



Load Short Form

First Floor

Majestic Air Conditioning

17011 Seven Pines Drive, Spring, TX 77396 Phone: 281-376-2224 Email: service@majestic-ac.com Web: www.tdlr.texas.gov License: TACLB17662E

Project Information

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	36	93	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	34	18	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	30	53		

HEATING EQUIPMENT

Make	Trane
Trade	XT80
Model	TUD1C080A9H41B*
AHRI ref	2008221
Efficiency	80 AFUE
Heating input	80000 Btuh
Heating output	63000 Btuh
Temperature rise	47 °F
Actual air flow	1225 cfm
Air flow factor	0.045 cfm/Btuh
Static pressure	0.80 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Trane
Trade	TRANE
Cond	4TTR4043L1
Coil	4TXCC007DS3+*UD1C080A9H4
AHRI ref	8676548
Efficiency	13.0 EER, 16 SEER
Sensible cooling	32800 Btuh
Latent cooling	8200 Btuh
Total cooling	41000 Btuh
Actual air flow	1225 cfm
Air flow factor	0.048 cfm/Btuh
Static pressure	0.80 in H2O
Load sensible heat ratio	0.79

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
dining	175	3340	2796	151	133
entry	108	0	0	0	0
study/opt bed5	154	5271	3915	239	187
pwdr	42	883	302	40	14
master clos	139	1565	284	71	14
master bath	153	1557	1154	71	55
master bedroom	288	5257	6014	238	287
brkfst	148	3692	2190	167	104
kitchen	298	207	1654	9	79
master hall	32	0	0	0	0
utility	60	521	1605	24	77
hall	85	0	0	0	0
pantry	74	0	0	0	0
family	412	4716	5784	214	276

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





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Second Floor

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Inside db (°F)	70	75	Construction quality	Semi-tight
Design TD (°F)	34	18	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	30	53		

HEATING EQUIPMENT

Make	Trane
Trade	XT80
Model	TUD1B060A9H31B*
AHRI ref	2008231
Efficiency	80 AFUE
Heating input	60000 Btuh
Heating output	47000 Btuh
Temperature rise	44 °F
Actual air flow	962 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0.80 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Trane
Trade	TRANE
Cond	4TTR4031L1
Coil	4TXCB004DS3+*UD1B060A9H3
AHRI ref	8676393
Efficiency	13.0 EER, 16 SEER
Sensible cooling	20440 Btuh
Latent cooling	8760 Btuh
Total cooling	29200 Btuh
Actual air flow	962 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0.80 in H2O
Load sensible heat ratio	0.92

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
clos3	35	0	0	0	0
bath3	126	1284	1085	70	46
bedroom4	197	2996	4552	163	192
clos4	37	0	0	0	0
bath2	61	2206	1807	120	76
bedroom2	156	2305	3032	126	128
clos2	27	0	0	0	0
gameroom	442	749	2200	41	93
landing	38	0	0	0	0
bedroom3	154	2191	2815	119	119
dormer ledge	42	0	0	0	0
open	72	0	0	0	0
stairs2	59	0	0	0	0
Media	203	2170	2419	118	102

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