



RJ TECHNICAL
— RESOURCES —



INTERNAL DOCUMENT
- DATA SHEET -

Company Name	
Contact Name	
Contact Telephone (Office & Mobile)	
Contact Email	

- 1) System Identification (Company Name/Asset Identification)
- 2) What type of heating system? (Ladle, batch, roller, walking beam, boiler, incinerator, etc.)

*Note: please attach photos of current installation or add to pages 7 & 8 if possible.

- 3) Full description of the thermal process.
- 4) What is the desired heating system temperature of the load, ladle, boiler, etc.?
 - a) What is the current temperature? (_____ °C or _____ °F)

- 5) What fuel is used? (gaseous only, natural gas, coke oven etc.)
- 6) Is there an isolated/specific gas flow metering system for this heating system?
- Yes_____ / No_____
- a) If yes what type?
- 7) How many burners on the heating system?
- 8) What brand/manufacture of burners currently in operation on the heating system?
- (Brand of Burners):
- (Model Number of Burners):
- (Installation date of Burners):
- 9) What is the capacity of each burner? (Nm^3/h / Gj/h / BTU/h / kW)
- 10) Where are these burners mounted on the containment/furnace/oven etc.?

- 11) How many burner control zones are there in the heating system?
- 12) What type of burner control system is in use and where is it located?
- 13) What is the electrical supply, main current, of burner control system?
(Voltage) _____
- 14) What is the electrical supply, main current, for burner ignition?
(Voltage) _____ (Phase) _____

What is/are the dimensions of the flue opening?

(L) _____ (W) _____ (H) _____

- 15) What is the inside dimensions of heating system containment, furnace/ladle/boiler? (L W H)
(L) _____ (W) _____ (H) _____
- 16) What kind of material is being processed utilizing this heating system?

a) what is the thickness/cross section of the material being processed.

(L) _____ (W) _____ (H) _____

b) Illustrate Cross Section Dimensions:

- 17) Current quantity of material processed per unit per hour? (e.g. Tons/h, Kg/day, Lbs/month)

_____Tons/_____; _____Kg. /_____; _____Unit/_____.

- 18) Is there a process improvement goal in utilization of Energo Blue Reactor technology? If so please state this goal in applicable units e.g. additional units or percentage increase above the current throughput processed in (Tons/hour, Kg/day, Lbs/week etc.)

- 19) Is there significant scale formation, what kind and how thick? Percent of total weight per unit?

- 20) What is the current process time in the furnace/kiln/boiler/incinerator? (process duration)

- 21) What is your gas consumption Per Unit/Per hour/Per day/Per month/Per heating cycle?

- 22) Does the heating system have a recuperate? (air pre-heater) What is the preheated air temperature?

(Recuperate system) Yes_____ / No_____

(What is the preheated air temperature? (_____°C) (_____°F)

- 23) What is the air supply pressure supplied to the current burner system?

(Air pressure):

24) What is the blower system maximum capacity and pressure?

(Blower systems maximum pressure):

(Blower systems maximum volume):

25) What type of insulation does the furnace/ladle have? Roof/Walls/ Floor