

RO Design Guidelines

Requisite for a proper system proposal, please complete as much as possible.

Date _____ Job Name _____ Job Location _____

► Feed Water Conditions

- A.** Is the complete feed water analysis attached?
 Yes No
- B.** What is the source of the feed water?
 Surface Well
- C.** Is the source:
 Surface Well
 Sea Water
- D.** Is there a history of seasonal fluctuations in the water source or water quality?
Describe: _____
- E.** Is there Chlorine present in the feed water supply? Yes No
If yes, what is the concentration?
_____ mg/l.
- F.** What is the feed water temperature?
_____ ° C.
- G.** Does the feed water temperature vary? Yes No
If yes, what is the range?
_____ ° C to _____ ° C.
- H.** Is the raw water feed volume limited? Yes No
If yes, to what flow? _____

- I.** Is Hydrogen Sulfide (H₂S) present?
 Yes No
If yes, what is the concentration level? _____

- J.** Does the feed water have any color?
 Yes No

- K.** What is the feed water pressure?
_____ PSI, _____ Bar
Minimum _____, Max _____

► System Sizing

- A.** What is the daily volume of product water required per day?
_____ M³/day, _____ GPD.
- B.** What is the volume of product water required per hour?
_____ M³/HR, _____ GPH.
- C.** If possible, project future product water requirements 3 years from now.
_____ M³/day, _____ GPD.
- D.** How many hours per day is product water required? _____
How many days per week? _____
- E.** What are the product water quality (level of purity) requirements?
Please describe in as much detail as possible: _____

- F.** Does the product water quality need to meet any specific standard like US EPA, WHO, DWI, ASTM, USP, WFI, Etc.,? Please describe in detail: _____

- G.** What is the maximum number of days the R.O. system will **not** be in operation? _____

► Instrumentation

- A.** Are there any special control or instrumentation requirements?
 Yes No
- B.** Does this application require data transmission to a remote computer, HMI or monitors? Yes No
If yes, please describe in detail: _____

► Site Conditions

- A.** Where will the reject water from the R.O system go?
- B.** How much space is available for this system?
Width _____, Height _____

- C.** Is this equipment to go in a new or existing building?
 New Existing
- D.** What is the available electrical power?
 Volts _____, Phase _____
 Hertz _____, Amps _____.
- E.** What is the electrical cost per KWH?
 US dollars _____, Other _____.
- F.** Is there any cost for the raw water which is to be treated?
 _____ per _____ M³.
- G.** What environment will the system be located?
 Indoor Outdoor
- H.** What are the atmospheric conditions to which the system will be exposed? (Example: corrosive, damp, dusty, hazardous/explosive fumes or dust, extreme heat, etc.) Please describe:
- I.** What is the range of the ambient air temperature variations?
 _____ ° C to _____ ° C.
- J.** What is the approximate date that the system is required to be in operation?
 _____ / _____ / _____.
- K.** If engineering specifications and/or drawings are available, please provide a copy.
- L.** Are there storage facilities for the product water? Yes No
 If yes, what is the capacity?
 _____ M³, _____ Gallons.
 Material type? _____.
- M.** How many hours per day is the facility staffed? _____.
- N.** Is this a constant or intermittent duty application?
 Constant Intermittent
- O.** Please provide any additional special conditions of the application:

SKETCH

Please provide a sketch of the site where the system will be located. Show approximate locations of the feed water source, product water storage, reject water drain, and electrical connections. Show approximate dimensions, location of doorways and existing equipment or structures.

Once you have this form completed email it to service@belkraft.com or call 613-523-7800