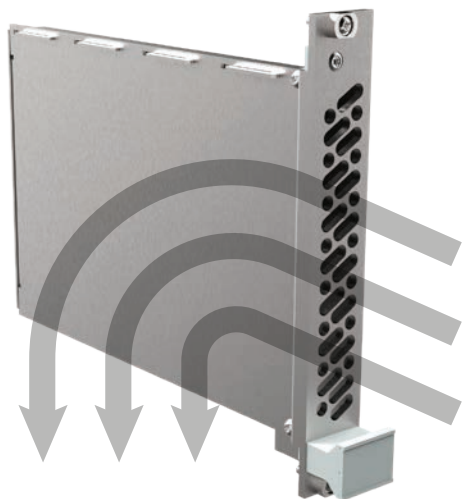


Air Inlet Card 3U 4TE / 8TE 160 mm

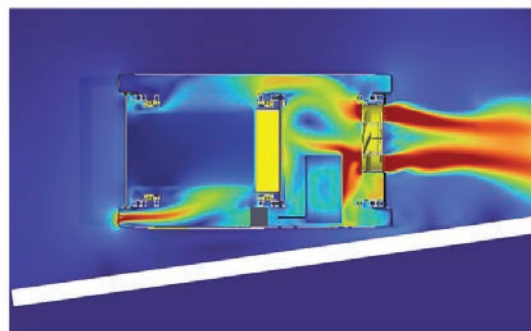
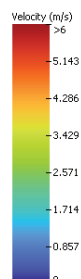


The **nVent SCHROFF Air Inlet Card** is a cooling accessory designed to enhance airflow and cooling efficiency in dense integration environments. Available in **3U 4TE or 8TE** width, it can be plugged into any unused slots of **all 19" based sub racks**. It prevents air from moving from bottom to top, similar to an air baffle, and **creates an extra air intake flow path into the chassis** from the perforated front plate to the bottom air plenum below the card cage. This additional air intake **boosts overall chassis and individual slot cooling performance**. Even if air intake is not a critical path, the Air Inlet Card acts as a solid air blocker, ensuring no loss in optimization. The standard versions have a passivated aluminium surface & customized versions are available upon request.

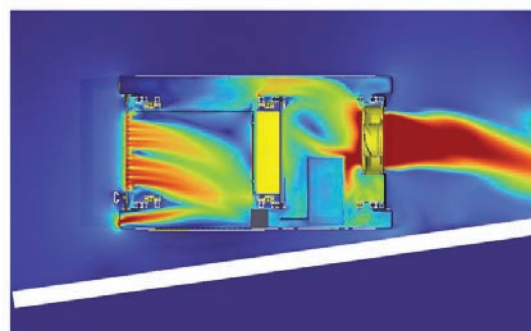
Product Benefits

- **Easy installation!** No change in Hardware Setup needed
- **Enhances overall product quality** and lowers thermal stress effects
- **Increases Air Intake** & enhances system airflow
- **Noise Reduction** due to efficient Fan operation point
- **Optimized Air Derivation** among Periphery Slots
- **Built-In & optional Dust filter** already included
- Low Cost & Design-In effort but **high system impact!**

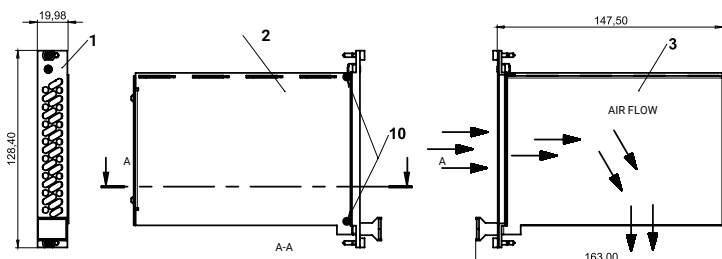
General Capabilities	
Filterfoam	Behind Frontpanel conformal to UL94-V0
Handle	Ergonomic handle conformal to EN45545-2
EMC Usage	EMC mesh sealing on right edge of frontplate Fits to all 19" based PICMG standards
Frontplate	Base design in perforation and passive alu surface
Material	Frontplate Eloxied aluminium Handle Lexan 505RU Sheet parts Raw aluminium
Mechanical Parameters	
Form Factor	3 U (H), 4TE or 8TE (W), 160mm (D)
Dimensions	19,98 x 128,40 x 147,50 mm (HxWxD)
Weight	0.18 kg (4TE) or 0.30 kg (8TE)
Environmental	
Operating ^[3]	-40...+70°C @ 10–90 % non-condensing
Storage ^[3]	-55...+125°C @ 10–90 % non-condensing



Air Inlet Only Front Air



Air Inlet Optimised Airflow



Order Information	Order Number
AIR INLET CARD 3HE 4TE 160T W DUSTFILTER	24563-030
AIR INLET CARD 3HE 8TE 160T W DUSTFILTER	24563-031
AIR INLET Card 3U 4HP 160D, DUSTFILTER, STAINLESS STEEL GASKET	24563-032
AIR INLET Card 3U 8HP 160D, DUSTFILTER, STAINLESS STEEL GASKET	24563-033

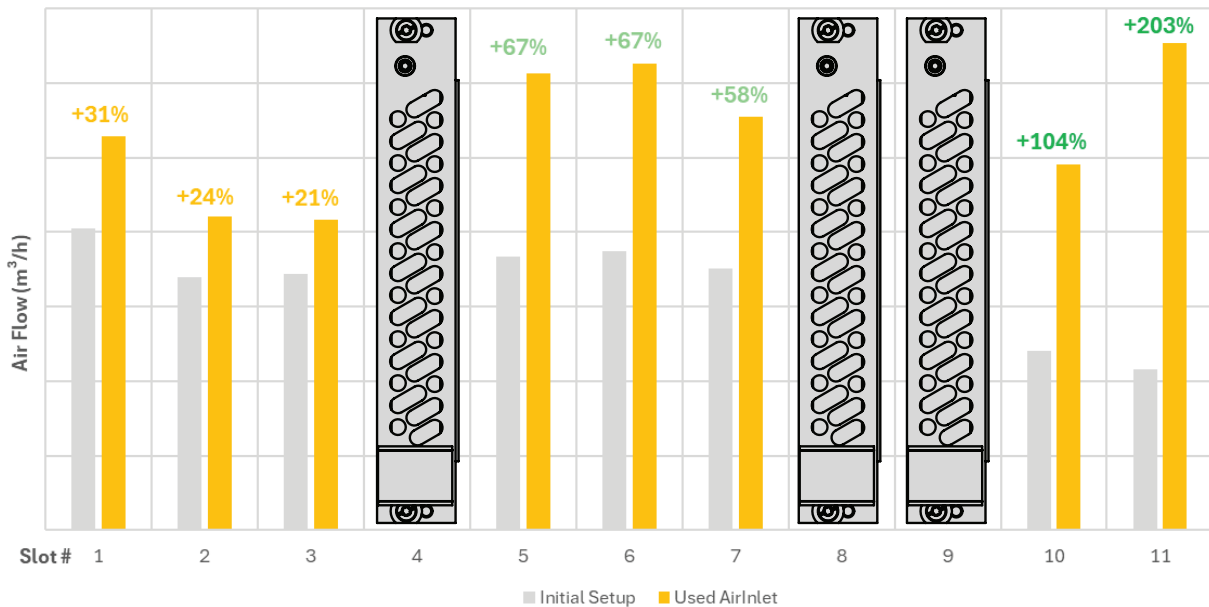
AIR IMPEDANCE APPLICATION EXAMPLE

Initial Hardware Setup

Slot #	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11
Applied Device / Obstruction	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	Front Plate + Baffle	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	Front Plate + Baffle	Front Plate + Baffle	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card
<1 U Air Intake Space (e.g. only Bottom Front perforation)											

Optimized Hardware Setup with Air Inlet Cards

Slot #	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11
Applied Device / Obstruction	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	4TE Air Inlet Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card	4TE Air Inlet Card	4TE Air Inlet Card	50% Impedance Test Paddle Card	50% Impedance Test Paddle Card
<1 U Air Intake Space (e.g. only Bottom Front perforation)											



Slot #	Initial Setup		Used Air Inlet		Improvement		
	m³/h	W*	m³/h	W*	Δm³/h	ΔW*	%
Slot 1	8,09	36,77	10,56	48,01	+2,47	+11,24	+31%
Slot 2	6,78	30,83	8,41	38,24	+1,63	+7,41	+24%
Slot 3	6,89	31,32	8,32	37,80	+1,43	+6,48	+21%
Slot 4	Air Inlet Card 4 TE						
Slot 5	7,34	33,38	12,27	55,77	+4,92	+22,39	+67%
Slot 6	7,50	34,07	12,51	56,85	+5,01	+22,78	+67%
Slot 7	7,01	31,86	11,09	50,42	+4,08	+18,56	+58%
Slot 8	Air Inlet Card 4 TE						
Slot 9	Air Inlet Card 4 TE						
Slot 10	4,81	21,85	9,82	44,62	+5,01	+22,78	+104%
Slot 11	4,32	19,64	13,08	59,45	+8,76	+39,81	+203%
TOTAL	52,74	239,71	86,05	391,16	+33,32	+151,45	+72%



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