



Home Balancing Valves

The Smart Way To Balance Airflow In Your Home



ABMHBV4
ABMHBK410 (Ten Packs)

ABMHBV5
ABMHBK510 (Ten Packs)

ABMHBV6
ABMHBK5610 (Ten Packs)

OWNER'S MANUAL (English)

And Latest Updates: www.cpsproducts.com

Patent Pending

FOR INSTALLATION BY QUALIFIED PERSONNEL ONLY

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OVERVIEW

Home Balancing Valves, from CPS Products, Inc., are designed to maintain a constant, accurate airflow volume and are easily installed in residential HVAC forced air ductwork. Each valve has an engineered damper calibrated to automatically adjust to varying pressures, which gives the balancing valves true pressure independence. This leads to greater comfort, saves energy and improves indoor air quality.

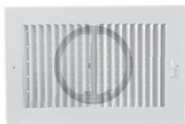
Home Balancing Valves are shipped in the following configurations:

SINGLE BOX - Each size valve is packed in its own individual box:		
ABMHBV4 - 4" diameter	ABMHBV5 - 5" diameter	ABMHBV6 - 6" diameter
KITS (10 Packs) - Ten of each size valve is packed in a color shipping box:		
ABMHBK410 - 4" diameter	ABMHBK510 - 5" diameter	ABMHBK610 - 6" diameter

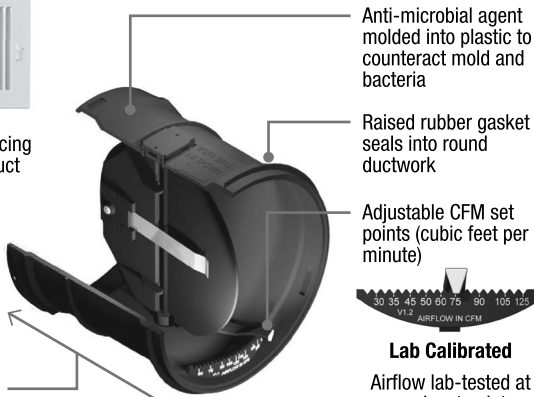
KEY FEATURES

- Eliminates hot/cold areas in your home.
- Easy to set airflow volumes.
- Easy to install in existing ductwork.
- For supply airflow conditions.
- Operates on airflow (no wiring required)
- Provides greater comfort
- Reduces energy use
- Improves indoor air quality

LAYOUT



Insert Home Balancing Valve into round duct or take-off collar behind grille



SPECIFICATIONS

Individual Valves*	4" (102 mm) Valve	5" (127 mm) Valve	6" (152 mm) Valve
Outside Diameter (Rubber Gasket)	4" (102 mm)	5" (127 mm)	6" (152 mm)
Height	3.5" (88 mm)	3.8" (122 mm)	5.3" (135 mm)
Weight (One Valve)	.203 Lb (90g)	.437 lb (200g)	.625 Lb (280g)
Number of Unique Set Points (CFM)	20		24
Airflow Lab Tested at Each Set Point	Yes		
Airflow Range (CFM)	25-130 CFM		50 -275 CFM
Airflow Accuracy Range	±10% Within 0.2 to 2.0 w.c.		
Temperature Range (Suitable Applications)	25°F to 150°F (-4°C to 65°C)		
Temperature Range (Suitable Applications)	0.2 to 2.0 Inches w.c.		
Rubber Gasket (Insertion Into Round Duct)	Reversible- Use on either end		
Blade Damper for Quiet Operation	Yes		
Anti-Microbial Plastic Compound	Molded Into Plastic		
Warranty	1 Year		

*Single packs and 10 packs are composed of these individual valves.

APPLICATIONS

- For precise airflow regulation in forced air supply heating or ventilation systems in residential buildings.
- Automatic balancing of supply grilles in forced air heating and cooling systems in homes.
- Any HVAC application with a static pressure between 0.2 and 2.0 inches w.c.
- Controlled volume of make-up air.
- For temperatures ranging from 25° to 150°F (-4° to 65°C).

INSTALLATION

- 1 Use the convenient “Room Airflow Calculator” within the CPS Link app to help determine the size of Home Balancing Valve to use in each room of your home.



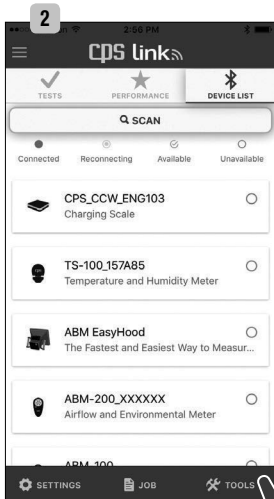
Download App Now



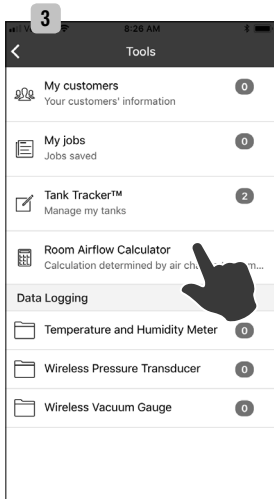
Version 4.3 or higher



INSTALLATION (Cont'd)



Device selection screen in
the CPS Link app



Select "Room Airflow Calculator"

INSTALLATION (Cont'd)

4

Room Airflow Calculator

Building Type Residential ▾

Room Type Basements ▾

Walls with external windows or doors 0 ▾


Room Dimensions

Length 18' 10"

Width 15' 4"

Height 10' 8"

CALCULATE



Enter information, then select
"calculate"

5

Room Airflow Calculator

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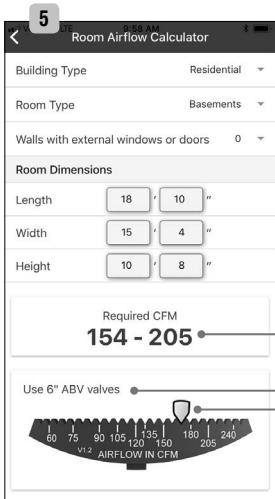
Width 15' 4"

Height 10' 8"

Required CFM

154 - 205

Use 6" ABV valves



App recommends CFM range,
valve size and setting

Calculated
CFM for this
room

Recommended
valve size

Recommended
setting

INSTALLATION (Cont'd)

- 6 Move CFM selector to setting recommended by the app



- 7 Remove the required grille and install the Home Balancing Valve into the air supply register box collar, or round duct in a residential heating or cooling forced air system. The valve's rubber gasket should hold the valve in place. If only a square opening is available, a square to round adapter should be used.

In all cases, install Home Balancing Valves so the **arrow on the valve's product label aligns with the airflow direction of your system.**

- 8 Re-install any wall or ceiling grilles that were removed.

WARRANTY

CPS Products, Inc. guarantees that all products are free of manufacturing and material defects to the original owner for one year from the date of purchase. If the equipment should fail during the guarantee period it will be repaired or replaced (at our option) at no charge. This guarantee does not apply to equipment that has been altered, misused or solely in need of field service maintenance. All repaired equipment will carry an independent 90 day warranty. This repair policy does not include equipment that is determined to be beyond economical repair.

For latest update to this owner's manual, go to www.cpsproducts.com

LOCATIONS

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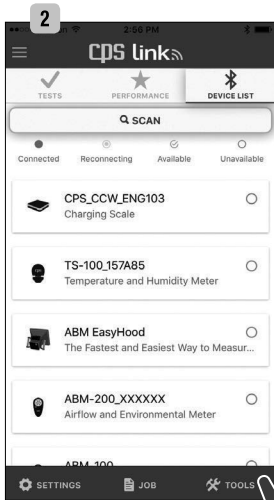
Download App Now



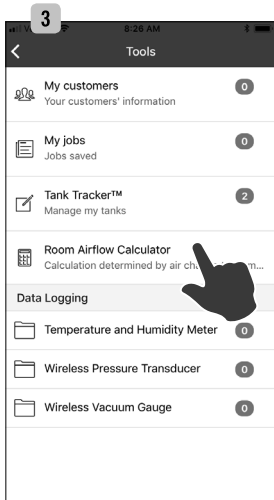
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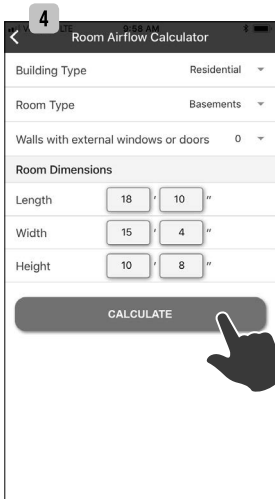
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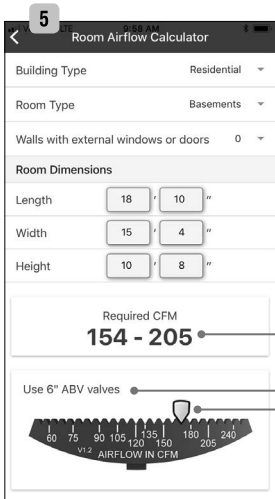
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Recommended valve size

Recommended setting



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