

Date: July 21, 2022
File #: 21 - 271067
Folder Name: 1378 LINCOLN AVE
PIN: 032823310059



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ATMOSPHERIC GAS BOILER

Winter Design Temp: -15 degrees

HEAT LOSS LOAD CALCULATION

Customer Address: 1378 Lincoln Ave St Paul, MN 55105

BASEMENT

Running Walls Below Grade: 7.00 X Wall Height: 118.00 = 826.00 SQUARE FT OF GROSS WALL BELOW GRADE

- MINUS -

12.00 SQUARE FT OF GROSS WINDOWS + DOORS

= EQUALS =

A 814.00 NET WALL BELOW GRADE

FIRST FLOOR

Running Walls: 8.00 X Wall Height: 122.00 = 1,098.00 SQUARE FT OF GROSS WALL FIRST FLOOR

+ PLUS +

SECOND FLOOR

Running Walls: 7.00 X Wall Height: 88.00 = 616.00 SQUARE FT OF GROSS WALL SECOND FLOOR

+ PLUS +

THIRD FLOOR

Running Walls: X Wall Height: = 0.00 SQUARE FT OF GROSS WALL THIRD FLOOR

- MINUS -

188.00 SQUARE FT OF GROSS WINDOWS + DOORS

= EQUALS =

B 1,526.00 NET WALL ABOVE GRADE

Windows + Door (SF) 200.00 X HTM 50 (DOUBLE GLASS) = 10,000.00 BTU

Infiltration 260.00 X HTM 50 (LOOSE) = 13,000.00 BTU
(Windows + Doors) X 1.3

A Net Wall Below Grade 814.00 X HTM 5 = 4,070.00 BTU

B Net Wall Above Grade 1,526.00 X HTM 7 (4"+) = 10682 BTU

Ceiling Square Feet 720.00 X HTM 9 (4"+) = 6480 BTU

Floor Square Feet 1,180.00 X HTM 2 (Below Grade) = 2,160.00 BTU

46,392.00 TOTAL BTU

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MINNEAPOLIS SAINT PAUL
PLUMBING • HEATING • AIR
Since 1918
640 Grand Ave, St. Paul, MN
(651) 228-9200

Appliance Performance Test
Attach to gas line adjacent to the regulator

Date _____
Technician 12-21-2021
License Number 3547
Manifold Gas Pressure _____
O₂ % 3.5
CO₂ % 10.2
CO ppm 6.9
Flue Temperature 27
Efficiency % 88.7
Excess Air % 801
71.2

2107

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