PROCESS systems
Quality · Dedication · Service

GAS DRYER INQUIRY DATA SHEET

A. ENTERING CONDITIONS:

1. Gas to be dried..... _____
   (List constituents of gas and % of each. Indicate whether by Vol. or wt.)
   (See separate sheet for other constituents)
2. Molecular weight- of process gas..... _____
3. Specific Gravity of process gas..... _____
4. Specific Heat of process gas..... _____
5. Flow rate of process gas (if intermittent application refer to C) ..... _____SCFM
6. Inlet pressure of process gas (list maximum and minimum)..... _____PSIG
7. Inlet temperature of process gas (list maximum-and minimum)..... _____°F
8. Is process gas saturated at inlet temperature: .....Yes – No
9. List amount of water in gas _____, % of sat._____or inlet dew point temperature of as _____°F

B. DESIRED OUTLET CONDITIONS:

10. Desired outlet moisture content_____, or dew point temperature _____°F
11. Dew point is measured at_____ operating pressure, or_____ atmospheric pressure
12. Dew point is _____average (elevation permissible at tower reversal), or _____maximum permissible
13. lf contaminants are to be removed, explain under remarks

C. OPERATING CYCLES:

14. Drying is required: _____continuously _____intermittently
    (If intermittently, _____of hours on, _____of hours off)

D. TYPE OF REGENERATION DESIRED:

15. Internal heat reactivated..... _____
16. Pressure Swing heatless..... _____
17. External beat reactivated blower..... _____
18. External heat reactivated closed loop reactivation..... _____
19. External beat reactivated split flow closed loop reactivation ..... _____
20. Other, Specify..... _____

E. METHOD OF OPERATION DESIRED:

21. Automatic control, or other specify..... _____
22. Reactivation heat source (electric or stream)..... _____

IMPORTANT
In the drying of gases, the higher the temperature, the more moisture the gas will hold. This may result in a dryer much larger and more expensive than need be if the temperatures were held to the lowest practical level. For example: Saturated air at 100°F contains almost twice the moisture as saturated air at 80°F. Likewise, operating pressures play an important part in determining moisture content of compressed gasses. Saturated air at 105 psig contains approximately 20% less moisture than saturated air at 80 psig at the same temperature condition. Operating at the highest practical pressure will result in a smaller, more efficient and more economical dryer design.

Please return completed form to:

Process Systems, LLC
Email: sales@processsystems.com
Fax: 410-354-7656