SERIES 400 ENGINEERING SPECIFICATION

1.0 General

1.1 Filters shall be Aerostar® Series 400 extended surface pleated air filters as manufactured by Filtration Group.

1.2 Filters shall be available in standard and high capacity configurations and available in depths of 1”, 2”, and 4”.

1.3 Underwriters Laboratories classified to UL 900 and ULC-S111-07.

1.4 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Materials of Construction

2.1 Media shall be 100% synthetic, mechanical media that does not support microbial growth.

2.2 Frame shall be a heavy duty, high strength, moisture resistant paperboard with a cross member design that increases filter rigidity and prevents breaching. Frame shall be made with 100% recycled paperboard with an average of 35% post-consumer content. Frame shall be recyclable.

2.3 Filters shall have a 100% post-consumer recycled expanded metal support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering. Metal support grid shall be recyclable.

3.0 Filter Performance

3.1 Filters shall be MERV 10 in a high capacity configuration and MERV 8 in a standard capacity configuration when tested in accordance with the ASHRAE 52.2-2012 Test Standard.

3.2 Initial resistance of filters shall not exceed 0.18” and 0.15” W.G. in 1” standard and high capacity configurations, respectively, at 375 fpm airflow; 0.19” W.G. and 0.17” W.G. in 2” standard and high capacity configuration, respectively, at 500 fpm airflow; and 0.18” and 0.17” W.G. in 4” standard and high capacity configurations, respectively, at 500 fpm airflow.

3.3 Filters shall be rated to withstand a continuous operating temperature up to 200°F.

3.4 Filters shall have a recommended final resistance of 1.0” W.G.