



## AIR FILTERS

## AIR FILTERS



Air flows into the compressor via the air filter. The air filter protects your compressor from outside dust and dirt and should be replaced in regular intervals based on ambient conditions



## THE RISK OF NON-GENUINE AIR FILTER USAGE



The quality of air filters is very important, air filters are the first line of defense for a compressor and have a significant impact on the service life of the compressor, Lubricant, air/oil separators and oil filters.

All the dust that is sucked in by the air compressor eventually ends up in the: oil, oil filter, oil separator. Low quality and clogged air filters are bad for various reasons

PHENOMENON	RESULTS
<ul style="list-style-type: none"><li>• SEPARATOR AND OIL FILTER WILL BE CLOGGED</li><li>• PRESSURE DROP OVER THE SEPARATOR WILL RISE</li><li>• OIL QUALITY GOES BAD</li></ul>	<ul style="list-style-type: none"><li>• LOWER THE LIFE TIME AIREND (DAMAGE ON BEARINGS)</li><li>• HIGH OIL CARRYOVER TO SYSTEM</li><li>• REDUCE THE COMPRESSOR OUTPUT (EFFICIENCY)</li><li>• INCREASE THE RISK OF SEPARATOR COLLAPSE</li><li>• INCREASE OF MAINTENANCE COSTS</li><li>• INCREASE OF ENERGY COSTS</li></ul>

## OUR GENUINE AIR FILTER TECHNOLOGY



Our Micro-Glass Mini-Pleated Air Filters reach a 99.99% efficiency faster than cellulose air filters and provides better protection by allowing fewer contaminants to pass through the media

Hertz Air Filters holds up to five(5) times more contaminants than conventional cellulose air filters, making them ideal for extended maintenance periods.



**EQUAL SPACE SYSTEM**



**Micro-glass fiber  
at X500 magnification**



**Cellulose fiber  
at X500 magnification**

Genuine Air Filter nano scale fibers are Eighty (80) times smaller in diameter than cellulose fiber. This results in extremely high initial efficiency and protects the air compressor better than alternative filters available in the market

Thanks to the "V" pleated filter geometry, 100% of the surface area performs equally and delivers the expected protection, while minimizing pressure drops

### The advantages of Genuine Air Filter usage are:

- ✓ Keep compression efficiency up
- ✓ Provides better protection to air end rotors
- ✓ Low pressure drop
- ✓ Keep compressor oil cleaner
- ✓ Operational reliability
- ✓ Long service life because of its highly efficient and reliable filter element replacements
- ✓ Impact resistant corrosion free housing polypropylene
- ✓ Excellent price/performance ratio
- ✓ Easy mounting

## WASTE ENERGY COST BECUASE USING NON-GENUINE AIR FILTERS OR LACK OF REPLACEMENT



Consider your 45 kW 7 Bar compressor efficiency drop by 5% because of non-genuine filter or lack of replacement

Total Energy Cost = [kW x working hours x Energy Cost] / Efficiency

**Total Energy Cost for 3.000 working hours with %90 efficiency**

[45kW x 3,000 hrs x \$0.114/kWh] / 0.90 = \$17.100

**Total Energy Cost for 3.000 working hours with %95 efficiency**

[45kW x 3,000 hrs x \$0.114/kWh] / 0.95 = \$16.200

**\*Average Approximate Extra Energy Cost for 3.000 working hours**  
**\$17.100 - \$16.200 =**

**\$900,00**



\*Energy Cost = 0,114 \$ / kWh