

SMARTEMP BMW-AD

Bar Multi-Stream Wall Diffuser

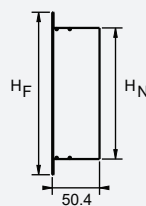
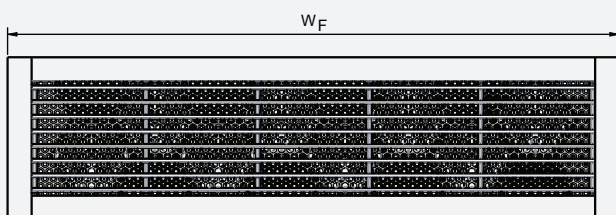
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OVERVIEW

Patented high induction side-blow diffuser for high comfort, with manually adjustable high aspiration multi-stream discharge elements behind bar grille face. Provides draught-free air supply from walls or bulkheads. Modular, continuous, flanged and flangeless options available. Mounting frame optional.

Features:

- Highly inductive multi-stream discharge for draught-free comfort.
- Multi-stream discharge elements behind removable linear bar face.
- Discharge direction manually adjustable via Allen key.
- Allen key adjustment prevents inadvertent discharge direction adjustment (eg by cleaners).
- Multi-stream discharge elements made of black plastic (ABS, V0 fire rated) break the airflow into a multitude of highly inductive individual air streams of differing discharge direction.
- Adjustable air streams have four different discharge angles, with the outer angles flatter than inner ones, and each may be rotated to one of six discharge directions, ensuring highly inductive, broad dispersion of the supply air flow for draught-free air supply.



Standard Sizes			Nominal Width					
Height			600		950		1500	
Rows R_H	H_F	H_N	W_F	W_N	W_F	W_N	W_F	W_N
1	134	99	612	577	950	915	1490	1455
2	173	138						
3	212	177						
4	251	216						



PROPERTIES

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Location - side Air supply from sidewall, bulkhead or side of duct.
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Mixed flow High aspiration of individual air streams intensely mixes supply air with room air, producing high induction creating strong supply air dilution with room air and rapid discharge velocity decay. Low velocity, high momentum supply air motion of substantially uniform temperature distribution over short or long throws is achieved. Ideal for enhanced thermal comfort ($ADPI \geq 90\%$).
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Return air Suitable for use as a return air inlet, or for combined supply and return air.
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Low Temperature supply May be used for low temperature (cold air) supply systems ($T_{\text{supply}} \approx 10\text{ }^{\circ}\text{C}$), where $\Delta T_{\text{supply-room}} \geq -12\text{ K}$.
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VAV dependent throw VAV turndown to approximately 50% @ $\Delta T_{\text{supply-room}} \approx -12\text{ K}$, with throw dependent upon airflow rate.
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Adjustable direction Multi-stream jets are individually adjustable, providing air pattern direction, spread and throw adjustment for up/down, left/right, short, medium or long throw.
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Manual adjustment Manual air pattern adjustment through diffuser face by means of an Allen key avoids inadvertent changes to discharge pattern setting (eg by cleaners).
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Rectangular face shape Modular with flanged or flangeless edge profiles.
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Slotted face pattern Linear bar grille with modular or continuous aesthetic. Face aesthetic unaffected by discharge pattern setting.
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Metal Face Linear bar and frame of aluminium, anodised or powder coated to colour of choice.

OPTIONS

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Linear face shape Continuous linear aesthetic with flanged or flangeless edge profiles.
- 
Mounting frame Suitable for rendering into plaster board bulkhead or wall. Diffuser clips in from side.
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Plenum Side-entry connection boxes with concealed diffuser fastenings.

For additional information, please contact info@smartemp.com

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