



RESEARCH & TECHNICAL CENTER
100 RIVER RIDGE CIRCLE
JEFFERSONVILLE, IN. 47130
502-969-2304

NUMBER OF PAGES (Including Cover Sheet) _____ 4 _____

REPORT # : _____ 5803 _____

SAMPLE PROCUREMENT METHOD: _____ In House Test _____

TEST REQUESTED BY: _____ Bill Casey _____

MANUFACTURER: _____ CLC Air _____

PRODUCT NAME: _____ Fresh Air Carbon _____

MODEL NUMBER: _____ HE40-CB-4404 _____

TEST REPORT DISTRIBUTED TO

	Printed Copy	Electronic Copy
Research & Technical Center	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sales & Marketing	<input type="checkbox"/>	<input type="checkbox"/>
Originator	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (list Below)	<input type="checkbox"/>	<input type="checkbox"/>

Name: _____
Name: _____

ASHRAE STANDARD 52.2 TEST REPORT





RESEARCH & TECHNICAL CENTER
 100 RIVER RIDGE CIRCLE
 JEFFERSONVILLE, IN. 47130
 502-969-2304

REPORT # 5803 TEST # 1 PAGE 2 of 4

ASHRAE STANDARD 52.2-2007 METHOD
 TEST SUMMARY

SAMPLE PROCUREMENT METHOD: In House Test DATE RECEIVED: 2/24/2012

TEST REQUESTED BY: Bill Casey
 MANUFACTURER: CLC Air
 PRODUCT NAME: Fresh Air Carbon
 MODEL NUMBER: HE40-CB-4404
 TEST SAMPLE DIMENSIONS 24.00 IN. H 24.00 IN. W 4.00 IN. D
 PRODUCT DESCRIPTION: 20-Pleats. Standard Frame.
 MEDIA TYPE: Chemically Impregnated Carbon Pleat Pack.
 MEDIA AREA: 24.68 ft² MEDIA COLOR: Gray

TEST CONDITIONS

AIR FLOW CAPACITY 1968 ft³/min (based on 4 ft² Test Duct)
 FACE VELOCITY 492 ft/min (based on 4 ft² Test Duct)
 TEMPERATURE 69.98 (° F) AVERAGE
 RELATIVE HUMIDITY 36.00 (%) AVERAGE
 TEST AEROSOL KCL
 INCREMENTAL LOADING MATERIAL N/A (FEEDING RATE: 2.00 gms/1000cf)
 PARTICLE COUNTER USED S3I (UPSTREAM & DOWNSTREAM)

ACTUAL RESULTS FROM UNIT TESTED

INITIAL RESISTANCE 1.08 in. W.G. WEIGHT of CLEAN FILTER (grams) 735.00
 WEIGHT at DISCARD POINT (grams) 735.00
 FINAL RESISTANCE 1.08 in. W.G. WEIGHT GAIN (grams) 0.00

COMPOSITE AVERAGE EFFICIENCIES

E₁ (0.30-1.00 um) 17.90 E₂ (1.00-3.00 um) 51.80 E₃ (3.00-10.00 um) 77.38

MINIMUM EFFICIENCY REPORTING VALUE (MERV)

8

@ 492 ft/min 1968 ft³/min

TESTED BY: Joseph T. Kendall, CAFS
 APPROVED BY: Joseph T. Kendall, CAFS

DATE: 3/1/2012
 DATE: 3/1/2012





RESEARCH & TECHNICAL CENTER
 100 RIVER RIDGE CIRCLE
 JEFFERSONVILLE, IN. 47130
 502-969-2304

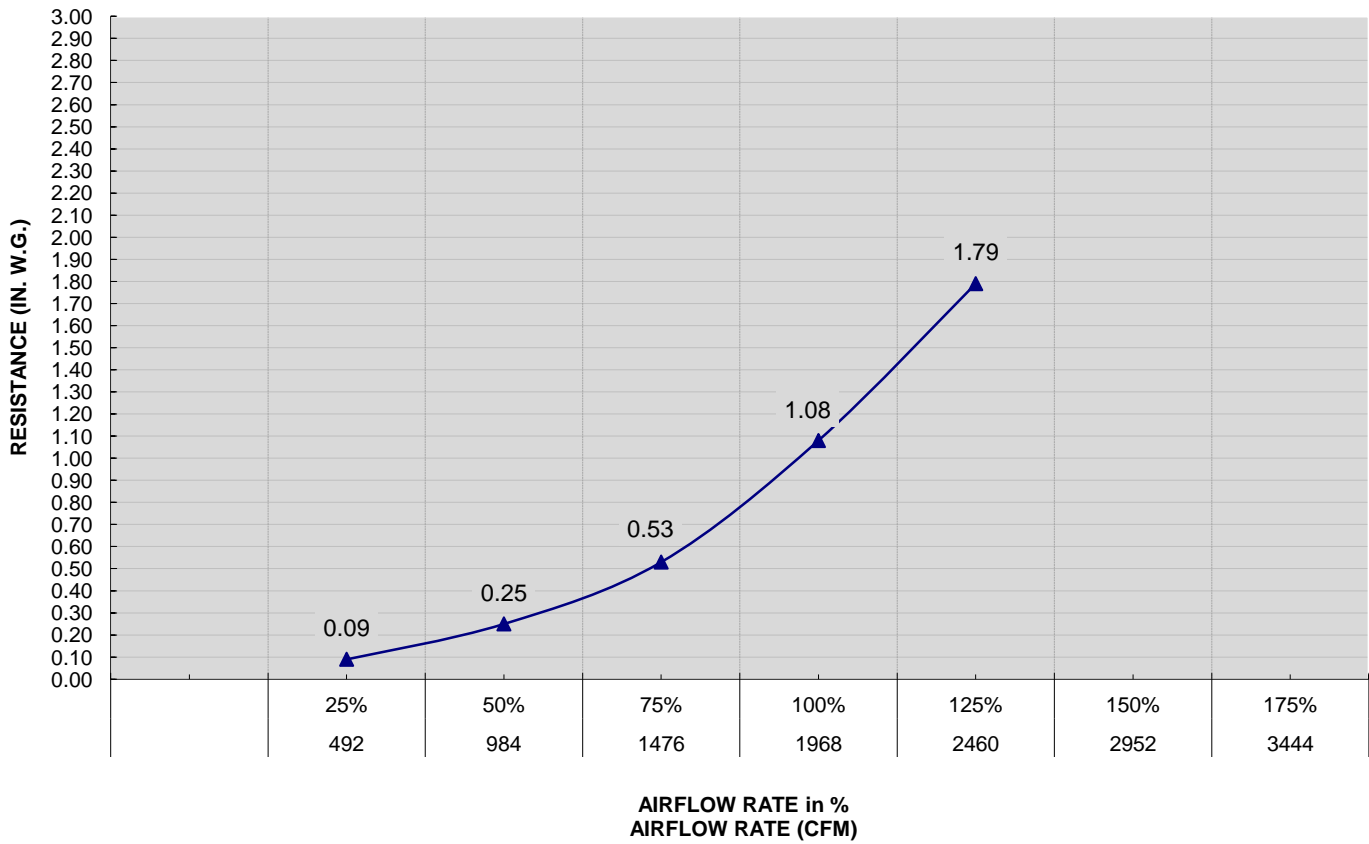
REPORT # 5803 TEST # 1 PAGE 3 of 4

ASHRAE STANDARD 52.2-2007 METHOD
 AIR FLOW VS RESISTANCE OF CLEAN DEVICE

SAMPLE PROCUREMENT METHOD: In House Test DATE RECEIVED: 2/24/2012

TEST REQUESTED BY: Bill Casey
 MANUFACTURER: CLC Air
 PRODUCT NAME: Fresh Air Carbon
 MODEL NUMBER: HE40-CB-4404
 TEST SAMPLE DIMENSIONS 24.00 IN. H 24.00 IN. W 4.00 IN. D
 PRODUCT DESCRIPTION: 20-Pleats. Standard Frame.
 MEDIA TYPE: Chemically Impregnated Carbon Pleat Pack.
 MEDIA AREA: 24.68 ft² MEDIA COLOR: Gray

AIR FLOW VS RESISTANCE OF CLEAN DEVICE



TESTED BY: Joseph T. Kendall, CAFS
 APPROVED BY: Joseph T. Kendall, CAFS

DATE: 3/1/2012
 DATE: 3/1/2012





RESEARCH & TECHNICAL CENTER
 100 RIVER RIDGE CIRCLE
 JEFFERSONVILLE, IN. 47130
 502-969-2304

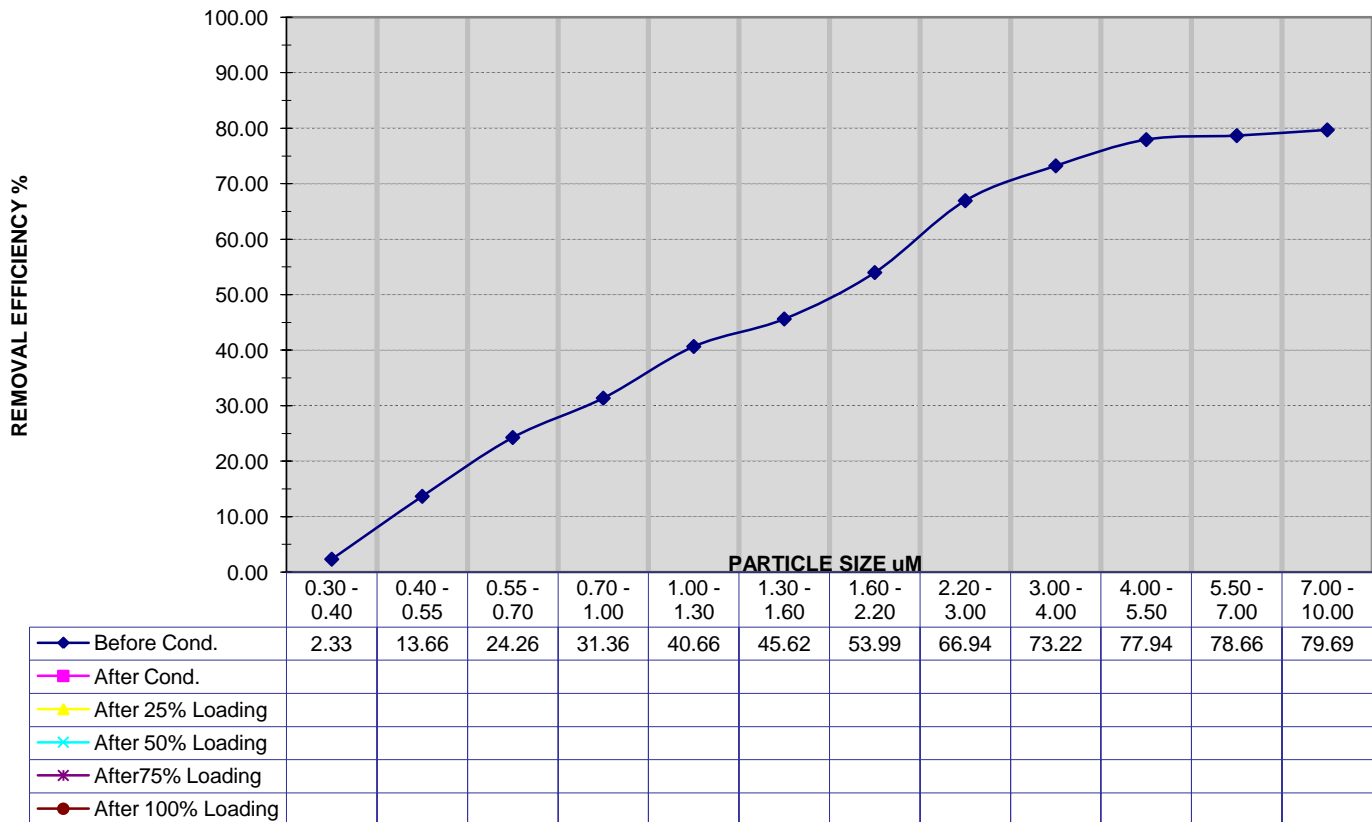
REPORT # 5803 TEST # 1 PAGE 4 of 4

ASHRAE STANDARD 52.2-2007 METHOD
 PARTICLE SIZE VS REMOVAL EFFICIENCY AFTER INCREMENTAL DUST LOADING

SAMPLE PROCUREMENT METHOD: In House Test DATE RECEIVED: 2/24/2012

TEST REQUESTED BY: Bill Casey
 MANUFACTURER: CLC Air
 PRODUCT NAME: Fresh Air Carbon
 MODEL NUMBER: HE40-CB-4404
 TEST SAMPLE DIMENSIONS 24.00 IN. H 24.00 IN. W 4.00 IN. D
 PRODUCT DESCRIPTION: 20-Pleats. Standard Frame.
 MEDIA TYPE: Chemically Impregnated Carbon Pleat Pack.
 MEDIA AREA: 24.68 ft² MEDIA COLOR: Gray

PARTICLE SIZE VS REMOVAL EFFICIENCY



TESTED BY: Joseph T. Kendall, CAFS
 APPROVED BY: Joseph T. Kendall, CAFS

DATE: 3/1/2012
 DATE: 3/1/2012

