

DBA Nordic Beer Systems of Idaho

Power Pack Install/Operation Manual Power Pack Models 301-S, 201-S 115V, Single Pump Units

Removal From Packing

- Carefully remove pumptop from packaging
- Carefully lift unit from packaging
- Always keep unit upright should unit be on sides or back, allow the unit to be upright for a minimum of 1 week prior to operating

Install Location

- Powerpacks are intended for indoor use only do not install outside
- Do not install on top of a walk in cooler (unless that is the ideal placement for the location - see table below)
- Optimal ambient operating temperature range is 50-90° F
- Powerpacks to be plugged into 20A, 115V outlet per UL guidelines
- See table below for minimum install clearances

| Unit Location | Minimum space required for proper air flow |
|--------------------|--|
| Top of Unit | 10" |
| Left Side of Unit | 6" |
| Right Side of Unit | 10" |
| Back of Unit | 6" |

Install Directions

- Remove pump top from unit
- Inspect glycol bath for debris
- Fill bath with 50/50 blend of 100% pure propylene glycol/water to top of copper coils within bath
- Attach glycol lines to pump on pump top with proper oetiker clamps . Insulate any exposed glycol lines
- Place pump top on unit leaving room to add glycol
- Plug pump motors into designated outlets on unit
- Plug unit into wall outlet
- As glycol fills lines add blended glycol/water mixture to keep glycol level at top of copper coils
- Inspect for any leaks
- Place pumptop and top cover onto unit, attaching with provided screws
- Glycol temperature will slowly reach 25° F

General Maintenance

- Check glycol level monthly to ensure glycol reaches the top of copper coils
- If glycol is low add 50/50 blend of 100% pure propylene glycol/water until it reaches the top of copper coils
- Should there be any evidence of ice build up in the unit, melt any ice and replace entire glycol blend with new glycol blend
- Glycol blend should be replaced every 6 months
- Check and clean any dust buildup on and around unit
- Check glycol line insulation, replace if needed
- Check electrical cords for any cuts or fraying
- Clean compressor and radiator monthly
- Power packs are to be cleaned/serviced monthly (at minimum) but more often if need be for warranty to remain valid.

Temperature Control

- Temp Control Setpoint @ 25° F with a 5° F differential
- For proper operation do not adjust control

Replacement of Pump and Motor

- We advise replacing the pump and motor at the same time, if replacing only pump or motor ensure pump/motor not being replaced is in proper working condition. Replacement of one without the other could result in damage to the new part.
- Unplug powerpack from wall outlet prior to work being done
- Cut pump lines
- Loosen and remove clamp holding pump to motor
- Remove pump from pump top
- Remove clamps from motor mount to remove motor (if replacement is identical motor)
- Remove mounting bolts from pump top for motor (if replacement is not identical)
- Attach new motor and pump to pump top
- Attach pump lines using stainless steel clamps
- Ensure pump top is mounted and attached properly to top of powerpack
- Plug unit into wall outlet
- Check for leaks and replace any damaged insulation on glycol lines

Troubleshooting

Excess Foam

- Verify walk in cooler is 36° F 38° F
- Check keg pressures, adjust if needed for a proper flow rate of whatever meets the retailer's needs
- Check all equipment from keg to faucet
- Check product temperature

Compressor Does Not Start

- Check voltage, voltage must not drop below 90% of rated value
- Replace compressor relay or capacitor
- Replace compressor

Compressor Does Not Stop Running

- Replace thermostat/temperature control
- Possible freon leak; repair leak and recharge

Compressor Does Not Run But Hums

- Check voltage, voltage must not drop below 90% of rated value
- Replace starting relay, be sure to use proper relay. Improper relay will cause failure
- Replace compressor
- Warm Beer
- Clean the condenser
- Check pump and motor, verify liquid flow, replace pump and motor if needed
- Trunk lines too close to heatsource and warming product
- Check for flooded chase, remove fluid from chase and repair/replace any trunkline as needed
- Check trunk line insulation for damage, repair or replace as needed
- Check thermostat settings, adjust for cooler temperature if too high
- Check condensing unit fan, replace fan motor if needed
- Possible freon leak, repair leak and recharge

