

ASHRAE Medium Efficiency Filter Energy Cost Index Analysis (prefilters)



30/30 UL Class 1 24x24x4
 30/30 UL Class 1 24x24x2
 30/30 UL Class 2 24x24x4
 30/30 UL Class 2 24x24x2

Airguard PowerGuard 24x24x4
 Aeropleat IV 24x24x4
 Aeropleat IV+ 24x24x4
 AP-Eleven 24x24x2

Glasfloss Z-Line MR11 24x24x2
 Koch Multi Pleat 60 HC 24x24x2

The filters in the above category represent the most efficient in the industry.

Average annual energy cost for filters in this category is **\$104.00 per filter** based upon full time operation, 10¢ per kWh and 60% fan efficiency.



Aeropleat IV + 24x24x2
 Aeropleat III 24x24x4
 Airguard DP-240 24x24x2
 Airguard PowerGuard 24x24x2
 Filtration Group Aerostar 1100 24x24x2
 Filtration Group/EFC Envopleat 24x24x2

Filtration Group NOVApPleat HC 24x24x2
 FiltMaxi 415 HC 24x24x2
 Glasfloss Z-Line MR8 24x24x2
 Purolator Defiant PAF11 HC 24x24x2

Also superior performers, 4-star rated filters offer good value for your filtration investment dollar.

Average annual energy cost for filters in this category is **\$111.00 per filter** based upon full time operation, 10¢ per kWh and 60% fan efficiency.



30/30 24x24x1
 Aeropleat III 24x24x2
 Aeropleat IV 24x24x2
 Airguard MX-40 205 24x24x2
 American Air Perfect Pleat HC 24x24x2

American Air Filter Perfect Pleat SC 24x24x2
 American Air Filter Ultra 24x24x2
 Filtration Group Aerostar 400 24x24x2
 Purolator 40-62R 24x24x2
 Tri-Dim Tri-Pleat ES40 HC 24x24x2

The 3-star category includes average industry performers.

Average annual energy cost for filters in this category is **\$121.00 per filter** based upon full time operation, 10¢ per kWh and 60% fan efficiency.



Aeropleat III 24x24x1
 Aeropleat IV 24x24x1
 Aeropleat IV+ 24x24x1
 American Air Filter 300E 24x24x2
 American Air Filter 300X 24x24x2
 American Air Filter 62Plus 24x24x2

American Air Filter Pleat 200 24x24x2
 Airguard SC40-205 24x24x2
 BB Astro-Pleat LC 24x24x2
 Koch MultiPleat 40 HC 24x24x2

Average annual energy cost for filters in this category is **\$125.00 per filter** based upon full time operation, 10¢ per kWh and 60% fan efficiency.



Airguard 155 205 Series 55 Ring Panel 24x24
 Dafco DZ HC 24x24x2
 Fiborbond Dustlok Sporax 24x24x1
 Fiborbond DustLok Panel 24x24x1
 Filtration Group/Grainger 29 Air Handler Pleat HC 24x24x2

Glasfloss Z-Line SB 24x24x2
 Purolator 40 HC Pre Pleat 24x24x2
 Purolator Hi-E 40 24x24x2
 Purolator LC PrePleat 24x24x2
 Purolator Mark 80D HC 24x24x2

Tri-Dim 1540 3-Ply Panel
 Tri-Dim 4-Ply Panel

Average annual operating cost for filters in this category is **\$135.00 per filter** based upon full time operation, 10¢ per kWh and 60% fan efficiency.

Listed products are trade names of the respective companies.

Air Power Equation: Power (horsepower) = (Q)(TP)(df) divided by (h)(6356), where Volumetric Flow Rate "Q," stated in ft³/min (cubic feet per minute); Total Pressure (resistance across filter) "TP" stated in inches of water (H2O); Density factor of the gas being collected "df" (dimensionless); Efficiency of the fan, "(dimensionless)". Then Kilowatt Hours = Horsepower X .746 X Operating Hours, and Operating Costs = Kilowatt Hours X Energy Cost Per kWh.

Camfil Farr's new Energy Cost Index is an easy way to compare the energy efficiency of our filters and a competitors' filter so you can choose the one that offers the best value. Based upon a five star scale, the Energy Cost Index is an indicator of what a filter will cost over its lifetime. The best rating — five stars — indicates that the filter is one of the most energy-efficient, longest-lasting filters available. Five stars should be your selection if you are seeking the most cost-effective filter. The Energy Cost Index value is calculated using life cycle cost modeling software that has been used and validated with real-life testing for over 15 years. The calculated value is then converted into a star rating with the highest star value translating to the lowest energy consumption. For updated listings be sure to check www.camfilfarr.com.