SAMPLE – FOR ILLUSTRATION ONLY, NOT FOR PERMIT USE

Sample Home

100 Sample Lane (fictional address), Austin, TX 78701 · 2,160 sq ft, 2 stories, 3 bedrooms · IECC zone 2A · prepared by the Loadpol team, November 12, 2026

Key results (from the Wrightsoft report)

29,496 Heating load, Btu/h	**20,134** Sensible cooling, Btu/h	**3,755** Latent cooling, Btu/h	**23,889** Total cooling, Btu/h
2.5 ton Heat pump, 875 cfm	**33 °F** Balance point, 5 kW backup	**0.068** Friction rate, in./100 ft · TEL 500 ft	**52 cfm** Ventilation, ERV

Design conditions	Austin, Bergstrom IAP, TX (ACCA design conditions): 30 °F / 98 °F outdoor, 70 °F / 75 °F indoor, 50% RH
Envelope	Windows: Low-E, argon, vinyl frame, NFRC U-0.30 / SHGC 0.25 · Walls: Wood frame, R-13 · Ceiling: R-49 attic insulation · Floor: Slab on grade · Air leakage: 5 ACH50 (blower-door assumption = IECC limit) · Ducts: Vented attic, R-8, sealed to IECC
Equipment (Manual S)	Goodman GLZS4BA3010A heat pump + AMVT42CP1300A air handler, AHRI ref. 215884104, SEER2 15.2, EER2 12.0, HSPF2 7.8. At design conditions: cooling 26,459 Btu/h (111%), sensible 21,589 (107%), latent 4,871 (130%); heating 20,171 Btu/h at 30 °F + Goodman HKSX05XC 5 kW heat kit (17,061 Btu/h).
Ducts (Manual D)	11 supply branches 4–8 in. round, trunks 22 x 8 / 12 x 8 / 14 x 8 in., return 16 in. round 875 cfm; air handler in the laundry room, ducts in the vented attic (R-8).

Documents in this sample

Document	Where
Manual J (Right-J worksheets, project summary)	Wrightsoft report, pages 1–8
Manual S (equipment, AHRI reference, balance point)	Wrightsoft report, page 1
Duct layout drawing, second and first floor	Wrightsoft report, pages 9–10
Manual D (duct system summary, return)	Wrightsoft report, pages 11–12
Whole-house ventilation (ASHRAE 62.2-2010 / IRC)	Loadpol sheet, 52 cfm ERV
AHRI Directory certificate	Real projects: public certificate attached as issued – not reproduced here
REScheck / ENERGY STAR HVAC Design Report	Real projects on request – not reproduced here

Calculated in ACCA-approved Wrightsoft Right-Suite Universal by the Loadpol team. Loadpol is not affiliated with or endorsed by ACCA or Wrightsoft. Not engineer-stamped.

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