Welch VCpro 600 Series Vacuum Controller

Model VCpro 601

The Welch Model VCpro 601 vacuum controller measures and displays vacuum pressure both graphically and digitally. The vacuum pressure can be controlled from 1100-1 mbar (825 to 0.75 Torr). Controlling the pressure can be done in real-time. In addition, a timed ramp function allowing raising & lowering pressure is built in for applications such as distillation and vacuum drying. Full flexibility and repeatability is achieved easily via a programmable mode with pressure over time defined by the user.

The durable, chemically resistant sensor built into the VCpro 601 vacuum controller is a ceramic thick film hybrid. The sensor reading is gas independent and gives an absolute pressure. Direct communication can be maintained between PC and controller to for logging data via RS232 or LAN.

Model VCpro 601 controls vacuum pressure by opening and closing of a solenoid valve that is plumbed in-line between the vacuum pump and the system being evacuated. The solenoid valve is attached to the controller. This model will control vacuum pressure in your system using different types of vacuum sources such as diaphragm pumps as typically used in small rotary evaporator applications. Our application experts can assist you choosing the right solution.

FEATURES & BENEFITS

- ✔ Precise vacuum control with timed ramp capability
- ✔ Fully programmable modes to allow run repeatability
- ✔ Intuitive ICON-navigation of control screens
- ✔ Connectivity through LAN and RS232
- ✔ Built-in function for self-cleaning of diaphragm pump
- ✔ Security levels for administrators and users
- ✔ Log files on all pump activities for easy trace back
- ✔ High-Res display with dark and light screen modes
- ✔ Digital and analog vacuum pressure display

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SPECIFICATIONS OF MODEL VCPRO 601

DESCRIPTION	VCpro 601
Vacuum Pressure Control Range, mbar(Torr)	1-1100(825-0.75)
Pressure Reading Accuracy	<+ 0.3% Full Scale
Control Accuracy, mbar or Torr	+1
Vacuum Control Approach	Open/Close Solenoid
Manual real-time control	Yes
Automatic destillation control	Yes
Programmable mode	Yes
Languages to choose from	EN, DE, ES, FR, RU, ZH
Max. Power Consumption	40 Watt
Operating Temperature Range	15 to 30 Deg C
Rack Mountable	Threaded: 2 x M4 – 116 mm
Agency	CE
Communication	RS 232/RJ 45 LAN
Connection to Pump	DN8 (1/4 in ID Tubing)
Connection to Vacuum Apparatus	DN8 (1/4 in ID Tubing)
Inert Gas Port to Release Valve	DN4 (1/8 in ID Tubing)
Protection Degree	IP20
Dimensions: W x D x H mm (in)	195 x 178 x 105 (7.7 x 7.0 x 4.1)
Weight kg (lbs)	1.5 kg (3.3)
Shipping Box Dimensions, L x W x H cm (in)	36x31x26 cm
Shipping Weight, kg (lbs)	4 KG

ORDERING INFORMATION

DESCRIPTION	ORDER NO.
	VCpro 601
115-230V 50/60Hz 1Ph with N. American, Schuko and UK Plugs with **Internal** Sensor	600100

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.