



Project Summary

1 AWHP

Energy Vanguard

Job: 26014 JSDT-V Hullsiek
Date: April 14, 2026
By: Sophie Ashley
Plan: 26014 Rev0

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Project Information

For: William Hullsiek
290 Jay St, Birchwood Village, MN 55110

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Design Information

Weather: St Paul Downtown, MN, US

Winter Design Conditions

Outside db -15 °F
Inside db 70 °F
Design TD 85 °F

Ventilation Method ASHRAE 62.2-2010

Heating Summary

Structure 16732 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 16732 Btuh

Infiltration

Method Blower door
Shielding / stories 3 (partial) / 2
Pressure / ACH / AVF 50 Pa / 0.8 / 311 cfm

	Heating	Cooling
Area (ft²)	2880	2880
Volume (ft³)	23328	23328
Air changes/hour	0.09	0.04
Equiv. AVF (cfm)	36	14

Heating Equipment Summary

Make NTI Verta
Trade
Model NHP32-036
AHRI ref

Efficiency 0 HSPF
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 0 °F

Backup: NTI FTVN085
Input = 85000 Btuh, Output = 79000 Btuh, 93 AFUE

Bold/italic values have been manually overridden

Summer Design Conditions

Outside db 86 °F
Inside db 78 °F
Design TD 8 °F
Daily range M
Relative humidity 45 %
Moisture difference 33 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 8384 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 8384 Btuh

Latent Cooling Equipment Load Sizing

Structure 1111 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 1111 Btuh

Equipment Total Load (Sen+Lat) 9494 Btuh
Req. total capacity at 0.70 SHR 1.0 ton

Cooling Equipment Summary

Make NTI Verta
Trade
Cond NHP32-036
Coil Control32-7

AHRI ref
Efficiency 0 SEER
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.88

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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...Hullsiek NewH MN26014 JSDT-V Hullsiek Rev0.rup Calc = MJ8 Front Door faces: S

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Page 1