under ventilated attic; R-44 (14 inch); Dark				
Master Bathroom	132 sq.ft.	1,603	287	1,890	2,015
Infiltration		224	287	511	614
	- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2				
Floor	132 sq.ft.	0	0	0	202

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
SE Wall	179 sq.ft.	252	0	252	581
- Wood frame, with sheathing, siding or brick; R-19	5 1/2 in.; R-1.3				
Window	15 sq.ft.	987	0	987	439
- Double pane; Vinyl frame; Clear glass					
- No inside shading; Coating: None (clear glass); No outside shading.					
Ceiling	132 sq.ft.	140	0	140	179
- Under ventilated attic; R-44 (14 inch); Dark					
WIC	65 sq.ft.	69	0	69	188
Infiltration		0	0	0	0
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Floor	65 sq.ft.	0	0	0	100
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
Ceiling	65 sq.ft.	69	0	69	88
- Under ventilated attic; R-44 (14 inch); Dark					
Powder Room	39 sq.ft.	41	0	41	113
Infiltration		0	0	0	0
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Floor	39.4 sq.ft.	0	0	0	60
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
Ceiling	39 sq.ft.	41	0	41	53
- Under ventilated attic; R-44 (14 inch); Dark					
Bedroom	254 sq.ft.	2,707	632	3,339	3,585
Infiltration		493	632	1,125	1,350
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Floor	254 sq.ft.	0	0	0	390
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
NW Wall	215 sq.ft.	303	0	303	698
- Wood frame, with sheathing, siding or brick; R-19	5 1/2 in.; R-1.3				
Window	15 sq.ft.	807	0	807	439
- Double pane; Vinyl frame; Clear glass					
- No inside shading; Coating: None (clear glass); No outside shading.					
Glassdoor	18 sq.ft.	835	0	835	363
- French doors; Double pane; Wood or vinyl frame; Low emittance					
- No inside shading; Coating: None (clear glass); No outside shading.					
Ceiling	254 sq.ft.	269	0	269	345
- Under ventilated attic; R-44 (14 inch); Dark					
Bathroom 2	62 sq.ft.	149	0	149	372
Infiltration		0	0	0	0
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Floor	62.4 sq.ft.	0	0	0	96
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
N Wall	59.3 sq.ft.	83	0	83	192
- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board					
Ceiling	62 sq.ft.	66	0	66	84
- Under ventilated attic; R-44 (14 inch); Dark					
Mudroom	218 sq.ft.	1,910	632	2,542	3,741
Infiltration					
		493	632	1,125	1,350
- Tightness: Best; Winter ACH: .3 ; Summer ACH: .2					
Floor	217.5 sq.ft.	0	0	0	334
- Over unheated basement; Hardwood or tile; R-19 (4 - 6.5 inch)					
S Wall	214.3 sq.ft.	302	0	302	695
- Wood frame, with sheathing, siding or brick; R-19 5 1/2 in.; R-1.3 1/2 in. Asphalt board					
Window	15 sq.ft.	612	0	612	439
- Double pane; Vinyl frame; Clear glass					
- No inside shading; Coating: None (clear glass); No outside shading.					
Door	18 sq.ft.	272	0	272	627
- Metal; Fiberglass; No storm					
Ceiling	218 sq.ft.	231	0	231	296
- Under ventilated attic; R-44 (14 inch); Dark					
<b>Whole House</b>	<b>1,917.7 sq.ft.</b>	<b>17,629</b>	<b>4,772</b>	<b>22,401</b> <b>( 2 tons )</b>	<b>25,594</b>