

AIRFLOW MADE SIMPLE

Your bathroom fan is running. Is the room breathing?

A foggy mirror can be normal. The useful question is whether moisture is moving out of the room - and whether replacement air can get in.

THE 30-SECOND ANSWER

RUN TIME

Keep it running

During the shower and for at least 20 minutes afterward.

AIR IN

Give air a way in

Use a door undercut, transfer grille or slightly open door.

AIR OUT

Give moisture a way out

Keep the duct and exterior cap clear and connected outdoors.

HOW AIRFLOW WORKS

One simple system. Three connected steps.

AIR IN

Replacement air enters

under the door, through a transfer grille or through an open window



MOISTURE CAPTURED

The fan pulls humid air

through the ceiling grille



AIR OUT

The duct exhausts outdoors

through a wall or roof cap

The system can only exhaust as much air as the room can replace.

That is why the door test is so useful.

WHAT NORMAL LOOKS LIKE

- **During the shower**
Fog can still form, especially on a cold mirror.
- **After the shower**
Humidity and fog should steadily improve with the fan running.
- **Run-on time**
Leave the fan on for at least 20 minutes after use.

BFP FAN SNAPSHOT

100-110 CFM

The airflow range of our standard fan. Actual delivered airflow still depends on replacement air and the installed duct path.

Bottom line

- Look for steady improvement - not an instant-clear mirror.
- Room size, mirror temperature, replacement air and duct resistance all affect clearing time.

Find the bottleneck before you blame the fan.

These checks are safe, simple and surprisingly revealing.

1 Door test

Run the fan after a shower. Open the door about two inches. Faster clearing points to limited replacement air.

2 Tissue test

A tissue should hold to the grille. A failed test is useful; a passed test does not prove full airflow.

3 Exterior vent

From a safe location, confirm air exits and the damper opens. Never climb onto a roof for this check.

4 Grille check

Dust can restrict the intake. Switch the fan off and clean the removable grille as the manufacturer directs.

5 Time and compare

Time how long the room takes to feel drier with the door closed, then repeat with it slightly open. Compare the two results.

FOUR COMMON AIRFLOW BLOCKERS

01

No air path

Tight door or blocked transfer grille

02

Duct resistance

Long, crushed, kinked or undersized duct

03

Fittings + cap

Sharp bends or a sticky exterior damper

04

Dirty intake

Dust buildup on the fan grille

FOR EVERY SHOWER

- Run the fan during the shower and 20-30 minutes afterward.
- Keep the replacement-air path open.
- Crack a window if possible.
- Look for steady improvement in the mirror and room.

CALL US WHEN

- Little or no air exits outdoors
- Water drips from the fan
- Musty odour or recurring stains
- Grinding, rattling or buzzing

Safety first

Do not remove the fan housing, touch wiring, enter an unsafe attic or climb onto a roof. If the simple checks do not explain the issue, have the installed airflow and duct path assessed.

VERIFIED GUIDANCE

Technical basis: HVI bathroom ventilation guidance, ENERGY STAR performance criteria and Health Canada's Healthy Home Guide. Local code requirements vary by location.

HVI

HEALTH CANADA

ENERGY STAR

