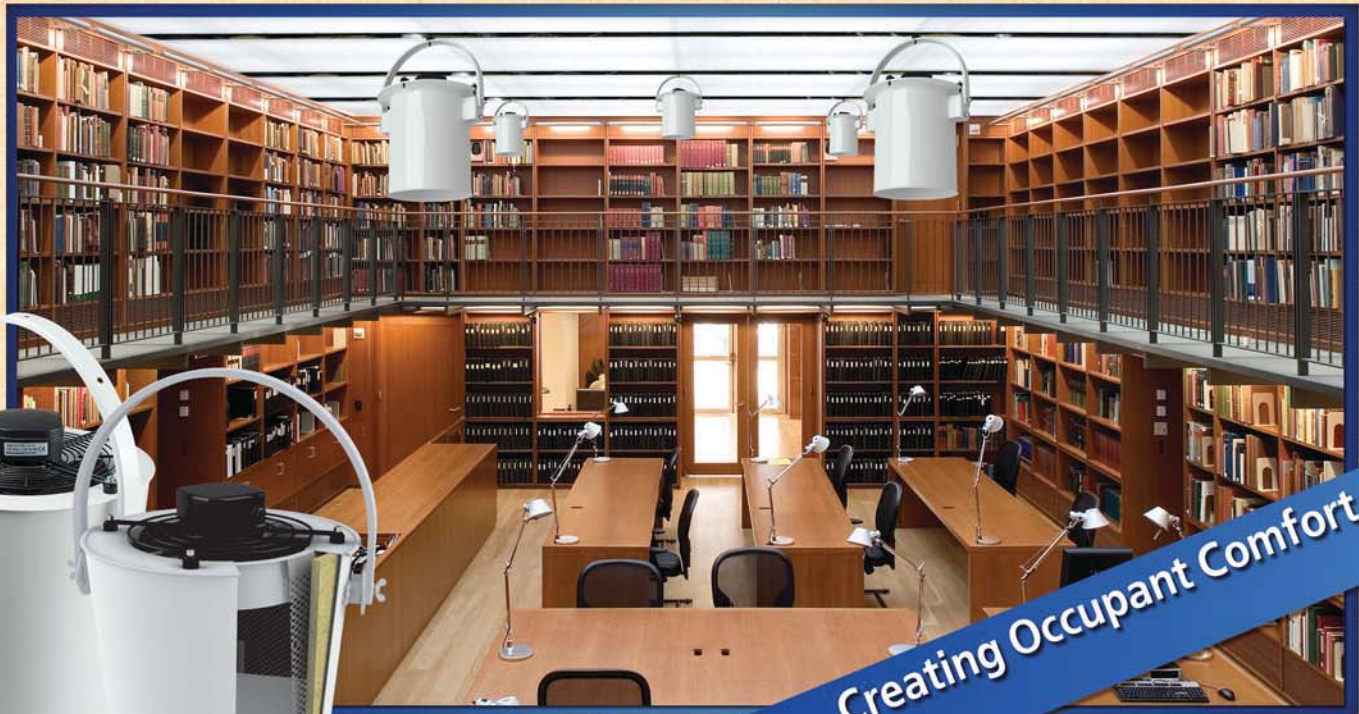


Bucket Fan Whisper

Reducing Energy Costs



The Bucket Fan Whisper casing is made of polymer-coated steel. The Bucket Fan Whisper casing is perforated and has mineral wool insulation to attenuate sound produced by the axial fan. The directing vanes are located at outlet from the Bucket Fan Whisper to provide a long linear air flow.

Gently directing the conditioned air at the ceiling to where it is needed at the floor



Benefits

You will actually enjoy the full benefits of the heat you are paying for. No longer will the hot air in winter be wasted at the ceiling. If the building is air conditioned, you'll be even more gratified and satisfied with the savings you'll realize. Rid yourself of that painful economic reality of energy dollars going through the roof. They should say in your wallet.

Comfort

Saving money is good, but when you can make occupants more comfortable it's a home run, it's a touchdown, it's an eagle, it's a royal flush. Workers work better, shoppers stay longer and buy more, and management hears fewer complaints about how hot or cold it is.

Inexpensive

Bucket Fans are effective in almost any commercial, educational, government, or industrial building of 15 feet to over 30 feet. They are quiet, great looking, speed controllable and easy to install. You'll be knocked over and blown away by how inexpensive they are.

COLD WEATHER

There is typically a 0.5 degree F and 1 degree F increase in temperature for every foot of height. This means it can be as much as 10-20 degrees F hotter at the ceiling of a 20 ft high facility than at the floor. Moving the superheated air at the ceiling – where it obviously doesn't do anybody any good – to floor level with a Bucket Fan is one of the least expensive and easiest ways to drastically cut utility bills by 1/4 to 1/3.

HOT WEATHER

In air conditioned buildings cold air coming out of ceiling duct work is fighting rising warmer air. The solution has always been to install tons of a/c as a way for the cold air to out-muscle the rising hot air. It's been estimated that up to 40% of the input energy is wasted pumping out massive amounts of cold air in the attempt to overpower the warm air at the floor. Installing Bucket Fans near the cold air registers will actively push the conditioned air to where it should be, resulting in tremendous energy savings.



HOW TO CALCULATE THE NUMBER OF BUCKET FANS WHISPER YOU NEED

To enjoy the full benefit of destratification the accepted rule of thumb is to "turn the air" between one and two times an hour.

To determine how many Bucket Fans Whisper are needed use this formula:

For ceiling heights 15 ft - 20 ft use the Bucket Fan Whisper 420

For ceiling heights 20 ft - 25 ft use the Bucket Fan Whisper 1055

For ceiling heights 25 ft and over use the Bucket Fan Whisper 1460

For example, a building has the following dimensions – 125 ft long, 75 ft wide, and 20 ft high.

1) $125 \times 75 \times 20 = 187,500$ cu. ft

2) $187,500 / 1055 / 60 = 2.96$ fans

1) $L \times W \times H = V$

(Height x Width x Length = Air Volume in Building)

2) $V / \text{CFM} / 60 = \text{Number of Fans}$

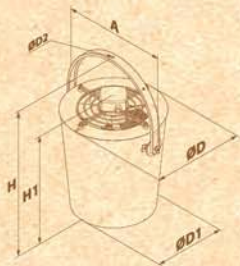
$V / \text{CFM of the Bucket Fan Whisper} / 60$ (converts CFM to CFH) = Number of Fans

Always round up to the next number. In this example 4 Bucket Fans Whisper would be needed.

Technical data

Model	RPM	Max Watts	Max Amps	Airflow CFM (L/s)	Air flow speed depending on Bucket fan distance point (ft), fpm											Volts/Hz
					3	6	10	13	15	20	23	25	30	33	35	
Bucket Whisper Fan 420	1700	60	0.51	420 (198)	378	270	220	156	90	60	20	-	-	-	-	120/60
Bucket Whisper Fan 1055	1675	94	0.8	1055 (498)	918	594	380	234	162	120	79	38	20	-	-	120/60
Bucket Whisper Fan 1460	1685	162	1.38	1460 (689)	1100	756	760	468	324	300	217	169	120	59	19	120/60

Overall dimensions



Model	Measurements [in.]					Weight [lbs]
	Ø D	Ø D1	H	H1	A	
Bucket Fan Whisper 420	15 1/8"	11 7/8"	24 5/8"	18 7/16"	17 15/16"	24.3
Bucket Fan Whisper 1055	17 1/16"	13 7/8"	27 5/8"	20 3/8"	19 15/16"	32
Bucket Fan Whisper 1460	19 1/16"	15 13/16"	30 9/16"	22 3/8"	21 7/8"	37.5

Noise level vs. Bucket Fan Whisper hanging height	Noise level vs. Bucket Fan Whisper hanging height		
	Bucket Fan Whisper 420	Bucket Fan Whisper 1055	Bucket Fan Whisper 1460
20'	2.9	3.5	5
25'	2.6	3.1	4.7
30'	2.3	2.7	4.4
40'	2.0	2.3	4.1

Accessories

- Hanging / Safety Cable
- Variable Speed Controller

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