COOLTECH FINLAND OY
INDUSTRIAL REFRIGERATION MACHINERY

Questionnaire for the selection of a pump circulating stations

Company: _____

1. Refrigerant
   ☐ R717 (ammonia)
   ☐ R22
   ☐ R507a
   ☐ R404a
   ☐ R134a
   ☐ another _____

2. System cooling capacity _____ kW

3. Boiling temperature _____ ^{o}C

4. Condensing temperature _____ ^{o}C

5. Subcooling after the condenser _____ ^{o}C

6. The required refrigerant flow through the evaporator(s) _____ m^3/hour
   or the circulation rate _____

7. Required pressure in the pump discharge line _____ bar (g)
   or required liquid column pump pressure _____ m
   or height difference between the pump and the evaporators _____ m
   resistance of evaporators _____ bar

8. The length of the pump discharge pipeline _____ m

9. Amount of evaporators _____ pcs

10. Internal volume of one of the evaporators on the refrigerant side _____ m^3

11. Defrosting of method of the evaporators:
    ☐ hot gas
    ☐ other

12. Number of simultaneously defrosted evaporators _____ pcs

13. Control of system of the liquid level in the receiver:
    ☐ a sensor of continuous level control
    ☐ point level sensors
    ☐ floating level sensors
    ☐ without system of level control

14. Receiver feeding system:
    ☐ a motor expansion valve
    ☐ manual control valve
    ☐ pilot float and mechanical expansion valve
    ☐ without feeding system

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15. Amount of refrigeration pumps
   ☐ one (working)
   ☐ two (1 working + 1 stand by)

16. Control board required
   ☐ yes
   ☐ no

17. Oil return system required
   ☐ yes
   ☐ no

18. Insulation required
   ☐ yes
   ☐ no

19. Other requirments _____ _____

The questionnaire was filled by:

Name: _____

Position: _____

Company: _____

Address: _____

E-mail: _____

Phone number: _____

_____   _____   «___» _____
    stamp, signature   name   date