

## Engineering Specifications

## Unico Part No.

**Construction**

Dimensions, inch (mm):	12 H x 20 W x 38 L (305H x 508W x 965L)
Shipping weight, lb (kg):	92 (42)
Cabinet Type:	Galvanized
Insulation:	1 inch (25 mm) closed cell vinyl nitrile
Drain pan:	Stainless Steel
Drain pan connection:	1/2 inch FPT
Standard Return Duct ID, in (mm):	12 (305)
Standard Plenum ID, in (mm):	7.0 (178)

**Electrical**

Type:		
	<b>PSC (STD &amp; ACB)</b>	1 ph - 60/50 Hz - 208/230V
	<b>EC (SCB)</b>	1 ph - 60/50 Hz - 100/120V
		1 ph - 60/50 Hz - 208/230V
Fan Relay:		Snap acting with inherent time-delay
Transformer:		50 VA, 230/208V-24V

A00175-G10  
A00175-G07  
A00056-G02  
A00057-G02

**Motor**

Size, hp (kW):		
	<b>PSC</b>	1/3 (0.25)
	<b>EC (variable speed)</b>	½ (0.37)
Motor Speed, RPM		
	<b>PSC</b>	1700/1550/1350
	<b>EC (variable speed)</b>	1800/VAR
FLA:		1.9 (PSC), 5.6 (EC@120V), 3.2 (EC@230V)
RLA:		Refer to Amperage Chart
Bearing Type:		Permanently Lubricated Ball

**A00331-001 Standard**  
A00974-001 Two-speed  
A01426-002

**Blower Wheel**

Airflow, CFM (m <sup>3</sup> /s):	See table
Static Pressure**, in. wc (Pa)	See table
Type:	SISW Forward Curved
Nom. Diameter, inch (cm):	9.5 (24)
Width, inch (cm):	1.5 (3.8)

**A00137-003****Refrigerant Coil (AC or HP option)**

Nominal Capacity, tons (kW):	1 to 1.5 (3.5 to 5)
Rated Airflow, CFM (m <sup>3</sup> /s):	400 (0.189)
Min. Airflow, CFM/ton (m <sup>3</sup> /s•kW):	200 (0.027)
Refrigerant Type:	R407C, R410A
Face Area, ft <sup>2</sup> (m <sup>2</sup> ):	1.167 (0.108)
Number of Rows:	6
Number of Circuits:	3
Fin Density, fins/in. (fins/cm):	15 (6)
Fin Type and pattern, in. (mm):	Corrugated, 1 x 0.625 (25.40 x 15.88)
Tube Diameter, in (mm):	3/8 (9.53)
Tube Type:	Rifled
Expansion Device:	TXV with Bleed Port and Check Valve
Liquid Line Connection OD, in. (mm):	3/8 (9.53)
Suction Connection OD, in. (mm) :	5/8 (15.88)

**A00326-001**

A00366-002 (R410A)

**Chilled Water Coil (CW option)**

Fluid Type	Water or Glycol-Water Solution
Face Area, ft <sup>2</sup> (m <sup>2</sup> ):	1.167 (0.108)
Number of Rows:	6
Number of Circuits:	6
Fin Density, fins/in. (fins/cm):	15 (6)
Fin Type and pattern, in. (mm):	Corrugated, 1 x 0.625 (25.40 x 15.88)
Tube Diameter, in (mm):	3/8 (9.53)
Connection OD SWT, in (mm):	5/8 (15.87)

**A00397-001****Hot Water Coil (HW option)**

Fluid Type	Water or Glycol-Water Solution
Face Area, ft <sup>2</sup> (m <sup>2</sup> ):	1.0 (0.093)
Number of Rows	4
Number of Circuits	6
Fin Density, fins/in. (fins/cm):	10 (4)
Fin Type and pattern, in. (mm):	Raised Lance, 1 x 0.866 (25.40 x 22.00)
Tube Diameter, in (mm):	3/8 (9.53)
Connection OD SWT, in (mm):	5/8 (15.87)

**HW-1218**

\*\* Static pressure across unit without hot water coil, using 6 inch ID plenum. Motor speed factory default is medium. Static pressure will be greater when using 7 inch ID plenum.