

Air Supply Vent Technical Data

ASV-90

“For a fresher indoor climate!”
“Pour un environnement
intérieur plus frais!”



Condor Company
111 Kangaroo Drive
108 Mill Spring Road
PO Box 250
Columbus, North Carolina 28722

Call 828.894.8383
Monday-Friday 8AM-5PM
Fax 828.894.2718
or e-mail Mike Whitt
MikeWhitt@Condor.com

Contractors who have purchased the Fresh 90



FRESH 90

Air supply vent • 2004-01-01

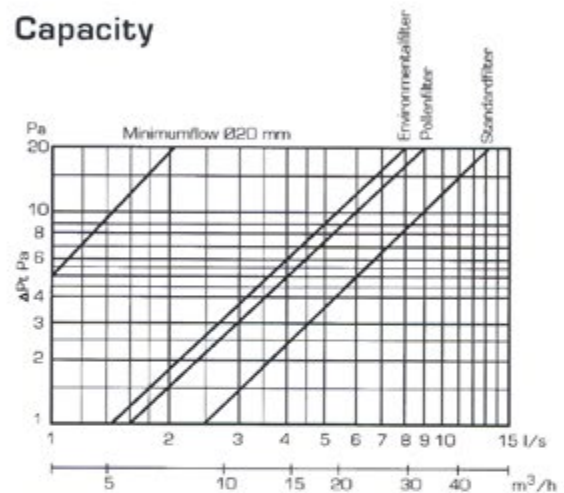
Technical data Fresh 90

Capacity at 10 Pa:	9,0 l/s
Wall opening:	Ø105 mm
Max wall thickness:	350 mm. Additional wall pipes are available for thicker walls.
Material:	ABS-plastic (recyclable)
Colour:	White, RAL 9010

Technical data Fresh 90-dB

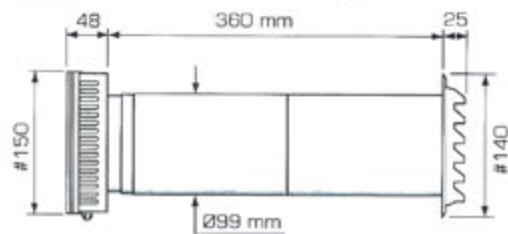
Wall opening:	Ø150 mm
Max wall thickness:	400 mm. For other lengths please contact Fresh AB.

Capacity

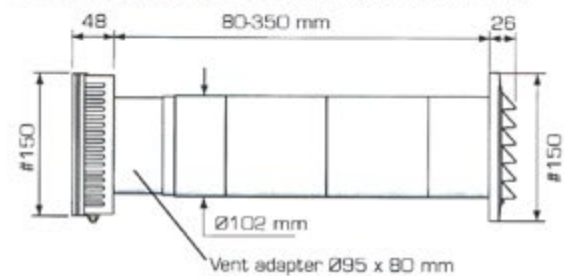


The lines for the filter alternatives illustrate fully open vent.

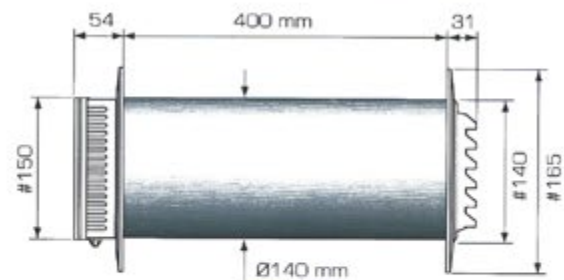
Dimensions Fresh 90, Ø99mm



Dimensions Fresh 90, Ø102mm

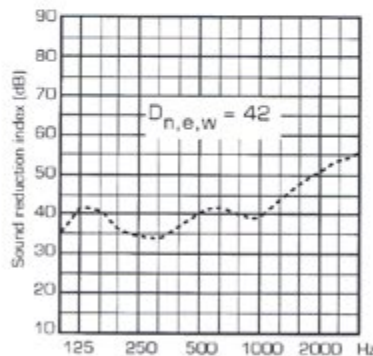


Dimensions Fresh 90-dB, Ø140mm

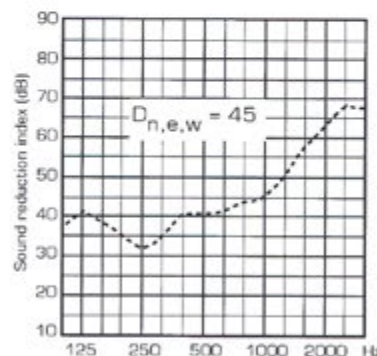


Sound data

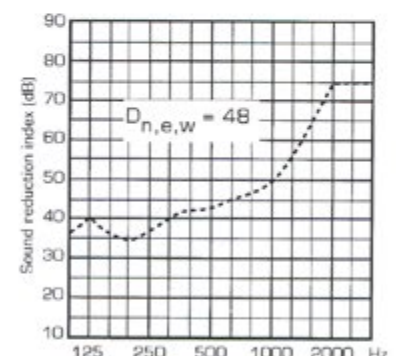
The diagrams show sound reduction with fully open vent. The calculations are based on a reference area of 10 m².



Fresh 90-dB with 200mm wall pipe.



Fresh 90-dB with 300mm wall pipe.



Fresh 90-dB with 400mm wall pipe.



TEST REPORT

Object: Condor ASV90 with 140mm outside grill and one-way PRESSURE GUARD

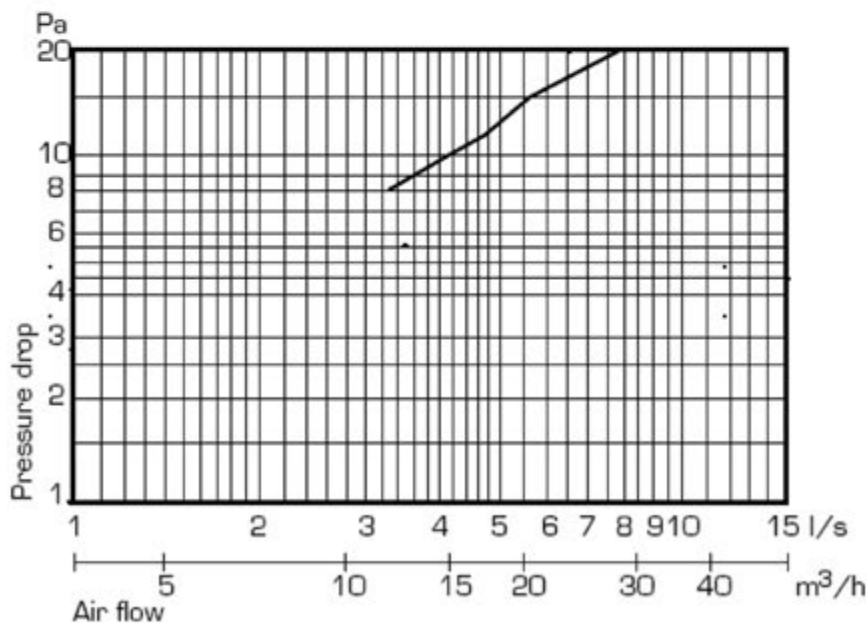
Measure equipment: Custom-made measure box supplied with air from a 100mm diameter duct fan. Flow measured with a flow pipe, Weab 50mm diameter and a Testo 512 manometer. Pressure drop measured with a SwemaMan 80 manometer.

Conducted by: Tomas Soerke

Test data:

Pa object	Pa Weab	Flow
6	2	
8	5	3,3
10	7,5	4,1
12	10,5	4,7
14	14	5,4
15	15,5	5,6
17	20	6,4
20	28	7,9
23	38	8,7
25	45	9,3

Diagram



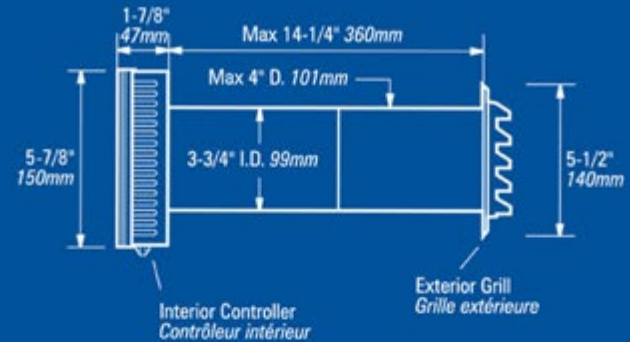
Results: The "Pa Weab" is not usable data. These values come from the measuring pipe and translate into flow. It takes about 6-8 Pa to have some air to open the pressure guard. To have 8 l/s (as a standard ventilator has at 10 Pa) it needs 20 Pa. The flexible flaps work against the flow and give a resistance reducing the flow.

“For a fresher indoor climate!”
 “Pour un environnement
 intérieur plus frais!”



**Air Supply
 Ventilator**

**Air Supplémentaire
 par Ventilation
 naturelle**



CONTENTS:

- 1– ASV-90 Interior Controller
 - 1– Insulated Vent Cap
 - 1– Exterior Grill
 - 2– 6" long 4" diameter Extension Tubes
 - 1– Exterior Insect Screen
 - 1– Standard Dust Filter
- Includes caulking material, screws and plastic anchors

CONTENU:

- 1– ASV-90 Appareil de contrôle intérieur
 - 1– Couverture isolant de ventilateur
 - 1– Grille extérieure
 - 2– Tubes à rallonge 15cm de long par 10cm de diamètre
 - 1– Moustiquaire extérieure
 - 1– Filtre à poussière standard
- Ainsi que du mastic, des vis et des chevilles

Easy Installation / Installation facile



- Locate the ventilator's position and cut or drill a 4" diameter hole from the inside.
- Percez un trou à l'endroit désiré pour votre ASV. 10 cm ou 4" de diamètre.



- Cut the tube to length and insert into hole. Seal inside and out with the caulk provided.
- Coupez le tube de la longueur désirée. Enfoncez dans le trou. Calfeutrez à l'intérieur et l'extérieur avec le mastic inclus.



- Screw the exterior grill assembly to the outside wall.
- Vissez la grille extérieure sur le mur extérieur. (vis incluses).



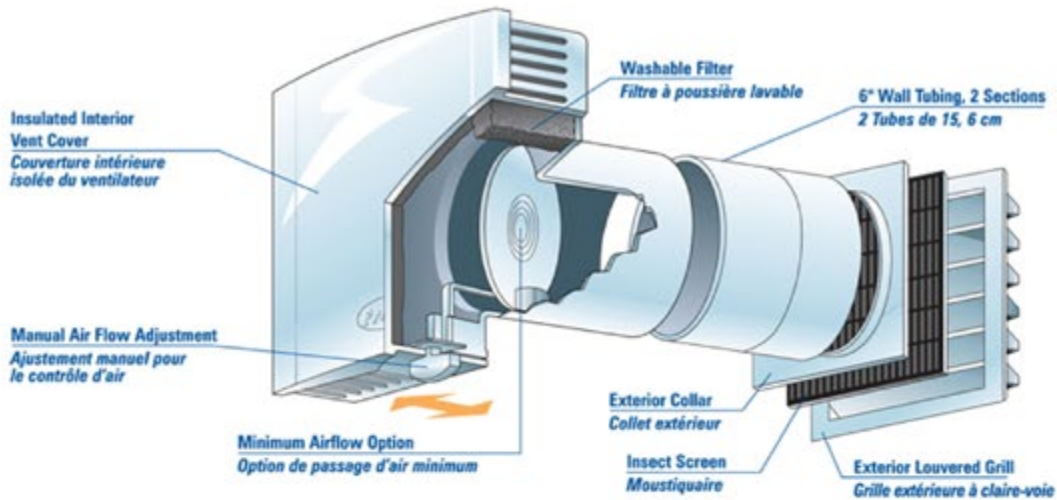
- Remove the cover from the interior control module and fasten the rear part to the interior wall with the screws and anchors provided.
- Enlevez le couvercle du module intérieur; insérez la grille de contrôle dans le tube, installez les chevilles en plastique et vissez la grille intérieure au mur.



- Slip the damper slide control into the bottom channel.
- Insérez la tige du clapet dans la fente en plastique du bas.



- Replace the cover, and your ASV-90 is ready to use!
- Remplacez le couvercle à la grille de contrôle. Votre ASV-90 est prêt à fonctionner.



OPTIONS FOR THE ASV-90 / ACCESSOIRES OPTIONNELS:

Pollen Filter—Screens out 90% of airborne pollen

Filtre à pollen—Filtre le pollen jusqu'à 90%



High Tec Filter—Screens out finer environmental contaminants

Filtre haut de gamme—Filtre les polluants les plus fins dans l'air.



Storm Shield—For high wind areas

Protecteur d'intempéries—Contre les grands vents indésirables



Coverplates—6 1/2" or 8 1/4" to cover larger wall openings

Plaque murale pour couvrir les ouvertures plus larges dans les murs



Top View *Vue d'en haut*



Side View *Vue de Coté*



Bottom View *Vue du dessous*

Tough ABS Molded Polymer

UV stable in sunlight
Withstands temperature extremes
Condensate resistant
Naturally sound dampening
Paintable with latex paint
3 year limited warranty

Polymères moulés ABS résistants

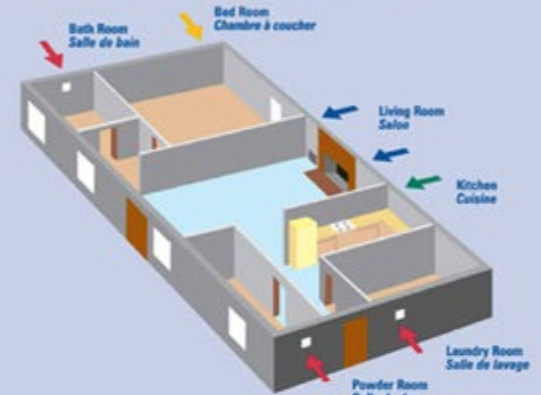
Résistant aux rayons ultra violet
Supporte les grands écarts de température
Résiste à la condensation
Amorti les bruits
Peut être peint avec de la peinture au latex
3 ans de garantie limitée

Filtered, Draft-free Fresh Air

The Condar ASV Helps in Every Room of Your Home. Today's homes are tighter, and more energy efficient, but sometimes a tight home just doesn't have sufficient air changes to ensure good air quality. The Condar ASV lets you control fresh air levels in your home to keep your air safe, fresh and clean.

De l'air frais filtré sans aucun courant d'air déplaisant.

Le ASV de Condar vient à l'aide de toutes les pièces de votre maison. Aujourd'hui, nos maisons sont plus hermétiques afin de conserver l'énergie. Par contre, une maison trop étanche n'apporte pas un changement d'air adéquat pour assurer une bonne qualité d'air. Le ASV de Condar vous aide à contrôler la quantité d'air de votre maison pour vous apporter de l'air frais, filtré et sans danger.



FRESH Filter

Accessories • 2004-01-01



- Complete range of filters
- Several qualities

Fresh Filter

There are several filter-options for our vents, from coarse basic filters to high-efficient filters which separate traffic fumes, bacteria, viruses etc.



Specification

Product	Description	Art no bulk
Standard filter Fresh 80	Dust & insect-filter, 20 PPI	803276
Pollen filter Fresh 80	More compact than the Standard filter, EU4	803280
Environmental filter Fresh 80	High-efficient electrostatic filter, EU7	803277
Standard filter TL8OR	Dust & insect-filter, 20 PPI	663003
Allergy filter TL8OR	More compact than the Standard filter, EU4	663001
Environmental filter TL8OR*	High-efficient electrostatic filter, EU7	663013
Standard filter Fresh 90	Dust & insect-filter, 20 PPI	903276
Pollen filter Fresh 90	More compact than the Standard filter, EU4	903280
Environmental filter Fresh 90	High-efficient electrostatic filter, EU7	903277
Standard filter Fresh 100	Dust & insect-filter, 20 PPI	873276
Pollen filter Fresh 100	More compact than the Standard filter, EU4	873280
Environmental filter Fresh 100	High-efficient electrostatic filter, EU7	873277
Standard filter Fresh 100 Thermo	Dust & insect-filter, 20 PPI	000119
Pollen filter Fresh 100 Thermo	More compact than the Standard filter, EU 4	000134
Standard filter TL-P	Dust & insect-filter, 20 PPI	663007
Allergy filter TL-P	More compact than the Standard filter, EU4	663005
Environmental filter TL-P*	High-efficient electrostatic filter, EU7	663016
Standard filter Fresh 40	Dust & insect-filter, 20 PPI	403276
Standard filter AL-dB 450/40	Dust & insect-filter, 20 PPI	460029
Standard filter AL-dB 800/42	Dust & insect-filter, 20 PPI (2 pcs required)	460030
Flimmer® filter	Highly efficient filter	423277
Channel filter	Dust & insect-filter, 20 PPI, for mounting in Ø100mm-channel	663011
Filter TL-X*	Dust & insect-filter, 20 PPI	
Filter TL-C*	Highly efficient filter, EU8	663014

* not a stock-item

FRESH AB
Box 7
SE-360 32 GEMLA
www.fresh.se

Telephone +46 (0)470 70 77 00
Fax +46 (0)470 70 77 39
E-post information@fresh.se



FRESH Filter

Accessories • 2004-01-01

Standard filter

Dust & insect-filter made of foamed polyurethane, 20 PPI.

Pollen filter

Filter which efficiently separates pollen etc. Required for people with allergies or otherwise sensitive people. The filter is made of synthetic fibres and is heat resistant up to 100°C. The filter should be replaced at regular intervals (if washed its efficiency will be adversely affected). Filter class EU4.

Environmental filter

Filter with an extremely high separation capacity. The filter is used in combination with the standard filter. The fibres are electrically charged and acts as a magnet. The filter is highly effective against traffic fumes, viruses, bacteria etc.

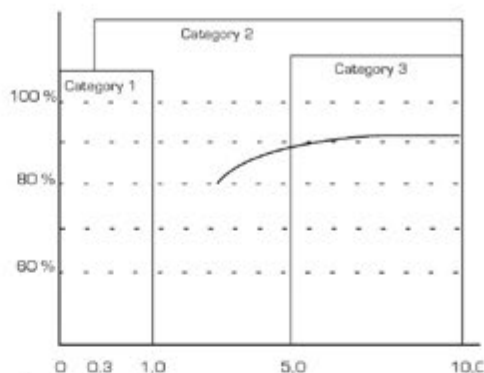
The filter should be replaced at regular intervals. The filter is heat resistant up to 100°C. Filter class EU7.

Flimmer® filter

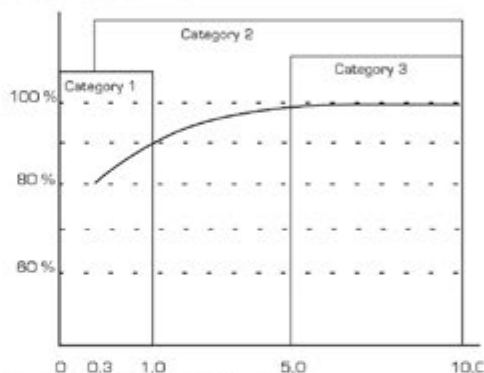
The Flimmer® filter is a Swedish, universal patented filter-construction. The advantages are several;

- * Separation along the fibres
- * Low and constant pressure fall during the whole time of use
- * Long durability, 1-2 years between filter-changes
- * High collecting efficiency on all types of particles and sizes
- * The filter as whole is adjusted to the environment = inflammable (contains only polypropylene)

Pollen filter

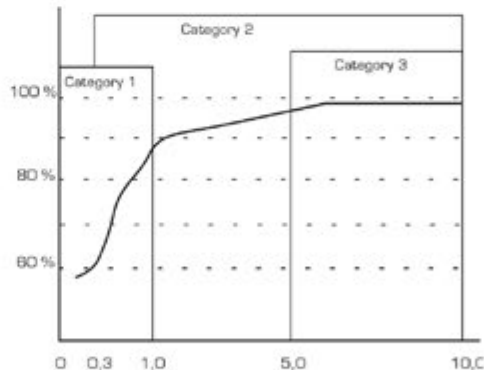


Environmental filter



The curve shows % efficiency for particle sizes in micron.
 Category 1 = viruses, tobacco smoke etc.
 Category 2 = bacteria, soot from petrol etc.
 Category 3 = Pollen.
 Air speed: 0,2 m/s.

Flimmer filter



The curve shows % efficiency for particle sizes in micron.
 Category 1 = viruses, tobacco smoke etc.
 Category 2 = bacteria, soot from petrol etc.
 Category 3 = Pollen.
 Airflow: 10 l/s, pressure 10Pa (2 filters).

Flimmer® filter collecting efficiency

Interval size of particle	0,10-0,16	0,17-0,26	0,27-0,41	0,42-0,61	0,62-0,86	0,87-1,16	1,17-1,91	1,92-2,86	2,87-6,12	<6,12
Collecting efficiency %	58	59	61	72	78	82	88	91	92	97

The measurements are made by the Royal Institute of Technology (KTH) in Stockholm. Collecting efficiencies for different particle-sizes at 10 Pa low pressure and 10 l/s airflow (measured with 2 filter cassettes)