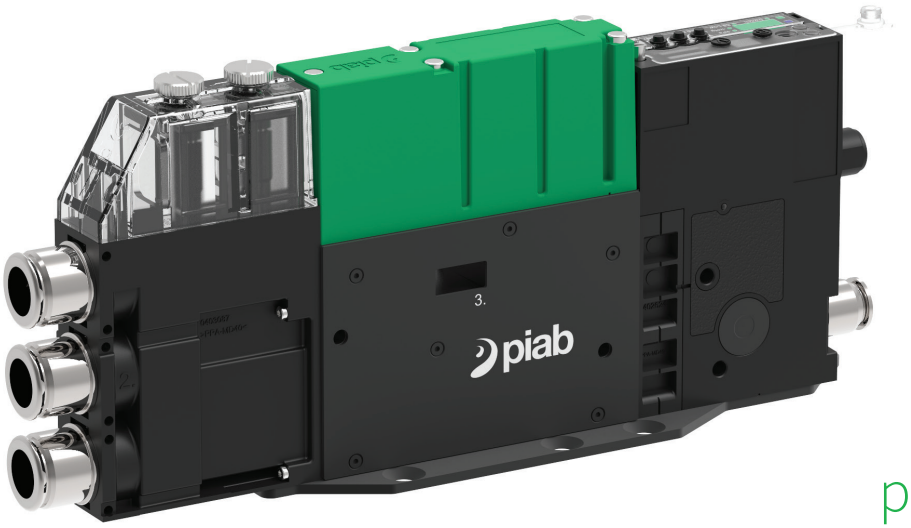
piCOMPACT®23



piSMART®

piCOMPACT® is an ejector family with integrated controls, so called compact or ”all-in-one” ejector unit. It is a stackable platform with the possibility to mount several units in the same manifold and have common pneumatic and electrical connections. The focus during development has been on the most significant “key criteria” for these types of pumps, reliability and speed, as well as introducing some brand new attractive features/functions. That in combination with our state-of-the-art vacuum engine, COAX®, the product is outstanding. By working at low feed pressure and maximizing the utilization rate of the compressed air, the COAX® ejectors reduce energy consumption for manufacturers while increasing productivity and reliability.Its vacuum response to 50–60 -kPa is typically 30–50% faster compared to single stage technology.

VACUUM FLOW

COAX® Cartridge	Feed pressure	Air consumption	Vacuum flow (Nl/s) at different vacuum levels (-kPa)									Max vacuum
	MPa	Nl/s	0	10	20	30	40	50	60	70	80	-kPa
SX12	0.504/0.5*	0.72	1.22	1.03	0.78	0.52	0.27	0.21	0.15	0.09	0.03	85
SX42	0.47/0.43*	2.21	3.46	3.02	2.41	1.7	1.02	0.61	0.47	0.28	0.1	90

* Pump/nozzle.

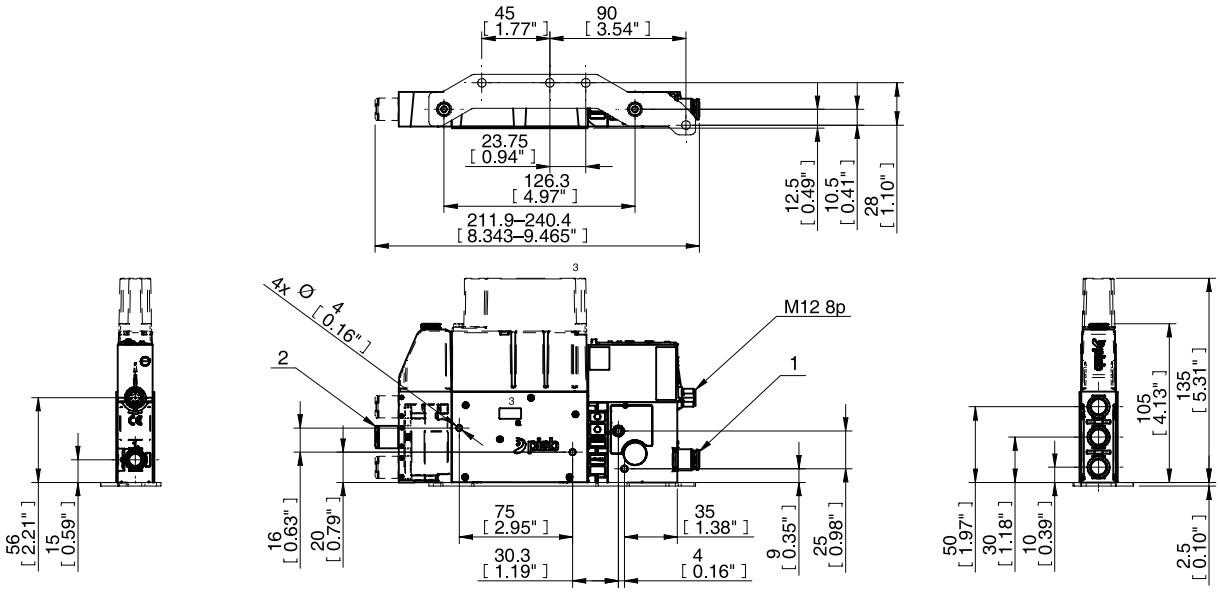
EVACUATION TIMES

COAX® Cartridge	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	-kPa
SX12	0.504/0.5*	0.72	0.082	0.201	0.374	0.674	1.216	1.914	2.978	6.187	85
SX42	0.47/0.43*	2.21	0.038	0.074	0.123	0.204	0.356	0.577	0.879	1.718	90

* Pump/nozzle.

Specifications subject to change without notice.

DIMENSIONAL DRAWING



ORDERING INFORMATION

For a complete list of available pumps and combinations with further information visit **piab.com**. On our webpage you will also be able to find dimensional drawings, CAD-drawings and much more. Register and get full access to all resources available.

piSMART®

For more information on piSMART® and how Piab helps shape the industry of tomorrow go to page 409.

CUSTOMER CODE

For the configuration tables of piCOMPACT®23 go to page 234.

piCOMPACT®23 – CUSTOMER CODE

piCOMPACT®
Code
PC

Functionality	
Code	Vacuum characteristics
F	High vacuum performance

Functionality	
Code	Nozzle model
12	SX12 (73–146 Nl/min)
42	SX42 (207–415 Nl/min)
Code	**Nozzle rows**
1	Single
2	Double

Working enviroment	
Code	Chemical resistance
S	Standard

Functionality	
Code	Control functions
A	Electrical ES, vac and blow-off
B	Electrical ES, vac and automatic timer based blow-off (ATBO)
F	Electrical ES, vac, intelligent blow-off (IBO)
C	Vac and blow-off
D	Vac, automatic timer based blow-off (ATBO)
G	Vac and intelligent blow off (IBO)
E	Vacuum on/off (vac)
H	IO-Link pre-configured

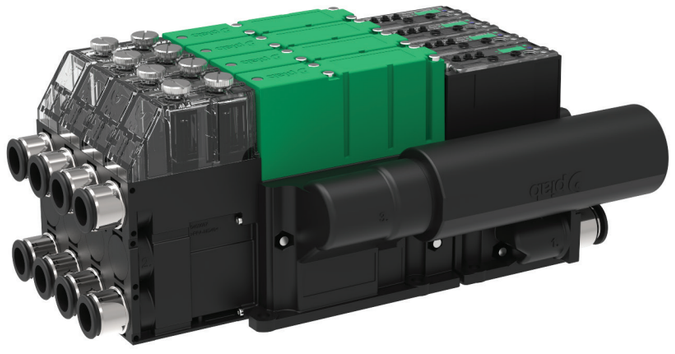
Code	Additional vacuum functions
	No extra vacuum control
Z	Self adhesion control (SAC)

Code	Internal check valves
B	Without non-return valve
A	With non-return valve
C	Amplified blow-off, without vacuum non-return valve (ABO)
D	Amplified blow-off, with vacuum non-return valve (ABO)
E	Pre-vacuum hovering, without vacuum non-return valve (PVH)
F	Pre-vacuum hovering, with vacuum non-return valve (PVH)
Code	**Vacuum sensing**
A	Display, analog and digital output
B	Display, 2× digital outputs
C	Display, leakage warning and digital output
D	IO-Link display
X	No vacuum sensing

Vacuum connect module	
Code	Vacuum filter
S	Vacuum filter 50 µm
F	2× Vacuum filter 50 µm
X	No vacuum filter
Z	No vacuum filter including sensing port
Code	**Vacuum ports(s) / channel**
1	1 vacuum port
2	2 vacuum ports
3	3 vacuum ports
Code	**Vacuum connection(s)**
8	Ø8(5/16) push-in connector(s)
P1	Ø10 push-in connector(s)
P2	Ø3/8" push-in connector(s)
P3	Ø12 push-in connector(s)
P4	Ø1/2" push-in connector(s)
H1	12mm / 1/2" I.D. barb connector

Single unit or manifold mount	
Code	Number of channels
1	1 channel
2	2 channels
3	3 channels
4	4 channels
Code	**Split control from vacuum**
X	No split
B	Split Ø6
C	Split Ø1/4"
D	Split Ø8
E	Split Ø10
F	Split Ø3/8"

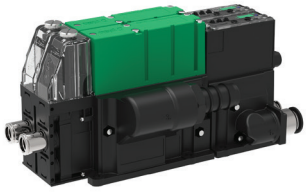
Code	IO-Link Energy saving type
1	ES pre-set on 75 -kPa
2	ES Automatic level determination (ALD)
3	ES pre-set on 75 -kPa with ALD backup
0	No ES
Code	**IO-Link Blow-off type**
1	Automatic timer based blow-off (ATBO)
2	Intelligent blow off (IBO)
0	External control
Code	**IO-Link Additional functions**
1	Self adhesion control (SAC)
0	No IO-Link additional functions



PC . F . 422 . S . AAA . F18 . 4X . 2P1 . EN . CCAB

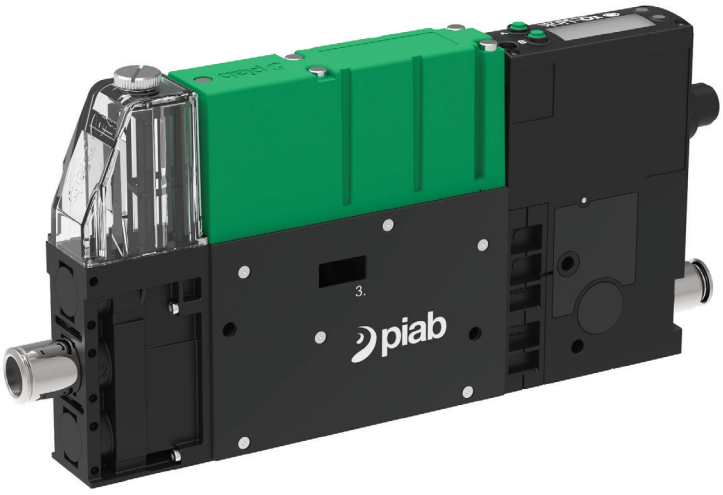
PC . F . 122 . S . H111AD . S1P1 . 1X . 8 . EJ . CCCC

Air supply	
Code	**Air connections**
6	Ø6 push-in connector
14	Ø1/4" push-in connector
8	Ø8(5/16") push-in connector
P1	Ø10 push-in connector
P2	Ø3/8" push-in connector
P3	Ø12 push-in connector(s)
P4	Ø1/2" push-in connector(s)
2P1	2× Ø10 push-in connector(s)
2P2	2× Ø3/8" push-in connector(s)
2P3	2× Ø12 push-in connector(s)
2P4	2× Ø1/2" push-in connector(s)



Mounting	
Code	**Ejector options**
EC	Ejectors stacked with central exhaust
EN	Ejectors stacked with central silencer
EJ	Ejector(s) for individual mounts, integrated silencer
EK	Ejector(s) for individual mounts, top mounted silencer
EL	Ejector(s) for individual mounts, central exhaust
EM	Ejector(s) for individual mounts, central silencer

Electrical properties	
Code	**Valve configuration**
CC	NC vacuum + NC blow off
FC	NC vacuum (power off - NO) + NC blow off
OC	NO vacuum + NC blow off
C	NC vacuum
O	NO vacuum
AC	Bi-stable vacuum valve + NC blow off
Code	**Electrical input/output**
A	PNP/PNP or NPN/NPN
B	Mixed mode
C	IO-Link, PNP/PNP
Code	**Electrical interface**
B	M12 8p connector(s)
C	M12 4p connector(s)



PC . F . 122 . S . H111AD . S1P1 . 1X . 8 . EJ . CCCC