

**CLIMAGUARD AIR-TO-AIR INDOOR**


<b>XR20</b> Models 4 W/°F (7 W/°C)	<b>XR29-08</b> Models 8 W/°F (14 W/°C)	<b>XR29-18</b> Models 18 W/°F (32 W/°C)	<b>XR47-24</b> Models 24 W/°F (43 W/°C)	<b>XR47-35</b> Models 35 W/°F (63 W/°C)	<b>XR60-55</b> Models 55 W/°F (99 W/°C)	<b>XR60-84</b> Models 84 W/°F (151 W/°C)
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**INDUSTRY STANDARDS**

UL/cUL Listed; Type 12; File No. SA7402  
UR/cUR Recognized

Type 12 on XR20 and XR29-08 models  
Type 3R on XR29-18 and larger models when surface mounted vertically on an enclosure

CE  
EAC

**APPLICATION**

- Industrial automation
- Package handling equipment
- Security and defense systems
- And more

**FEATURES**

- Unique counterflow aluminum core for high-efficiency and high-performance heat transfer, except for the XR20 and XR29-08 which use a modified heat pipe core
- Models for 115 and 230 VAC power input
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from -20 F/-29 C to 140 F/60 C
- Streamlined aesthetics with no visible mounting rails; Slim design allows for mounting to narrow or shallow enclosures
- Reliable top-quality bearing fans and impellers make these units run quietly and with increased reliability
- Low-carbon mild-steel sheet-metal cover for rugged factory environments
- Easy-mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Filterless design for low maintenance and easy cleaning
- Four fasteners allow simple removal of front cover for easy access

**FINISH**

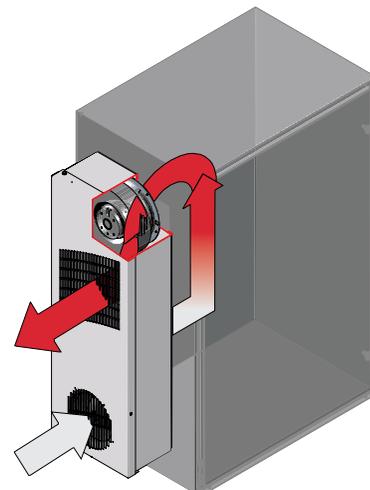
- RAL 7035 light-gray, semi-textured powder-coat paint standard
- Stainless steel Type 304 or 316 finishes available
- Other colors and textures available

**OPTIONS**

- Special Voltage Package
  - Outdoor Package\*
  - Stainless Steel Package\*
- \* CLIMAGUARD may be more appropriate. Refer to CLIMAGUARD Air-to-Air Outdoor chapter. Consult the factory for availability and catalog number.

**NOTES**

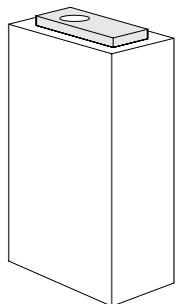
Visit [www.PentairProtect.com](http://www.PentairProtect.com) to download 2D and 3D CAD drawings into the overall design of your electrical system.



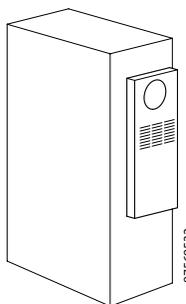
Performance Data XR20 Models 4 W/°F (7 W/°C)

CATALOG NUMBER		
	XR200416012	XR200426012
COOLING PERFORMANCE		
Nominal:		
W per °F	4	4
W per °C	7	7
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	4/113	4/113
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	71/121	71/121
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	75/127	75/127
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	74/126	74/126
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	78/132	78/132
ELECTRICAL DATA		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	69	69
Max. Nominal Current (A at 50/60 Hz)	0.6	0.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	Terminal Block	Terminal Block
ENCLOSURE PROTECTION		
UL Type	Type 12 standard	
SOUND LEVEL		
At 1.5 Meters	56 dBA	
UNIT CONSTRUCTION		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
UNIT DIMENSIONS		
Height (in./mm)	20/508	20/508
Width (in./mm)	7.5/190.5	7.5/190.5
Depth (in./mm)	3/76.2	3/76.2
Weight (lb./kg)	12/5.4	12/5.4

Mounting Options



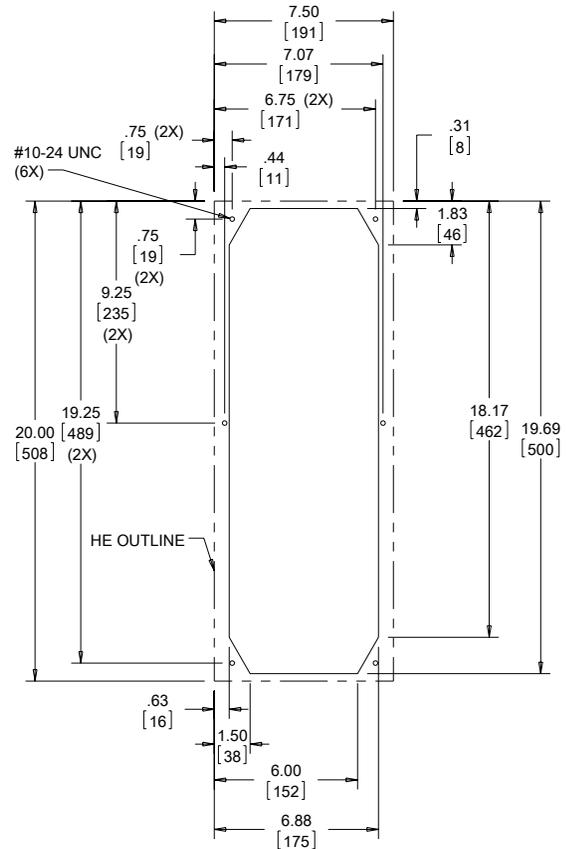
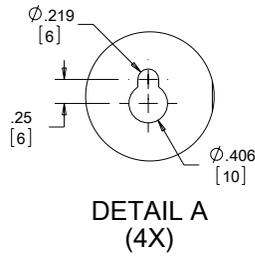
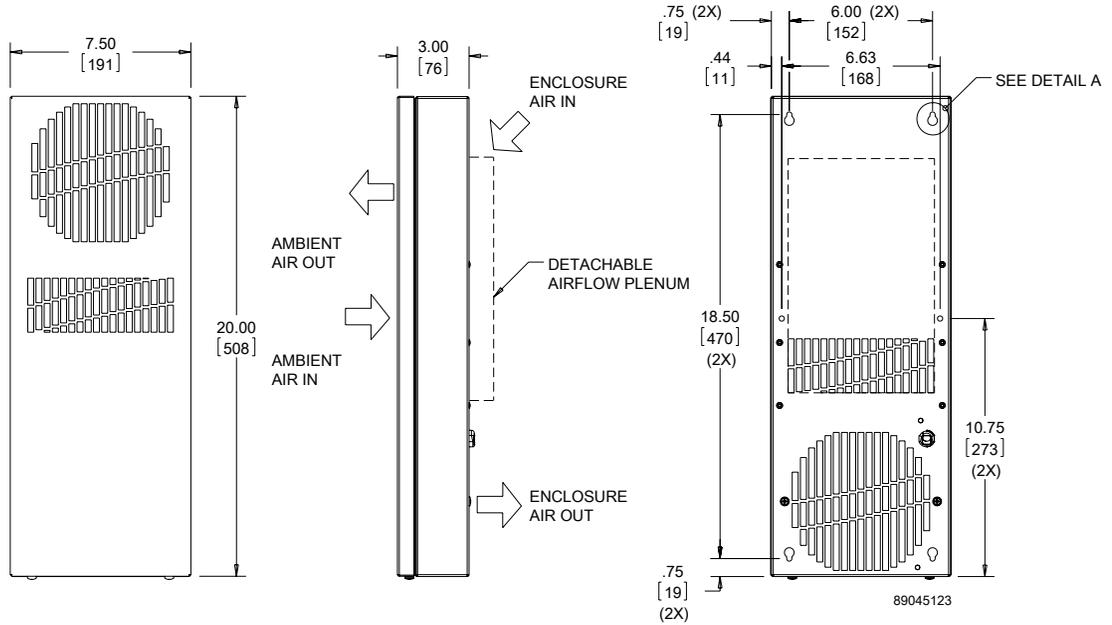
External Top-Mount



External Vertical-Mount

87569532

XR20 Models 4 W/°F (7 W/°C)



Cutout Dimensions

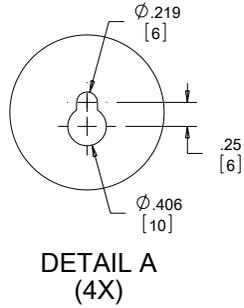
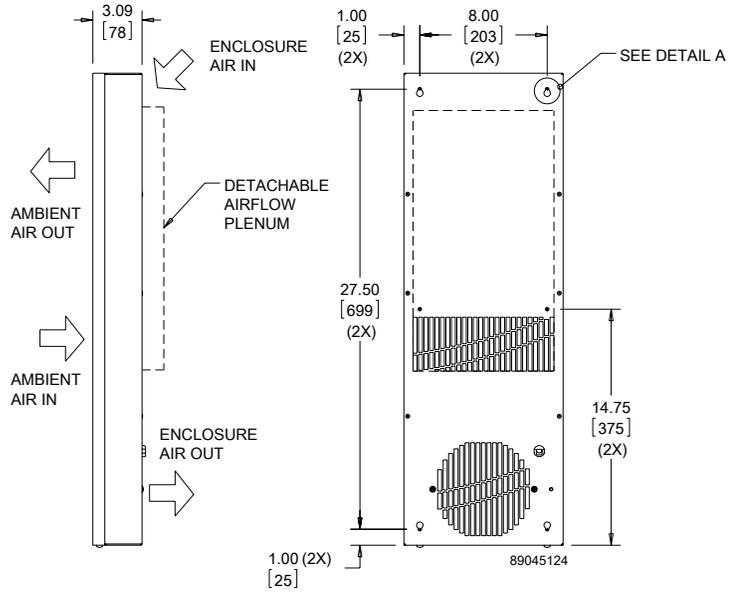
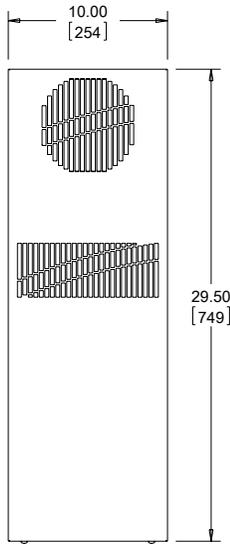
NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in [mm]

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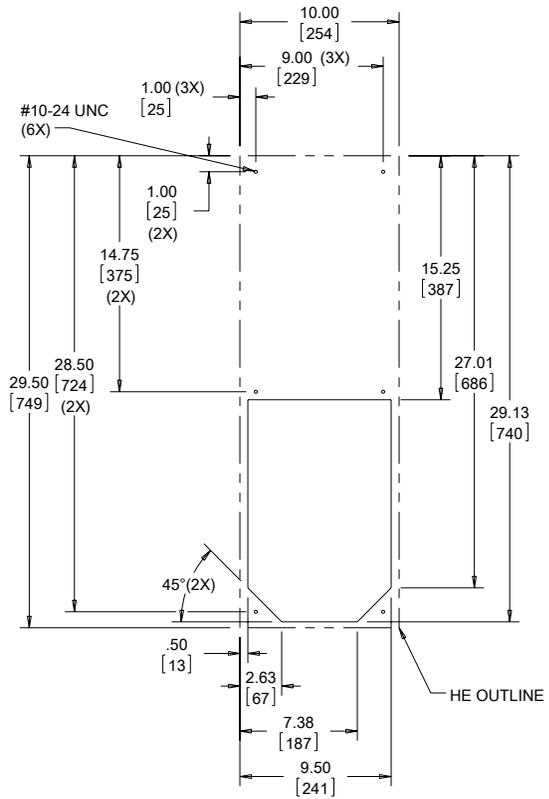
Performance Data XR29 Models 8 W/°F (14 W/°C)

<b>CATALOG NUMBER</b>		
	XR290816012	XR290826012
<b>COOLING PERFORMANCE</b>		
Nominal:		
<b>W per °F</b>	<b>8</b>	<b>8</b>
<b>W per °C</b>	<b>14</b>	<b>14</b>
Refrigerant	R-134A	R-134A
Refrigerant Charge (ounces/grams)	5.5/156	5.5/156
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	71/121	71/121
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	75/127	75/127
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	74/126	74/126
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	78/132	78/132
<b>ELECTRICAL DATA</b>		
<b>Rated Voltage</b>	<b>115</b>	<b>230</b>
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	69	69
Max. Nominal Current (A at 50/60 Hz)	0.6	0.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	Terminal Block	Terminal Block
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard	
<b>SOUND LEVEL</b>		
At 1.5 Meters	56 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	29.5/749.3	29.5/749.3
Width (in./mm)	10/254	10/254
Depth (in./mm)	3.09/78.5	3.09/78.5
Weight (lb./kg)	21/9.5	21/9.5

XR29 Models 8 W/°F (14 W/°C)



NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in [mm]



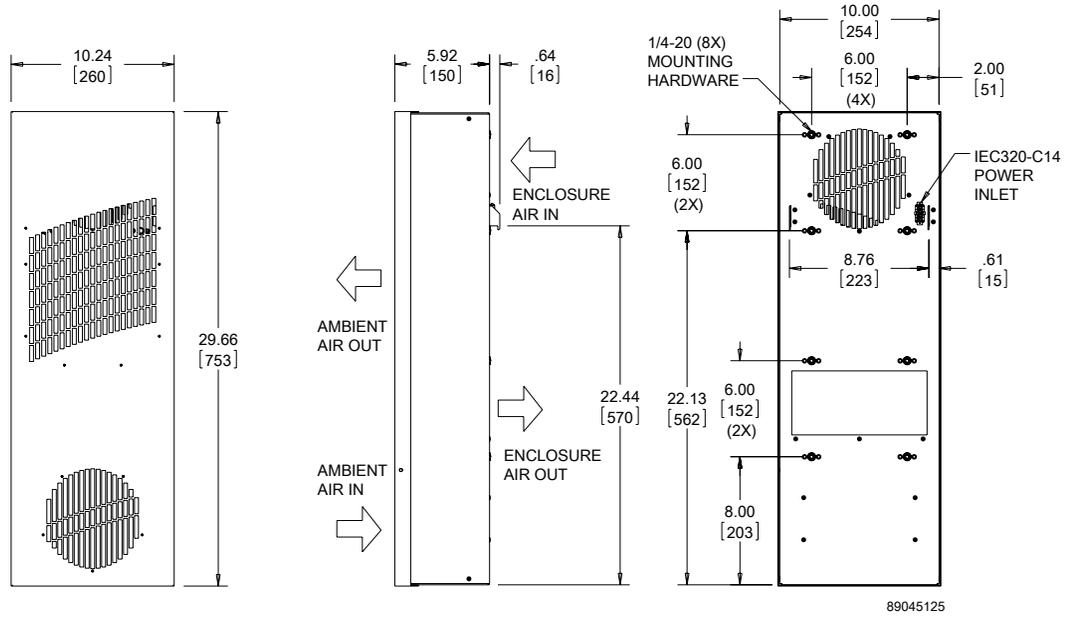
Cutout Dimensions

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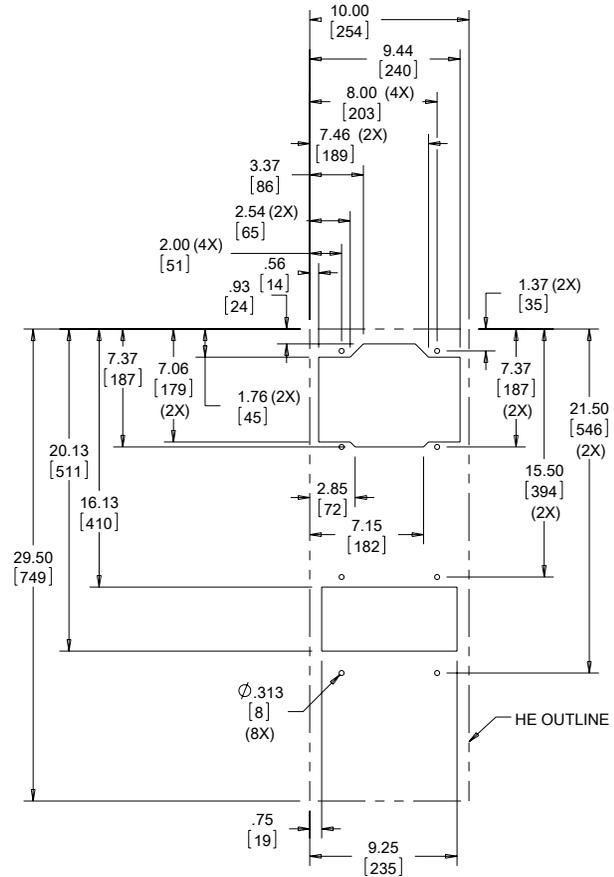
Performance Data XR29 Models 18 W/°F (32 W/°C)

CATALOG NUMBER		
	XR291816012	XR291826012
<b>COOLING PERFORMANCE</b>		
Nominal:		
W per °F	18	18
W per °C	32	32
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	126/214	126/214
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	120/204	120/204
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	140/237	140/237
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	133/226	133/226
<b>ELECTRICAL DATA</b>		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
<b>SOUND LEVEL</b>		
At 1.5 Meters	64 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	29.66/753.3	29.66/753.3
Width (in./mm)	10.24/260.1	10.24/260.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	32/15	32/15

XR29 Models 18 W/°F (32 W/°C)



NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in. [mm]



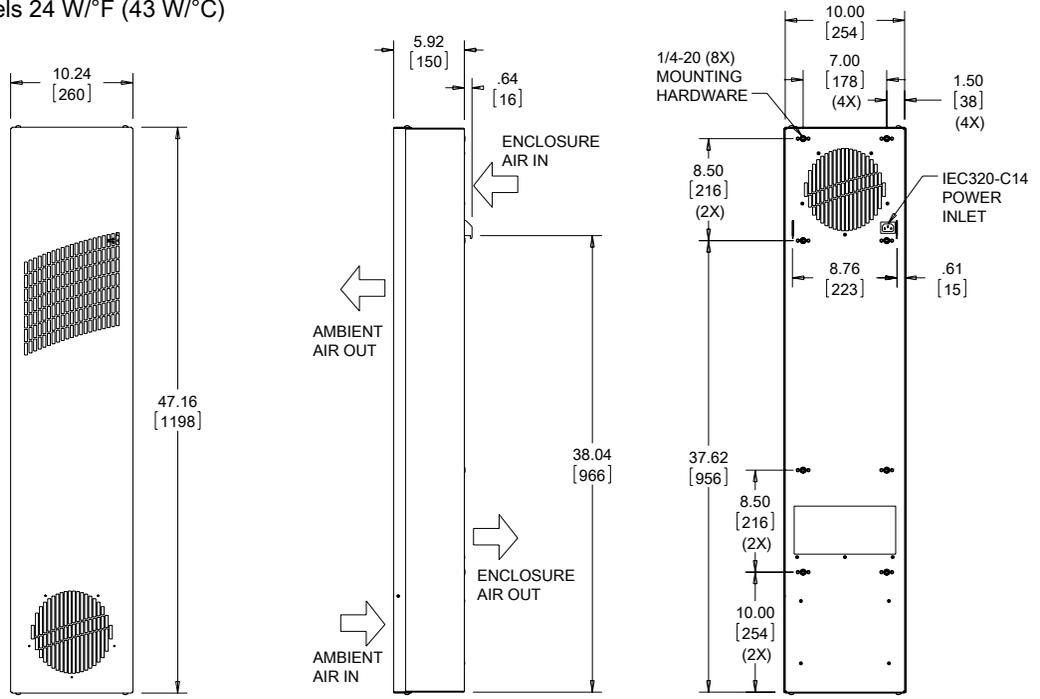
Cutout Dimensions

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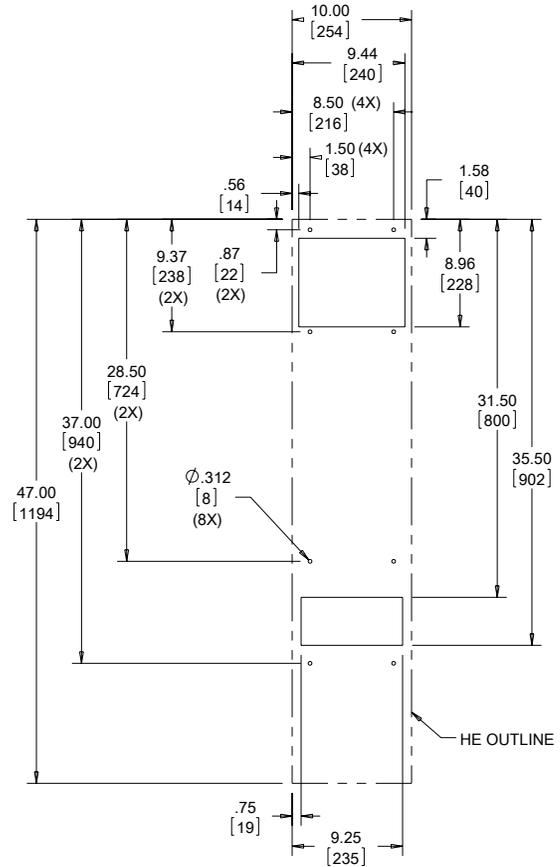
Performance Data XR47 Models 24 W/°F (43 W/°C)

<b>CATALOG NUMBER</b>		
	XR472416012	XR472426012
<b>COOLING PERFORMANCE</b>		
Nominal:		
<b>W per °F</b>	<b>24</b>	<b>24</b>
<b>W per °C</b>	<b>43</b>	<b>43</b>
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	140/238	140/238
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	118/200	118/200
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	156/265	156/265
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	131/222	131/222
<b>ELECTRICAL DATA</b>		
<b>Rated Voltage</b>	<b>115</b>	<b>230</b>
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
<b>SOUND LEVEL</b>		
At 1.5 Meters	68 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	47.16/1197.9	47.16/1197.9
Width (in./mm)	10.24/260.1	10.24/260.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	51/23	51/23

XR47 Models 24 W/°F (43 W/°C)



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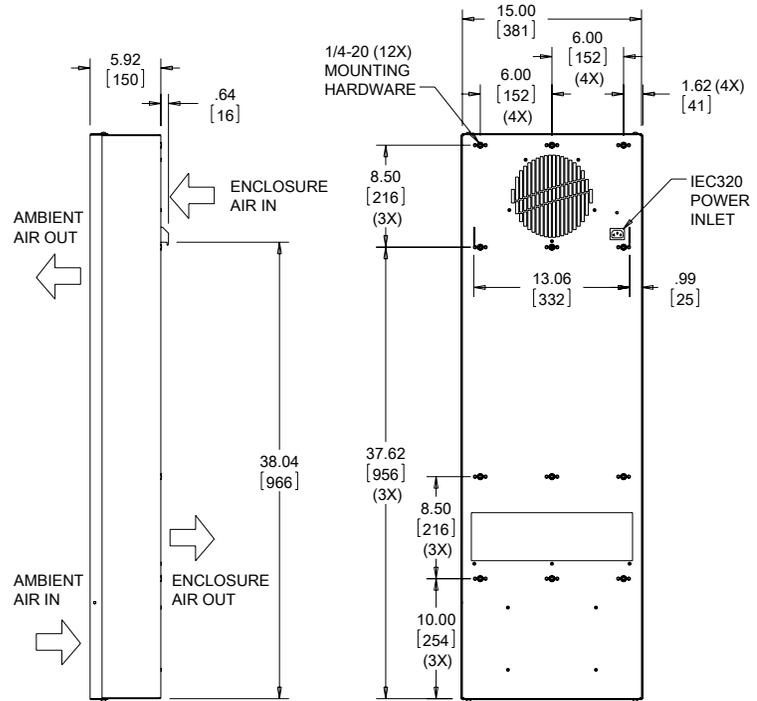
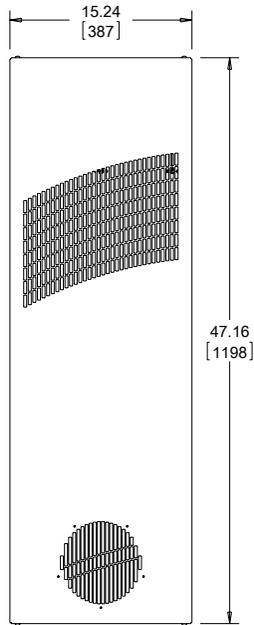
Cutout Dimensions

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Performance Data XR47 Models 35 W/°F (63 W/°C)

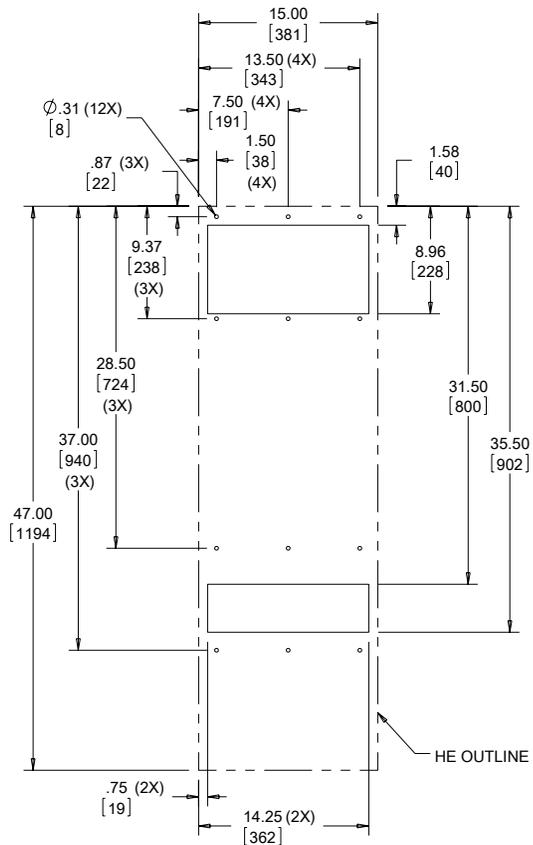
CATALOG NUMBER		
	XR473516012	XR473526012
<b>COOLING PERFORMANCE</b>		
Nominal:		
W per °F	35	35
W per °C	63	63
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	120/204	120/204
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	131/222	131/222
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	133/226	133/226
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	146/248	146/248
<b>ELECTRICAL DATA</b>		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	207	207
Max. Nominal Current (A at 50/60 Hz)	1.8	0.9
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
<b>SOUND LEVEL</b>		
At 1.5 Meters	68 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	47.16/1197.8	47.16/1197.8
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	59/27	59/27

XR47 Models 35 W/°F (63 W/°C)



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- NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in [mm]  
 3. 2-METER LONG SERVICE CORD TERMINATED WITH APPROPRIATE PLUG: NEMA 5-15P FOR 115V UNITS, NEMA 6-15P FOR 230V UNITS



Cutout Dimensions

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Performance Data XR60 Models 55 W/°F (99 W/°C)

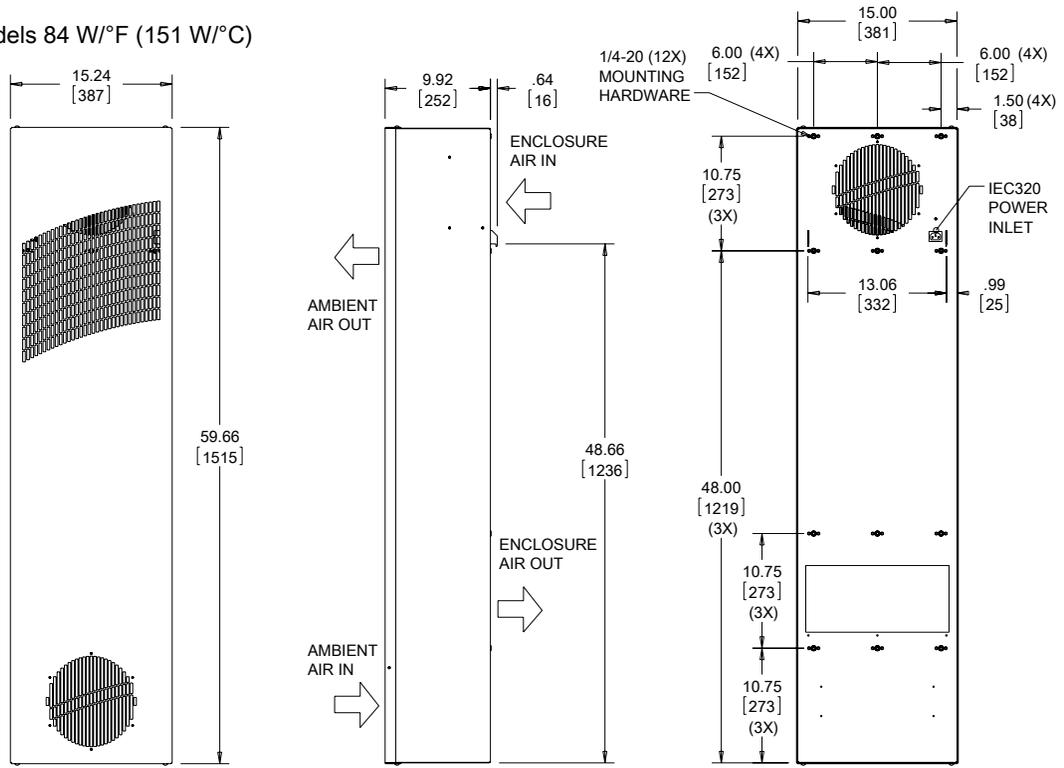
CATALOG NUMBER		
	XR605516012	XR605526012
<b>COOLING PERFORMANCE</b>		
Nominal:		
W per °F	55	55
W per °C	99	99
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	398/676	398/676
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	429/729	429/729
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	442/751	442/751
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	477/810	477/810
<b>ELECTRICAL DATA</b>		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	759	759
Max. Nominal Current (A at 50/60 Hz)	6.6	3.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
<b>SOUND LEVEL</b>		
At 1.5 Meters	73 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	59.66/1515.3	59.66/1515.3
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	5.92/150.4	5.92/150.4
Weight (lb./kg)	86/39	86/39



Performance Data XR60 Models 84 W/°F (151 W/°C)

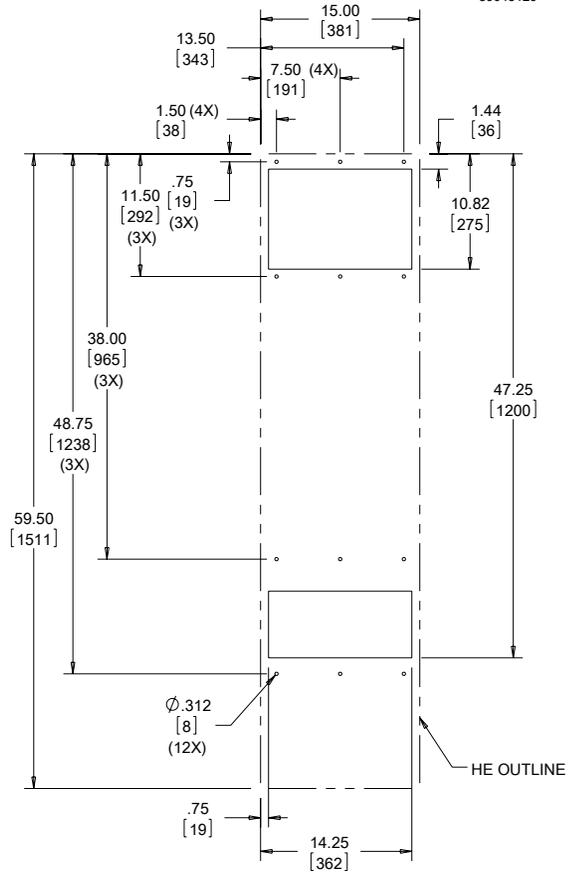
CATALOG NUMBER		
	XR608416012	XR608426012
<b>COOLING PERFORMANCE</b>		
Nominal:		
W per °F	84	84
W per °C	151	151
Refrigerant	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A
Operating Temperature Range:		
Maximum (°F/°C)	140/60	140/60
Minimum (°F/°C)	-20/-29	-20/-29
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM / m <sup>3</sup> /hr.)	497/844	497/844
External loop 50 Hz (CFM / m <sup>3</sup> /hr.)	434/737	434/737
Internal loop 60 Hz (CFM / m <sup>3</sup> /hr.)	552/938	552/938
External loop 60 Hz (CFM / m <sup>3</sup> /hr.)	482/819	482/819
<b>ELECTRICAL DATA</b>		
Rated Voltage	115	230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (W at 50/60 Hz)	759	759
Max. Nominal Current (A at 50/60 Hz)	6.6	3.3
Agency Approvals	UL/cUL Listed CE EAC	
Power Input Description	6-ft. cord with NEMA 5-15 plug	6-ft. cord with NEMA 6-15 plug
<b>ENCLOSURE PROTECTION</b>		
UL Type	Type 12 standard Type 3R, 4, 4X optional	
<b>SOUND LEVEL</b>		
At 1.5 Meters	73 dBA	
<b>UNIT CONSTRUCTION</b>		
Material	Mild steel sheet metal standard Stainless steel optional	
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard	
<b>UNIT DIMENSIONS</b>		
Height (in./mm)	59.66/1515.3	59.66/1515.3
Width (in./mm)	15.24/387.1	15.24/387.1
Depth (in./mm)	9.92/252	9.92/252
Weight (lb./kg)	106/48	106/48

XR60 Models 84 W/°F (151 W/°C)



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- NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in [mm]  
 3. 2-METER LONG SERVICE CORD SUPPLIED WITH APPROPRIATE PLUG:  
 NEMA 5-15P FOR 115V UNITS  
 NEMA 6-15P FOR 230V UNITS



Cutout Dimensions

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**Notes**