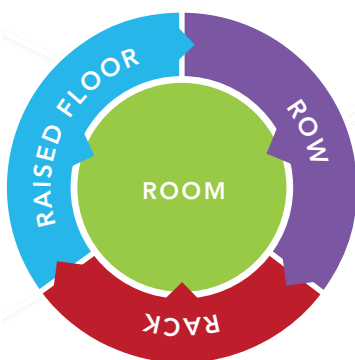## About Upsite Technologies

Upsite Technologies®, Inc., a pioneer, and industry thought leader specializing in data center airflow management, provides a full suite of products and services designed to enable mission-critical facilities to optimize cooling, increase reliability, and recover stranded capacity while reducing overall energy costs.

Upsite Technologies was created by the late Ken Brill, founder of the Uptime Institute, and launched in 2001 with the original KoldLok® Integral grommet. Upsite continues to engineer, design and manufacture award-winning, patented solutions and believes that sharing our knowledge and science around airflow management supports the data center industry through open best practice discussions. Upsite Technologies sells airflow management solutions throughout the US, EMEA, Asia Pacific, and Latin America.

The Four 4R's
of Data Center Airflow Management

With so many variables affecting airflow within a data center, it can be daunting to know where to start and how to get the most out of airflow management improvements. Upsite's 4R's of Airflow Management is a holistic methodology for implementing changes to optimize the data center's cooling infrastructure and realize energy savings, including the Raised Floor, Rack, Row, and Room. We used CFD analysis to model a 4,000 sq. ft. data center and provide engineering simulation to assess the impact of the changes made at each level.

HotLok® sealing products from Upsite Technologies® are proven energy savings best practices for airflow management. They reduce high intake air temperatures by preventing hot exhaust air from circulating to the front of the IT cabinets.

HotLok products help decrease operational and capital costs, increase capacity, and are an integral part of airflow management best practices. They are an efficient and low-cost way to significantly improve a data center's Power Usage Effectiveness (PUE). HotLok products result in noteworthy cost reductions that allow data center managers to raise computer room temperatures and spend less of their operating and capital budgets on cooling.

PRODUCT LINE

1. Blanking Panel

1U 19" (483mm): 10031
2U 19" (483mm): 10033
1U 23" (584mm): 10077

2. Blanking Panel with Temperature Strip

1U Part Number: 10035
2U Part Number: 10038

3. Temperature Strip

Part Number: 10009
Part Number: 10125

4. Round 4" (100mm) Rack Mount Grommet

Part Number: 40002

5. Pass Through Blanking Panel

1U Part Number: 10112
2U Part Number: 10113

6. Full Rack Blanking Panel

Part Number: 10143-42U
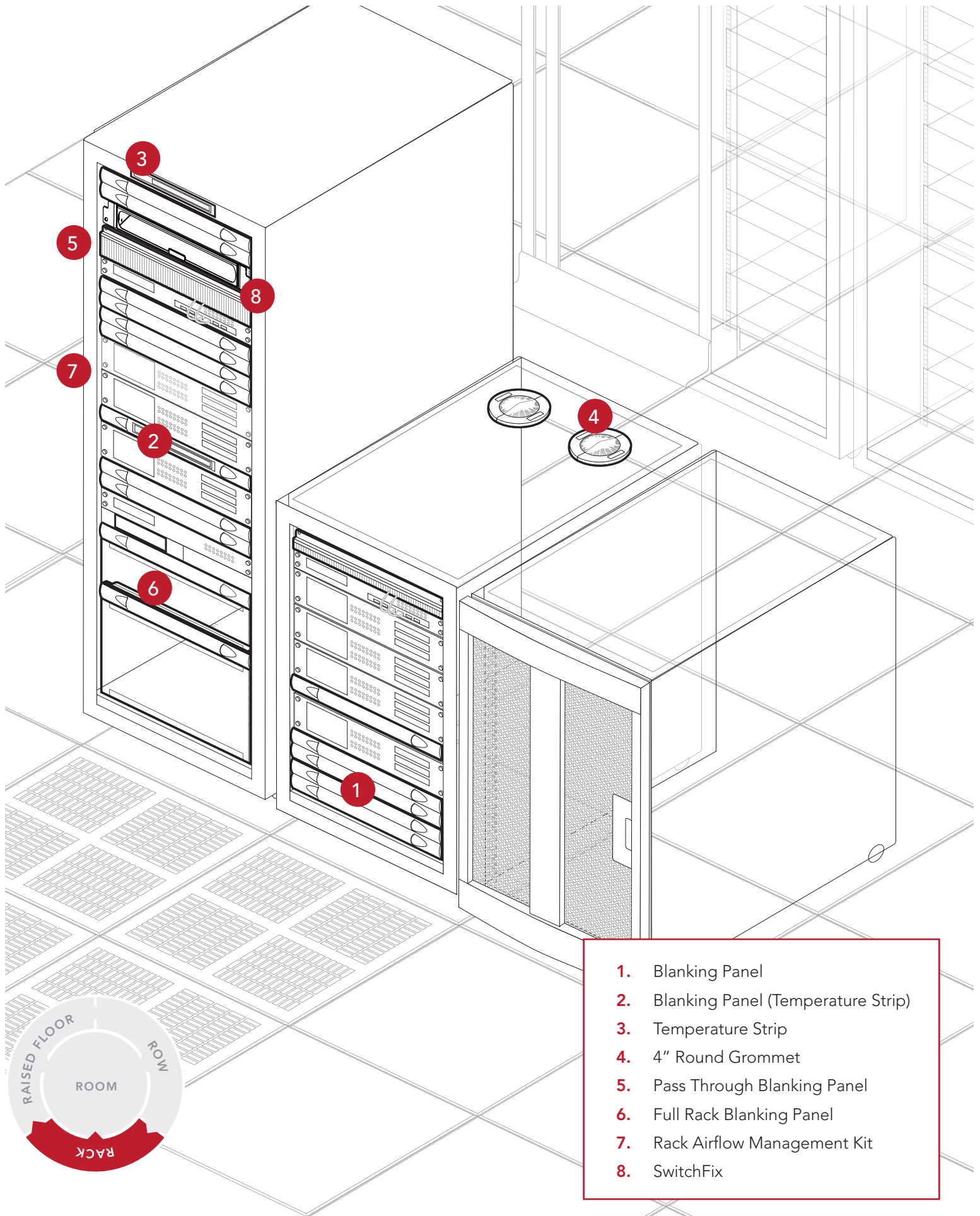Part Number: 10144-36U

7. Rack Airflow Management Kit

2.5" (64 mm) Roll @ 100' (30 m) Item No. 10139
4.0" (102 mm) Roll @ 100' (30 m) Item No. 10140
5.5" (140 mm) Roll @ 100' (30 m) Item No. 10141
45˚ Profile @ 105' (32 m) Item No. 10134
90˚ Profile @ 105' (32 m) Item No. 101327

8. SwitchFix

1U Part Number: SF001-PR1
1U Part Number: SF001-PR2
1U Part Number: SF001-PR3
1U Part Number: SF001-PR4
1U Part Number: SF001-PR5
2U Part Number: SF002-PR1
2U Part Number: SF002-PR2
2U Part Number: SF002-PR3
2U Part Number: SF002-PR4
1U Part Number: SF001-PD1
1U Part Number: SF001-PS1

1. Blanking Panel
2. Blanking Panel (Temperature Strip)
3. Temperature Strip
4. 4" Round Grommet
5. Pass Through Blanking Panel
6. Full Rack Blanking Panel
7. Rack Airflow Management Kit
8. SwitchFix

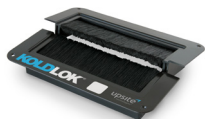RAISED FLOOR
ROW
ROOM
RACK

upsite technologies®

KoldLok® grommets are the industry standard for sealing openings in raised floors and provide data center operators with the most reliable and durable brush grommets available on the market. Upsite Technologies® offers a full line of KoldLok brush grommets that not only efficiently limit bypass airflow — they also provide data center operators notable reductions in annual operational expense – approximately 50% savings than our closest competitors' brush grommets.[1]

Our grommets have been specifically designed to help eliminate bypass airflow in the data center, increase cabinet capacity, enable higher cabinet density, and dramatically lower energy consumption from excessive cooling.

PRODUCT LINE

1. SplitLok™ Integral Raised Floor Grommet
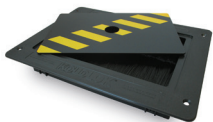
Part Number: 4040

2. SplitLok™ Square Raised Floor Grommet

Part Number: 5050

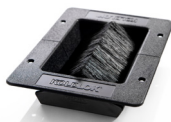### 3. Intergral Floor Grommet

One Piece: 1010
Split: 3030

4. Surface Mount Grommet

Original: 2020
Large: 2030
XLarge: 2040

5. Mini Grommet

Part Number: 10077

6. Round Grommet

4" (102mm): 40001
6" (152mm): 40003

7. Extended 3" Brush
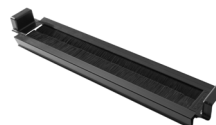
24" (610mm): 10012
60" (1524mm): 10097

8. Extended 6" Brush
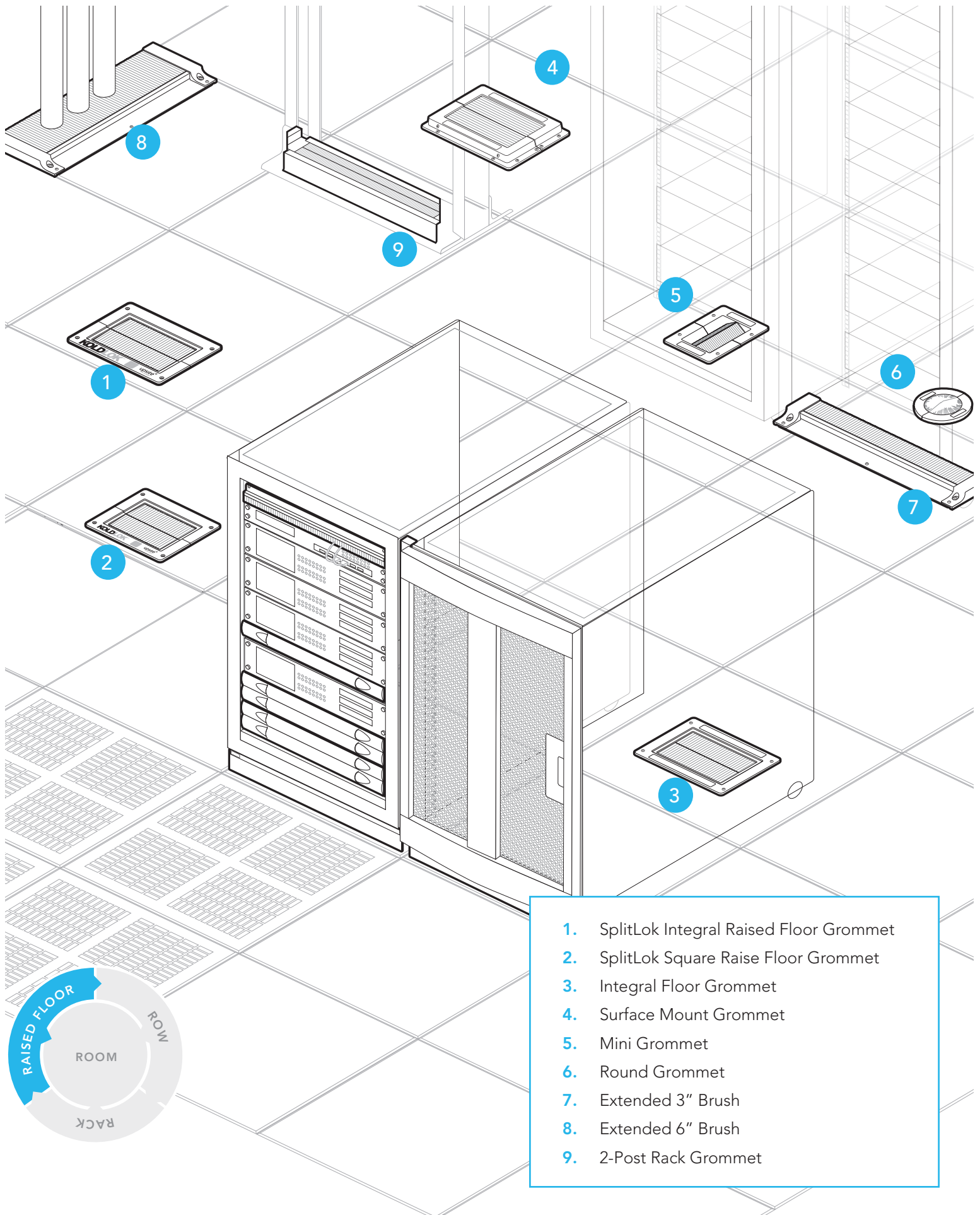
24" (610mm): 10013
60" (1524mm): 10098

9. 2-Post Rack Grommet

Part Number: 10123

[1] Based on incremental savings over those available through use of the test grommets exhibiting the highest levels of leakage on an area-corrected basis.

1. SplitLok Integral Raised Floor Grommet
2. SplitLok Square Raise Floor Grommet
3. Integral Floor Grommet
4. Surface Mount Grommet
5. Mini Grommet
6. Round Grommet
7. Extended 3" Brush
8. Extended 6" Brush
9. 2-Post Rack Grommet

RAISED FLOOR
ROW
ROOM
RACK

AisleLok® modular containment products are engineered to reduce bypass airflow, increase capacity, and improve Power Usage Effectiveness (PUE) in the data center. These unique modular containment products are elegantly designed to provide all of the benefits of full containment, but with greater flexibility and better price value.

Upsite Technologies'® Modular containment offers complete flexibility to adapt to the current aisle configuration without the need for engineered services or construction within the computer room. This flexibility means modular containment can be implemented with ease and can grow and adapt to the changes that are a regular part of today's data centers.

PRODUCT LINE

1. Rack Top Baffle

24" (600mm) Angled
24" (600mm) Vertical
Also available in 30" (750mm) and 31.5" (800mm)

2. Sliding Doors

61.25" (1529 mm) x 85.4" (2168 mm) ~42-45U
85.25" (2139 mm) x 85.4" (2168 mm) ~42-45U
Available in black or white and a variety of fire ratings

3. Sliding Doors, Transom Windows

Add 8.75" to Sliding Door height ~ 50U
Available in black or white and a variety of fire ratings
For use with Sliding Doors

4. Adjustable Mounting Post

78.75"– 84" x 10" x 12"
(2000 mm – 2134 mm x 254 mm x 305 mm)

5. Bi-Directional Doors

48" (1200mm) x42U
Also available in 45U, 48U, & 50U
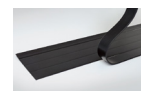
6. Adjustable Rack Gap Panel

10"-60" (250mm-1500mm) 42U
Also available in 45U, 48U, & 50U

7. Magnetic Under Rack Panel

26" (660mm): 10226
33.5" (851mm): 10227

8. Under Rack Panel

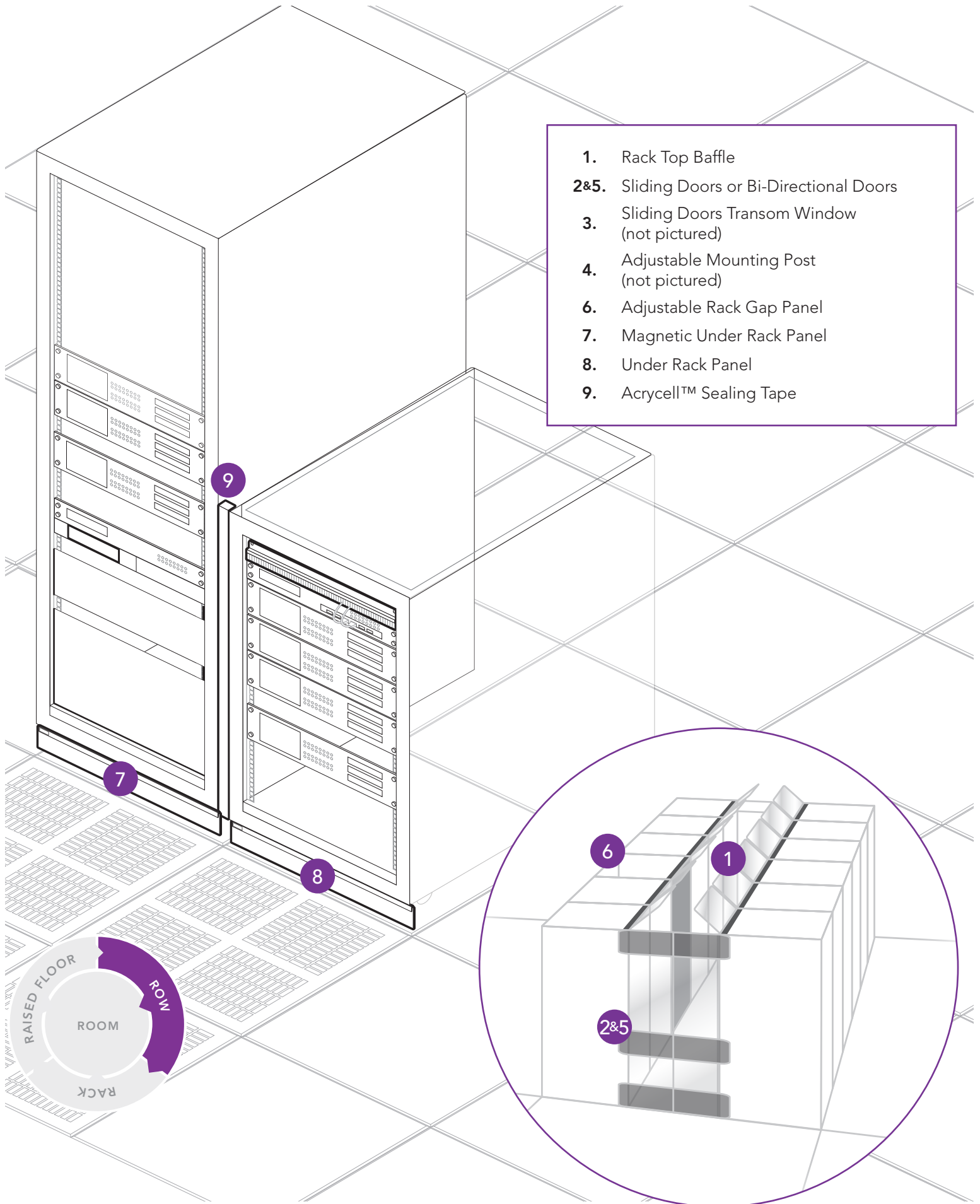**27.5" (700mm): 10126**
31.5" (800mm): 10127

9. Acrycell™ Sealing Tape

1/2" (13mm): 10108-001
1" (25mm): 10108-002
2" (50mm): 10108-003

1. Rack Top Baffle
2&5. Sliding Doors or Bi-Directional Doors
3. Sliding Doors Transom Window (not pictured)
4. Adjustable Mounting Post (not pictured)
6. Adjustable Rack Gap Panel
7. Magnetic Under Rack Panel
8. Under Rack Panel
9. Acrycell™ Sealing Tape

RAISED FLOOR
ROW
ROOM
RACK

upsite
technologies®

Upsite Technologies'® EnergyLok® Environmental Monitoring Systems (EMS) provide cost-effective solutions to optimize your data center environment by monitoring temperature, humidity, fluid leaks, motion, smoke, and door activity.

KoldLok®, HotLok®, and AisleLok® solutions by Upsite are designed to act together to create an environment of significantly improved airflow management. After installation, energy saving tweaks such as reducing fan speed, turning off cooling units, and raising temperature set points can then be taken to improve energy savings even further. EnergyLok products and services supervise this process and maximize your savings.

PRODUCT **LINE**

1. Environmental Monitoring System 300™

418 MHz: 300-EMS-001
433 MHz: 300-EMS-002

2. Environmental Monitoring System 200™

Part Number: 200-EMS-001

3. Sensors & Detectors

Temp. Sensor: 300-TSR-001
300-TSR-002

Humidity Sensor: 300-THS-001
300-THS-002

Temp. Digital Input: 300-TSD-001
300-TSD-002

Leak Detector: 300-WLD-001

Leak Spot Detector: 200-LSD-114

Motion Sensor: 200-MSW-001

RAISED FLOOR
ROW
ROOM
RACK

1. Environmental Monitoring System 300
2. Environmental Monitoring System 200
3. Sensors & Detectors