NetShelter
Aisle Containment

Next-generation
data center containment

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NetShelter™ Aisle Containment

Next-generation data center containment

The dynamic nature of whitespace makes it tough to optimize cooling and manage airflow in a constantly changing environment. You need a solution that adapts fast. NetShelter Aisle Containment combines airflow intelligence with flexible containment that delivers superior cooling while helping you reduce your carbon footprint.

Superior cooling performance

- Get up to 20% more cooling performance from your existing infrastructure*
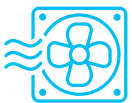
Intelligent airflow control

- Save up to 40% fan energy and reduce air leakage with Active Flow Controller**

Faster install and future flexible

- Adapts to any configuration
- Lightweight for maneuverability
- 5-year warranty***

Reduce carbon footprint

- Reduce energy expense by 5–10%†

[Learn more]

*Source: Link
**Compared to constant fan speed. Source: Link
***Excludes lighting control box.
† General savings expected from containment. Does not include additional savings expected from Active Flow Controller. Source: Link

NetShelter Aisle Containment

Flexible for any application

Be future-ready with a containment solution that adapts easily to most applications, feature sets and price points while cutting installation time by one-third (over our previous model). Feel confident that no matter your need, your containment will be energy efficient, fast to deploy and sustainable.
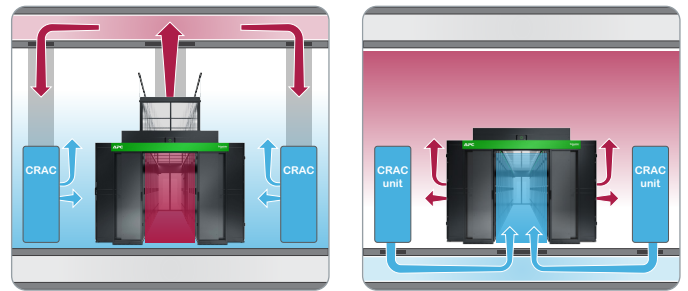
Ideal for new build or retrofit

- New builds and colocations save time with a standalone, rack-ready system
- Existing data centers can improve efficiency and cooling capacity without overhauling
- Both accommodate multiple configurations and rack types, expanding easily as needs change
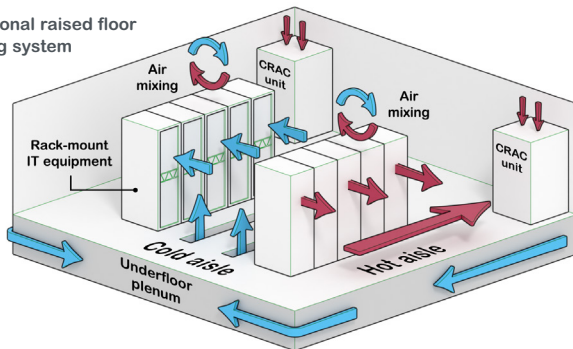
Supports in-row or perimeter cooling

- Compatible with both cooling strategies
- Active Flow Controller provides up to 40% fan energy reduction

Traditional raised floor cooling system

In-row cooling architecture

Adapts for hot or cold aisle

- Vertical duct or horizontal roof
- Works with raised or slab floors
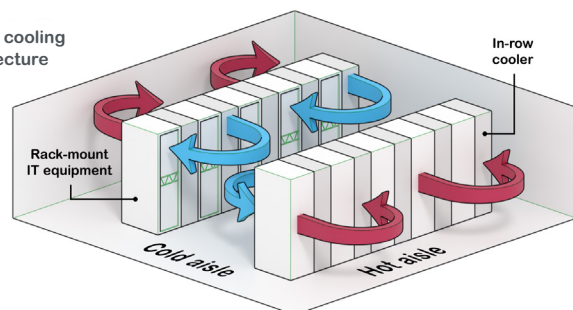

Agile architecture

- Pair with NetShelter SX racks, NetShelter Rack PDU Advanced and Smart-UPS™ Modular Ultra for optimal agility and flexibility

NetShelter Aisle Containment

Adaptable configurations

Simple design and endless configurations — that's the principle behind this next generation of aisle containment. Intelligent airflow features take containment a step further, proactively optimizing energy use. Plus, it's easy to modify or expand your containment solution as your needs change.
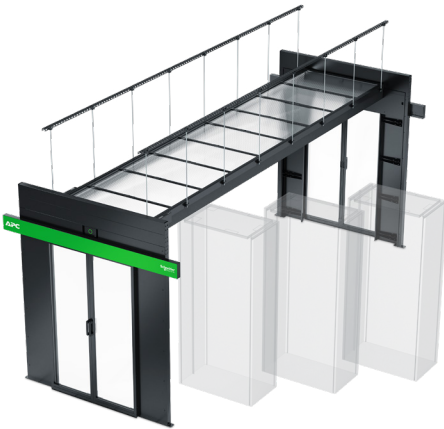
Rack-ready system

- Ideal for new builds and colocations
- Ceiling support for rack-ready layouts

Intelligence and access options

- Active Flow Controller provides up to 40% fan energy reduction
- Breakout, dual sliding, single sliding and curtain door options

Flexible rack accommodation

- Supports uneven spacing and rack sizes (42U–52U)
- Ceiling-supported configurations work with any rack vendor

Aisle variations
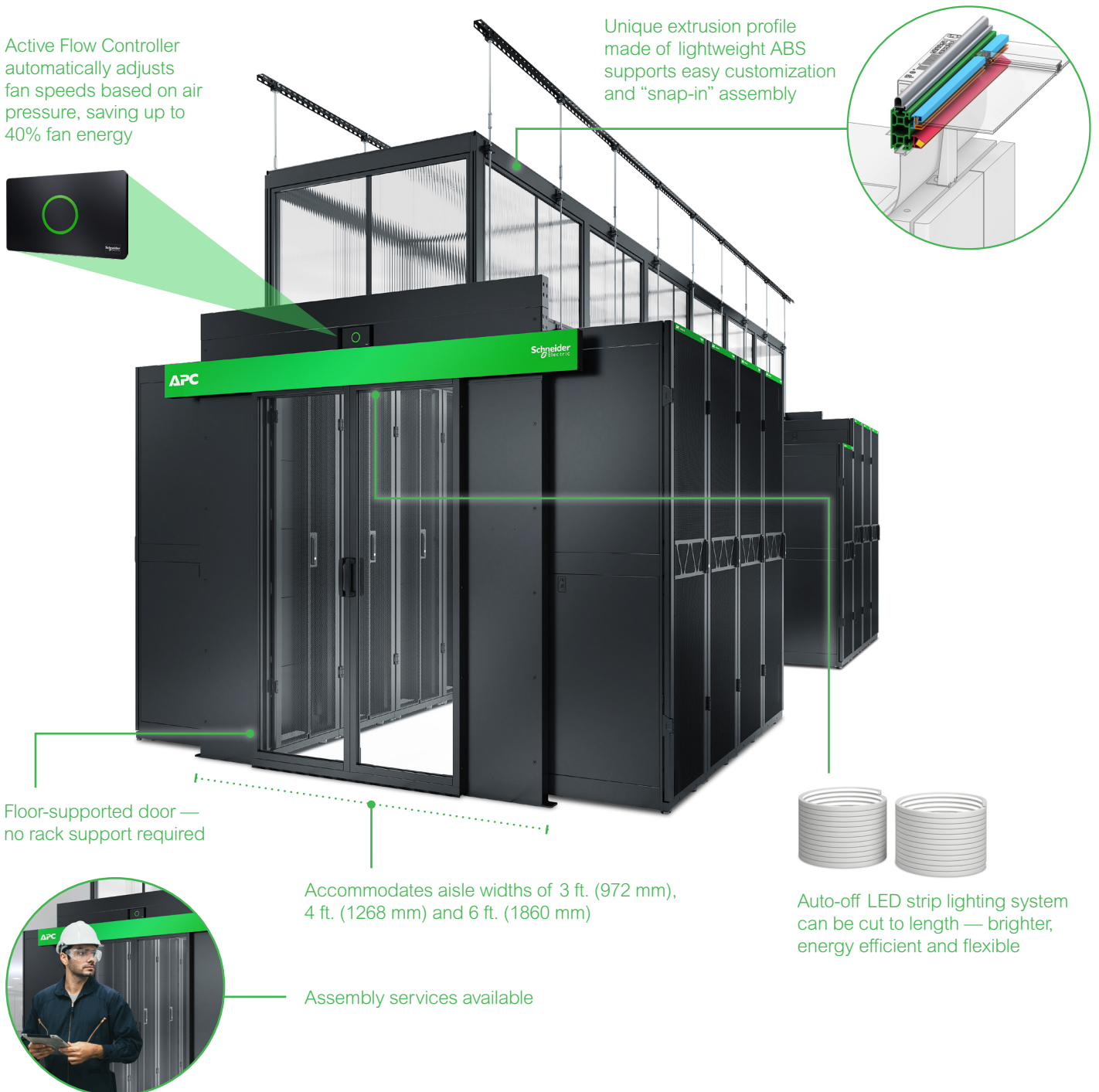
- Accommodates aisle widths of 3 ft. (972 mm), 4 ft. (1268 mm) and 6 ft. (1860 mm)
- Dual and single aisle (for odd rows and small applications)

Learn more

NetShelter Aisle Containment

Design highlights

The NetShelter Aisle Containment design showcases energy efficiency and innovation with its intelligent airflow management — improving cooling efficiency, reducing energy consumption and helping to ensure optimal performance. Here are some additional highlights.

Active Flow Controller automatically adjusts fan speeds based on air pressure, saving up to 40% fan energy

Unique extrusion profile made of lightweight ABS supports easy customization and "snap-in" assembly

Floor-supported door — no rack support required

Accommodates aisle widths of 3 ft. (972 mm), 4 ft. (1268 mm) and 6 ft. (1860 mm)

Auto-off LED strip lighting system can be cut to length — brighter, energy efficient and flexible

Assembly services available

NetShelter Aisle Containment

Our sustainable promise: Efficiency. Transparency. Expertise.

Sustainability is at the core of Schneider Electric's purpose, culture and business — and we're committed to helping organizations along their sustainability journeys with innovative solutions and services.

We deliver data on our products, empowering you with the information you need to Strategize, Digitize and Decarbonize.
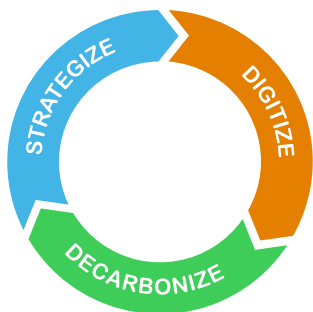
Best-in-class companies follow a three-step approach to deliver results in line with climate ambition.

Sustainability in Aisle Containment

Next-generation APC NetShelter Aisle Containment offers transparency. It also goes a leap further by actually enabling you to reduce Scope 1, Scope 2 and Scope 3 emissions in three primary ways:

1. Reduce the overall embodied carbon of the containment itself.*
2. Improve energy efficiency and water usage, while also boosting cooling performance.
3. Increase rack density, which by far can have a significant impact for data centers in advanced stages of their sustainability journey (4.86% cumulative reduction in year one, 1.63% by year 15).**

Sustainable capability
APC NetShelter Aisle Containment

Pertaining to Scope 3	
Product environmental profile available	●
End-of-life recyclability %	82%*
ROHS compliant	●
REACH compliant	●
Contribution to climate change (kg CO_2 eq)	5.67E+03*
Pertaining to Scope 1 and Scope 2	
Hot and cold air separation (reduces air mixing and improves cooling efficiency)	●
Pressure-based intelligent airflow management (reduces air leakage by unequal fan pressures inside and outside of containment pod)	●
Pressure-based intelligent airflow management (right-size fan power needed, reducing energy waste)	●
High-density architecture enabler (reduces lifecycle data center emissions)	●
EcoStruxure™ IT enabled	
Computational fluid dynamics study (identify areas of airflow inefficiency and suggest improvements)	●
Aggregate data and track cooling efficiency from multiple devices and across sites	●
Calculate and monitor PUE	●
Precise capacity planning	●
Cooling Optimize compatible (improve cooling efficiency by up to 40% — ideal for large data centers)	●

*Complete product environmental profile can be found on checkaproduct.se.com.

**Data center lifecycle CO_2e calculator, demonstrates that by increasing the rack density from 5 kW to 20 kW (using all other default settings), can reduce the cumulative lifetime emissions by 1.63% over 15 years. In year one, the emissions reduction would be 4.86%. Source: Link

To learn more, read the white paper, **"Data Center Sustainability Action Plan."**
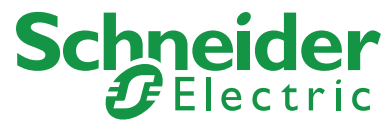
NetShelter Aisle Containment

Configuring and ordering

To build your solution, work with your sales representative or preferred partner to develop an end-to-end design that suits your needs. Approved configurations come complete with 3D renders, technical details and bill of materials through Row Designer on designportal.apc.com.

Category	SKU	Description
Roof system (horizontal and vertical)	NSAC2001	APC NetShelter Aisle Containment, frame extrusion & end cover, set of 4, black
	NSAC2002	APC NetShelter Aisle Containment, panel mounting rail A&B, set of 10, black
	NSAC2151	APC NetShelter Aisle Containment, panel connector 3 ft., set of 3, black
	NSAC2152	APC NetShelter Aisle Containment, panel connector 4 ft., set of 3, black
	NSAC2153	APC NetShelter Aisle Containment, panel connector plastic 1200 mm, set of 6, black
	NSAC2601	APC NetShelter Aisle Containment, L connector, black
	NSAC2603	APC NetShelter Aisle Containment, interior connector, black
	NSAC2604	APC NetShelter Aisle Containment, cabinet install bracket, black
	NSAC2606	APC NetShelter Aisle Containment, right angle connector bracket, black
	NSAC2607	APC NetShelter Aisle Containment, mounting rail connector, black
	NSAC2608	APC NetShelter Aisle Containment, straight connector, black
	NSAC2610	APC NetShelter Aisle Containment, roof bracket for POD containment, black
	NSAC2006	APC NetShelter Aisle Containment, seal coextrusion 1000 mm, set of 6, black
	NSAC2003	APC NetShelter Aisle Containment, cabinet seal coextrusion, 1000 mm, set of 6, black
Ceiling support kit	NSAC2051	APC NetShelter Aisle Containment, rod mounting brackets, set of 2, black
	NSAC2052	APC NetShelter Aisle Containment, ceiling mounting rail 1500 mm, set of 2, black
	NSAC2653	APC NetShelter Aisle Containment, supporting rods, 1500 mm, set of 8, zinc
Lighting kit	NSAC2121	APC NetShelter Aisle Containment, LED module
	NSAC2122	APC NetShelter Aisle Containment, lighting control box, black
	NSAC2004	APC NetShelter Aisle Containment, lighting mounting rail 1000 mm, set of 6, black
Roof panels	NSAC2101	APC NetShelter Aisle Containment, multi wall panel 644 x 1232 mm, set of 5
	NSAC2102	APC NetShelter Aisle Containment, mutli wall panel 644 x 1825 mm, set of 5
Doors	NSAC2401	APC NetShelter Aisle Containment, dual sliding door, black
	NSAC2402	APC NetShelter Aisle Containment, single sliding door, black
	ACDC2400	APC NetShelter Aisle Containment, Gen 1, breakout door, sliding
	ACDC2401	APC NetShelter Aisle Containment, Gen 1, breakout door header, for 42U SX
	ACDC2402	APC NetShelter Aisle Containment, Gen 1, breakout door header, for 45U SX
	ACDC2403	APC NetShelter Aisle Containment, Gen 1, breakout door header, for 48U SX
	ACDC2404	APC NetShelter Aisle Containment, Gen 1, breakout door post, 900 – 1200 mm (36 – 48 in.) aisle width
	ACDC2405	APC NetShelter Aisle Containment, Gen 1, breakout door post, 1200 – 1500 mm (48 – 60 in.) aisle width
	ACDC2406	APC NetShelter Aisle Containment, Gen 1, breakout door post, 1500 - 1800mm (60 – 71 in.) aisle width
	ACDC2407	APC NetShelter Aisle Containment, Gen 1, breakout door proxy card access, set of 1
	ACDC2408	APC NetShelter Aisle Containment, Gen 1, breakout door lock
Curtains	ACDC2410	APC NetShelter Aisle Containment, Gen 1, curtain door mounting rail, 900 – 1200 mm (36 – 48 in.) aisle width
	ACDC2411	APC NetShelter Aisle Containment, Gen 1, curtain door mounting rail, 1500 – 1800 mm (60 – 71 in.) aisle width
Air sealing kit	FS-AC-1001-U	Air sealing kit for APC NetShelter Aisle or POD Containment
Assembly services	WASSEMNSACS-AX-20	Assembly service for NetShelter Aisle Containment, short (up to 7 m), 5 x 8
	WASSEMNSACL-AX-20	Assembly service for NetShelter Aisle Containment, long (above 7 m), 5 x 8

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Learn more today!

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