

Vacuum Equipment



Slim Type Vacuum Ejector Series EP



- Compact structure—slim type(10mm), light weight.
- High vacuum value(600mHg) at low pressure(3kg/cm2)
- Low noise
- Various functions
 - LED 3Digit vacuum switch
 - Solenoid valve attached(vacuum, break)

How to order

E P 05 M 08 — V1 5 — N1 C

1 2 3 4 5 6 7 8

1 Nozzle diameter

05 : ϕ 0.5mm
 07 : ϕ 0.7mm
 10 : ϕ 1.0mm

2 Body and exhaustion type

Unit Type	S	Slencer exhaustion
Manifold Type	M	Slencer Collecting exhaustion at both sides
Type	MA	Slencer individual exhaustion

3 Diameter of connecting pipe

Classification	Compressed air		
	Supplying Port	Vacuum Generating Port	
Unit Type	S	M5 (Individual)	M5 (Individual)
Manifold Type	M	M10(Collective)	M5 (Individual)
Type	MA	M5 (Individual)	M5 (Individual)

3 Manifold-number of station

no symbol	for unit	#Manifold M Type only : maximum number of stations (depending on the nozzle diameter)
01	1 station	· 0.5 : 8station
02	2 station	· 0.7 : 6station
⋮	⋮	· 1.0 : 4station
08	8 station	

4 Specification of electronic valve

Classification	for supplying air		for breaking vacuum	
	V1	V2	V3	V4
V1	N.C	N.C	N.C	N.C
V2	N.O	N.C	N.C	N.C
V3	N.O	—	—	—
V4	N.C	—	—	—

5 Voltage of power supply

1 : AC110V
 5 : DC24V (standard)

6 : DC12V

※For non standard, inquire separately.

6 Type of vacuum switch

* Voltage of power supply: DC24V

Blank: no switch

N1 : NPN 1 point & analog output

N2 : NPN 2 points output

※For PNP Type, inquire separately.

7 Method to pull out switch lead wire

* Connector type

Blank : length of lead wire 0.6M

C : length of lead wire 3M

8 Check valve

Blank : without check valve

H : with check valve

Ejector

Applied fluid	air
Maximum pressure	0.6MPa(87psi)
Maximum vacuum pressure	-85KPa (-640mg) · (-12.3psi)
Range of supplied pressure	0.3 ~ 0.6MPa (43.5~87psi)
Range of temperature : °C(°F)	0 ~ 60°C(0~140°F)
Vacuum filter	polyethylene crystalline (30 μ m)
Weight : g (l b)	manifold block left and right 144g(0.317 l b) unit type 88g(0.194 l b)

Valve

Operating method	N.C / N.O direct operation
Main valve	poppet
Effective cross section (CV value)	0.18mm ² (Cv 0.01)
Operating pressure	0.3~0.6MPa(43.5~87psi)
Method to pull out lead wire	plug connector
Power consumption	below 1.0 (attaching lamp)
Regular voltage	DC12*, DC24V / AC110*, AC220V*

Type

nozzle diameter (mm)	type	maximum inhalation l /min (ANR)	air consumption l /min (ANR)	standard air pressure
0.5	EP 05	5	12	0.45MPa (64psi)
0.7	EP 07	11	22	
1.0	EP 10	22	46	

Vacuum switch

Power supply	voltage	DC24V \pm 10%
	current consumption per 1 unit	below 17mA (DC24V ON)
Sensor switch output	output point	2
	output method	NPN/PNP open collector
	range of set pressure	0~101kpa (0~760mmHg) · (0~14.7psi)
	control range	below 3% F.S. (fixed)
	indication of operation	LED(3digit red)
	precision	\pm 0.5%F.S (0~50°C)
	responding time	below 2ms
	internal pressure	0.2 MPa(29.0psi)

Color of lead wire

Red	DC(+)
Green	switch output 1
White	switch output 2
Black	DC(-)

DS3000

DS5000

DP300/
3000/5000

DS6000

DS3000
(Base Ported)

DX1,2

DX2R

DH

DW

DM

DT220/
UDT220/DC

TPC-1000
/1200

PC

PF

PR

PL

PP

PFH/
PFU

PLV

TXF

PVR/PNR

PER2000
/3000

TAD

EP

EM/EL

SPSA

SPS

SQ

SC

SP

SP4000
/SPM

SP2000

SN

SQ2

SH

DCH

SF

ST

W1

W2/W3

W4/W5

W6/W7
Mini
Auto Switch