EJ-XPRO

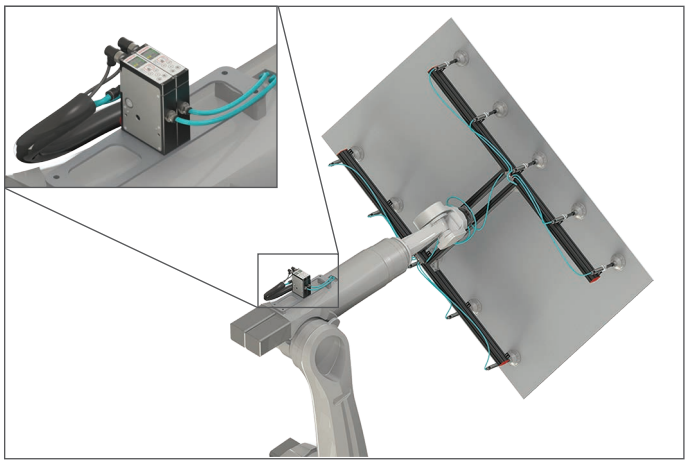
- Vacuum pump with advanced control functions, available with two-stage EJ-LARGE cartridges with non-return valve (EJ-HF, EJ-HV, EJ-LP)
- Energy saving system (ES), with manual and automatic modes, that saves up to 95% of compressed air in sealed applications
- Blow-off mechanism electrically controllable by pin or automatically at each cycle
- Large TFT colour display with intuitive and easy-to-read menu and pump status indications
- Electrical connection via M12 8-pin connector
- It can be installed in series (max 4 units)

Typical applications

- Unstacking and transfer from presses
- Removal of plastic parts
- Ergonomic manipulators where safety and ease of use are key features
- In applications that require an integrated control system with reduced weight and compact dimensions (electronics sector)
- Handling of objects with high weight and sealed surface (glass/ sheet metal)



Application example



Pneumatic specifications	
Medium	Compressed air in compliance with ISO 8573-1:2010 [7:4:4]
Max feed pressure	0.8 MPa
Minimum supply pressure	0.4 MPa
Maximum air consumption for vacuum generation	156 Nl/min
Maximum air consumption for blow-off	220 Nl/min
Maximum blow-off flow rate	50 Nl/min
Maximum suction flow rate	190 Nl/min
Maximum blow-off pressure (zero flow rate)	0.25 bar
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

Technical Features	
Operating temperature range	0 ÷ +60 °C
Mass	800 g
IP rating	IP54
Materials	Alloy 6082-T6, PA66+FG 30%, AISI 303, TPU, PC
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

Suction flow rate

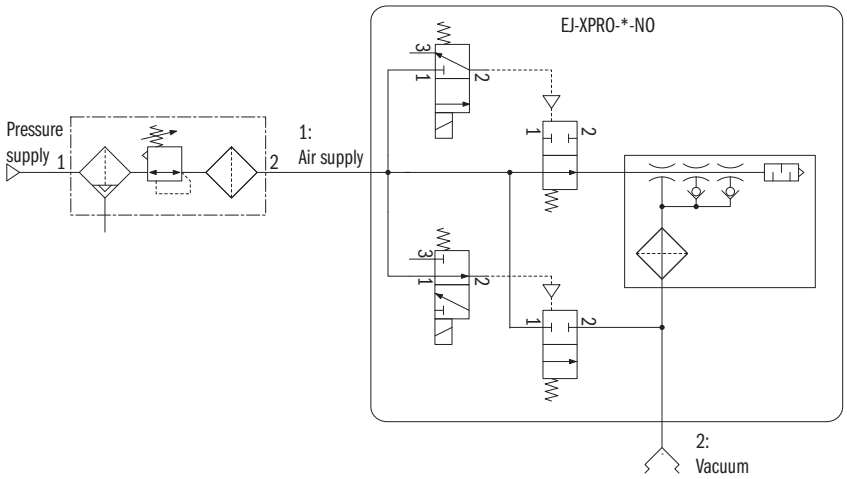
Model	Feed pressure	Air consumption	Suction flow rate [Nl/s] at different vacuum levels [kPa]										Max vacuum
	[MPa]	[Nl/s]	0	-10	-20	-30	-40	-50	-60	-70	-80	-90	[kPa]
EJ-XPRO-L-HF-2-NO/NC	0.6	1.7	3.2	3.0	2.5	1.7	0.89	0.62	0.51	0.31	–	–	-73
EJ-XPRO-L-HV-2-NO/NC	0.5	1.93	2.6	2.4	1.7	1.3	0.70	0.55	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

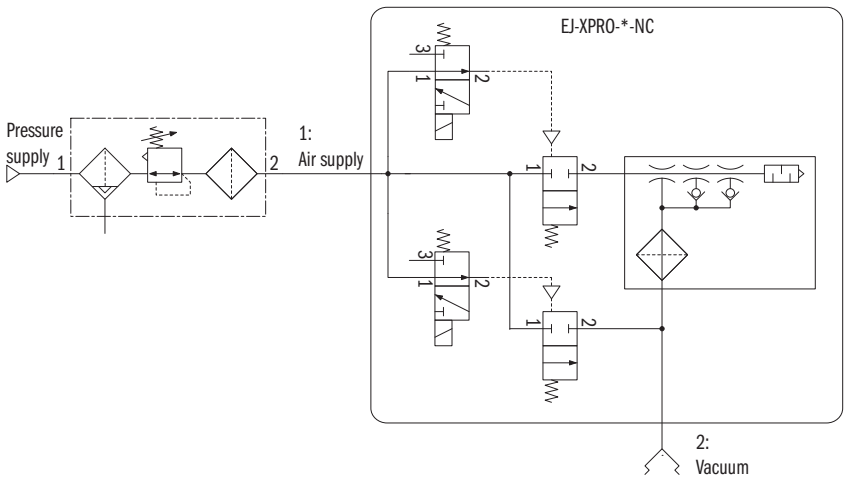
For technical specifications, regarding the suction flow rate and the air consumption at different pressures, please refer to the technical data sheets of the EJ-LARGE cartridges in the two-stage version

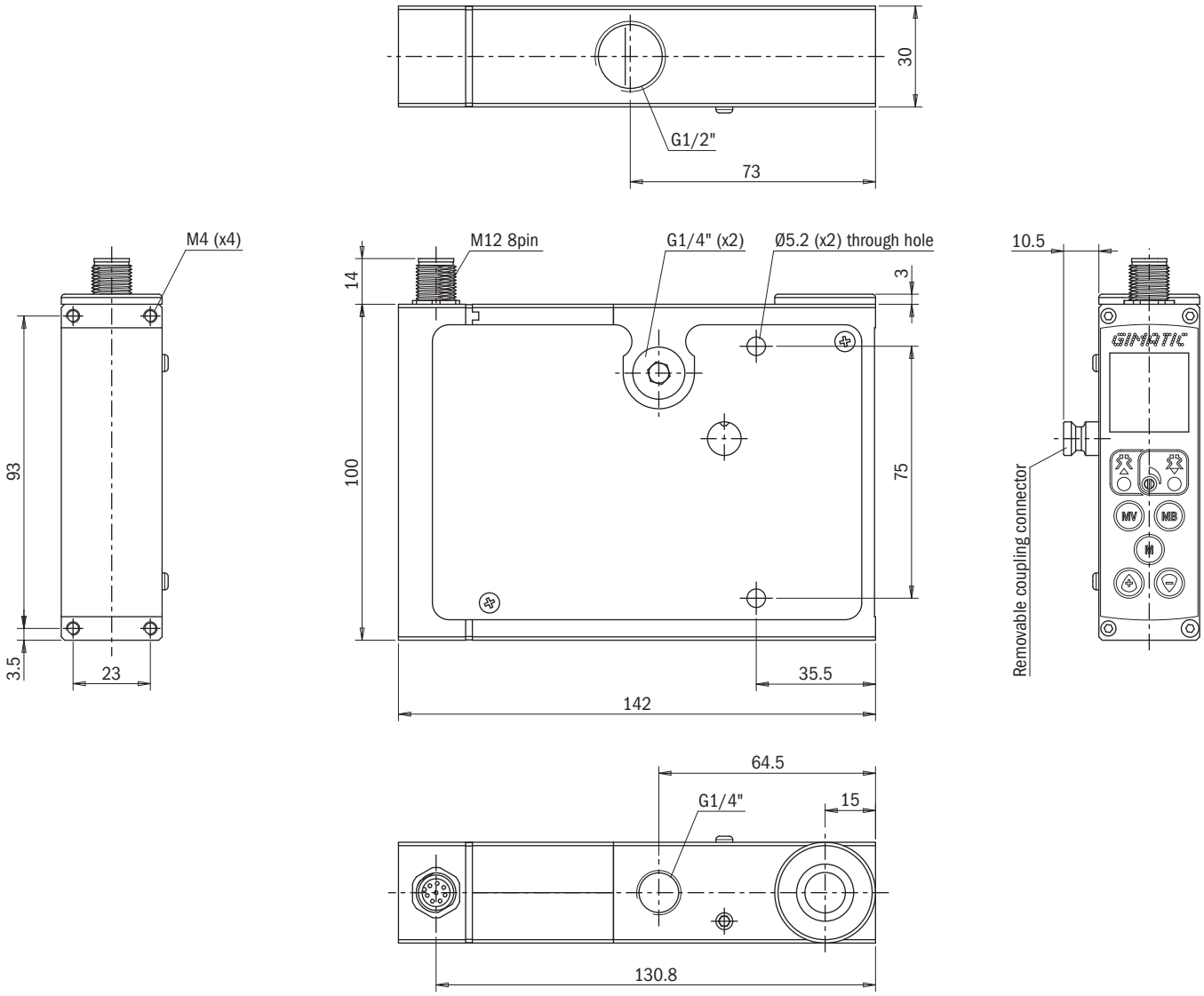
Evacuation time

Model	Feed pressure	Air consumption	Evacuation time [s/l] to reach different vacuum levels [kPa]									Max vacuum
	[MPa]	[Nl/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	0.04	0.09	0.16	0.3	0.4	0.6	0.9	1.3	2.5	-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	–	-89

For technical specifications regarding the evacuation time and the consumption at different pressures, please refer to the technical data sheets of the EJ-LARGE cartridges, in the two-stage version

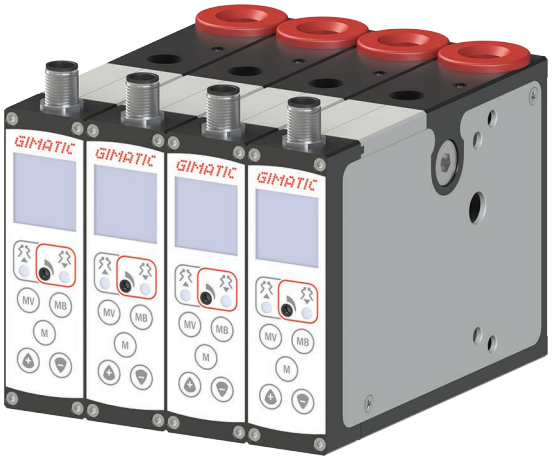


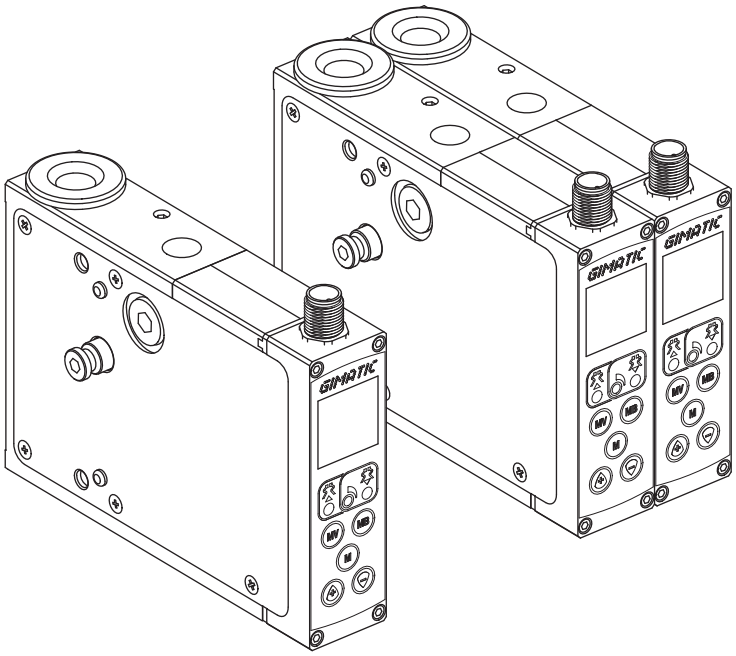



30
G1/2"
73
M4 (x4)
93
3.5
23
M12 8pin
G1/4" (x2)
Ø5.2 (x2) through hole
14
100
3
75
35.5
142
10.5
Removable coupling connector
GIMATIC
MV
MB
64.5
G1/4"
15
130.8

Identification codes		
Alphanumeric code	**Description**	**Order code**
EJ-XPRO-L-HF-2-NO	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage HF cartridge with non-return valve and NO vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400100**
EJ-XPRO-L-HV-2-NO	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage HV cartridge with non-return valve and NO vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400101**
EJ-XPRO-L-LP-2-NO	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage LP cartridge with non-return valve and NO vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400102**
EJ-XPRO-L-HF-2-NC	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage HF cartridge with non-return valve and NC vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400103**
EJ-XPRO-L-HV-2-NC	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage HV cartridge with non-return valve and NC vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400104**
EJ-XPRO-L-LP-2-NC	Electronically controlled vacuum pump with integrated display, solenoid valves, keypad and 8-pin M12 connector. Large 2-stage LP cartridge with non-return valve and NC vacuum channel. Configurable as PNP or NPN, 24Vdc logic	**3400105**

For codes relevant to configurations in series, please contact the Gimatic branch that serves your area





Identification codes		
Alphanumeric code	**Electrical connectors**	**Order code**
CFGM1200825P	Axial female connector with M12 lock nut, 8 pins, round PUR cable, length 2.5 metres	**3031157**
CFGM1200825SP	Axial female connector with M12 lock nut, 8-pin, shielded, 2.5 metre long PUR round cable	**3031158**
CFGM1290825SP	Angular female connector with M12 lock nut, 8-pin, shielded, 2.5 metre long PUR round cable	**3031159**