

## piCOMPACT®10X Ti05-2 x2



- ▶ Configurable vacuum ejector based on COAX® technology with integrated controls.
- ▶ Optimized design for high reliability and fast cycle times.
- ▶ High Speed valves with adaptive PWM (Pulse Width Modulation) to reduce heat generation and further improve reliability.
- ▶ Slim package (10mm width) and lightweight thanks to high-performance plastic parts.
- ▶ Larger flow and evacuation capacity vs. the other MICRO cartridges.
- ▶ Dirt tolerant cartridge design.
- ▶ Userfriendly GUI (Graphical User interface), no risk for setting up part present signal, ES level and hysteresis wrong.
- ▶ Cleanable and replaceable filter element
- ▶ Low noise level
- ▶ Central silencer or central exhaust for lowest possible sound level and possibility to pipe away exhaust air.

### Technical data

Description	Unit	Value
Feed pressure, max.	MPa	0.7
Temperature range	°C	-10-50
Total weight	g	637
Material	-	PA, NBR, SS, TPE, POM, CuZn, PVC, PC, LCP
Noise level range 1-8 channels	dBA	66-78

Connection, compressed air	-	2 x ø8 (5/16) push-in connectors
Connection, vacuum	-	ø6 push-in connector(s)
Supply voltage	VDC	24 (21.6 – 26.4)
Electrical input/output	-	PNP
Electrical connection	-	Connector M8, 6 pole male
Switch output 1, max	mA	100
Analog output	V	1-5

### Technical data, valve module

Description	Unit	Value
Current consumption	mA	100/63
Manual override	-	Yes, non-locking push style
Function, Vacuum / Blow-off	-	NC vacuum + NC blow off
Response time	ms	2.8
Pressure drop	MPa	0.03
Blow-off flow at 0.5 MPa	NI/s	0-1.01

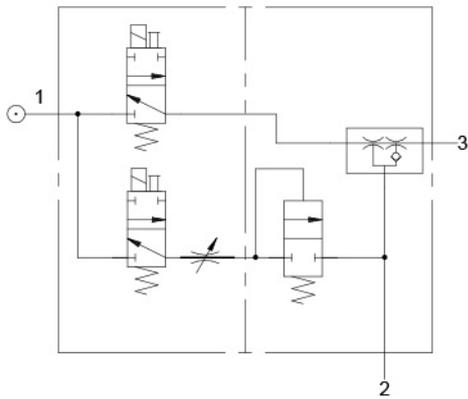
### Vacuum flow

Feed pressure pump / nozzle  MPa	Air Consumption per pump/nozzle NI/s	Vacuum flow (NI/s) at different vacuum levels (-kPa)								Max vacuum  -kPa
		0	10	20	30	40	50	60	70	
0.50 / 0.40	0.46	0.53	0.48	0.37	0.27	0.18	0.13	0.090	0.046	84

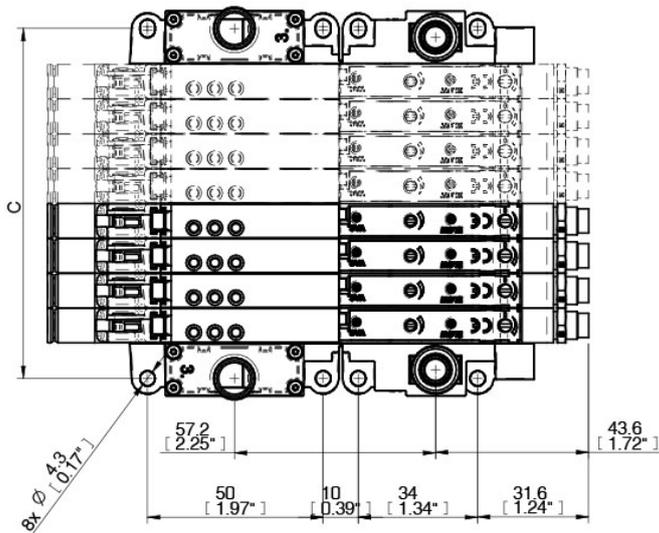
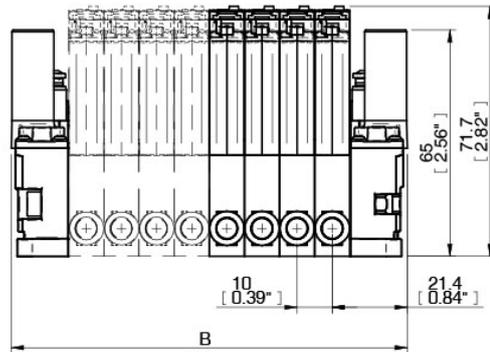
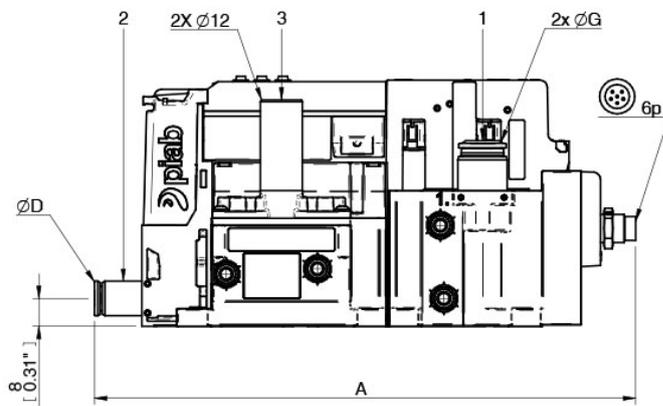
### Evacuation time

Feed pressure pump / nozzle  MPa	Air Consumption per pump/nozzle NI/s	Evacuation time (ms) of 5 ml to reach different vacuum levels (-kPa)									Max vacuum  -kPa
		10	20	30	40	50	60	70	80	84	
0.50 / 0.40	0.46	5.9	8.4	10.6	15.8	22.3	31	43	71	101	84

**Dimensional drawing**



A	154.1 [6.07"]
B	82.8 [3.26"]
C	70.5 [2.78"]
D	ø6
G	ø8
N	0



### Ordering information

Description	Product code
piCOMPACT®10X Ti05-2 x2 Extra high vacuum flow (micro), MICRO (14-19 Nl/min), Double, Standard, Automatic Timer Blow-off (ATBO), , , Without non-return valve, Display, analog and digital output, 1 vacuum port, ø6 push-in connector(s), 5 channels, No split, 2 x ø8 (5/16) push-in connectors, Ejectors stacked with central exhaust, NC vacuum + NC blow off, PNP, M8 6p connector(s)	PC.T.MC2.S.DBA.S16.5X.28.EC.CCPA

### Ordering information, accessories

Description	Art. No.
Filter element FM10-50, 5 pcs	0201747
Cable L=4m, M8, 6p Torsional PUR	0203013
Cable L=5m, M8 6p PUR	0204975
Y-Cable L=0.5m, M8 6-pin fem, 2xM12 5-pin male PUR	0209898

#### Values specified in data sheet are tested at:

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Relative humidity 0-100%.
- Compressed air quality, DIN ISO 8573-1 class 4.