



Lear Siegler Australasia
 Leaders in environmental technology and process control

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HIVOL VC Series Specification Sheet

PK2100 Control

Programmable Controller with Data Logging and Interface for Remote Control, Meteorological Instruments and Real Time Dust Monitors.

The PK2100 is a general-purpose single board computer housed in an industrial enclosure with liquid crystal display and 12 key keypad. The PK2100 is configured with an assortment of inputs and outputs both analog and digital for monitoring and control of the ASCS.

The ASCS LCD and keypad provides an easy to use method to view and change system parameters, change operating modes and calibrating the unit. RS232 communications channel is used for data logging, remote monitoring and optional seamless connection to the Grimm portable dust monitor.

System real-time inputs connect directly to the ASCS via screw terminals. Inputs such as wind speed, wind direction, mass flow, temperature and air pressure can be monitored.

Four types of control are selectable via the keypad. Manual control provides a facility to operate the fan constantly. Time control allows the operator to specify specific times and duration of operation and vector control that monitors wind speed and wind direction to operate the fan. Standby mode allows the change of parameters with the fan off.

Many system variables may be logged using the data logging facility of the ASCS. All values with system date and time are stored for later retrieval via the RS232 port.

Flow-Set HIVOL VC Series Specifications

Air Intake	Uniform, 58,000mm ² nominal air intake
Power Input:	240V, 50Hz, Single Phase
Nominal Current:	4 Amps (at 70n.m.c Air Flow and Clean Filter)
Start Current:	Switching Transient up to 5.0amp. Ramp up current 4 amp
Vacuum Pump/Motor:	Siemens Elmo-G, Three Phase, 60Hz, Rated at 1.3kW
Motor Drive:	Variable Frequency, Soft Start
Flow Control:	Mass Flow Sensor and PID Controller (Unaffected by variation in the ambient air temperature and pressure)
Flow Control Precision:	Better than 1 SCMH from clean filter to 75% blocked filter, at 70 SCMH
Noise Profile:	(when running at 70 SCMH with clean filter and silencer) At 1 meter = 50dba At 2 meters = 44dba At 4 meters = 38dba At 6 meters = 35dba At 8 meters = 32dba

Programmable Controller with Data Logging and Interface for Remote Control, Meteorological Instruments and Real Time Dust Monitors

Filter Support:	230 x 280mm (removable) (2 off, one with transport cover supplied as standard)
Filter Size:	20.3 x 25.4cm (8 x 10 inch) (Nominal)
Cabinet Dimensions:	400 x 340 x 1050mm High
TSP Head Dimensions:	450 x 450mm square
PM10 Head Dimensions:	710mm Diameter + 500mm Height Increase to overall height
Overall Height:	1140mm Nominal
Weight:	47 kg
Temp Range:	-10°C to +50°C
Flow Setting Range:	20-100 SCMH
Flow Indication Range:	20-100SCMH
Complies with:	AS 2724-3-1984 Section 4