Agilent IDP-7
Dry Scroll Vacuum Pump

Data Sheet

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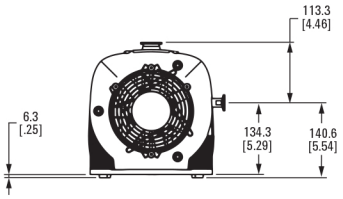
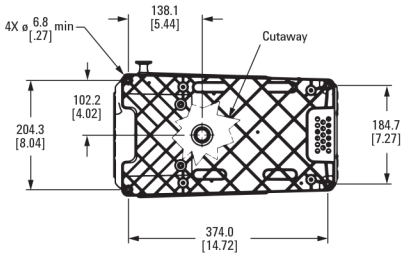
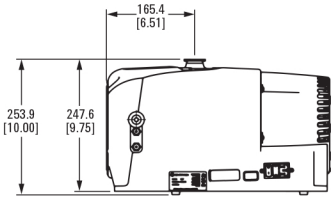
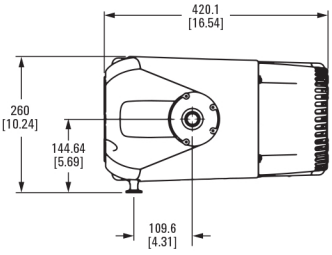
The Agilent IDP-7 dry scroll pump is a compact, high performance, oil-free vacuum pump, delivering large pumping speed capacity (9.1 m^3/h at 60 Hz) and simple maintenance.

The hermetic design, with the motor and all bearings completely isolated from the vacuum path, provides clean, dry vacuum. An optional integral inlet protection valve, built into the pump module, is available and adds no additional height to the pump.









Dimensions: millimeters [inches]

Technical specifications

IDP-7 dry scroll single sided hermetic vacuum pump	
Peak pumping speed	60 Hz: 152 L/min (9.1 m^3/h); 50 Hz: 120 L/min (7.2 m^3/h)
Media	No corrosive, explosive or particulate forming gases
Ultimate pressure	60 Hz: 2.6 x 10^{-2} mbar (2.0 x 10^{-2} Torr) 50 Hz: 4.0 x 10^{-2} mbar (3.0 x 10^{-2} Torr)
Max. inlet pressure	1.0 atmosphere (0 psig)
Max. recommended continuous inlet pressure	200 mbar (150 Torr)
Max. outlet pressure at nom voltage	1.34 atmosphere (5 psig)
Inlet connection	NW25
Exhaust connection	NW16
Gas ballast	Female, 0.25 inch, national pipe thread, (20 µm sintered plug provided) SAE-2 5/16-24
Water vapor handling per Pneurop 6602	120 grams/hr maximum
Ambient operating temperature	5 to 40 °C (41 to 104 °F)
Storage temperature	–20 to 60 °C (–4 to 140 °F)
Motor rating	0.38 HP (300 W)
Operating voltages	100-120; 200-240 VAC, 50/60 Hz, single phase, 3 to 6A typical
Motor thermal protection	Automatic thermal protection
Operating speed	60 Hz: 1750 rpm; 50 Hz: 1450 rpm
Cooling system	Air-cooled
Weight	Pump only: 24.5 kg (54 lbs), shipping weight: 28.1 kg (62 lbs)
Dimensions (H x W x L mm)	254 x 260 x 420
Leak rate (with exhaust sealed)	<1 x 10^{-6} sccs (1 x 10^{-6} mbar.l/s)
Noise level	52 +/- 2 dB (A)
Vibration level at inlet	7 mms^{-1} rms
Hour meter	Integral hour meter provided
Emissions and immunity	EN 61236-1:2013 as a Class A device
Safety	EN/IEC 61010 3rd Edition certified

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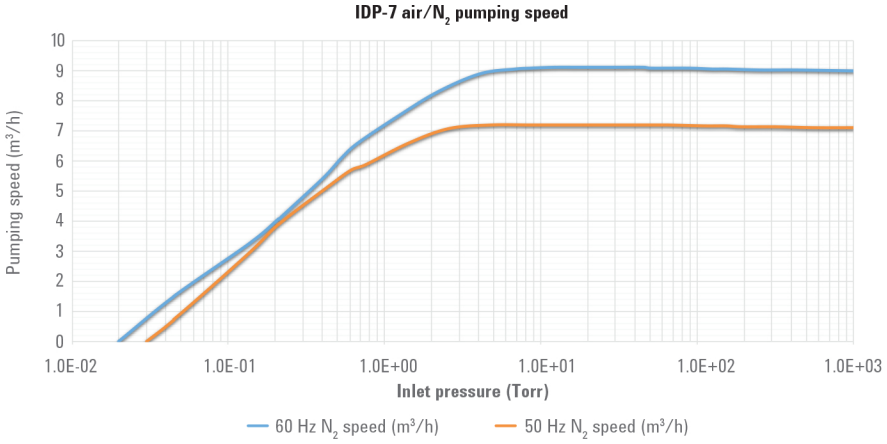
Ordering information

IDP-7 dry scroll pumps and accessories

Description	Part number
IDP-7 dry scroll vacuum pump	X3807-64000
IDP-7 dry scroll vacuum pump with inlet isolation valve	X3807-64010
Service parts	
IDP-7 and IDP-10 tip seal replacement kit	X3807-67000
Accessory parts	
Exhaust silencer kit	X3807-68003
Purge kit	X3807-68004
Gas ballast kit	X3807-68008
Inlet trap	SCRINTRPNW25
Vibration isolation kit	SH110VIBISOKIT

Power cords for IDP-3 AC motor, IDP-7, IDP-10, and IDP-15 vacuum pumps

Description	Part number
Europe, 10 A/220-230 V, 2.5 m	656494220
Denmark, 10 A/220-230 V, 2.5 m	656494225
Switzerland, 10 A/230 V, 2.5 m	656494235
UK/Ireland, 13 A/230 V, 2.5 m	656494250
India, 10 A/220-250 V, 2.5 m	656494245
Isreal, 10 A/220-230 V, 2.5 m	656494230
Japan, 12 A/100 V, 2.3 m	656494240
North America, 15 A/125 V, 2.0 m	656458203
North America, 10 A/230 V, 2.5 m	656494255



North and South America
Agilent Technologies
121 Hartwell Avenue, Lexington MA 02421, USA
Tel: +1 781 861 7200
Fax: +1 781 860 5437
Toll free: +1 800 882 7426
vpl-customerservice@agilent.com

Europe and other countries
Agilent Technologies Italia SpA
via F.lli Varian 54, 10040 Leini, (Torino), Italy
Tel: +39 011 9979 111
Fax: +39 011 9979 350
Toll free: 00 800 234 234 00
vpt-customerservice@agilent.com

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