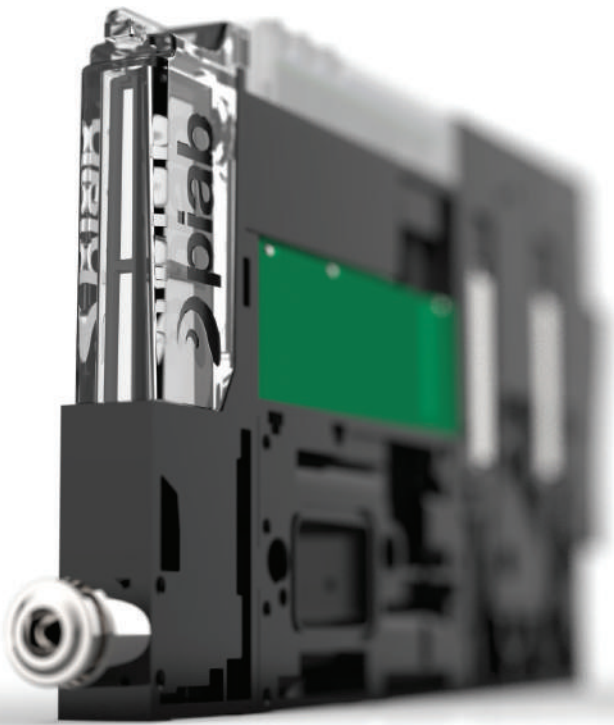


piCOMPACT™ MICRO

Amazing uptime with the worlds fastest integrated controls ejector



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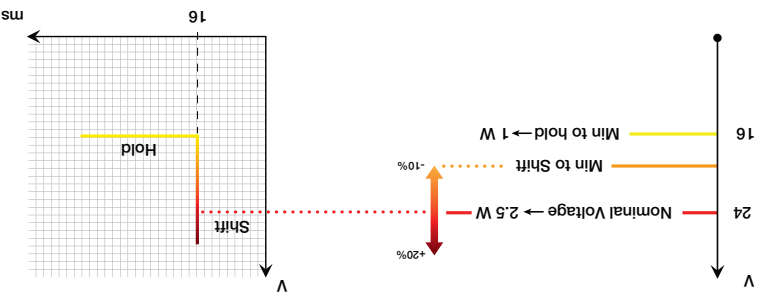
No need to compromise

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Piab AB, 2014-03

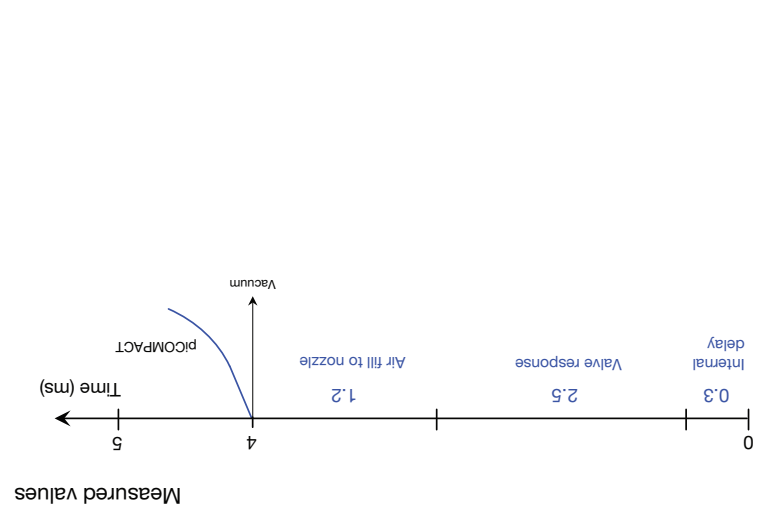


► Faster response with lower energy usage. Only use the high power when needed.
► More robust system with larger voltage input range that provides a safer shift.
► Better longevity with lower overall power and temperature.

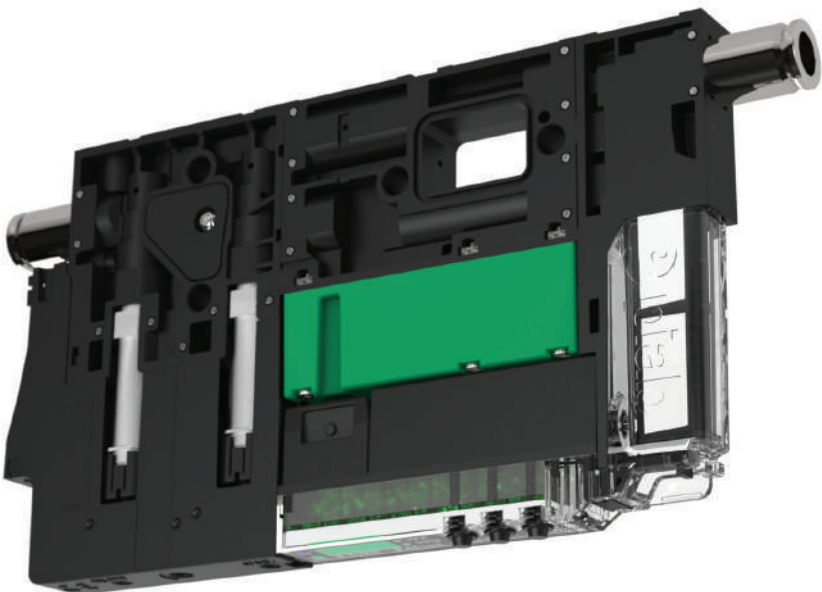
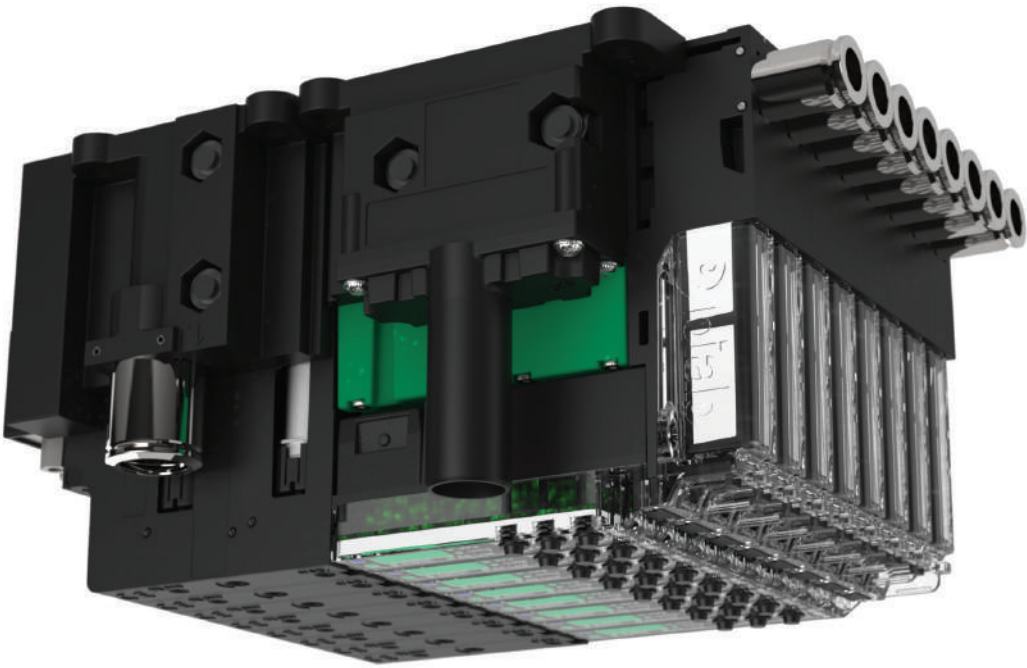


Adaptive Pulse Width Modulation

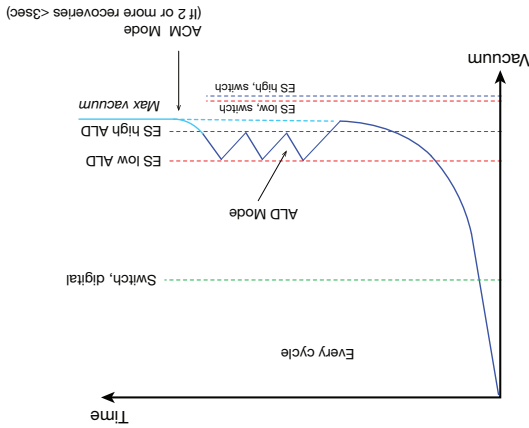
High speed valves with adaptive PWM



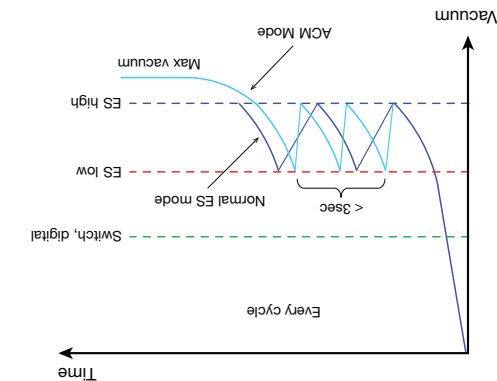
Valve pump speed



The combination of ACM and ALD makes it very easy to install and run an ES system with optimized settings for every cycle.



ALD - Automatic level determination



ACM - Automatic Condition Monitoring saving (ES) function
Special features for energy



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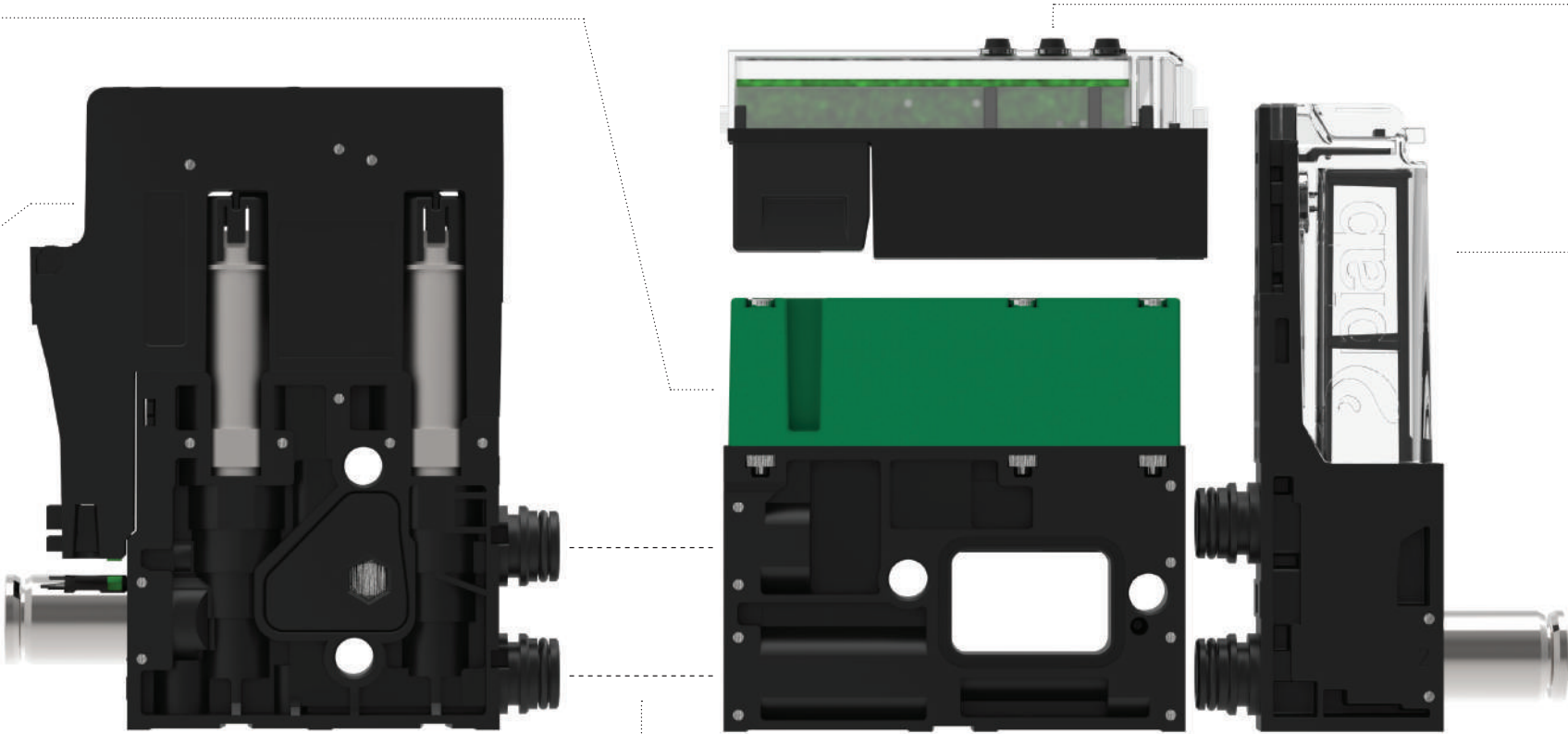
Vacuum response time to -60 kPa [18 -inHg], including valve response time:
28 ms

COAX® technology allows for supply pressure drops or pressure fluctuations without jeopardizing vacuum performance.

Vacuum response to 50–60 –kPa [15–18 –inHg] is typically 30–50% faster compared to single stage technology.

Ultra high speed direct operating valves for vacuum on/off and part release provide short cycle times and high reliability.

Split unit is an unique feature where the pump and valve sections can be separated. Shorter cycle time as closer to point of suction. (Optional)



Probably the most user-friendly GUI for the vacuum switch as compared to other ejectors.

Extra-large cleanable vacuum filter area guarantees no pressure drops or reduced speed/performance.

The only 10 mm wide compact ejector with a large 6 mm vacuum connection for maximum performance.

* Conditions: Vacuum piping size ø4/2 mm x 300 mm, small cup, total volume 5 ml, piCOMPACT™ MICRO Ti05x2 with filter filler

Configurable products

Product Group

piCOMPACT™

PC

Ejector performance					
Vacuum characteristics		Nozzle model		Nozzle rows	
Code	Description	Code	Description	Code	Description
L	Low feed pressure	MC	MICRO (14–19 Nl/min [0.50–0.67 scfm])	1	Single
S	High vacuum flow			2	Double
X	Extra vacuum level				
T	Extra high vacuum flow				

Working enviroment	
Chemical resistance	Description
S	Standard

Functionality					
Control functions		Non-return valve		Vacuum sensing	
Code	Description	Code	Description	Code	Description
A	Electrical ES and blow off	B	Without non-return valve	A	Display, analog and digital output
B	Electrical ES and automatic blow off			X	No vacuum sensing
C	Blow off				
D	Automatic blow off	A	With non-return valve		
E	No addition				

Vacuum connect module					
Vacuum filter		Vacuum port(s)/channel		Vacuum connection(s)	
Code	Description	Code	Description	Code	Description
S	Vacuum filter 50 µm	1	1 vacuum port	4	Ø4 (5/32") push-in connector(s)
X	No vacuum filter	2	2 vacuum ports	6	Ø6 push-in connector(s)
		3	3 vacuum ports	14	Ø1/4" push-in connector(s)

PC . S . MC2 . S . AAA . S16 . 1X . 6 . EI . CCP6

Common electrical connection

Common feed

Common exhaust

426 g
[15 oz.]

Single unit or manifold mount			
Number of channels		Split control from vacuum	
Code	Description	Code	Description
1	1 channel		
2	2 channels		
3	3 channels	X	No split
4	4 channels	A	Split ø4
5	5 channels	B	Split ø6
6	6 channels	C	Split ø1/4"
7	7 channels		
8	8 channels		

Air supply	
Code	Description
4	Ø4 (5/32") push-in connector
6	Ø6 push-in connector
14	Ø1/4" push-in connector
8	Ø8 (5/16") push-in connector
26	2 x ø6 push-in connectors
214	2 x ø1/4" push-in connectors
28	2 x ø8 (5/16") push-in connectors

Mounting	
Code	Description
EC	Ejectors stacked with central exhaust
EI	Ejector(s) for individual mounts

Electrical properties					
Valve configuration		Electrical input/output		Electrical interface	
Code	Description	Code	Description	Code	Description
CC	NC vacuum + NC blow off	P	PNP	6	6 pole connector(s)
OC	NO vacuum + NC blow off			26	HD D-sub 26p connector
C	NC vacuum			44	HD D-sub 44p connector
O	NO vacuum				

72.8 mm [2.87"]
147 mm [5.77"]
60.9 mm [2.40"]

Values are valid for the example shown above.

