

S O V D A

Compressed Air Demands

For Pearl Mini

Rev#2.0.1 19 March 2024

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Introduction

The Pearl Mini color sorter is a high precision, high air demand product. It requires a constant supply of clean, dry air to ensure ejectors open at the proper time, mechanical parts stay functional and in good repair, and so the optical sorter does not pause sorting due to low air pressure.

Most air compressors that can support the Pearl Mini will require regular maintenance and need to comply with local regulations. As a result, Sovda recommends you work with a local air compressor specialist to optimize the unit you purchase and minimize your service downtime.

While not necessary, Sovda recommends a screw-type air compressor for consistent air supply.

Filtration & Drying

You must have a refrigerator-type dryer.

Many air compressors come equipped with a refrigerant dryer. However, they can also be installed in line after the air compressor if yours does not have one equipped. Make sure the dryer you select can handle the pressure and volume requirements listed in the table in section.

Operating the Pearl Mini without a refrigerant dryer treated air will cause ejectors to stick and cause erratic sorting. Over time, internal components will corrode and require replacement.

You must have compressed air filters installed before connection to the Pearl Mini.

Small particulate can affect the seal of ejectors and function of internal components, resulting in increased rejection of good coffee and premature failure of parts.

Recommended filtration (or equivalent):

- Type C (5 micron): before refrigerant air dryer
- Type T: 1ppm oil filter, after refrigerant dryer
- Type A: .1ppm oil filter, after Type T filter
- Type X: .1 micron water separator, after Type A filter
- Type F: .3 micron particle filter, after Type X

Compressed Air Demands

The Pearl Mini requires the following air supply:

- 6cfm (170l/m) minimum continuous supply
- 72.5psi/ 0.5mpa constant operating pressure

Please Note: the above numbers represent the air *demands* of the Pearl Mini. The specifications of your selected air compressor likely will be higher due to duty cycle requirements or to ensure stable air supply.