



✓ **SMOKE**
VENTILATION

✓ **ENVIRO**
ASSIST OPTION

✓ **UP TO 126**
ZONES

About This Product

In the event of fire, the Ventec 1000-G Smoke Ventilation System can automatically activate dampers and smoke vents to clear smoke from the floor of activation – as well as activating extract fans in mechanical systems. This improves firefighter access as well as aiding occupant escape.

The optional Enviro Assist mode can reduce individual zone temperatures by introducing fresher, cooler air (weather permitting) from outside via rooftop or facade mounted vents, fans, dampers and windows.

A Ventec 1000-G Smoke Ventilation System can connect up to 42 Zone Panels, controlling up to three zones each, allowing up to 126 zones of smoke control with optional environmental ventilation (Enviro Assist).

Product Highlights

- Software system – developed by, and exclusive to, Vent Engineering
- Minimised hardware and wiring reducing cost and installation time
- On-site training and ongoing support available
- HMI touchscreen with clear visual indication and status indication

CONTROL SYSTEM

Technical Data

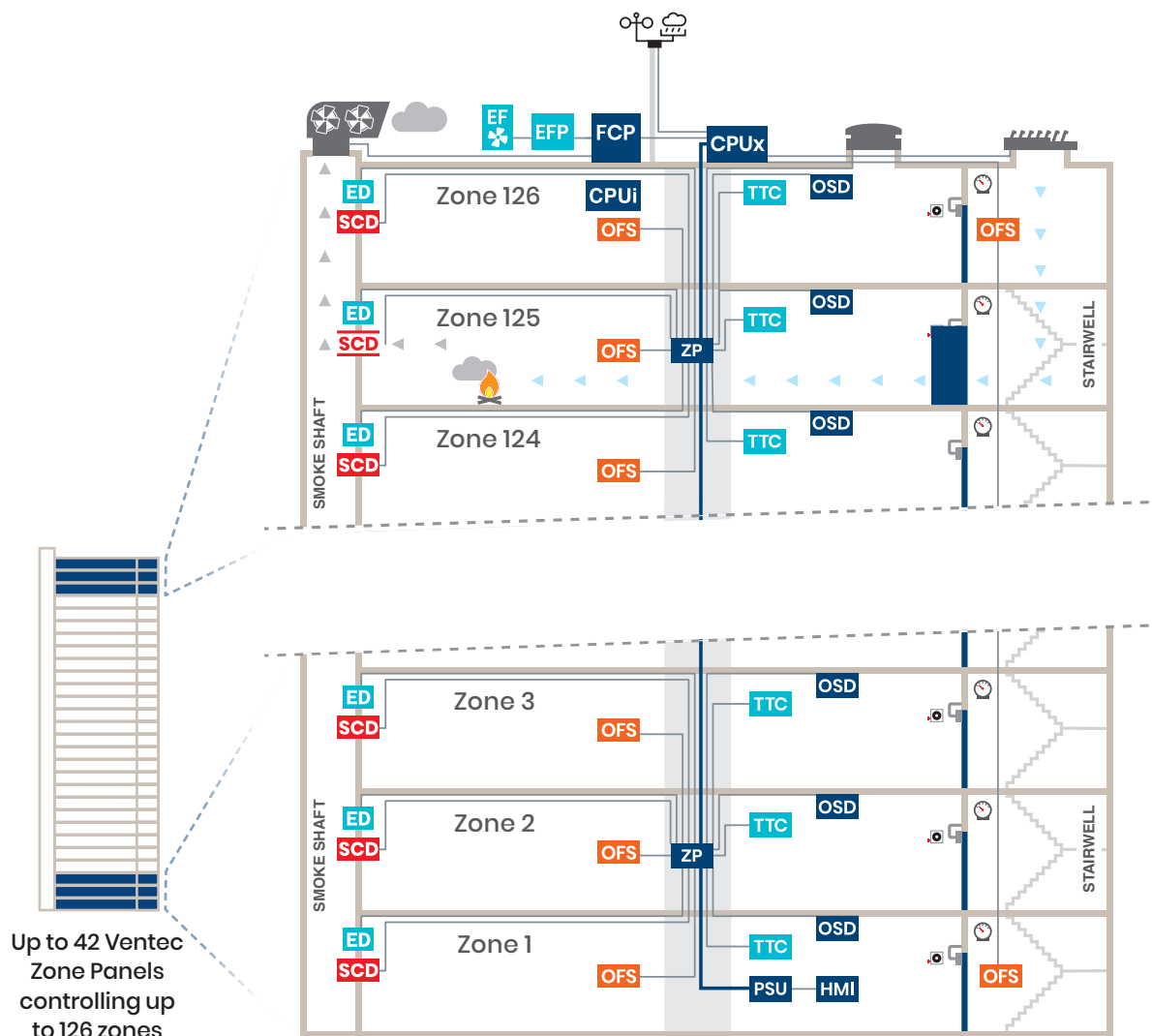
	1000-G Natural System	1000-G Mechanical Extract System
Enviro Assist (optional) Zones	Up to 126 zones	Up to 126 zones
Smoke Ventilation Zones	Up to 126 zones	Up to 126 zones
Cat5 Networking	✓	✓

1000-G SYSTEM INPUT		
Power	Dedicated maintained supply – 230V 3-phase unswitched fused spur to Main CPU (by others)	Dedicated maintained supply – 400V 3-phase unswitched fused spur to Fan Control Panel (by others)
HMI Touchscreen	✓	✓
Fire Alarm Interface	✓	✓
Smoke Detector	✓	✓
Sprinkler System Interface	✓	✓
Orange Firemans Switch	✓	✓
Pressure Sensor	x	✓
Enviro Assist	✓	✓
Tamperproof Thermostatic Controller	✓	✓
Wind / Rain Sensor	✓	✓
Environmental Switch	✓	✓
Carbon Dioxide (CO ₂) Sensor	✓	✓

1000-G SYSTEM CONTROL		
Smoke Shaft Extract Fan	x	✓
Fan Control Panel	x	✓
Smoke Control Damper	✓	✓
Head of Stairs AOV	✓	✓
Other AOV	✓	✓
Environmental Fan	✓	✓
Environmental Damper	✓	✓
Magnetic Door Retainer (Maglock)	✓	✓
Fault VFC (Volt Free Contact)	✓	✓
Lift To Ground Option	✓	✓
Smoke Curtain Control	✓	✓

Vent Engineering advises that the design, supply, and installation of all electrical wiring be carried out in accordance with current standards.

Installation Example (indicative only)



*Only one CPU is required for a 1000-G installation

1000-G SYSTEM COMPONENTS KEY:

CPU_x	Main Control Panel External*
CPU_i	Main Control Panel Internal* (top floor)
ZP	Zone Panel
FCP	Fan Control Panel
HMI	HMI Touchscreen
PSU	HMI Power Supply Unit
OSD	Optical Smoke Detector
SCD	Smoke Control Damper
OFS	Orange Firemans Switch

ENVIRO ASSIST OPTION COMPONENTS KEY:

EFP	Environmental Fan Panel
EF	Environmental Fan
ED	Environmental Damper
TTC	Tamperproof Thermostatic Controller

Typical System Ancillary Components

	Ventec MDR	Magnetic Door Retainer (Maglock)
	Ventec DC	Door Closer
	Ventec PS	Pressure Sensor
	Ventec WRS	Wind/Rain Sensor

Compatible AOV Products

Ventec LAM	Roof or facade mounted louvred vent 1.26m ² GFA	RVME-LOM-SOL-0014
Ventec LAM	Roof or facade mounted louvred vent 1.8m ² GFA	Call for details
Ventec Ostro	1.06m ² GFA Roof hatch – 1100mm(W) x 1100mm(L)	RVME-140-F105-0001
Ventec Access	As above with side mounted actuator	RVME-140-F105-0011
Ventec Ostro	1.51m ² GFA Roof hatch – 1100mm(W)x1500mm(L)	RVME-SIN-LEA-0003
Ventec SCD60	Smoke control damper – 775mm(W) x 1025mm(L)	DAGI-SDM-SR60-0151
Ventec SCD60	Smoke control damper – 800mm(W) x 1100mm(L)	DAGI-SDM-SR60-0151
Ventec Elite	90° outward opening window (white)	WVME-OSO-0.68-0003
Ventec Elite	90° outward opening window (grey)	WVME-OSO-0.66-0004
Ventec Centro	1140 x 1180mm Natural	RVFA-SMO-024V-0001
Ventec Centro	1140 x 1180mm White	RVFA-SMO-024V-0002
Ventec Velo	1.04m ² GFA – 1150(w) x 1250mm(h)	Call for details
Ventec Velo	1.5m ² GFA – 950(w) x 2100mm(h)	RVFI-LOU-FLW-0072

Product Codes

Main Control Panel

Ventec CPUx	10 amps – External mounting	COSM-VMP-10AM-0002
Ventec CPUi	4 amps – Internal mounting	COSM-VMP-04AM-0004

HMI Touchscreen

Ventec HMI S	Surface mounted interface	CXSM-HMI-TOUC-0005
Ventec HMI F	Flush mounted interface	CXSM-HMI-TOUC-0004
Ventec HMIPSU	Power Supply Unit	CXSM-HMI-PSU_-0001

Zone Panel

Ventec Z4STD	4 amps standard	COSM-VZP-ST04-0001
Ventec Z10STD	10 amps standard	COSM-VZP-ST10-0001
Ventec Z10ADV	10 amps advanced	COSM-VZP-AD10-0006
Ventec Z10AP	10 amps advanced + pressure	COSM-VZP-AD10-0007
Ventec Z10AM	10 amps advanced + maglock	COSM-VZP-AD10-0008
Ventec Z10APM	10 amps advanced + pressure + mag lock	COSM-VZP-AD10-0009

Fan Control Panel

Ventec FCP 7.5	7.5 kW (1.5kW, 3kW, 4kW, 5.5kW on request)	COSM-VFP-07.5-0001
Ventec FCP 11	11 kW (15kW, 18.5kW, 22kW, 30kW on request)	COSM-VFP-11.0-0001

Axial Fan (extract)

Ventec AXF560	560mm Extract Fan (by Flakt Woods)	FAFL-FAN-AERO-0010
Ventec AXF560	560mm Fan Silencer (by Flakt Woods)	FXFL-ACC-SILE-0003
Ventec AXF630	630mm Extract Fan (by Flakt Woods)	FAFL-SMO-AXIA-0001
Ventec AXF630	630mm Fan Silencer (by Flakt Woods)	FXNF-ACC-SILE-0002

CONTROL SYSTEM

Product Codes (continued)

Ancillaries

Ventec OSD	Optical Smoke Detector	CXSM-SMH-OPTI-0007
Ventec OFS	Orange Firemans Switch: Close • Auto • Open Off • Auto • Run/Boost Off • Auto • Run Key Switch: Auto • Open	CXSM-SWI-_FOS-0001 CXSM-SWI-_FOS-0002 CXSM-SWI-_FOS-0003 CXSM-SWI-_FOS-0004
Ventec PS	Pressure Sensor	CXSM-PDT-0-50-0003
Ventec PT	Pressure Transmitter (sniffer plate)	CBNA-BLA-PLAT-MI01
Ventec MDR	Magnetic Door Retainer	CXSM-MFH-024V-0001
Ventec DC	Door Closer – Silver (standard)	ACHO-A55-DOCL-SS01
Ventec DS 400	Retractive Day Switch	CONA-DAY-SWIT-0006
Ventec EBP	2-Port Ethernet Booster Panel (80m extension)	CXSM-VBP-2POR-0001
Ventec ESP3	3-Port Ethernet Splitter Panel (80m extension)	CXSM-VBP-3POR-0001
Ventec ESP5	5-Port Ethernet Splitter Panel (80m extension)	CXSM-VBP-5POR-0001
Ventec ESP8	8-Port Ethernet Splitter Panel (80m extension)	CXSM-VBP-8POR-0001

Enviro Assist Components and Ancillaries

Ventec TTC	Tamperproof Thermostatic Controller	CXSM-PAN-TTWM-0001
Ventec WRS	Wind & Rain Sensor	CXNA-RAI-WIND-0001
Ventec EFPS	Environmental Fan Panel 5 amps (single)	COSM-VFP-EP05-0001
Ventec EFPT	Environmental Fan Panel 10 amps (twin)	COSM-VFP-EP10-0001
Ventec EF315	Environmental Fan (315mm dia.)	FALI-FAN-315D-0002
Ventec ED	Environmental Damper	Call for details



Regular testing
and record-keeping
by authorised,
responsible persons.



...by “Accredited” and
“certified smoke vent
engineers only”

*REFERENCE:
DAME JUDITH HACKITT REPORT



Minimum Test And Service Intervals As Recommended By Manufacturer

WEEKLY

Continuous 20
minutes running
of smoke system,
including fans.
(80mins per month)

3-MONTHLY

Fan bearing
assessment
by a trained
and certified
engineer.

6-MONTHLY

Maintenance
visit by a
manufacturer
approved
engineer.

Call Vent Engineering to arrange a visit

Related Products and Services

The following should also be considered
when planning your system.



WEATHER
STATION OPTION



INSTALLATION
& MAINTENANCE



PROJECT
COMMISSIONING