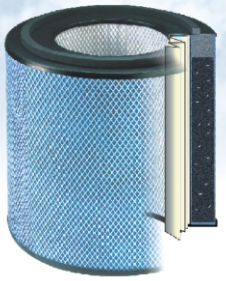
Austin
AIR SYSTEMS

Users Guide for Odors Removed by Austin HealthMate™ Products



KEY

A	B	C	D
Low	Average	Above Average	High

Locations A contain the lowest amount of odor and D the highest; B and C represent levels in between. Many of the classifications are rather general, so it was necessary to pick a typical or average condition. The odor index for a specific situation could vary somewhat from that given in the table if special circumstances apply.

SPACE	INDEX
Adhesive manufacturing plants	C
Air conditioning systems	C
Aircraft	C
Airline terminals	B
Air raid shelters	D
Amusement parks	B
Animal rooms	D
Apartment buildings	A
Apartments	A
Apple storage	C
Art studios	B
Athletic clubs	C
Atomic processes	D
Auditoriums	B
Automobiles	C
Banks	B
Bank counting rooms	C
Bank safe deposit departments	C
Bank vaults	D
Banquet rooms	C
Barber shops	C
Bars	C
Basements	C
Bathrooms	B
Beauty shops	C
Bedrooms	A
Binderies	B
Biological processes	D
Bomb shelters	B
Book stacks	C
Breweries	C
Buses	B
Bus terminals	B
Cafeterias	B
Canneries	B
Central air conditioning systems	C
Chemical laboratories	D
Chemical plants	D
Chemical storage	D
Chlorine manufacture	D
Churches	A
Circulating fans	B
Circulating systems	B
Clinics	C
Closets	B
Club houses	C
Coating processes	D
Cocktail lounges	C
Cold storage plants	C
Collective protection shelters	D
Commercial establishments	B
Conference rooms	C
Conventions	C
Corridors	B
Creameries	C
Crowded rooms	C
Dairies	C
Darkrooms	C
Decalcomania production	D
Department stores	B
Dentists' offices	C
Dining rooms	B
Display parlors	B
Distilleries	C
Doctors' offices	C
Drafting rooms	B
Dressing rooms	B
Drug stores	C
Dry cleaning plants	C
Educational institutions	B
Electrical installations	B
Elevators	C
Embalming rooms	D
Enclosed spaces	C
Engine rooms	C
Equipment rooms	B
Examination rooms	C
Exhaust hoods	D
Factories	C
Federal offices	B
Fermentation plants	C
Fertilizer plants	D
Fish markets	C
Five-and-ten-cent stores	C
Food processing	C
Forced air furnaces	A
Fruit storages	C
Funeral homes	C
Game rooms	C
Garbage disposal plants	D
Gravity return furnaces	A
Greenhouses	B
Grocery stores	B
Grills	C
Homes	A
Hospital rooms	C
Hospitals	C
Hotels	B
Hotel rooms	B

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SPACE	INDEX
Incinerators	C
Individual cubicals	C
Industrial kitchens	C
Industrial offices	B
Institutions	B
Instrument rooms	B
Jewelry stores	B
Kitchens	C
Kitchen exhausts	D
Laboratories	D
Laundries	C
Leather processing	D
Libraries	B
Linoleum plants	D
Live poultry rooms	C
Living rooms	A
Lobbies	B
Locker rooms	C
Lounges	B
Lunch counters	C
Lunch rooms	C
Maintenance departments	B
Manufacturing plants	C
Mausoleums	C
Meat packing plants	D
Meat markets	C
Meat storage	C
Metal industries	B
Military equipment	C
Military installations	B
Mixed cold storage	C
Morgues	C
Motels	B
Motion picture studios	C
Municipal offices	B
Museums	B
New processes	D
Night clubs	C
Nuclear processes	D
Nurseries	B
Odor barriers	C
Offices	B
Office buildings	C
Officers' clubs	C
Oilcloth production	D
Operating rooms	C
Paint departments	D
Paint plants	C

SPACE	INDEX
Penal institutions	C
Personnel protection	C
Pet shops	C
Pharmaceutical plants	C
Photo dark rooms	C
Photographic industry	C
Photographic studios	C
Planes	B
Plastics manufacturing	C
Plating shops	C
Pollution control	D
Poultry processing	C
Poultry sales rooms	C
Prescription departments	C
Printing plants	C
Private offices	B
Processing laboratories	C
Processing rooms	C
Projection booths	D
Public assembly rooms	C
Public buildings	B
Public toilets	C
Pulp and paper plants	D
Radio studios	C
Railway cars	C
Railway stations	B
Reading rooms	B
Reception rooms	B
Recovery room, hospital	C
Recreation halls	C
Recreation rooms	C
Refineries	C
Refrigerated showcases	C
Rendering plants	D
Refrigerators	C
Research buildings	C
Reservation offices	C
Residences	A
Resin manufacturing	D
Restrooms	B
Restaurants	B
Restaurant kitchens	C
Retail shops	A
Rubber plants	D
Rumpus rooms	B
Sales rooms	B
Sample rooms	B
Schools	C
Service departments	C
Sewage disposal plants	C
Sewer vents	D
Show cases	C
Sick rooms	C

SPACE	INDEX
Silverware manufacture	B
Soap manufacture	C
Soda fountains	B
Specialty shops	C
State institutions	B
Steamships	B
Stock rooms	B
Storage spaces	B
Stores	B
Studios	C
Stuffy Rooms	B
Super Markets	B
Surgical Rooms	C
Switchboard Rooms	B
Tanneries	C
Tar Processing	D
Taverns	C
Telephone Booths	C
Telephone Exchanges	C
Television Studios	C
Test Cubicles	C
Theaters	B
Theater lobbies	C
Theater lounges	C
Ticket booths	B
Toilets	C
Trains	B
Train reservation offices	B
Undertakers	C
Unit air coolers	B
Untidy rooms, hospital	C
Unventilated spaces	C
Varnish manufacture	D
Vegetable storage	C
Vest systems	D
Vestibules	C
Veterinary hospitals	C
Waiting rooms	B
Wards, hospital	C
Warehouses	B
Waste treatment plants	D
Window ventilators	B
Wood working plants	B
Work rooms	C
X-Ray darkrooms	C
Yachts	B
Youth clubs	C
Zoological gardens	C

Austin AIR SYSTEMS

Capacity Index for Gases, Vapors and Fumes Removed by Austin HealthMate™ Products

KEY

The number given represents typical or average conditions and might vary in specific instances. The values in the table have been assembled from many sources including laboratory tests and field experience.

The capacity index has the following meaning:

4 — High Capacity
High capacity for all materials in this category One pound takes up about 20% to 50% of its own weight - average about 1/3 (33-1/3%). This category includes most of the odor causing substances.

3 — Satisfactory Capacity
Satisfactory capacity for all items in this category. These constitute good applications but the capacity is not as high as for category 4. Absorbs about 10 to 25% of its weight - average about 1/6 (16.7%).

2 — Limited Capacity
Includes substances which are not highly absorbed but which might be taken up sufficiently to give good service under the particular conditions of operation. These require individual checking.

1 — Low Capacity
Adsorption capacity is low for these materials. Activated carbon cannot be satisfactorily used to remove them under normal circumstances.

**Straight activated carbon does not have much capacity for some reactive gases, such as ammonia, formaldehyde, etc. In some cases where the gas is chemically reactive, appropriate impregnated activated carbon can be recommended. Substances marked with an asterisk fall into this category.*

SUBSTANCE	INDEX
* Acetaldehyde	2
Acetic acid	4
Acetic anhydrite	4
Acetone	3
* Acetylene	1
* Acrolein	3
Acrylic acid	4
Aerylonitrile	4
Adhesives	4
Air-Wick	4
Alcoholic beverages	4
* Amines	2
* Ammonia	2
Amyl acetate	4
Amyl alcohol	4
Amyl ether	4
Animal odors	3
Anesthetics	3
Aniline	4
Antiseptics	4
Asphalt fumes	4
Automobile exhaust	3
Bathroom smells	4
Benzene	4
* Bleaching solutions	3
Body odors	4
Bromine	4
Burned flesh	4
Burned food	4
Burning fat	4
Butadiene	3
Butane	2
Butanone	4
Butyl acetate	4
Butyl alcohol	4
Butyl cellosolve	4
Butyl chloride	4
Butyl ether	4
* Butylene	2
* Butyne	2
* Butyraldehyde	3
Butyric acid	4
Camphor	4
Cancer odor	4
Caprylic acid	4
Carbolic acid	4
Carbon disulfide	4
* Carbon dioxide	1
Carbon monoxide	1
Carbon tetrachloride	4
Cellosolve	4
Cellosolve acetate	4

SUBSTANCE	INDEX
Charred materials	4
Cheese	4
* Chlorine	3
Chlorobenzene	4
Chlorobutadiene	4
Chloroform	4
Chloronitropropane	4
Chloropicrin	4
Cigarette smoke odor	4
Citrus and other fruits	4
Cleaning compounds	4
Coal smoke odor	3
Combustion odors	3
Cooking odors	4
* Corrosive gases	3
Creosote	4
Cresol	4
Crotonaldehyde	4
Cyclohexane	4
Cyclohexanol	4
Cyclohexanone	4
Cyclohexene	4
Dead animals	4
Decane	4
Decaying substances	4
Deodorants	4
Detergents	4
Dibromoethane	4
Dichlorobenzene	4
Dichlorodifluoromethane	4
Dichloroethane	4
Dichloroethylene	4
Dichloroethyl ether	4
Dichloromonoflourmethane	3
Dichloronitroethane	4
Dichloropropane	4
Dichlorotetrafluoroethane	4
Diesel fumes	4
* Diethylamine	3
Diethyl ketone	4
Dimethylaniline	4
Dimethylsulfide	4
Dioxane	4
Dipropyl ketone	4
Disinfectants	4
Embalming odors	4
Epoxy	4
Ethane	1
Ether	3
Ethyl acetate	4
Ethyl acrylate	4
Ethyl alcohol	4

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SUBSTANCE	INDEX
* Ethyl amine	3
Ethyl benzene	4
Ethyl bromide	4
Ethyl chloride	3
Ethyl ether	3
Ethyl formate	3
Ethyl mercaptan	3
Ethyl silicate	4
* Ethylene	1
Ethylene chlorohydrin	4
Ethylene dichloride	4
Ethylene oxide	3
Essential oils	4
Eucalyptole	4
Exhaust fumes	3
Fertilizer	4
Film processing odors	3
Fish odors	4
Floral scents	4
Fluorotrichloromethane	3
Food aromas	4
* Formaldehyde	2
* Formic acid	3
Fuel gases	2
Fumes	3
Gangrene	4
Garlic	4
Gasoline	4
Glues	4
Heptane	4
Heptylene	4
Hexane	3
* Hexylene	3
* Hexyne	3
Hospital odors	4
Household smells	4
Hydrogen	1
* Hydrogen bromide	3
* Hydrogen chloride	2
* Hydrogen cyanide	3
* Hydrogen fluoride	2
* Hydrogen iodide	3
* Hydrogen selenide	2
* Hydrogen sulfide	3
Incense	4
Indole	4
Industrial wastes	3
Ink odors	4
Iodine	4
Idoform	4
Irritants	4
Isophorone	4
* Isoprene	3
Isopropyl acetate	4
Isopropyl alcohol	4
Isopropyl ether	4
Kerosene	4
Kitchen odors	4
Lactic acid	4
Lingering odors	4
Liquid fuels	4
Liquor odors	4
Lubricating oils and greases	4
Lysol	4
Masking agents	4
Medicinal odors	4
Melons	4

SUBSTANCE	INDEX
Menthol	4
Mercaptans	4
Mesityl oxide	4
Methane	1
Methyl acetate	3
Methyl acrylate	4
Methyl alcohol	3
Methyl bromide	3
Methyl butyl ketone	4
Methyl cellosolve	4
Methyl cellosolve acetate	4
Methyl chloride	3
Methyl chloroform	4
Methyl ether	3
Methyl ethyl ketone	4
Methyl formate	3
Methyl iodine	2
Methyl isobutyl ketone	4
Methyl mercaptan	4
Methylcyclohexane	4
Methylcyclohexanol	4
Methylcyclohexanone	4
Methylene chloride	4
Mildew	3
Mixed odors	4
Mold	3
Molochlorobenzene	4
Moth balls	4
Mustard gas	4
Naphtha (coal tar)	4
Naphtha (petroleum)	4
Naphthalene	4
Nicotine	4
* Nitric acid	3
Nitro benzenes	4
Nitroethane	4
* Nitrogen dioxide	2
Nitroglycerine	4
Nitromethane	4
Nitropropane	4
Nitrotoluene	4
Nonane	4
Noxious gases	3
Octalene	4
Octane	4
Odorants	4
Onions	4
Organic chemicals	4
Ozone	4
Packing house odors	4
Paint and redecorating odors	4
Palmitic acid	4
Paper deteriorations	4
Paradichlorbenzene	4
Paste and glue	4
PCBs	4
Pentane	3
Pentanone	4
* Pentylene	3
* Pentyne	3
Perchloroethylene	4
Perfumes, cosmetics	4
Perspirations	4
Persistent odors	4
Pet odors	4
Phenol	4
Phosgene	3

SUBSTANCE	INDEX
Pitch	4
Plastics	4
Poison gases	3
Pollen	3
Popcorn and candy	4
Poultry odors	4
Propane	2
* Propionaldehyde	3
Propionic acid	4
Propyl acetate	4
Propyl alcohol	4
Propyl chloride	4
Propyl ether	4
Propyl mercaptan	4
* Propylene	2
* Propyne	2
Putrefying substances	3
Putrescine	4
Pyridine	4
Radiation products	2
Rancid oils	4
Resins	4
Reodorants	4
Ripening fruits	4
Rubber	4
Sauerkraut	4
Sewer odors	4
Skatole	4
Slaughtering odors	3
Smog	4
Soaps	4
Smoke	4
Solvents	3
Sour milks	4
Spilled beverages	4
Spoiled food stuffs	4
Stale odors	4
Stoddard solvent	4
Stuffiness	4
Styrene monomer	4
* Sulfur dioxide	2
* Sulfer trioxide	3
Sulfuric acid	4
Tar	4
* Tarnishing gases	3
Tear gas	4
Tetrachloroethane	4
Tetrachloroethylene	4
Theatrical makeup odors	4
Tobacco smoke odor	4
Toilet odors	4
Toluene	4
Toluidine	4
Trichloroethylene	4
Trichloroethane	4
Turpentine	4
Urea	4
Uric acid	4
Valeric acid	4
Valericaldehyde	4
Varnish fumes	4
Vinegar	4
Vinyl chloride	3
Volatile materials	3
Waste products	4
Wood alcohol	3
Xylene	4

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