

THE G. C. BROACH COMPANY

GAS TO GAS HEAT EXCHANGER PROCESS AND MECHANICAL SUMMARY

Job Number _____ Date _____

* SEE NOTE 1

You specify the
new performance
and we'll backrate
this unit to fit it.

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OPERATING CHARACTERISTICS

| Performance Condition ----- | <u>Design</u> | | |
|------------------------------|---------------|-------|-------|
| Gas Flow (#/Hr) | 69,120 | | |
| Gas Inlet Temp. (Deg. F) | 609 | | |
| Gas Outlet Temp. (Deg. F) | 280 | | |
| Gas Pressure Drop (" W.C.) | 2.7 | | |
| Air Flow (#/Hr) | 65,556 | | |
| Air Inlet Temp. (Deg. F) | 62 | | |
| Air Outlet Temp. (Deg. F) | 447 | | |
| Air Pressure Drop (" WC) | 1.4 | | |
| Heat Exchanged, (MM BTU/Hr.) | 6.13 | | |
| Fuel | | | |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

MECHANICAL DESIGN

| | | | |
|------------------------------|---------------------|-------|-------|
| Air Passes - Even or Odd | <u>Even</u> | | |
| Block Designation | <u>Counter Flow</u> | | |
| Design Plate Temp. (Deg. F) | 700 | | |
| Pressure Diff - Plate (" WC) | 30 | | |
| Plate Width (Inch) | 56 | | |
| Plate Height (Inch) | 155 | | |
| Plate Thickness (Inch) | 0.06 | | |
| Air Gap (Inch) | 0.05 | | |
| Gas Gap (Inch) | .4375 | | |
| Number of Plates/Block | 119 | | |
| Number of Blocks | One | | |
| Heating Surface (Sq.Ft.) | 8,165 | | |
| Weight (Lbs.) | 30,200 | | |
| Plate Material | C.S. | | |
| Frame Material | C.S. | | |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

* Note 1. Unit can be back-rated for almost any special customized operating conditon.