

# TARGETED COOLING & AIRFLOW MANAGEMENT

## VENTILATION UNITS



DP-VEC/VEN-09



DP-VEC/VEN-06



DP-VEC/VEN-03

Once installed within Conteg cabinets, IT components require sufficient airflow to help them remain cool and functioning properly. When sufficiently cool environments cannot be sustained, they require assistance: installing Conteg ventilation units. We offer different styles, sizes, types and accessories – we've even developed DP-VEC units with highly efficient EC fans, to reduce operation costs.

### EC TECHNOLOGY:

Efficient, ecological and economical! New high-quality fans (produced in Europe by the reputable Ebm-papst) feature electronically commuted (or EC) synchronic motors, which offer very low power consumption in comparison to standard AC motors. In fact, power consumption of our new DP-VEC ventilation unit is seven times lower than the standard DP-VEN, which has equal airflow. Additionally, our DP-VEC provides up to 60% more airflow (with an equal number of fans and required air pressure) than DP-VEN.

Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption <sup>1</sup> (kWh/year)	Possible heat removal <sup>2</sup> (kW)	Package
<b>STANDARD AC FANS</b> Specific Fan Power (SFP) = 611 W/(m³/s)						
DP-VEN-02	224	0.180	38	333	0.38	1 pc
DP-VEN-03	336	0.270	57	499	0.57	1 pc
DP-VEN-04	448	0.360	76	666	0.76	1 pc
DP-VEN-06	672	0.540	114	999	1.14	1 pc
DP-VEN-09	1008	0.810	171	1498	1.71	1 pc
<b>HIGH-END EC FANS</b> Specific Fan Power (SFP) = 88 W/(m³/s)						
DP-VEC-03	540	0.057	13.2	116	0.92	1 pc
DP-VEC-06	1080	0.114	26.4	231	1.84	1 pc
DP-VEC-09	1620	0.171	39.6	347	2.75	1 pc

<sup>1</sup> For non-stop operation

<sup>2</sup> If temperature difference between intake and exhaust air from the rack is  $\Delta t=5$  K

Ventilation unit type	Connecting kit for installation in top or bottom frame of free-standing racks			
	600, 800 or 1200 mm depth		1000 mm depth	
	Without filter	With filter	Without filter	With filter
DP-VEx-02, 03	DP-VER-03	DP-VER-03F	DP-VER-031	DP-VER-031F
DP-VEx-04, 06	DP-VER-06	DP-VER-06F	DP-VER-061	DP-VER-061F
DP-VEx-09	-	-	DP-VER-091	DP-VER-091F

Replace x with N or C

### DESCRIPTION:

- Used to force airflow through a rack to assist with cooling
- Two to nine fans
- Installation variables:
  - a) In 19" extrusions – horizontally
  - b) In top or bottom frame of free-standing rack
- Connecting kit for ventilation unit needed when installing in top or bottom frame

- Temperature range: -10 °C to +55 °C
- Thermostat ranges from 0–60 °C included (no thermostat optional)
- Voltage range 230 V/50–60 Hz (48V DC optional)
- Protection category: to EN 60 529, IP 20
- Color: powder-coated RAL 9005
- Standard solution with AC fans DP-VEN-XX

- High-end version with most efficient EC fans DP-VEC-XX
- Package includes:
  - Ventilation unit with 19" brackets
  - Thermostat
  - Power supply cable
  - DP-MO-01 installation set

## FANS



DP-VE-01

- Forces air through racks
- Two versions
  - With thermostat and metal chassis – DP-VE-01 (for -VC openings)
  - Without thermostat and metal chassis – DP-VE-01 (for -VH or -TH openings)

Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption <sup>1</sup> (kWh/year)	Possible heat removal <sup>2</sup> (kW)	Package
<b>STANDARD AC FANS</b>						
Specific Fan Power (SFP) = 611 W/(m³/s)						
DP-VE-01	112	0.09	19	166	0.19	1 pc
DP-VE-01	112	0.09	19	166	0.19	1 pc

<sup>1</sup> For non-stop operation

<sup>2</sup> If temperature difference between intake and exhaust air from rack is  $\Delta t=5$  K

- Can be installed either on side or top of wall-mounting rack
  - Special perforation needed – ordering code to be extended:
    - VH for 2× side perforation or TH for 2× top cover perforation; both for DP-VE-01 only
    - VC for 2× center-oriented holes for DP-VE-01
  - In top or bottom frame of distribution rack, requires perforated gland plate DP-VE-ROV2 or DP-VE-ROV4
- Package includes:
  - DP-VE-01: Fan with grid, power cable, 8× screws, 8× nuts
  - DP-VE-01: Fan in-house, power cable, thermostat, 4× screws, 4× nuts

## LITE VENTILATION UNIT



DP-VEL-04

- Forces air through racks to assist with cooling
- Two or four AC fans
- Can be installed in either top or bottom frame of free-standing rack
- Connecting kit for ventilation unit (included)
- Temperature range: -10 °C to 55 °C
- Thermostat range (if included): 0 °C to 60 °C
- Voltage range 230 V / 50–60 Hz
- Protection category: EN 60529, IP20
- Color: powder-coated RAL 9005
- Package includes:
  - Ventilation unit with mounting plate
  - Thermostat (if part of model)
  - Power supply cable
  - Installation set: 4x screws, 4x nuts

Code	Description	Package
DP-VEL-02	Ventilation unit, 2 fans, with thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-02B	Ventilation unit, 2 fans, without thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-02/100	Ventilation unit, 2 fans, with thermostat, for top or bottom installation into racks with depths of 1000 mm	1 pc
DP-VEL-02B/100	Ventilation unit, 2 fans, without thermostat, for top or bottom installation into racks with depths of 1000 mm	1 pc
DP-VEL-04	Ventilation unit, 4 fans, with thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-04B	Ventilation unit, 4 fans, without thermostat, for top or bottom installation into racks with depths of 600, 800 and 1200 mm	1 pc
DP-VEL-04/100	Ventilation unit, 4 fans, with thermostat, for top or bottom installation into racks with depths of 1000 mm	1 pc
DP-VEL-04B/100	Ventilation unit, 4 fans, without thermostat, for top or bottom installation into racks with depths of 1000 mm	1 pc

Code	Airflow (m³/h)	Rated current max. (A)	Power consumption (W)	Annual power consumption <sup>1</sup> (kWh/year)	Possible heat removal <sup>2</sup> (kW)
DP-VEL-02	224	0.180	38	333	0.38
DP-VEL-04	448	0.360	76	666	0.76

<sup>1</sup> For non-stop operation

<sup>2</sup> If temperature difference between intake and exhaust air from rack is  $\Delta t=5$  K

www.conteg.com



**CONTEG, spol. s r.o.**

**Headquarters:**

Na Vítězské pláni 1719/4  
140 00 Prague 4  
Czech Republic  
Tel.: +420 261 219 182  
conteg@conteg.com  
www.conteg.com

**Production plant:**

K Silu 2179  
393 01 Pelhřimov  
Czech Republic  
Tel.: +420 565 300 300

**Local Branches/Offices:**

Austria/Germany/Switzerland:	+420 261 219 182
Benelux:	+31 76 5420 709
Southeastern Europe:	+49 172 8484 346
Finland:	+358 50 414 1257
France/Italy/Maghreb:	+33 1 60 04 55 90
Middle East:	+971 55 508 3241
Russia/CIS:	+7 495 967 3840
Saudi Arabia:	+966 54 000 2341

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