



Haskel International LLC.

ISO 8573.1 AIR QUALITY RECOMMENDATIONS

Quality Class	Dirt Particles (Microns)	Water Pressure Dewpoint F (ppm vol.) at 100 psig	Oil ppm (including vapor)
1	0.1	-100 (0.3)	0.01
2	1	-40 (16)	0.1
3	5	-4 (128)	1
4	15	+37 (940)	5
5	40	+45 (1240)	25
6	***	+50 (1500)	***

Recommended minimum ISO Quality air supply for Haskel air motors is Class 5 or better.

Class 1 or 2 may be required for heavy duty applications, i.e., high cycle rates (over40cpm) to help prevent freezing, high contamination, or higher pressures. The required frequency of re-lubricating the cycling spool may increase with dryer air.

Installation Hints

1. Generally install filters downstream of after-coolers and air receivers at the lowest installation temperature, and as close to the point of application as possible. This ensures that in wet systems as much water & oil vapor has condensed out as possible which can be removed by the coalescing filters. Installing close to the application reduces the risk of pipe scale downstream of the filters contaminating the filtered air. Please refer to above installation hints.
2. Filters should not be installed downstream of quick opening valves, and should be protected from possible reverse flow or other shock conditions.
3. It may be necessary to install a combination of main line filtration near the compressor installation before entering the building or shop, and install additional filtration at the critical points. Remember especially in existing installations the contamination already in the pipe system downstream of the filters will take a long time to disappear, and probably never will completely.
4. Purge all lines leading to the filters before installation and connecting to the final application to be protected.
5. Install filters in a vertical position (pipe-work is horizontal) ensuring that there is sufficient room below the filters to facilitate element change.
6. Avoid by-pass lines whenever possible as contamination may leak through valves and by-pass the filters.
7. Provide a facility to drain away collected liquids where applicable from the filter drains via suitable tubing taking care that no restrictions are caused.
8. Install differential pressure gauges to indicate the pressure drop across the filters. This will give an idea of the filter element condition.
9. Care should be taken with larger filters to see that they are properly supported by the pipe-work.

If you have a problem on filter selection or installation please contact your local Haskel distributor, or the Factory.