

PROTEK SINGLE-DOOR FAN PACKAGES



INDUSTRY STANDARDS

UL 508A Listed; File Number E61997
 cUL Listed per CSA C22.2 No. 94; File Number E61997
 Solid Door: Type 3R
 Window Door: Type 1

NEMA / EEMAC: Type 1 or 3R
 IEC 60529, IP30 or IP 32, IK 10

APPLICATION

PROTEK Single-Door Fan Package cabinets are an excellent, off-the-shelf choice for mounting 19-in. rack, panel-mounted devices or other electronic equipment. An integral top solar/drip shield and thermostatically-controlled fans provide airflow to cool internal equipment. Cabinets are available in UL Type 3R for indoor/outdoor use. A UL Type 1 window-door version is available for indoor applications. The integral fans provide cooling for internally-mounted equipment. The enclosures provide protection against water, dirt and other contaminants. PROTEK is an excellent choice for applications where space is at a premium and the only option is wall mounting. PROTEK comes in a broad range of sizes, materials and configurations to meet many demanding applications.

FEATURES

- Solid-door cabinet provides complete physical and visual protection
- Integral top solar/drip shield
- Two thermostatically-controlled, long-life, high-performance fans mounted into top
- Perforated, vented base with internal, expanded metal, serviceable filter
- Window door, made of scratch-resistant safety glass, provides visual monitoring of internal equipment while maintaining equipment protection
- All seams are fully welded and ground smooth
- Door and body are provided with ground studs to facilitate proper bonding and grounding of the cabinet
- Premium seamless, foam-in-place gasket prevents contaminants from entering the cabinet
- Keylocking wing knob provides access control to the cabinet; two keys are included with each cabinet
- One set of plated, self-grounding, tapped 10-32 rack angles per EIA universal spacing standards, which can be adjusted front-to-back, is provided with each cabinet
- Additional rack angles in tapped and square-hole versions can be added to the cabinet
- Wall section welded panel studs which accommodate standard panels (steel and wood available), can be ordered separately

SPECIFICATIONS

- Doors made of 16 gauge and body made of 14 gauge steel
- Window made of .25-in. safety glass
- Integral top with two 6-in. (272 CFM) or 4-in. (113 CFM) fans powered by 120 VAC via cord with standard NEMA plug 5-15P
- Incoming air filter made of expanded aluminum
- Rack angles made of 12 gauge plated steel
- M6 door and body ground studs are masked from paint
- Twenty 10-32 rack angle equipment mounting screws included with cabinet
- Foam-in-place gasket made of durable polyurethane
- Inline thermostat turns fans on when temperature exceeds 85 F/30 C

FINISH

Pretreated steel coated with light-gray, low-gloss, lightly textured RAL 7035 polyester powder

LOAD RATING

| Height | Rating |
|--------|------------------|
| 24 in. | 250 lb./90.7 kg |
| 36 in. | 300 lb./136.1 kg |
| 48 in. | 400 lb./181.4 kg |

ACCESSORIES

Locks and handles
 Panels (steel and wood)
 Grounding kits
 Power Distribution Units (PDUs)
 Rack angles

NOTES

Performance data based on:

- Effective measured airflow provided by integral fans is 272 CFM (6-in.) or 113 CFM (4-in.)
- Delta T or ΔT (Ambient Temperature – Maximum in-cabinet Temperature)
 - Ambient air must be cooler than maximum in-cabinet temperature
 - For applications that have less than a ΔT of 5 F, use PROTEK with AC unit
- Total Cooling = (Air cooling + Cabinet cooling)
- Air Cooling [Watts = .316 x CFM x ΔT] Cabinet cooling [Watts = (.22 x Area) / ΔT]

Example: Cabinet height 24 in. x 24 in. deep with ambient temperature 110 F, with a maximum internal cabinet temperature 120 F ($\Delta T = 10$ F). The cabinet and fans will provide a total cooling capability of 762 Watts or 1300 BTU.

[See Performance Charts]

BULLETIN: DWS12

Performance Chart **12-in. Deep Total Cooling in Watts (BTUs)**

| Delta T | A=24 in. | A=36 in. | A=48 in. |
|---------|------------|-------------|------------|
| 25F | 948 (3235) | 970 (33310) | 992 (2385) |
| 20F | 758 (2587) | 776 (2648) | 793 (2708) |
| 15F | 569 (1941) | 581 (1986) | 595 (2031) |
| 10F | 379 (1294) | 388 (1324) | 397 (1354) |
| 5F | 190 (647) | 194 (662) | 198 (677) |

See Notes on page 1.

Performance Chart **24-in. Deep Total Cooling in Watts (BTUs)**

| Delta T | A=24 in. | A=36 in. | A=48 in. |
|---------|-------------|-------------|-------------|
| 25F | 2237 (7634) | 2270 (7747) | 2309 (7860) |
| 20F | 1789 (6107) | 1816 (6197) | 1842 (6288) |
| 15F | 1342 (4580) | 1362 (4648) | 1382 (4716) |
| 10F | 895 (3054) | 908 (3099) | 921 (3144) |
| 5F | 447 (1527) | 454 (1550) | 460 (1572) |

See Notes on page 1.

Technical Fan Data

| Depth | Nominal Size | Qty. | Voltage | Amperage 50/60 Hz | Plug | Effective CFM |
|--------|--------------|------|---------|----------------------|---------------------|--------------------|
| 12 in. | 4 in. | 2 | 120 VAC | .52/.42 | Standard NEMA 5-15P | 113 (Clean Filter) |
| 24 in. | 6 in. | 2 | 120 VAC | .90/.72 | Standard NEMA 5-15P | 272 (Clean filter) |

Standard Product **PROTEK Single Solid Door Fan Package, Type 3R (indoor or outdoor)**

| Catalog Number | in./mm | Rack Units | F in./mm | G in./mm | P in./mm | Q in./mm | R in./mm | Optional Steel Panel | Optional Wood Panel | Additional Rack Angles ³ |
|----------------|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|----------------------|---------------------|-------------------------------------|
| PTRS242412G3 | 24.09 x 23.62 x 11.81 | 12 | 9.51 | 13.38 | --- | --- | 9.48 | CP2020 | CP2020W | PTRA24T or PTRA24S |
| | 612 x 600 x 300 | | 242 | 400 | --- | --- | 241 | | | |
| PTRS242424G3 | 24.09 x 23.62 x 24.02 | 12 | 21.72 | 26.75 | --- | --- | 14.28 | CP2020 | CP2020W | PTRA24T or PTRA24S |
| | 612 x 600 x 610 | | 552 | 679 | --- | --- | 363 | | | |
| PTRS362412G3 | 36.30 x 23.62 x 11.81 | 19 | 9.51 | 13.38 | --- | --- | 9.48 | CP3220 | CP3220W | PTRA36T or PTRA36S |
| | 922 x 600 x 300 | | 242 | 400 | --- | --- | 241 | | | |
| PTRS362424G3 | 36.30 x 23.62 x 24.02 | 19 | 21.72 | 26.75 | --- | --- | 14.28 | CP3220 | CP3220W | PTRA36T or PTRA36S |
| | 922 x 600 x 610 | | 552 | 679 | --- | --- | 363 | | | |
| PTRS482412G3 | 48.54 x 23.62 x 11.81 | 26 | 9.51 | 13.38 | --- | --- | 9.48 | CP4420 | CP4420W | PTRA48T or PTRA48S |
| | 1233 x 600 x 300 | | 242 | 400 | --- | --- | 241 | | | |
| PTRS482424G3 | 48.54 x 23.62 x 24.02 | 26 | 21.72 | 26.75 | --- | --- | 14.28 | CP4420 | CP4420W | PTRA48T or PTRA48S |
| | 1233 x 600 x 610 | | 552 | 679 | --- | --- | 363 | | | |

Cabinet dimensions do not include integral solar/drip shield and fan top. See dimensional drawing.

³T=tapped 10-32; S=Square hole (.375 in. x .375 in./10 mm x 10 mm)

Replacement filters: for 12-inch deep part number 30189028, for 24-inch deep part number 10100038



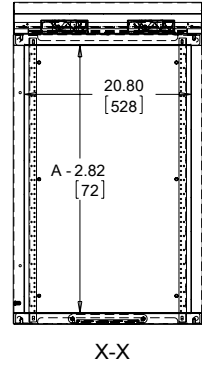
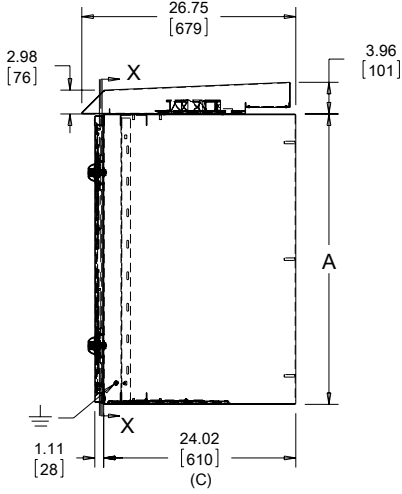
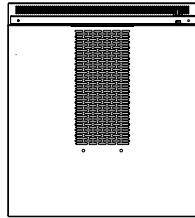
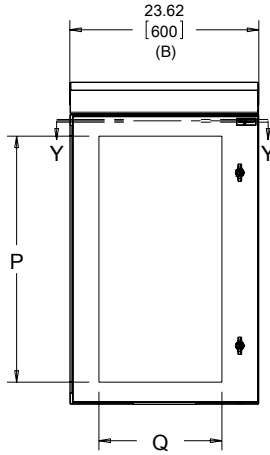
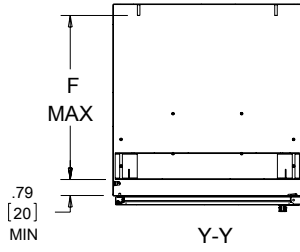
Standard Product PROTEK Single Window Door Fan Package, Type 1 (indoor only)

| Catalog Number | AxBxC in./mm | Rack Units | F in./mm | G in./mm | P in./mm | Q in./mm | R in./mm | Optional Steel Panel | Optional Wood Panel | Additional Rack Angles ³ |
|----------------|---|------------|--------------|--------------|---------------|--------------|--------------|----------------------|---------------------|-------------------------------------|
| PTRW242424GF | 24.09 x 23.62 x 24.02 612 x 600 x 610 | 12 | 21.72 552 | 26.75 679 | 18.25 464 | 15.38 391 | 14.28 363 | CP2020 | CP2020W | PTRA24T or PTRA24S |
| PTRW362424GF | 36.30 x 23.62 x 24.02 922 x 600 x 610 | 19 | 21.72 552 | 26.75 679 | 30.75 781 | 15.38 391 | 14.28 363 | CP3220 | CP3220W | PTRA36T or PTRA36S |
| PTRW482424GF | 48.54 x 23.62 x 24.02 1233 x 600 x 610 | 26 | 21.72 552 | 26.75 679 | 42.20 1085 | 15.38 391 | 14.28 363 | CP4420 | CP4420W | PTRA48T or PTRA48S |

Cabinet dimensions do not include integral solar/drip shield and fan top. See dimensional drawing. Cabinet dimensions do not include integral solar/drip shield and fan top. See dimensional drawing.

³ T=Tapped 10-32, S=Square hole (.375 in. x .375 in.)



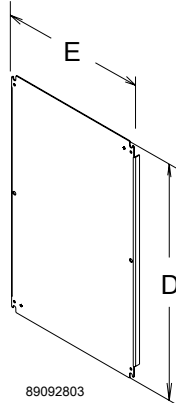


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PROTEK WALL-MOUNT CABINET ACCESSORY PANELS

Where equipment mounting space is limited, Accessory Panels increase cabinet capacity by providing a mounting surface for 19-in. equipment and accessories at the back of the cabinet. The panels mount on collar studs provided in the cabinet. Available in painted mild steel.

BULLETIN: CWP, DWDH2



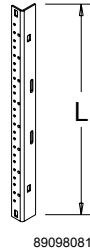
Standard Product

| Catalog Number | Panel Size D x E mm/in. | Gauge |
|----------------|----------------------------|-------|
| CP2014 | 462 x 310 | 14 |
| CP2020 | 462 x 462 | 12 |
| CP2442 | 564 x 1021 | 12 |
| CP3220 | 762 x 462 | 12 |
| CP4420 | 1072 x 462 | 12 |
| CP5620 | 1351 x 462 | 12 |

PROTEK RACK ANGLES

Square- and tapped-hole rack angles fit into PROTEK single- and double-hinged cabinets.

BULLETIN: DWDH2



Standard Product

| Catalog Number | L in./mm | Hole Type | Fits Cabinet Height in./mm | Rack Units |
|----------------|---------------|-----------|-------------------------------|------------|
| PTRA16T | 16.12 409 | Tapped | 16.00 | 8 |
| PTRA16S | 16.12 409 | Square | 16.00 | 8 |
| PTRA24T | 23.12 587 | Tapped | 24.00 | 12 |
| PTRA24S | 23.12 587 | Square | 24.00 | 12 |
| PTRA36T | 35.32 897 | Tapped | 36.00 | 19 |
| PTRA36S | 35.32 897 | Square | 36.00 | 19 |
| PTRA48T | 45.57 1157 | Tapped | 48.00 | 26 |
| PTRA48S | 45.57 1157 | Square | 48.00 | 26 |
| PTRA60T | 59.07 1500 | Tapped | 60.00 | 32 |
| PTRA60S | 59.07 1500 | Square | 60.00 | 32 |

Notes