

# **EJ-XPRO EJ-XONE**

ENERGY SAVING VACUUM PUMPS WITH EMBEDDED ELECTRONICS



Solutions with an embedded Energy-saving feature and a simple, robust, and intuitive design for uncompromising operation

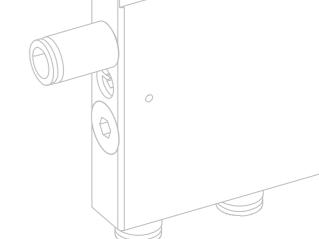








:	
EJ-XPRO	4
Main components	4
Main features	6
Embedded features	8
Industries	10
Technical characteristics and ordering codes	12
EJ-XONE	14
Main components	14
Main features	16
Embedded features	18
Industries	20
Technical characteristics and ordering codes	22



### **EJ-XPRO**

## TM A business of BARNES

### **Vacuum pumps configurable...**



### **Main components**

Lightweight and robust monolithic body in oxidated aluminum material.

2 Reconfigurable and independent valves subsystem with high flow and fast response. Electrovalves can easily be accessed and replaced by the user.

Integrated 2 stages large size ejector. The simple and modular design of the pump makes easy for the user to access the ejector for maintenance and cleaning operations. It is possible to choose the best ejector for a specific application by selecting one of the following ejector types: high flow (HF), high vacuum (HV) or low supply pressure (LP).

4 Electrical interface subsystem made of a LCD TFT screen with an intuitive graphics and a keyboard, embedded circuit board with advanced functions and a M12 8 pins male connector for power supply and I/O signals connection.

5 Integrated silenced exhaust.

6 Plastic components made of a high-quality Nylon material glass fiber reinforced.

# ...and modular

The **EJ-XPRO** pump series can be used in stand-alone applications or connected in series up to 4 units in total by simply acting on the special embedded grub screw. This also makes easy the replacement of a unit in case of need. For a system composed of multiple units in series, it's possible to supply pressurized air by a single input channel and eventually convey the exhausts by using a special exhaust adaptor.



- > Connection for manifold mount, maximum 4 units.
- > Flexible installation.
- > Possibility to mount and remove the single units.



www.gimatic.com 05

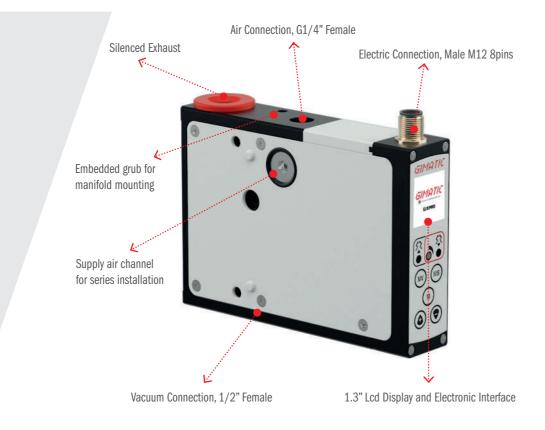
### **Main features**

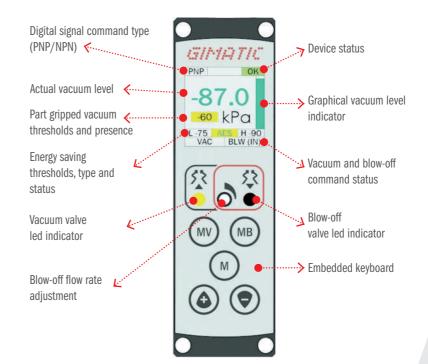


### Innovative vacuum pumps with fully integrated smart controls

### Intuitive and comprehensive interface

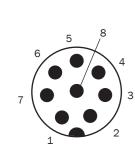
- > Quality material.
- > Easy to install.
- > Powerful and reliable.
- > Simplified maintenance.
- > Compact dimensions.
- > Configurations complete with solenoid valves for vacuum generation (NC/NO) and blowoff.
- > Maximum vacuum level up to -95 kPa.
- > Suction flow rate up to 150 NI/min.
- > Integrated blow-off with manual adjustment.





- > Simple and intuitive graphical interface for managing the pump functions.
- > Integrated vacuum switch with analogue and digital output.
- > Physical buttons for menu management.
- > Compact and stackable vacuum pumps.
- > Easy replacement of vacuum cartridge generator.

#### **Electrical installation**



Pin N°	Name	Description	Colour
1	GRIP-ON	Part gripped digital output	White
2	24V	+24 Vdc	Brown
3	SENS	Analogue output proportional to vacuum switch signal	Green
4	VAC	Vacuum valve control digital input	Yellow
5	ES-ON	Energy saving active status digital output	Grey
6	BLW	Blow-off valve control digital input	Pink
7	GND	GND	Blue
8	ERROR	Pump error digital output	Red

### PART PRESENT

Specific display area is colored in yellow when the object is handled.

#### **BLOW-OFF**

Two types of blow-off selectable from the menu:

- $\bullet$   $\mbox{INPUT}:$  The blow-off  $% \left( 1\right) =\left( 1\right) \left( 1\right) =\left( 1\right) \left( 1\right) \left( 1\right) =\left( 1\right) \left( 1$
- AUTO: At each automatic cycle, the blow-off flow will be performed for the duration set in the menu.

For both models, the blow-off air flow rate is mechanically adjustable.

### Large color display to read the pump status

#### **ENERGY SAVING**

Allows to save up to 90-95% of compressed air at each cycle.

#### **AUTOMATIC ENERGY SAVING**

Automatically identifies the optimal vacuum thresholds levels at each cycle regardless of the type of material.

### **AUTO EXCLUDE**

In case of significant leakage in the system, this function disables the ES to protect the valves and their lifetime.

www.gimatic.com 07

### **Embedded features**



### Maintenance and replacement of ejector

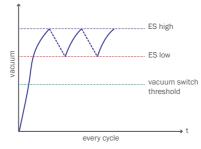
The mechanical design of **EJ-XPRO** pump series allows for an easy access to the vacuum ejector's installation area. By simply removing the frontal display subsystem, the user can directly extract the ejector for easy replacement or cleaning operations. It's also possible to change the ejector type choosing between 3 different models: HF (optimizing the vacuum level), HV (maximizing the vacuum grade) and LP (optimizing the consumption air flow by operating the pump with a low pressure supply level).



### **Energy saving (ES)**

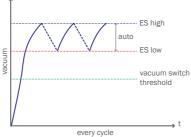
If the function is enabled with the corresponding menu item, and provided there are no leakages, the energy saving feature allows considerable savings of compressed air by switching off vacuum generation and retaining the vacuum in the circuit (this must not be considered as a safety system in the event of compressed air/electricity supply interruption). The vacuum is retained by means of a valve on the cartridge and the blow-off function must therefore be activated in order to release the handled object.

The ES low and ES high thresholds must be set through the menu.



### **Automatic energy saving (AES)**

If **ENERGY SAVING** is enabled in the menu, the function **AES** is activated by setting the ES low and ES high values to -98 kPa and -99 kPa respectively. It allows the automatic setting of energy saving trigger thresholds for each cycle, based on the maximum vacuum level attainable on the material being handled.

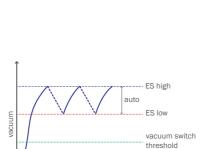


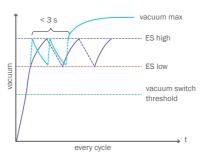
#### Auto exclude (AEX)

If the object being gripped is too porous, or if there are any leaks in the vacuum circuit to an extent that makes it impossible to use the ENERGY SAVING feature, the AUTO EXCLUDE function will be activated to create maximum vacuum.

In particular, if enabled with the corresponding menu item, the function intervenes by excluding the ES function in all those cases in which there is a high number of reactivations of the vacuum valve in a short time. This function also eliminates frequent activations, extending the life of the vacuum solenoid valve.

- ≥ 2 reactivations in 3 seconds: the pump is activated to provide continuous
- < 2 reactivations in 3 seconds: pump continues to run with ES.





### **PWM** modulation

The **EJ-XPRO** circuit board integrates several advanced features such as a **PWM** to power supply the electro-valves. This allows for several benefits like:

- a fast response time of the system, by providing full electrical power when valves are initially activated
- optimized power consumption and reduced heat generation
- extended lifetime of the components

#### **Automatic blow-off**

The EJ-XPRO pump series offers an integrated blow-off channel for an easy and quick release of the part handled once the vacuum is removed. The blow-off type can be configured manually by navigating the digital menu of product and selecting a blow-off from input digital signal or an automatic blow-off. With a blow-off from input signal, the blow-off is triggered by an external digital signal provided at a specific pin of the M12 connector. With an automatic blow-off selection, the EJ-XPRO pump activates the blow-off autonomously after interruption of the vacuum generation signal. In this case, it's also possible to define the duration of the blow-off by setting a dedicated parameter of the digital menu.

#### **Enhanced blow-off**

The front panel of the EJ-XPRO pump series hosts a slotted head screw by which the user can manually adjust the intensity (flow-rate) of the blow-off.

> Automatic blow-off



> Enhanced blow-off



www.gimatic.com www.gimatic.com



### **Industries**





### Automotive

- > Molding lines
- > Pre-welded body assembly
- > Vehicle assembly lines (e.g. windshield)











VG.U53





> Plastic injection molding - medium / large sized parts (e.g. automotive parts)



### **Sheet metal**

- > Loading / unloading and tending of presses
- > Punching
- > Bending machines





VG.CF









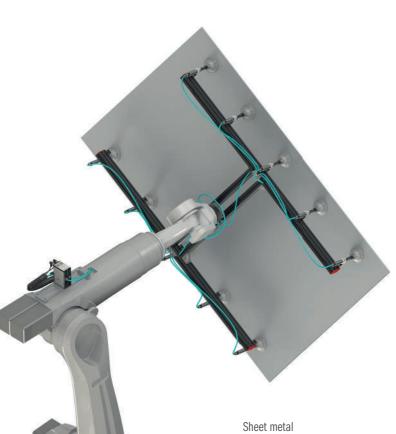
VG.GX

> Palletizing robots

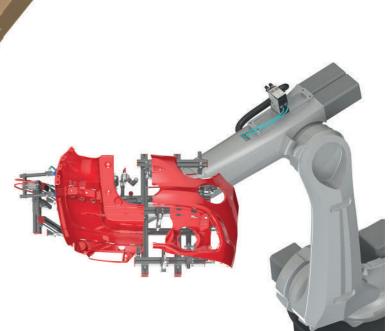
- > Medium-sized robots for top loading (including the simplest 2-3 axis manipulators)
  - > Handling of bags and opening bags
    - > Interlayer manipulation

**Packaging** 









Plastic

www.gimatic.com 11 www.gimatic.com





### Vacuum channel

**Ejector** 

Series

Model

Stages

Size

	3400100	EJ-XPRO-L-HF-2-NO	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector.  HF 2 stages ejector and not-return valve and NO vacuum channel. Configurable PNP/NPN, 24Vdc logic.
	3400101	EJ-XPRO-L-HV-2-NO	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector.  HV 2 stages ejector and not-return valve and NO vacuum channel. Configurable PNP/NPN, 24Vdc logic.
_	3400102	EJ-XPRO-L-LP-2-NO	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector.  LP 2 stages ejector and not-return valve and NO vacuum channel. Configurable PNP/NPN, 24Vdc logic.
_	3400103	EJ-XPRO-L-HF-2-NC	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector.  HF 2 stages ejector and not-return valve and NC vacuum channel. Configurable PNP/NPN, 24Vdc logic.
	3400104	EJ-XPRO-L-HV-2-NC	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector.  HV 2 stages ejector and not-return valve and NC vacuum channel. Configurable PNP/NPN, 24Vdc logic.
	3400105	EJ-XPRO-L-LP-2-NC	Electronically controllable vacuum pump with embedded electro-valves, display, keyboard, M12 8 pins connector. LP 2 stages ejector and not-return valve and NC vacuum channel. Configurable PNP/NPN, 24Vdc logic.

# General characteristics

Operating temperature range	0-60°C
Mass	800g
IP rating	IP54
Materials	Lega 6082-T6, PA66+FG 30%, AISI 303, TPU, PC
Operating voltage	24Vdc (±10%)
Electrical connection	M12 8-pin male
Manual controls	Yes, monostable buttons
Vacuum transducer response time	1ms
Vacuum level analogue output	0-5Vdc
Valve controls	digital PNP/NPN

### **Pneumat**

tic characteristics	

Maximum supply pressure	8bar
Minimum supply pressure	4bar
Maximum air consumption for vacuum generation	156NI/min
Maximum air consumption for blow-off	220NI/min
Maximum blow-off flow rate	50NI/min
Maximum suction flow rate	190NI/min
Maximum blow-off pressure (zero flow rate)	0.25bar
Valve opening time	≤ 12ms
Valve closing time	≤5ms
Supply	Dry air
Pneumatic supply connection	G1/4 female
Vacuum channel connection	G1/2 female
Maximum vacuum level	-95kPa

### **Suction flow rate**



Model	Feed pressure	Air consumption		Suction flow rate [NI/s] at different vacuum levels [-kPa]			Max vacuum						
	[MPa]	[NI/s]	0	10	20	30	40	50	60	70	80	90	[-kPa]
EJ-XPRO-L-HF-2-NO/NC	0.6	1.7	3.2	3.0	2.5	1.7	0.89	0.62	0.51	0.31	_	_	73
EJ-XPRO-L-HV-2-NO/NC	0.5	1.93	2.6	2.4	1.7	1.3	0.70	0.55	0.40	0.31	0.15	0.02	94
EJ-XPRO-L-LP-2-NO/NC	0.4	2.6	2.8	2.5	2.1	1.5	1.1	0.66	0.36	0.26	0.08	_	89

### **Evacuation time**



Model	Feed pressure	Air consumption		Evacuation time [s/I] to reach different vacuum levels [-kPa]				Max vacuum				
	[MPa]	[NI/s]	10	20	30	40	50	60	70	80	90	[-kPa]
EJ-XPRO-L-HF-2-NO/NC	0.6	1.7	0.03	0.07	0.12	0.19	0.3	0.4	0.7	_	_	73
EJ-XPRO-L-HV-2-NO/NC	0.5	1.93	0.02	0.06	0.10	0.2	0.3	0.4	0.7	1.1	2.4	94
EJ-XPRO-L-LP-2-NO/NC	0.4	2.6	0.04	0.07	0.14	0.19	0.3	0.5	0.8	1.4	_	94

12 www.gimatic.com www.gimatic.com 13

### **EJ-XONE**

### TM SIMP A business of BARNES

## **Vacuum pumps compact, configurable...**



### **Main components**

1 Lightweight and robust monolithic body in aluminum material.

Reconfigurable and independent valves subsystem with high flow and fast response. Electrovalves can easily be accessed and replaced by the user.

Integrated 2 stages medium size ejector. The simple and modular design of the pump makes it easy for the user to access the ejector for maintenance and cleaning operations. It is possible to choose the best ejector for a specific application by selecting one of the following ejector types: high flow (HF), high vacuum (HV) or low supply pressure (LP).

Electrical interface subsystem made of embedded circuit board with advanced functions, a M8 8 pins male connector for power supply and I/O signals connection and 7-segment display and RGB status LEDs with an intuitive told an graphics.

5 Option to channel the exhaust through a Ø6 tube.

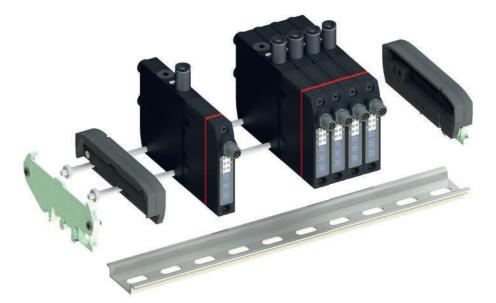
6 Plastic components made of a high-quality Nylon material glass fiber reinforced.

### ...and modular

The **EJ-XONE** pump boasts a modular design, enabling connection to a manifold for streamlined system integration. This offers exceptional flexibility during installation, allowing you to customize the configuration to fit your specific needs. The individual units can be easily mounted and removed, facilitating maintenance or future system expansion. It works well in stand-alone applications as well as connected in series.



- > Energy saving.
- > Compact design.
- > Modular for manifold mount.
- > Stand-alone or series.
- > Easy maintenance.



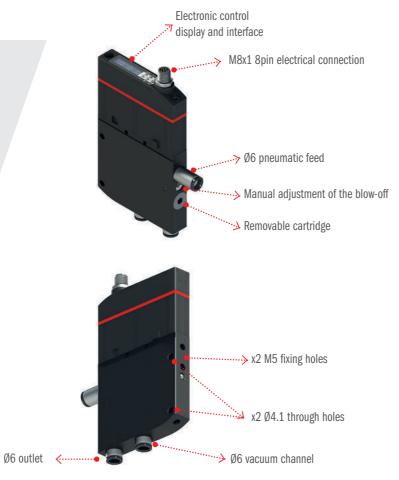
www.gimatic.com 15



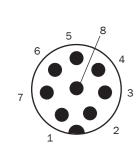


### Innovative vacuum pumps with fully integrated smart controls

- > Quality material.
- > Easy to install.
- > Powerful and reliable.
- > Simplified maintenance.
- > Compact dimensions.
- > Configurations complete with solenoid valves for vacuum generation (NC/NO) and blow-off.
- > Maximum vacuum level up to -95 kPa.
- > Suction flow rate up to 38 NI/min.
- > Integrated blow-off with manual adjustment.
- > High system reliability at low or fluctuating feed pressure

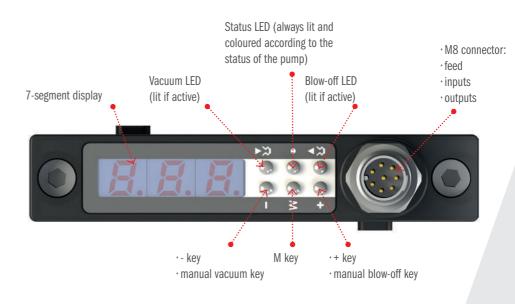


### **Electrical installation**



Pin N°	Name	Description	Colour
1	GRIP-ON	Part gripped digital output	White
2	24V	+24 Vdc	Brown
3	SENS	Analogue output proportional to vacuum switch signal	Green
4	VAC	Vacuum valve control digital input	Yellow
5	ES-ON	Energy saving active status digital output	Grey
6	BLW	Blow-off valve control digital input	Pink
7	GND	GND	Blue
8	ERROR	Pump error digital output	Red

### Intuitive and comprehensive interface



- > Simple and intuitive display for managing the pump functions.
- > 7-segment display with intuitive and easy-to-read pump menu and status messages.
- > Physical buttons for menu management.
- > Integrated vacuum switch with analogue and digital output.
- > Easy replacement of vacuum cartridge generator.

### Large 7-segment display and RGB status LEDs to read the pump status

### **PART PRESENT**

Status Led is colored in yellow when the object is handled.

### **BLOW-OFF**

Two types of blow-off selectable from the menu:

- INPUT: The blow-off is electrically activated by pin 6
- AUTO: At each automatic cycle, the blow-off flow will be performed for the duration set in the menu.

For both models, the blow-off air flow rate is mechanically adjustable.

### **ENERGY SAVING**

Allows to save up to 95% of compressed air at each cycle.

### **AUTOMATIC ENERGY SAVING**

Automatically identifies the optimal vacuum thresholds levels at each cycle regardless of the type of material.

### **AUTO EXCLUDE**

In case of significant leakage in the system, this function disables the ES to protect the valves and their lifetime.

#### **TYPE OF CIRCUIT**

Logical selection of PNP or NPN digital signals based on product order code

www.gimatic.com www.gimatic.com 17

### **Embedded features**



### Maintenance and replacement of ejector

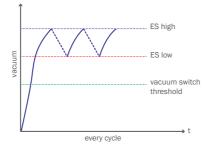
The mechanical design of **EJ-XONE** pump series allows for an easy access to the vacuum ejector's installation area. By simply removing the cartridge cap, the user can directly extract the ejector for easy replacement or cleaning operations. It's also possible to change the ejector type choosing between 3 different models: HF (optimizing the vacuum level), HV (maximizing the vacuum grade) and **LP** (optimizing the consumption air flow by operating the pump with a low pressure supply level).



### **Energy saving (ES)**

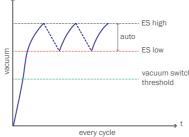
If the function is enabled with the corresponding menu item, and provided there are no leakages, the energy saving feature allows considerable savings of compressed air by switching off vacuum generation and retaining the vacuum in the circuit (this must not be considered as a safety system in the event of compressed air/electricity supply interruption). The vacuum is retained by means of a valve on the cartridge and the blow-off function must therefore be activated in order to release the handled object.

The ES low and ES high thresholds must be set through the menu.



### **Automatic energy saving (AES)**

If **ENERGY SAVING** is enabled in the menu, the function **AES** is activated by setting the ES low and ES high values to -98 kPa and -99 kPa respectively. It allows the automatic setting of energy saving trigger thresholds for each cycle, based on the maximum vacuum level attainable on the material being handled.

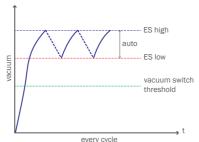


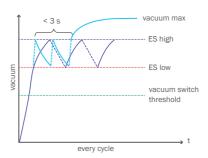
### Auto exclude (AEX)

If the object being gripped is too porous, or if there are any leaks in the vacuum circuit to an extent that makes it impossible to use the ENERGY SAVING feature, the AUTO EXCLUDE function will be activated to create maximum vacuum.

In particular, if enabled with the corresponding menu item, the function intervenes by excluding the ES function in all those cases in which there is a high number of reactivations of the vacuum valve in a short time. This function also eliminates frequent activations, extending the life of the vacuum solenoid valve.

- ≥ 2 reactivations in 3 seconds: the pump is activated to provide continuous
- < 2 reactivations in 3 seconds: pump continues to run with ES.





### **PWM** modulation

The EJ-XONE circuit board integrates several advanced features such as a **PWM** to power supply the electro-valves. This allows for several benefits like:

- a fast response time of the system, by providing full electrical power when valves are initially activated
- optimized power consumption and reduced heat generation
- extended lifetime of the components

#### **Automatic blow-off**

The **EJ-XONE** pump series offers an integrated blow-off channel for an easy and quick release of the part handled once the vacuum is removed. The blow-off type can be configured manually by navigating the digital menu of product and selecting a blow-off from input digital signal or an automatic blow-off. With a blow-off from input signal, the blow-off is triggered by an external digital signal provided at a specific pin of the M8 connector. With an automatic blow-off selection, the EJ-XONE pump activates the blow-off autonomously after interruption of the vacuum generation signal. In this case, it's also possible to define the duration of the blow-off by setting a dedicated parameter of the digital menu.

#### **Enhanced blow-off**

The lateral panel of the **EJ-XONE** pump series hosts a slotted head screw by which the user can manually adjust the intensity (flow-rate) of the blow-off.

> Automatic blow-off



> Enhanced blow-off



www.gimatic.com 19 www.gimatic.com

### **Industries**





### Automotive

- > Molding lines
- > Pre-welded body assembly
- > Vehicle assembly lines (e.g. windshield)

















VG.B.SF0





> Plastic injection molding

> Perfect for saving energy during the extraction and deposit cycle on the converyor belt





### **Sheet metal**

- > Loading / unloading and tending of presses
- > Punching

> Bending machines









VG.CF









VG.LB



VG.GX



- > Robots for top loading (including the simplest 2-3 axis manipulators)
  - > Handling of bags and opening bags
    - > Interlayer manipulation

**Packaging** 





> Integrated control with reduced weights and dimensions







# **Ejector** Vacuum channel logic

Model Series

Size

Stages	Vacuum	channel	typ

3400113	EJ-XONE-M-HF-2-NO-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-HF-2-NR ejector, integrated solenoid valves, normally open version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400114	EJ-XONE-M-HV-2-NO-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-HV-2-NR ejector, integrated solenoid valves, normally open version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400115	EJ-XONE-M-LP-2-NO-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-LP-2-NR ejector, integrated solenoid valves, normally open version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400116	EJ-XONE-M-HF-2-NC-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-HF-2-NR ejector, integrated solenoid valves, normally closed version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400117	EJ-XONE-M-HV-2-NC-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-HV-2-NR ejector, integrated solenoid valves, normally closed version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400118	EJ-XONE-M-LP-2-NC-PNP	Vacuum pump XONE series, 7-segment display, EJ-M-LP-2-NR ejector, integrated solenoid valves, normally closed version, PNP, 24 Vdc, M8x1 connector, 8 poles
3400125	EJ-XONE-M-HF-2-NO-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-HF-2-NR ejector, integrated solenoid valves, normally open version, NPN, 24 Vdc, M8x1 connector, 8 poles
3400126	EJ-XONE-M-HV-2-NO-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-HV-2-NR ejector, integrated solenoid valves, normally open version, NPN, 24 Vdc, M8x1 connector, 8 poles
3400127	EJ-XONE-M-LP-2-NO-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-LP-2-NR ejector, integrated solenoid valves, normally open version, NPN, 24 Vdc, M8x1 connector, 8 poles
3400128	EJ-XONE-M-HF-2-NC-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-HF-2-NR ejector, integrated solenoid valves, normally closed version, NPN, 24 Vdc, M8x1 connector, 8 poles
3400129	EJ-XONE-M-HV-2-NC-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-HV-2-NR ejector, integrated solenoid valves, normally closed version, NPN, 24 Vdc, M8x1 connector, 8 poles
3400130	EJ-XONE-M-LP-2-NC-NPN	Vacuum pump XONE series, 7-segment display, EJ-M-LP-2-NR ejector, integrated solenoid valves, normally closed version, NPN, 24 Vdc, M8x1 connector, 8 poles

### General characteristics

Operating temperature range	0 ÷ +60 °C
Mass	145 g
IP rating	IP54
Materials	AI, PA66, SS, TPU, PC, NBR
Operating voltage	24 Vdc (±10%)
Electrical connection	M12 8-pin male
Manual controls	Yes, monostable buttons
Vacuum transducer response time	1 ms
Vacuum level analogue output	0-5 Vdc
Valve controls	digital PNP/NPN





Maximum supply pressure	0.8 MPa
Minimum supply pressure	0.4 MPa
Maximum air consumption for vacuum generation	58 NI/min
Maximum air consumption for blow-off	168 NI/min
Maximum blow-off flow rate	93 NI/min
Maximum suction flow rate	38 NI/min
Maximum blow-off pressure (zero flow rate)	0.23 Mpa
Valve opening time	≤ 12 ms
Valve closing time	≤5 ms
Supply	Dry air
Pneumatic supply connection	G1/4 female
Vacuum channel connection	G1/2 female
Maximum vacuum level	95 kPa

### **Suction flow rate**



Model	Feed pressure	Air consumption	Suction flow rate [NI/s] at different vacuum levels [-kPa]								Max vacuum		
	[MPa]	[NI/s]	0	10	20	30	40	50	60	70	80	90	[-kPa]
EJ-XONE-M-HF-2-NO/NC-PNP/NPN	0.6	0.43	0.78	0.68	0.52	0.31	0.21	0.15	0.1	0.08	_	_	-73
EJ-XONE-M-HV-2-NO/NC-PNP/NPN	0.6	0.55	0.74	0.63	0.53	0.47	0.29	0.14	0.1	0.08	0.05	0.01	-93
EJ-XONE-M-LP-2-NO/NC-PNP/NPN	0.4	0.55	0.67	0.61	0.53	0.38	0.23	0.12	0.09	0.06	0.02	-	-89

### **Evacuation time**



Model	Feed pressure	Air consumption	Evacuation time [s/I] to reach different vacuum levels [-kPa]									Max vacuum
	[MPa]	[NI/s]	10	20	30	40	50	60	70	80	90	[-kPa]
EJ-XONE-M-HF-2-NO/NC-PNP/NPN	0.6	0.43	0.13	0.3	0.54	0.9	1.5	2.3	3.2	_	_	-73
EJ-XONE-M-HV-2-NO/NC-PNP/NPN	0.6	0.55	0.15	0.32	0.52	0.8	1.3	2.1	3.2	4.7	8.6	-93
EJ-XONE-M-LP-2-NO/NC-PNP/NPN	0.4	0.55	0.17	0.33	0.55	0.9	1.5	2.4	3.7	7.1	_	-89

www.gimatic.com www.gimatic.com 23



Via Enzo Ferrari, 2/4 25030 Roncadelle (BS) ITALY

tel. +39 030 2584655 fax +39 030 2583886

info@gimatic.com www.gimatic.com













Sales Network