

Pump Checklist

Plant information



Date:
 Customer:
 Contact:
 Reported problem:

Pump Typ:
 Serial number: ZG-No.:

Start-up of the pump system: (month/year)

New plant existing plant year of erection:.....
 Replacement of existing pumps: yes no

Total duty:
 Refrigerant: Quantity:..... (kg)
 Refrigerant Oil: (brand name or specification)
 Quantity: (L)

Total quantity of pumps:
 Control of the pumps: 100% / Standby 50% / 50%
 switchover: time hours of operation
 Minimum stand-still period Min after stoppage
 Minimum run time Min after restart

Pumping ratio:
 Flow rate: m³/h
 Differential pressure: bar (p behind the pump – p surge drum)
 Hours of operation:

Voltage: V
 Frequency control: yes no , if yes, betweenHz (Min.) andHz (Max.)

How is the minimum flow provided?
 Always flow into the system, at least m³/h
 Bypass line installed with Ø mm
 Bypass valve..... (brand and type),
 Bypass valve set at bar or
 in case of CO₂ Ø of permanent open orifice mm
 Evaporating temperature in the surge drum:
 Field of application: HP LP
 Rotation direction tested yes no

Installation: Suction line Ø: mm
 Height above suction flange to bottom of drum: m

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Fittings in the suction line: Valve Ø mm
 Typ (brand, model)
 Automatic operated: yes no
 Open during stand-still? yes no
 Filter yes no

Fittings in the discharge line: Discharge valve(brand, model)
 Check valve(brand, model)

Pump alignment: is the pump installed stress-free and aligned properly yes no

Safety equipment: Temperature switch connected yes no
 Differential pressure switch yes no
 Flow switch yes no

Surge drum: horizontal or vertical
 Diameter..... mm
 Length: mm
 Minimum level setpoint mm (to bottom of surge drum)
 Vortex breakers in the downleg yes no

Oil drainage: manual automatic
 Sampling location:
 Oil refilled since commissioning? yes no
 If yes, how much oil? L

Compressor: Piston Srew
 Compressor capacity: kW
 Max. pressure difference per day..... bar
 Amount of pressure variations > 1 bar per hour

Evaporator: Air cooled
 Plate
 Freezer
 Other

Distance from evaporator to the pump: m
 Height from evaporator to the pump: m
 Is each evaporator separately controlled?: yes no
 Amount of evaporator: pcs

Condenser: Evaporating (air-cooled)
 Plate Condenser
 Other:
 Control of the condensate at : HP LP

11.02.2022

Abbr.: JOe

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Please attach a sketch of pipework to pump and other pumps showing valve types and positions. If horizontal headers are used to one or more pumps, please indicate all pipe sizes on sketch. Thank you for your help!

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