PROLINE VOICE/DATA AND SERVER CABINET, TYPE 12

INDUSTRY STANDARDS

EIA RS-310-D

UL 508A Listed; Type 12; File Number E61997
cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC, Type 12

APPLICATION

Robustly built and sealed for use in wet, dusty or hot environments, ProLine Type 12 Cabinets have optional cutouts to air condition voice/data equipment and servers.

FEATURES

Three-point locking handles on all doors provide easy but controlled access; two keys included
Fully welded frame safely supports sensitive equipment
Fully gasketed to keep contaminants away from equipment, reducing maintenance costs
Two sets of 19-in. rack angles support both front and rear of equipment

Mobile base provides easy placement of cabinet

SPECIFICATIONS

Welded 12 gauge steel frame with integral struts
Front window door made of 16 or 14 gauge steel with safety glass window
Solid 16 or 14 gauge steel back door
Standard package has solid 16 or 14 gauge steel sides
F1
F 1R
Models available with EIA Universal standard 3/8-in. square or 10-32 tapped holes
Mobile base includes casters, levelers and gland plate
F

FINISH

Pretreated steel coated with RAL 9005 black or RAL 7035 light-
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available—contact nVent HOFFMAN Customer Service.

LOAD RATING

Static Load Rating: 2500 lb. (1134 kg)
A cabinet has a static load when:

the anti-tip bracket is installed
its load is uniformly applied to the two sets of rack-mounting angles, and

Never move a cabinet with its maximum static load applied. Contact Hoffman if further information is needed.

Casters Maximum Load: 1000 lb. (453 kg)
D C
2
Avoid tipping and damage to the cabinet and its contents by slowly

obstructions such as:
large cracks

seams
gravel
Never use casters while transporting a cabinet by truck on roadways.
Contact nVent HOFFMAN if further information is needed.

ACCESSORIES

See the Package Components table. For AC-Ready Cabinet, see F1 F 1 O
E S
chapter. Air conditioner must be ordered and shipped separately; it cannot be factory installed.

NOTES

Sgd b`ahmds l trs ad etkkx rdbtqdc hm hsr ťm`k onrhshnm adenqd sgd @B unit (ordered separately) is mounted to the cabinet. Never move the cabinet with the AC mounted.

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R O

Catalog Number	AxBxC mm	AxBxC in.	Cabinet, Package Type	Finish	Rack Units	Hole Type	Rack Angle
P□□P2078□12	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, Standard	DataCom Black	42	Tapped	PRA1920TPL1
P□□P2078□12	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice Data, Standard	ProLine Gray	42	Tapped	PRA1920TPL1
PS□20610□12	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, Standard	DataCom Black	42	Square	PRA1920THL1
PS□20610□12	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, Standard	ProLine Gray	42	Square	PRA1920THL1

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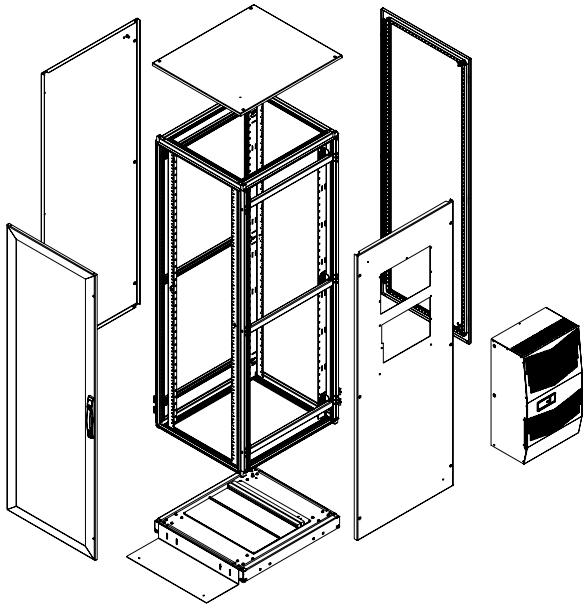
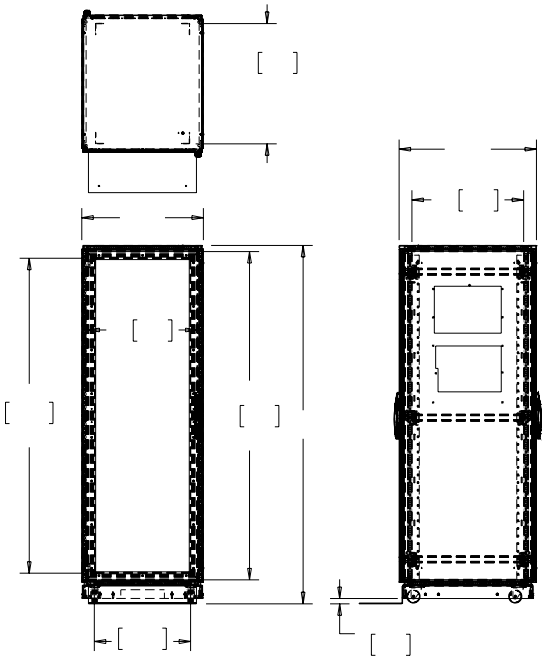
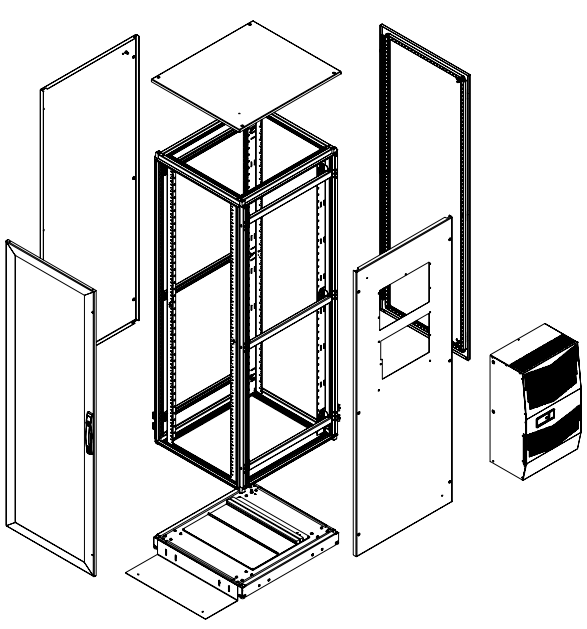
Catalog Number	AxBxC mm	AxBxC in.	Cabinet Package Type	Finish	AC	Rack Units	Hole Type	Rack Angle
P□□P2078□A□	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice/Data, AC-Ready	DataCom Black	G28	42	Tapped	PRA1920TPL1
P□□P2078□A□	2085 x 708 x 799	82.10 x 27.87 x 31.46	Voice/Data, AC-Ready	ProLine Gray	G28	42	Tapped	PRA1920TPL1
PS□20610□A□	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, AC-Ready	DataCom Black	G28	42	Square	PRA1920THL1
PS□20610□A□	2085 x 608 x 999	82.10 x 23.94 x 39.34	Server, AC-Ready	ProLine Gray	G28	42	Square	PRA1920THL1
P□□P2078□A□2	2082 x 708 x 799	81.98 x 27.87 x 31.47	Voice/Data, AC-Ready	DataCom Black	G52	42	Tapped	PRA1920TPL1
P□□P2078□A□2	2082 x 708 x 799	81.98 x 27.87 x 31.47	Voice/Data, AC-Ready	ProLine Gray	G52	42	Tapped	PRA1920TPL1
PS□20610□A□2	2082 x 609 x 999	81.98 x 23.96 x 39.32	Server, AC-Ready	DataCom Black	G52	42	Square	PRA1920THL1
PS□20610□A□2	2082 x 609 x 999	81.98 x 23.96 x 39.32	Server, AC-Ready	ProLine Gray	G52	42	Square	PRA1920THL1

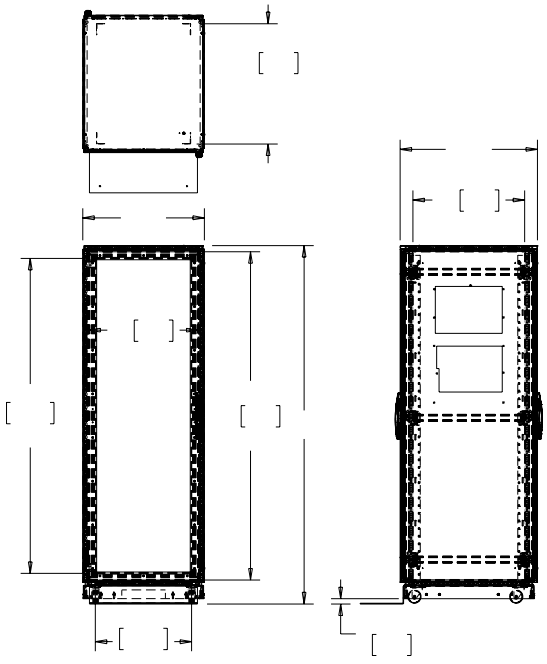
¢O`bj`fd Bnl onmdmsr `mc Qdok`bd l dms O`qsr

Catalog Number	AxBxC mm	AxBxC in.	Description	Finish
P□□2078□	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Black
P□□2078□	2000 x 700 x 800	78.70 x 27.60 x 31.50	Frame	Gray
P□□20610□	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Black
P□□20610□	2000 x 600 x 1000	78.70 x 23.60 x 39.40	Frame	Gray
P□□ □206□	2000 x 600	78.70 x 23.60	Window Doors	Black
P□□ □206□	2000 x 600	78.70 x 23.60	Window Doors	Gray
P□□ □207□	2000 x 700	78.70 x 27.60	Window Doors	Black
P□□ □207□	2000 x 700	78.70 x 27.60	Window Doors	Gray
P□S206□	2000 x 600	78.70 x 23.60	Solid Doors	Black
P□S206□	2000 x 600	78.70 x 23.60	Solid Doors	Gray
P□S207□	2000 x 700	78.70 x 27.60	Solid Doors	Black
P□S207□	2000 x 700	78.70 x 27.60	Solid Doors	Gray
PSS208□	2000 x 800	78.74 x 31.50	Solid Sides	Black
PSS208□	2000 x 800	78.74 x 31.50	Solid Sides	Gray
PSS2010□	2000 x 1000	78.74 x 39.37	Solid Sides	Black
PSS2010□	2000 x 1000	78.74 x 39.37	Solid Sides	Gray
PSS208A□□	2000 x 800	78.74 x 31.50	Sides with AC Cutout	Black
PSS208A□□	2000 x 800	78.74 x 31.50	Sides with AC Cutout	Gray
PSS2010A□□	2000 x 1000	78.74 x 39.37	Sides with AC Cutout	Black
PSS2010A□□	2000 x 1000	78.74 x 39.37	Sides with AC Cutout	Gray
PSS208A□2□	1939 x 753 x 25	76.34 x 29.66 x 0.99	Sides with AC Cutout	Black
PSS208A□2□	1939 x 753 x 25	76.34 x 29.66 x 0.99	Sides with AC Cutout	Gray
PSS2010A□2□	1939 x 953 x 25	76.34 x 37.54 x 0.99	Sides with AC Cutout	Black
PSS2010A□2□	1939 x 953 x 25	76.34 x 37.54 x 0.99	Sides with AC Cutout	Gray
P□78□	700 x 800	27.56 x 31.50	Top	Black
P□78□	700 x 800	27.56 x 31.50	Top	Gray
P□610□	600 x 1000	23.62 x 39.37	Top	Black
P□610□	600 x 1000	23.62 x 39.37	Top	Gray
P□M□78□	700 x 800	27.60 x 31.50	Mobile Base	Black
P□M□610□	600 x 1000	23.60 x 39.37	Mobile Base	Gray

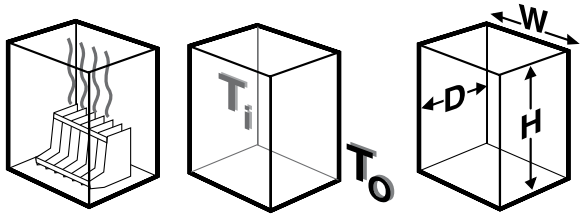








AIR CONDITIONER SIZING



Air conditioners are appropriate for applications in which:
- **The temperature inside the enclosure must be maintained at or below ambient temperature.**
- **Humidity must be removed from the enclosure.**
- **Ambient air contaminants must be kept out of the enclosure.**

The following air conditioner sizing procedure applies to uninsulated, sealed and gasketed enclosures in indoor locations.

Step 1. Determine the internal heat load in watts (W)

Conversion: 1 W = 3.413 BTU/hr.

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R S_i S_o

$T_o - T_i$ S

S E S

Step 3. Determine the exposed surface area of the cabinet in square feet.
Use the following formula to determine area when H, W and D are the cabinet dimensions in inches.
1 G G C C ^{2}
Conversion: If dimensions are in millimeters, substitute 1,000,000 for 144. Then multiply the result by 10.76 to convert from m^2 to $ft.^2$

Step 4. Determine the air conditioner capacity required
Use the following formula:
2 2 1 ^{2} S E AST
Required air conditioner capacity in BTU/hr.

Use this formula to determine the required cooling capacity needed to maintain the desired operating temperature for your enclosure. This selection procedure applies to uninsulated, sealed, gasketed enclosures in indoor locations.

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conditions will result in reduced cooling capacity. In other words, operating 95 F ambient and 95 F enclosure temperature results in a 10 percent to 20 percent reduction in the rated capacity.

Full cooling capacity is probably not necessary at lower ambient temperatures.

G28 AIR CONDITIONER SPECIFICATIONS

Performance Data â , 2 T I J Q X '9 : - W < F Y Y

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Indoor Model	G280416G050	G280426G050	G280446G050	G280616G050	G280626G050	G280646G050
Indoor Model Stainless Steel Type 4X	G280416G051	G280426G051	G280446G051	G280616G051	G280626G051	G280646G051
Indoor Model with Remote Access Control*	G280416G060	G280426G060	G280446G060	G280616G060	G280626G060	G280646G060
Outdoor Model without Heat Pkg.	G280416G100	G280426G100	G280446G100	G280616G100	G280626G100	G280646G100
Outdoor Model Partial Recessed Mount**	G280416G101	G280426G101	G280446G101	G280616G101	G280626G101	G280646G101
Outdoor Model with Heat Pkg.	G280416G150	G280426G150	—	G280616G150	G280626G150	—
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	G280416G151	G280426G151	—	G280616G151	G280626G151	—
COOLING PERFORMANCE						
3 T R N S F Q						
'9 : - W						
< F Y Y X						
At 131 F/131 F (55 C/55 C):						
BTU/Hr. (50/60 Hz)	3700	4600/4900	4600/4900	6000/6400	6000/6400	5400/6000
W (50/60 Hz)	1084	1347/1435	1347/1435	1757/1874	1757/1874	1581/1757
At 95 F/95 F (35 C/35 C):						
BTU/Hr. (50/60 Hz)	3300/3410	4300/4600	4324/4655	5600/6000	5600/6000	5054/5685
W (50/60 Hz)	967/1000	1260/1364	1267/1364	1641/1758	1641/1758	1481/1666
Refrigerant	R134A	R407C	R134A	R407C	R407C	R134A
Refrigerant Charge (ounces/grams)	12/340	20/567	16/454	20/567	20/567	16/454
Operating Temperature Range:						
Maximum (°F/°C)	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C	131 F/55 C
Minimum (°F/°C)	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C	-40 F/-40 C
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM / m^3/hr.)	151/256	189/321	189/321	189/321	189/321	189/321
External loop 50 Hz (CFM / m^3/hr.)	284/482	291/494	291/494	291/494	291/494	291/494
Internal loop 60 Hz (CFM / m^3/hr.)	183/310	221/375	221/375	221/375	221/375	221/375
External loop 60 Hz (CFM / m^3/hr.)	290/492	300/509	300/509	300/509	300/509	300/509
Max. Heater W (Outdoor Models)	2000	2000	NA	2000	2000	NA
ELECTRICAL DATA						
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Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	465/1055	1058/1334	680/874	1138.5/1311	1058/1334	680/874
Max. Nominal Current (A at 50/60 Hz)	10.4/10.1	4.6/5.8	1.7/1.9	9.9/11.4	4.6/5.8	1.7/1.9
Starting Current (A)	36.2	17.7	7.7	36.2	17.7	7.7
Agency Approvals	UL/cUL Listed CE EAC					
Power Input Description	Terminal Block					
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R, 4 Standard** Type 4X Stainless Steel Optional					
CONTROLLER						
Description	Basic Mechanical Thermostat					
Thermostat Location	Enclosure Side on All Base Models					
Factory Thermostat Setting (°F/°C)	80/27	80/27	80/27	80/27	80/27	80/27
8 4 : 3) 1 * ; * 1						
At 1.5 Meters	68 dB(A)					
UNIT CONSTRUCTION						
Material	Galvanized Sheet Metal Standard (Optional: Stainless Steel)					
Finish	Powder Coat RAL 7035 Light Gray Standard					
ACCESSORIES						
EASYSWAP Adaptor Plenum (GENESIS M28)	Enables SPECTRACOOL to be mounted to GENESIS M28 air conditioner cutout Catalog Number PLM28G28					
EASYSWAP Adaptor Plenum (T-Series T29)	Enables SPECTRACOOL to be mounted to T-Series T29 air conditioner cutout Catalog Number PLT29G28					
UNIT DIMENSIONS						
Height (in./mm)	28.55/725.1					
Width (in./mm)	16.97/431.1					
Depth (in./mm)	10.10/256.6					
Weight (lb./kg)	84/38	84/38	84/38	84/38	84/38	84/38

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USB.

**Outdoor Model Partial Recessed Mount units are UL Type 12, 3R only.