

Project Summary
Entire House
S. G. TORRICE COMPANY

Job:
 Date: May 22, 2015
 By:

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

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	Cooling
Area (ft ²)	2067	2067
Volume (ft ³)	26151	26151
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

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

Job:
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 By:

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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

Job:
 Date: May 22, 2015
 By:

Project Information

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

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 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

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	Cooling
Area (ft ²)	709	709
Volume (ft ³)	5672	5672
Air changes/hour	0	0
Equiv. AVF (cfm)	0	0

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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 By:

Project Information

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 Phone: 755-4900

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 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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