

QUESTION AND ANSWER SET 1

Q1. Item 1 - Do you require the depth of the oven with the door open or can we assume that the door will swing out under the hood?

A1. The door is allowed to swing past the hood opening. The quoted depth is the maximum depth of the oven with the door closed and sash lowered in front of the oven.

Q2. Item 2 - The oven is capable of 220°C. What is the max temp of the application?

A2. 220 degrees Centigrade is the expected maximum temperature point.

Q3. Item 4 - The options for additional ports are limited due to heater placement. The options are center top or far rear, upper corner on the left or right sides. Please choose one of those.

A3. Upper corner on the left would be preferable. "Left side" is defined as facing the front of the unit as an operator.

Q4. Item 6 - Is a stainless steel door upgrade from the standard aluminum door acceptable?

A4. Yes.

Q5. Item 7 - The external dimension is 8", the internal dimension on the view port is 6".

A5. Dimensions are those stated in the RFQ.

Q6. Item 8 - We will require 15 psi N2 to the oven and we will control the flow rate per your specifications.

A6. This is acceptable. Explain in your proposal how the flow is controlled.

Q7. Item 9 - Have you had any luck with certain TCs?

A7. NASA has no comment.

Q8. Item 11 - We propose 3 removable shelves with slides welded at evenly spaced, fixed locations in the oven. The shelf locations will be fixed. Is this acceptable?

A8. The only permissible fixed-height shelf would be at the bottom of the oven. If the oven's thermocouple is at the bottom, and sticks out from the oven wall, the shelf height would need to be just above this thermocouple. No other shelf can have a fixed height.

Q9. For Item 18, please provide more information and clarification.

A9. Corrosion and chemical resistance/compatibility can be temperature dependent. NASA wants to make sure to encompass our temperature range. Assume a 304 or 316 stainless steel as a baseline in terms of metals that are sufficient.

Q10. For Item 19 -

- a. Is this a separate pump all together from the main pump on the system or are you requesting that we quote the system without a pump and just have the pump as an option?

Answer 19a. Any reference to a pump is to be quoted as a separate line item. Anything in reference to pumping (such as vacuum controller) is to be considered part of the system.

- b. For your application the most cost-effective design will include full automation through the touch screen controller. To accommodate this request, we would actually provide an option for manual operation as an additional feature. Is this what you are requesting?

Answer 19b. If full automatic is your default standard, quote that. Manual option line items in addition are acceptable too.

Q11. Additional Questions:

1. Will NASA personnel be attending the FAT

Yes, a NASA employee will visit the awarded vendor's facility for fit and test before shipment of the oven.

2. Will you require an onsite installation/training for the oven?

It is not expected that NASA will require onsite installation/ training

3. Can you provide us with the times, temps and vac levels of the whole process?

NASA can only provide the limits of temperature and vacuum as mentioned in the description.