

Technical Bulletin

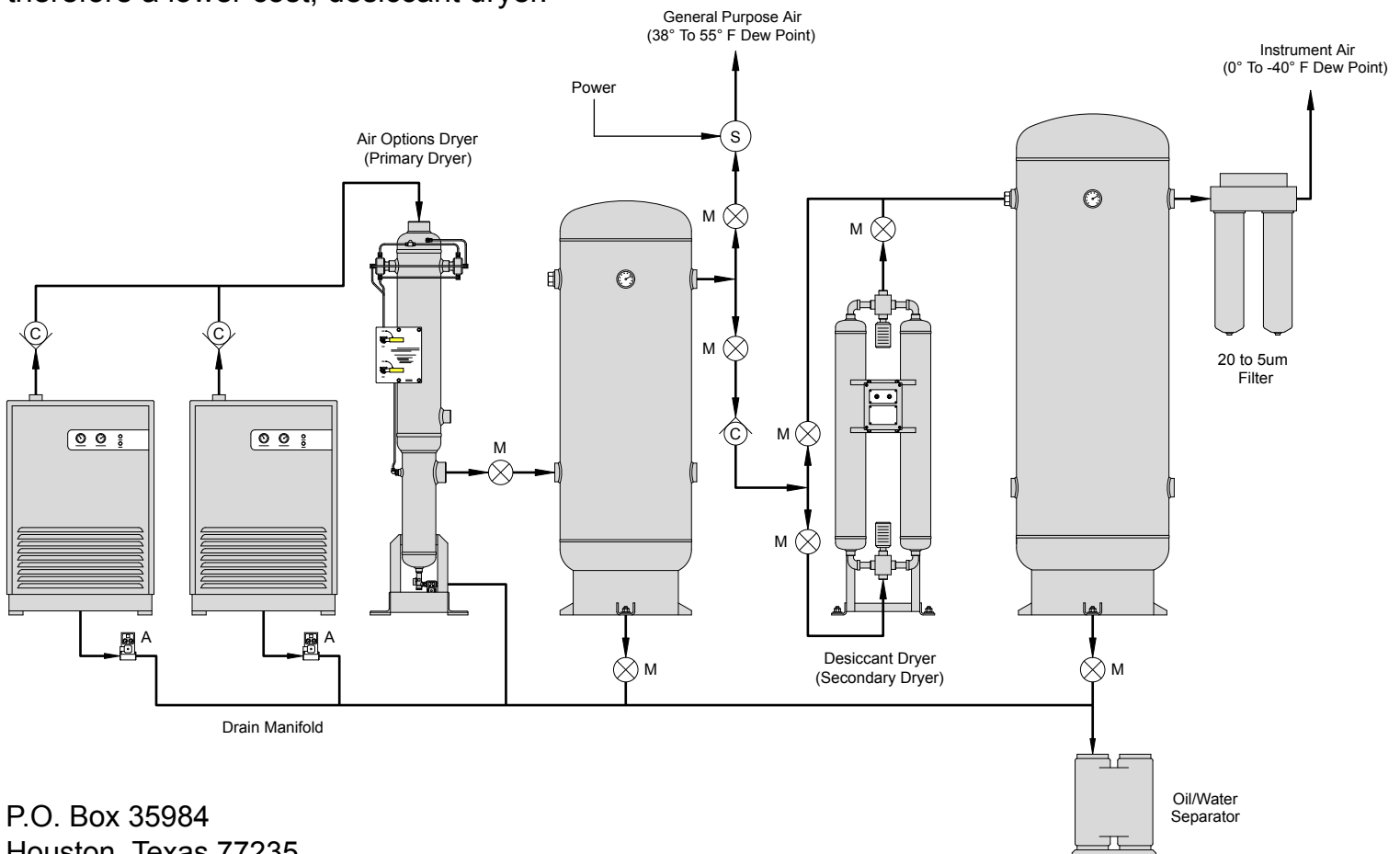
Instrument & Utility Air Systems

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Refining plants, semiconductor manufacturing facilities and food processing installations typically have two different compressed air distribution systems. These are the instrument air and the utility air systems. The instrument air is generally specified at -40°F dew point, where the utility air generally does not carry a dew point specification. The utility air systems normally produce notoriously poor air quality and in many cases even the instrument air is of poor quality due to lack maintenance or inadequate design.

Adding an Air Options dryer will provide two distinct advantages to your compressed air skid. By placing an Air Options dryer directly after the compressor(s) the utility air will be maintained at 38° to 55°F . This will provide a quality of air that is appropriate for air tools, jetting, sand blasting, painting, etc.

The second advantage is that the water and oil vapor load on the desiccant will be greatly reduced. This translated to a lower regeneration cycle and extended desiccant life. The Air Options dryer removes the bulk of oil mist from the compressor discharge, the principal reason for desiccant failure. The lower load on the desiccant dryer can be taken advantage of in two different ways. The regeneration cycle may be lowered and a saving in air volume will be realized. (A normal desiccant dryer will require up to 17% of the air that it produces to regenerate the opposite tower.) The second is simply the advantage of using a smaller, and therefore a lower cost, desiccant dryer.



P.O. Box 35984
Houston, Texas 77235
Ph.: 713-721-9619 Fax.: 713-726-1931
E.Mail: Info@Air-Options.com

AIR-OPTIONS, INC.

Affordable Solutions for Compressed Air