

Qnergy

CAP V Series

Compressed
Air Pneumatics



Pneumatic devices powered by pressurized natural gas are widely used in the natural gas industry for process control and chemical injection. These devices vent methane directly into the environment threatening the clean fuel advantages of natural gas. Qnergy's innovative CAP V Series can be powered by a Free Piston Stirling engine or may be grid-tied. The PowerGen efficiently combusts a fraction of the normally vented methane, while economically providing reliable electric power and clean, dry instrument air.

Benefits

Prevents the methane emissions of pneumatic devices.

Once a year maintenance.

Redundant compressors and pressure/temperature sensors.

Eliminates "wet-gas" from damaging your pneumatic controls.

Air flow measurement for mitigation reporting.

Eligible for emissions off-setting carbon credits.

Remote monitoring of operating conditions and alarms.

Grid tie and backup power options.



CAP V SERIES

CAP V3

3 scfm at 130 psi

CAP V5

5.5 scfm at 130 psi

CAP V10

10.5 scfm at 130 psi

**Patent-pending design with dry,
freeze-free air delivery**

System Operations Specifications

	CAP V3	CAP V5	CAP V10	
Dry Air Capacity at 130 psi (scfm)	3	5.5	9	10.5
Maximum Power Consumption (kW)	2.2	2.7	4	
Dew Point (°C)	-40	-40	-40	-30*

Operating voltage **1 ph 230 VAC 60Hz**

Communications **Modbus TCP/IP**

* Dew point performance depends on pressure, temperature, and flow. Higher operating pressure increases dryer efficiency

Instrument Air Specifications

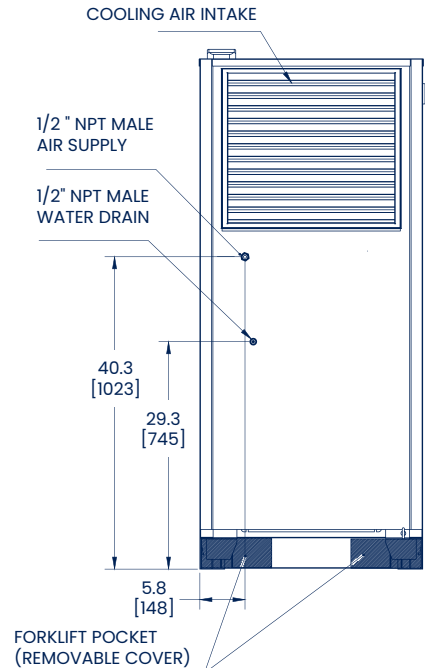
Compressor	Duplex Oil-less Scroll
Maximum Pressure	140 psig
Air Dryer	Heatless Regenerative Desiccant Dryer
Air Meter	Thermal Mass Flow Meter
Emergency Power	Manual Transfer Switch

Control

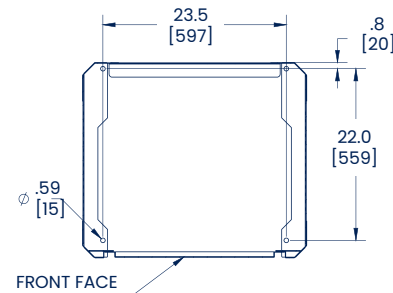
Control	7" HMI with sun shade
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General Specifications

Area Class Rating	General Purpose
Temp Rating	-40°F to 122°F (-40°C to 50°C)
Dimensions	29" W x 25.2" L x 65.8" H 0.74 W x 0.64 L x 1.67 H m
Weight	515 lbs (234 kg)
Heating	Electric Heater
Ventilation	Forced Air, Filtered Intake
Warranty	1 year
Certification	SPE1000 (Canada only)



Mounting Footprint



Optional Features

Internal 1.2AH 24VDC UPS

Mounting Skid with PowerGen Integration

External Battery with DC Distribution

Backup Genset Plug (L14-30P)

External Air Receiver (min. 40+ gal required*)

*Customer or Qnergy Supplied