



Load Short Form
Entire House
SHATTO HEATING & AIR, INC.

Job: DOWNS RESIDENCE
 Date: Mar 20, 2026
 By: KARLY SHATTO

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Project Information

For: RJH CONSTRUCTION

Design Information

	Htg	Clg	Infiltration	Simplified Average
Outside db (°F)	33	92	Method	
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	45		

HEATING EQUIPMENT

Make THE TRANE COMPANY
 Trade THE TRANE COMPANY
 Model 5TWR5024
 AHRI ref 8908427

Efficiency 8.5 HSPF2
 Heating input
 Heating output 22400 Btuh @ 47°F
 Temperature rise 26 °F
 Actual air flow 793 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = 28 °F

COOLING EQUIPMENT

Make THE TRANE COMPANY
 Trade THE TRANE COMPANY
 Cond 5TWR5024
 Coil 5TEM4B02
 AHRI ref 8908427

Efficiency 11.5 EER2, 14.3 SEER2
 Sensible cooling 16660 Btuh
 Latent cooling 7140 Btuh
 Total cooling 23800 Btuh
 Actual air flow 793 cfm
 Air flow factor 0.059 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.82

Backup:
 Input = 5 kW, Output = 17837 Btuh, 100 AFUE

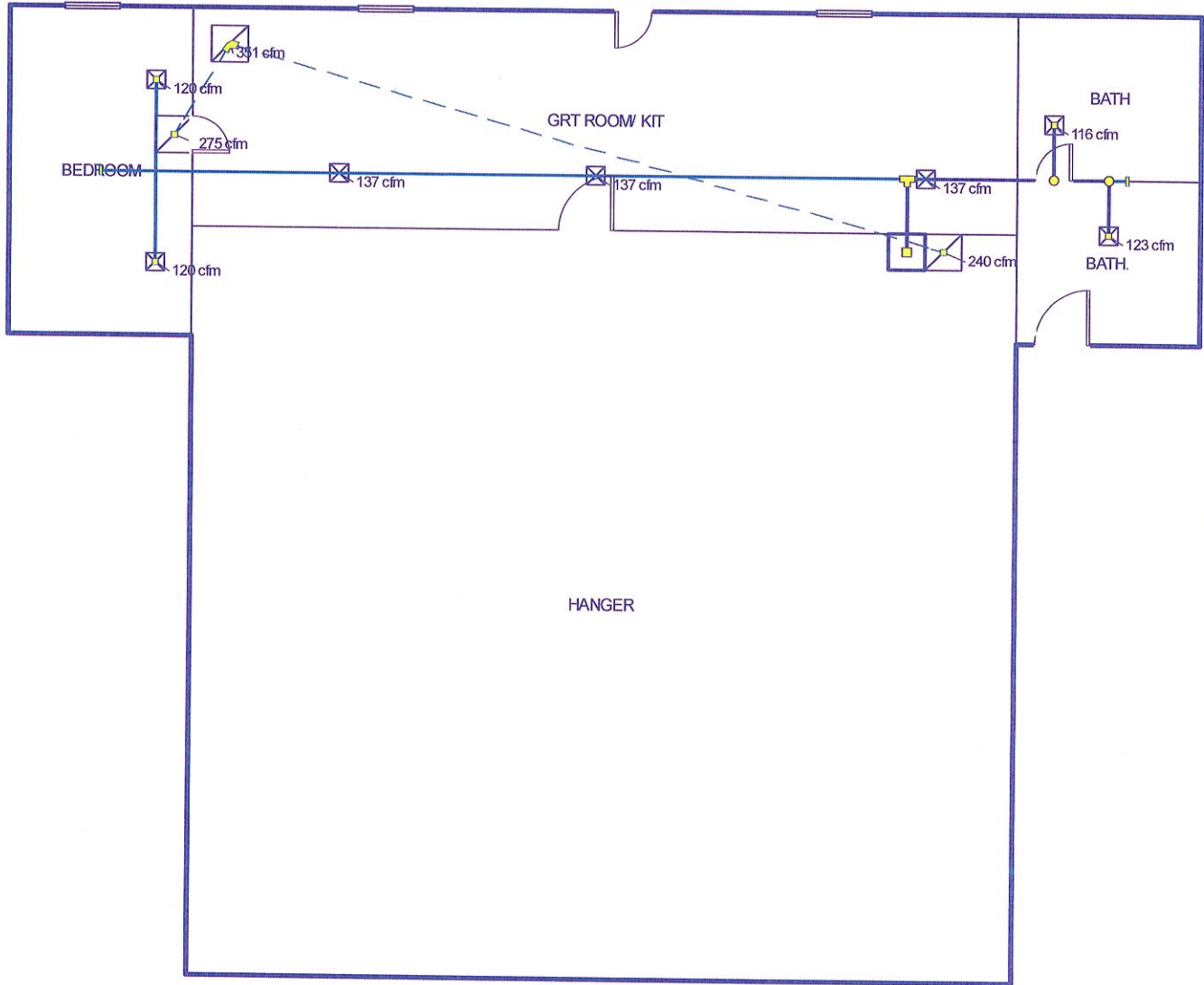
ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BATH.	90	2778	1502	123	88
BATH	90	2617	1343	116	79
GRT ROOM/ KIT	540	7036	7028	313	412
BEDROOM	180	5406	3639	240	214
Entire House	900	17837	13512	793	793
Other equip loads		0	0		
Equip. @ 1.00 RSM			13512		
Latent cooling			2927		
TOTALS	900	17837	16439	793	793

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





DOWNNS RESIDENCE



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Performed by KARLY SHATTO for:
RJH CONSTRUCTION

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