

# IPCMini Single Channel Ion Pump Controller



## Innovation at your touch

The IPCMini ion pump controller, with an intuitive 3.5-inch touch panel, enables powering, control, and monitoring of ion pumps ranging from 0.2 to 500 L/s, and ensures a completely new user experience.

- Touch screen
- High current resolution (1nA) for accurate reading in the low pressure range
- New iSTEP voltage function improves start up in the low pressure range
- I/O response time <10 ms
- Front panel USB port for data acquisition
- 1/4-inch rack
- RS-232/485 computer interface

## Technical Specifications

| Specification                                                                                                 |                         | Specification         |                                          |
|---------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------------------------|
| Input voltage                                                                                                 | 100 - 240 Vac (+/-10 %) | Voltage measurement   | Resolution 100 V (+/- 5 %)               |
| Input frequency                                                                                               | 50/60 Hz                | Current resolution    | 1 nA                                     |
| Input power                                                                                                   | 160 VA                  | Ripple noise          | 20 V                                     |
| Output high voltage                                                                                           | +/- 7000 Vdc +/- 5 %    | Weight                | 1.9 kg (4.2 lb)                          |
| Output high voltage short circuit current                                                                     | 20 mA                   | Installation category | II                                       |
| Output high voltage power max                                                                                 | 40 W                    | Max altitude          | 2000 m                                   |
| Operating temperature                                                                                         | 0 °C to 45 °C           | Pollution degree      | 2                                        |
| Storage temperature                                                                                           | -40 °C to +70 °C        | Communications        | RS-232/485 standard<br>Ethernet optional |
| Compliance with:                                                                                              |                         |                       |                                          |
| EN 61010-1 2010: Safety requirements for electrical equipment for measurement, control, and laboratory use    |                         |                       |                                          |
| EN 61326-1 2013: Electrical equipment for measurement, control, and laboratory use - EMC requirements (Cl. A) |                         |                       |                                          |

## Ordering Information

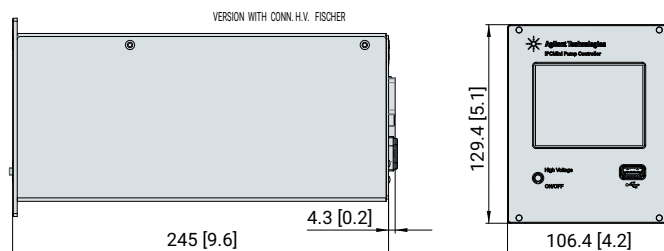
| Controller Selection                          | Part Numbers |
|-----------------------------------------------|--------------|
| <b>IPCMini standard unit</b>                  |              |
| IPCMini, 110/220 V Fischer high voltage, neg. | X3602-64000  |
| IPCMini, 110/220 V Fischer high voltage, pos. | X3602-64001  |
| IPCMini, 24 VDC, Fischer high voltage, neg.   | X3602-64002  |
| IPCMini, 24 VDC, Fischer high voltage, pos.   | X3602-64003  |
| IPCMini, 110/220 V King high voltage, neg.    | X3602-64020  |
| IPCMini, 110/220 V King high voltage, pos.    | X3602-64021  |
| IPCMini, 24 VDC, King high voltage, neg.      | X3602-64022  |
| IPCMini, 24 VDC, King high voltage, pos.      | X3602-64023  |

|                                                         |             |
|---------------------------------------------------------|-------------|
| <b>IPCMini with Ethernet</b>                            |             |
| IPCMini, 110/220 V Fischer high voltage, neg., Ethernet | X3602-64010 |
| IPCMini, 110/220 V Fischer high voltage, pos., Ethernet | X3602-64011 |
| IPCMini, 24 VDC, Fischer high voltage, neg., Ethernet   | X3602-64012 |
| IPCMini, 24 VDC, Fischer high voltage, pos., Ethernet   | X3602-64013 |
| IPCMini, 110/220 V King high voltage, neg., Ethernet    | X3602-64030 |
| IPCMini, 110/220 V King high voltage, pos., Ethernet    | X3602-64031 |
| IPCMini, 24 VDC, King high voltage, neg., Ethernet      | X3602-64032 |
| IPCMini, 24 VDC, King high voltage, pos., Ethernet      | X3602-64033 |

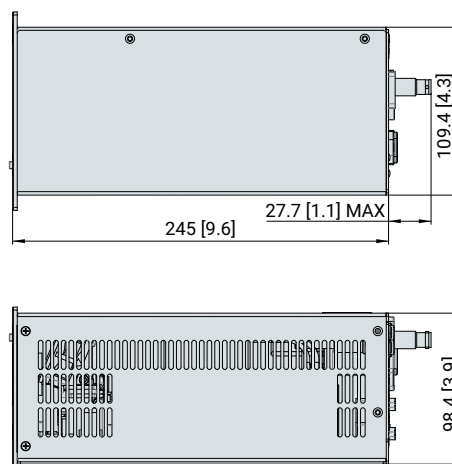
|                                         |             |
|-----------------------------------------|-------------|
| <b>Accessories</b>                      |             |
| I/O adapter MiniVac/MicroVac to IPCMini | X3602-68001 |
| Interlock adapter, IPCMini to Safeconn  | X3602-68002 |
| RS-232 cable                            | X3602-68003 |

|                                         |           |
|-----------------------------------------|-----------|
| <b>Power cord selection</b>             |           |
| Mains cable, NEMA plug, 3 m (10 ft)     | 9699958   |
| Mains cable, European plug, 3 m (10 ft) | 9699957   |
| Power cord, China plug, 10A             | 8121-0723 |

## Version with Fischer Connector



## Version with King Connector



Dimensions: mm [inches]

| High Voltage Cables                                                       | Part Numbers |
|---------------------------------------------------------------------------|--------------|
| High voltage cable for miniature pumps, 2.5 m (8 ft)                      | 9240122      |
| High voltage radiation resistant cable, 4 m (13 ft)<br>Fischer - King     | 9290706      |
| High voltage radiation resistant cable, 4 m (13 ft)<br>Fischer - Fischer  | 9290705      |
| High voltage radiation resistant cable, 7 m (23 ft)<br>Fischer - Fischer  | 9290707      |
| High voltage radiation resistant cable, 10 m (33 ft)<br>Fischer - Fischer | 9290708      |
| High voltage radiation resistant cable, 20 m (66 ft)<br>Fischer - Fischer | 9290709      |
| High voltage cable bakeable, 4 m (13 ft)<br>StarCell - Fischer            | 9290710      |
| High voltage cable bakeable, 4 m (13 ft)<br>Old Varian - Fischer          | 9290712      |
| High voltage cable w/o interlock, SHV, 4 m (13 ft)<br>SHV - Fischer       | 9290710M023  |
| High voltage cable w/o interlock, SHV, 7 m (23 ft)<br>SHV - Fischer       | 9290710M024  |
| High voltage cable w/o interlock, SHV, 10 m (33 ft)<br>SHV - Fischer      | 9290710M025  |
| High voltage cable w/o interlock, SHV, 20 m (66 ft)<br>SHV - Fischer      | 9290710M024  |

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