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## Installation and Operation Manual

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 Proptec™ PT200  
Series Rotary Atomizer

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Document Version 3

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# Installation and Operation Manual for Proptec PT200 Series Rotary Atomizer <sup>(v3)</sup>

## Electrical Requirements

The motor is wired according to the specifications on your sales order. If you need to change the voltage, follow instructions on the outside of the motor or on the inside of the junction box.

## Wire connection

The atomizer is supplied with SJOOW or SOOW wet-duty tool cord of the length specified on your sales order. Ideally, it should be wired directly to a junction box or some other electrical connection appropriate to the environment in which it will be running. Avoid splices, if possible, to reduce the possibility of wire corrosion. The atomizer is not supplied with an electrical plug. If you need more than the supplied wire, use at least 12 gauge SJOOW cord for single-phase, or 16 gauge SOOW for three-phase, or another wet-duty cord.

*Be sure to follow all electrical codes and regulations for your location.*

## Mounting

### ***Bolts:***

The dimensioned drawing included with this document details the mount hole layout and mounting bolt instructions.

### ***Orientation:***

The atomizer may be mounted in any orientation, and normally operates flawlessly regardless of orientation, for humidification mount atomizer vertically down.

### ***Motor drain plugs:***

If the motor has drain plugs, remove the lower drain plugs in each end of the motor so that the normal condensation can drain from the housing, leaving the other plugs installed in the motor. If mounted vertically, remove all drain plugs on the bottom end of the motor.

## **Fluid Feed**

### ***Pressure and flow metering:***

Your atomizer requires very low fluid pressure to operate properly; therefore we normally recommend using a positive-displacement pump and allowing the precise amount of fluid to flow freely into the atomizer. The atomizer can also be fed from a pressurized source, with an orifice disk or needle valve to regulate the flow. Virtually any method that creates a reliable flow is acceptable- call if you are unsure. For humidification we suggest starting at 0.1GPM and experiment to achieve the desired humidity level.

### ***Feed Tube and Hose:***

The injector tube is 3/8" OD, and easily accepts 3/8" ID hose, such as Goodyear Pliovic or other flexible hose. Simply push the hose onto the tube about 1.5 inches and use an appropriate hose clamp to secure it to the tube.

### ***Chemical Compatibility:***

Carefully consider the chemicals flowing through your atomizer. If you have questions about the materials used in your atomizer, please contact Ledebuhr Industries and have your model number, sales order number or invoice number ready so we can assist you.

## **Maintenance**

### ***Hub:***

Normally the flow of fluid through the hub creates a natural cleaning action, requiring no maintenance. In extremely dusty, dirty, or fibrous environments, or with caking materials, the hub may clog from time to time. Eventually this will become significant enough to cause the fluid to fill the hub and flow out of the back. This will appear as irregularly pulsing spray and may drip excessively. Should this occur, remove and power wash or scrape the accumulation from the inside of the hub, and poke out the holes if necessary with a wire. This is seldom necessary in any but the worst environments.

### ***Basket:***

*Normal operation:* A properly functioning basket will have about a 3/4" bright clean band in the center from constantly being washed in sprayed fluid, with minor accumulations at the edges over time. For the same reasons as the hub, the basket may clog under certain conditions.

*Clogged basket:* When clogged, sections of the basket become solidified with residue so that you can no longer see through the mesh. When 1/3 of the basket is clogged in this manner, it is time for cleaning. Often the basket can be washed without removing it, other times the basket must be removed. A light scrubbing usually has the basket ready to return to service. Soaking in a detergent solution can make this easier.

*De-liming:* If the residue includes lime or minerals, the basket may need to be soaked in a de-liming solution such as vinegar. If you are using concentrated acids to de-lime, watch that they do not damage the solder that holds the basket together.