

**TECHNICAL BULLETIN
ACCESSORY INFORMATION**



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**LABGARD NU-425E, 437E, 440E AND 480E
WITH DOUBLE EXHAUST FILTER OPTION**

The NU-425E (Series 20), NU-437E, NU-440E and NU-480E with the double exhaust filter option requires additional HEPA filter integrity testing.

The additional HEPA filter integrity test is performed by accessing the exhaust filter sample port located next to the D.O.P. challenge port in the top center of the cabinet. **THIS PORT IS UNDER POSITIVE PRESSURE, SO ACCESS SHOULD ONLY BE MADE WITH THE BLOWER OFF.** The access port is connected to a sample tube which runs between the two exhaust filters. The purpose of this port is to measure the primary exhaust HEPA filter's integrity with either a photometer or particle counter.

When using a photometer to probe the first exhaust HEPA filter, the leakage shall not exceed .005% of the upstream concentration. A similar technique may be used for a particle counter using the applicable methods and techniques.

The second HEPA filter may be scanned using the secondary filter P.A.O. supply port to supply a P.A.O. challenge to the filter. Normal scanning techniques may then be used to verify filter integrity.

Adjustments to balance the airflow within the cabinet should be done only by a qualified technician who can measure the airflows with approved measuring devices. NuAire provides two adjustments to balance the airflow within the cabinet. These are:

- A. Motor Speed Adjustment Via Motor Voltage Regulator
- B. Exhaust Filter Choke

The motor speed controller adjusts the cabinet's total volume of airflow while the choke adjusts or balances the exhaust airflow as well as makes up for filter resistance tolerances.

The cabinet models NU-425E, NU-437E and NU-440E (Series 20-49) are considered to be certifiable if the following airflow measurements are present:

- A. Downflow Average: 75 LFPM \pm 5 LFPM (.38 m/s \pm .025 m/s).
- B. Inflow Average: 90 LFPM \pm 10 LFPM (.46 m/s \pm .05 m/s) using the calculated inflow velocity measurement method.

The cabinet model NU-425E, NU-437E, NU-440E (Series 50 and higher) and NU-480E is considered to be certifiable if the following airflow measurements are present:

- A. Downflow Average: 60 LFPM \pm 5 LFPM (.30 m/s \pm .025 m/s).
- B. Inflow Average: 105 LFPM \pm 10 LFPM (.53 m/s \pm .05 m/s) using the direct inflow velocity measurement method.

BEFORE STARTING AIRFLOW CALIBRATION PROCEDURE, LET THE CABINET RUN AT LEAST 10 MINUTES.

Replacement Exhaust HEPA Filters may be ordered by using the following NuAire part numbers:

Model	Exhaust HEPA Filter Description	Exhaust HEPA Filter Part Number	Qty.
NU-425-300E	12 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-03	2
NU-425-400E	18 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-04	2
NU-425-500E	24 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-06	2
NU-425-600E	30 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-05	2
NU-437-300E	12 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-03	2
NU-437-400E	18 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-04	2
NU-437-600E	30 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-05	2
NU-440-300E	12 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-03	2
NU-440-400E	18 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-04	2
NU-440-600E	30 x 24 x 5-7/8, 99.995% @ 0.3	A-980939-05	2
NU-480-300E	20 x 14 x 5-7/8, 99.995% @ 0.3	A-980962-09	2
NU-480-400E	20 x 20 x 5-7/8, 99.995% @ 0.3	A-980962-10	2
NU-480-500E	20 x 26 x 5-7/8, 99.995% @ 0.3	A-980962-11	2
NU-480-600E	20 x 32 x 5-7/8, 99.995% @ 0.3	A-980962-12	2

