KRUEGER

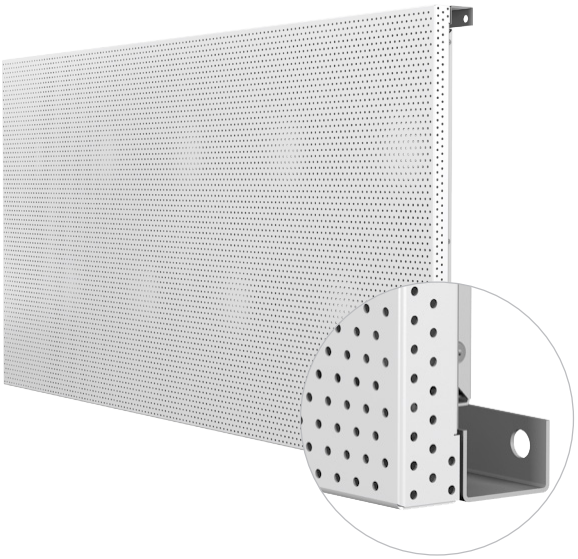
AFR

Recessed, Low Velocity Supply Unit

AFR wall installation shown.

ARCHITECTURAL DISPLACEMENT SOLUTION

Krueger's AFR provides a versatile, architectural solution for displacement ventilation systems. It installs flush to flat surface, where it supplies a one-way stream of cool, comfortable air. This airflow pattern is facilitated by an integrated equalization baffle, which minimizes turbulence across the perforated surface. The face is securely retained with spring clips in a contractor supplied plenum. And quite possibly its best feature, with no visible flanges or fasteners, the AFR can be discreetly installed in a wall at floor level, stair risers, toe kicks, or even custom built structures, like reception desks or cabinetry. Furthermore, as with other displacement products, it enjoys all the same benefits, including thermal comfort, improved IAQ, and whisper-quiet operation, which makes it an ideal solution for classrooms, auditoriums, and lobbies.



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PRODUCT FEATURES

- Intended for wall or stair riser applications
- Supplies large volumes of air at low velocity
- 10% free area perforated face and baffle
- Steel construction
- 16 or 20 gage front panel thickness
- 16 gauge mounting rails
- Width: 8" - 48" in 1" increments
- Height: 4" - 24" in 1" increments
- Detachable panel enables cleaning of the unit and duct work
- Spring clips included
- Finishes: British White, Black, or Custom
- Optional: Mounting rails (long edges only)

COMPETITIVE MODELS

- Nailor - DWR1
- Price - DFR
- Titus - DVR1

MANUFACTURING LOCATIONS

- SFD (Sanford, NC)

LEAD TIMES AND AVAILABILITY

- Standard: 6 weeks

WEB SEARCH TERM

- "AFR"

IP/METRIC PERFORMANCE DATA

Unit Size	IP Data						
	Neck Vel	Air Flow	Pt	Ps	Near T_{50} @ 4 ft	T_{50} @ Floor	NC
	FPM	CFM	"WG	"WG	ft	ft	
18" x 4"	20	10	0.00	0.00	2	5	-
	30	15	0.00	0.00	4	5	-
	40	20	0.00	0.00	9	12	-
	50	25	0.00	0.00	11	14	-
24" x 4"	20	13	0.00	0.00	2	4	-
	30	20	0.00	0.00	3	4	-
	40	27	0.00	0.00	7	9	-
	50	33	0.00	0.00	11	13	-
18" x 6"	20	15	0.00	0.00	3	5	-
	30	23	0.00	0.00	4	5	-
	40	30	0.00	0.00	9	12	-
	50	38	0.00	0.00	12	14	-
24" x 6"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-
36" x 6"	20	30	0.00	0.00	3	5	-
	30	45	0.00	0.00	5	6	-
	40	60	0.01	0.00	9	12	-
	50	75	0.01	0.01	12	14	11
18" x 8"	20	20	0.00	0.00	3	5	-
	30	30	0.00	0.00	4	6	-
	40	40	0.00	0.00	9	12	-
	50	50	0.01	0.00	12	14	-

Unit Size	IP Data						
	Neck Vel	Air Flow	Pt	Ps	Near T_{50} @ 4 ft	T_{50} @ Floor	NC
	FPM	CFM	"WG	"WG	ft	ft	
24" x 8"	20	27	0.00	0.00	3	6	-
	30	40	0.00	0.00	5	6	-
	40	53	0.00	0.00	9	12	-
	50	67	0.01	0.01	11	13	11
36" x 8"	20	40	0.01	0.00	3	6	-
	30	60	0.01	0.01	5	7	10
	40	80	0.01	0.01	9	12	12
	50	100	0.02	0.02	12	15	13
48" x 8"	20	53	0.01	0.00	3	6	-
	30	80	0.02	0.01	6	8	-
	40	107	0.02	0.02	9	13	11
	50	133	0.04	0.02	13	15	13
24" x 12"	20	40	0.01	0.00	3	6	-
	30	60	0.01	0.01	5	7	11
	40	80	0.01	0.01	9	12	12
	50	100	0.02	0.02	12	15	13
24" x 24"	20	80	0.02	0.01	3	6	-
	30	120	0.04	0.03	7	9	12
	40	160	0.05	0.04	10	13	13
	50	200	0.06	0.04	13	16	16
48" x 24"	20	160	0.05	0.02	4	8	-
	30	240	0.09	0.07	11	15	-
	40	320	0.11	0.09	11	15	11
	50	400	0.13	0.09	16	18	12

NOTES: Throw values are given for terminal velocities of 50 fpm (0.25 m/s). Throw values are given for -6°F (-3°C) ΔT conditions. N.C. values are based on Octave Band 2 - 7 sound power levels minus a room absorption of 4dB. Dash in space denotes a NC value of less than 10. Data was obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-1991.