Check

Project Summary
Entire House
S. G. TORRICE COMPANY

Job
Dat
By:

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/23/15

Project Information

For: Olins Project Portland Maine, S.G. Torrice Co.
PO Box 275, Farmington, NH 03835
Phone: 755-4900

Notes: 1) Distributor is not responsible for the accuracy of the load calculation if inaccurate/incomplete construction information is provided by the dealer.
2) It is the sole responsibility of the dealer to ensure that the duct system is adequately sized for the airflow capacity of the specified equipment.

Design Information

Weather: Portland, ME, US

Winter Design Conditions

Outside db	-11	°F
Inside db	72	°F
Design TD	83	°F

Summer Design Conditions

Outside db	93	°F
Inside db	70	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	54	gr/lb

Heating Summary

Structure	40347	Btuh
Ducts	0	Btuh
Central vent (184 cfm)	8382	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	48729	Btuh

Sensible Cooling Equipment Load Sizing

Structure	23677	Btuh
Ducts	0	Btuh
Central vent (184 cfm)	2297	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.98	
Equipment sensible load	25403	Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 3
Pressure / AVF	4 Pa / 0 cfm

	Heating	Cooling
Area (ft²)	2067	2067
Volume (ft³)	26151	26151
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

Latent Cooling Equipment Load Sizing

Structure	0	Btuh
Ducts	0	Btuh
Central vent (184 cfm)	3354	Btuh
Equipment latent load	0	Btuh
Equipment total load	25403	Btuh
Req. total capacity at 0.70 SHR	3.0	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a

Efficiency	n/a	
Heating input		
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	0	cfm
Air flow factor	0	cfm/Btuh
Static pressure	0	in H2O
Space thermostat	n/a	

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref.	n/a

Efficiency	n/a	
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	

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

Project Summary
Floor1
S. G. TORRICE COMPANY

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Design Information

Weather: Portland, ME, US

Winter Design Conditions

Outside db	-11	°F
Inside db	72	°F
Design TD	83	°F

Summer Design Conditions

Outside db	93	°F
Inside db	70	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	54	gr/lb

Heating Summary

Structure	16660	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	2283	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	18942	Btuh

Sensible Cooling Equipment Load Sizing

Structure	9931	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	626	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.98	
Equipment sensible load	10324	Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 3
Pressure / AVF	4 Pa / 0 cfm

	Heating	Cooling
Area (ft²)	769	769
Volume (ft³)	6152	6152
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

Latent Cooling Equipment Load Sizing

Structure	0	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	914	Btuh
Equipment latent load	914	Btuh
Equipment total load	11238	Btuh
Req. total capacity at 0.70 SHR	1.2	ton

Heating Equipment Summary

Make		
Trade		
Model		
AHRI ref		
Efficiency	80	AFUE
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	603	cfm
Air flow factor	0.036	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
AHRI ref		
Efficiency	0	SEER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	603	cfm
Air flow factor	0.061	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.92	

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Project Summary
Floor2
S. G. TORRICE COMPANY

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Date: 07/23/15

Project Information

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PO Box 275, Farmington, NH 03835
Phone: 755-4900

Notes: 1) Distributor is not responsible for the accuracy of the load calculation if inaccurate/incomplete construction information is provided by the dealer.
2) It is the sole responsibility of the dealer to ensure that the duct system is adequately sized for the airflow capacity of the specified equipment.

Design Information

Weather: Portland, ME, US

Winter Design Conditions

Outside db	-11	°F
Inside db	72	°F
Design TD	83	°F

Summer Design Conditions

Outside db	93	°F
Inside db	70	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	54	gr/lb

Heating Summary

Structure	8976	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	2283	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	11259	Btuh

Sensible Cooling Equipment Load Sizing

Structure	6166	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	626	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.98	
Equipment sensible load	6643	Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 3
Pressure / AVF	4 Pa / 0 cfm

	Heating	Cooling
Area (ft²)	709	709
Volume (ft³)	5672	5672
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

Latent Cooling Equipment Load Sizing

Structure	0	Btuh
Ducts	0	Btuh
Central vent (50 cfm)	914	Btuh
Equipment latent load	914	Btuh
Equipment total load	7556	Btuh
Req. total capacity at 0.70 SHR	0.8	ton

Heating Equipment Summary

Make		
Trade		
Model		
AHRI ref		
Efficiency	80	AFUE
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	375	cfm
Air flow factor	0.042	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
AHRI ref		
Efficiency	0	SEER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	375	cfm
Air flow factor	0.061	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.88	

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Project Summary
Floor3
S. G. TORRICE COMPANY

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PO Box 275, Farmington, NH 03835
Phone: 755-4900

Notes: 1) Distributor is not responsible for the accuracy of the load calculation if inaccurate/incomplete construction information is provided by the dealer.
2) It is the sole responsibility of the dealer to ensure that the duct system is adequately sized for the airflow capacity of the specified equipment.

Design Information

Weather: Portland, ME, US

Winter Design Conditions

Outside db	-11	°F
Inside db	72	°F
Design TD	83	°F

Summer Design Conditions

Outside db	93	°F
Inside db	70	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	54	gr/lb

Heating Summary

Structure	14712	Btuh
Ducts	0	Btuh
Central vent (84 cfm)	3816	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	18528	Btuh

Sensible Cooling Equipment Load Sizing

Structure	7580	Btuh
Ducts	0	Btuh
Central vent (84 cfm)	1046	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.98	
Equipment sensible load	8436	Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 3
Pressure / AVF	4 Pa / 0 cfm

	Heating	Cooling
Area (ft²)	589	589
Volume (ft³)	14327	14327
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

Latent Cooling Equipment Load Sizing

Structure	0	Btuh
Ducts	0	Btuh
Central vent (84 cfm)	1527	Btuh
Equipment latent load	1527	Btuh
Equipment total load	9963	Btuh
Req. total capacity at 0.70 SHR	1.0	ton

Heating Equipment Summary

Make		
Trade		
Model		
AHRI ref		
Efficiency	80	AFUE
Heating input	0	Btuh
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	460	cfm
Air flow factor	0.031	cfm/Btuh
Static pressure	0	in H2O
Space thermostat		

Cooling Equipment Summary

Make		
Trade		
Cond		
Coil		
AHRI ref		
Efficiency	0	SEER
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	460	cfm
Air flow factor	0.061	cfm/Btuh
Static pressure	0	in H2O
Load sensible heat ratio	0.85	

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