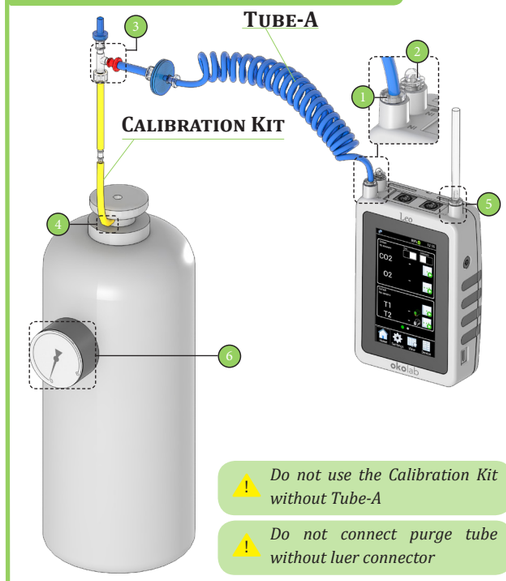
User Calibration with Gas Cylinder

Gas Cylinder with Pressure Regulator

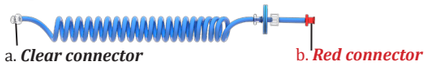


1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon* IN
2. *Put the cap on LEO gas inlet port labeled with icon* IN
3. *Connect the **red connector (b)** of Tube-A to the **clear connector (c)** of the Calibration Kit*
4. *Connect the end of Calibration Kit to the Gas Cylinder*

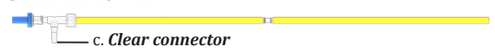
   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your gas cylinders.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Set 1.0 barg on the pressure regulator of the Gas Cylinder*

   Do not exceed 1.5 barg
7. *Start the calibration (refer to LEO User Manual, paragraph 13)*

Tube-A



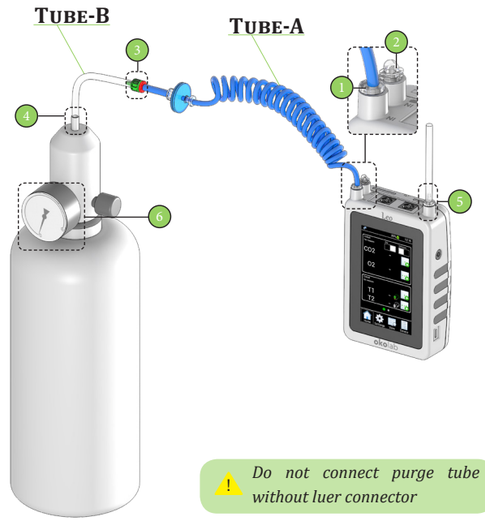
Calibration Kit



⚠ *Do not use the Calibration Kit without Tube-A*

⚠ *Do not connect purge tube without luer connector*

Gas Cylinder with Flow Regulator



1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon* IN
2. *Put the cap on LEO gas inlet port labeled with icon* IN
3. *Connect the **red connector (b)** of Tube-A to the **green connector (c)** of Tube-B*
4. *Connect the **end of Tube-B** to the Calibration Gas Regulator*

   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your gas cylinders.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Open the Calibration Gas Regulator by using the valve*

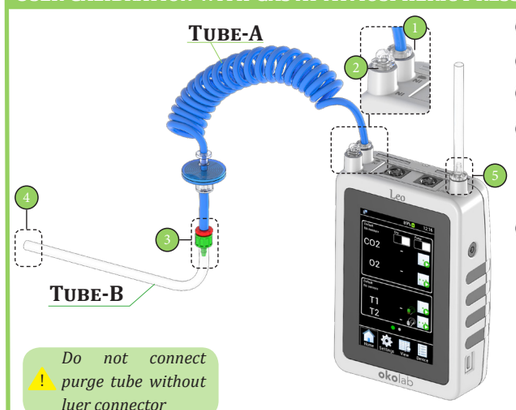
   Set the flow rate value at maximum 0.4 l/min.
7. *Start the calibration (refer to LEO User Manual, paragraph 13)*

Tube-A

Tube-B

⚠ *Do not connect purge tube without luer connector*

User Calibration with Gas at Atmospheric Pressure



1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon* IN
2. *Put the cap on LEO gas inlet port labeled with icon* IN
3. *Connect the **red connector (b)** of Tube-A to the **green connector (c)** of Tube-B*
4. *Connect the **end of Tube-B** to the incubator or the point where measurement is required*

   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your incubators.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Start the calibration (refer to LEO User Manual, paragraph 13)*

Tube-A

Tube-B

⚠ *Do not connect purge tube without luer connector*

okolab

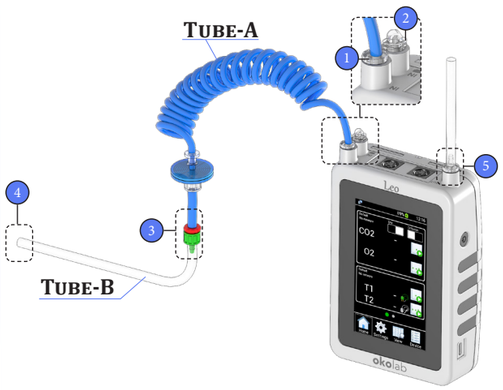
LEO

Handheld Analyzer for IVF Applications

Quick Instructions

Rev 04
October 2019

Gas Measurement in Diffusion Mode

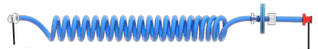


1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon IN*
2. *Put the cap on LEO gas inlet port labeled with icon IN*
3. *Connect the **red connector (b)** of Tube-A to the **green connector (c)** of Tube-B*
4. *Connect the **end of Tube-B** to the incubator or the point where measurement is required*

   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your incubators

   Do not exceed 300 mbarg upstream LEO
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Start a Gas Single point (refer to LEO User manual paragraph 10.1.3) or a Gas Logging (refer to LEO User Manual, paragraph 10.1.4)*

TUBE-A



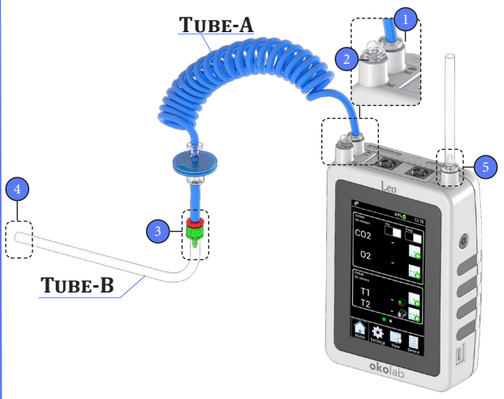
a. ***Clear connector*** b. ***Red connector***

TUBE-B

c. ***Green connector***

⚠ *Do not connect purge tube without luer connector*

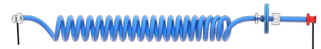
Gas Measurement in Aspiration Mode



1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon IN*
2. *Put the cap on LEO gas inlet port labeled with icon IN*
3. *Connect the **red connector (b)** of Tube-A to the **green connector (c)** of Tube-B*
4. *Connect the **end of Tube-B** to the incubator or the point where measurement is required*

   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your incubators.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Start a Gas Single point (refer to LEO User manual paragraph 10.1.3) or a Gas Logging (refer to LEO User Manual, paragraph 10.1.4)*

TUBE-A



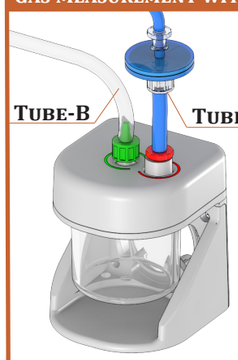
a. ***Clear connector*** b. ***Red connector***

TUBE-B

c. ***Green connector***

⚠ *Do not connect purge tube without luer connector*

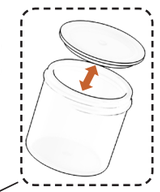
Gas Measurement with Moisture Trap



*If the sampling gas is humid, connect the **red connector (b)** of Tube-A and the **green connector (c)** of Tube-B to Moisture Trap*

1

Before starting a Gas Logging, unscrew the condensation trap to make sure the condensation trap top has been removed



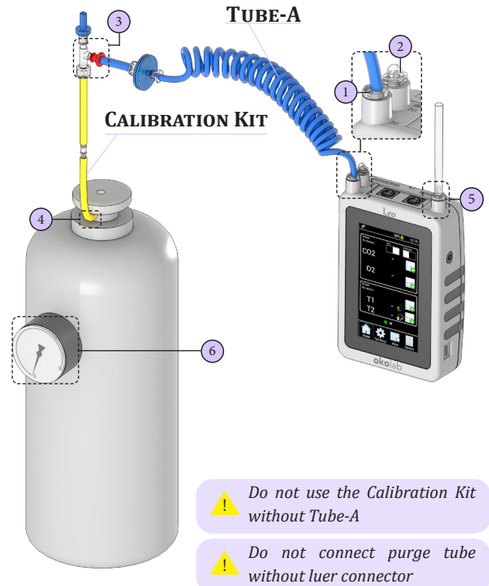
The condensation trap top allows reducing the sampling gas time during a Gas Single Point measurement

Replace the condensation trap in its housing.

2

CO2 Zero Reset with N2

Gas Cylinder with Pressure Regulator



1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon IN*
2. *Put the cap on LEO gas inlet port labeled with icon IN*
3. *Connect the **clear connector (c)** of the Calibration Kit to the **red connector (b)** of Tube-A*
4. *Connect the **end of Calibration Kit** to the Gas Cylinder*

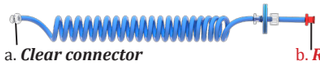
   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your gas cylinders.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Set 1.0 barg on the pressure regulator of the pure N2 tank*

   Do not exceed 1.5 barg
7. *Start the CO2 Zero Reset (refer to LEO User Manual, paragraph 13.4.2)*

⚠ *Do not use the Calibration Kit without Tube-A*

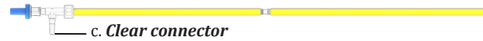
⚠ *Do not connect purge tube without luer connector*

TUBE-A



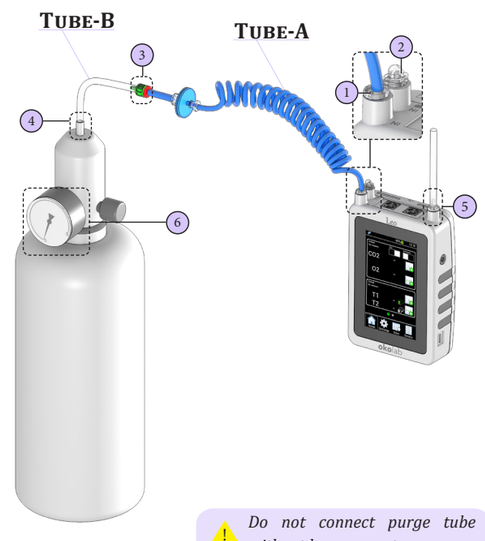
a. ***Clear connector*** b. ***Red connector***

CALIBRATION KIT



c. ***Clear connector***

Gas Cylinder with Flow Regulator



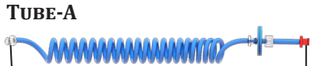
1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon IN*
2. *Put the cap on LEO gas inlet port labeled with icon IN*
3. *Connect the **red connector (b)** of Tube-A to the **green connector (c)** of Tube-B*
4. *Connect the **end of Tube-B** to the Calibration Gas Regulator*

   Use the fitting tubes and/or additional tube in order to allow the compatibility of the supplied tubing with the gas port of your gas cylinders.
5. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
6. *Open the Calibration Gas Regulator by using the valve*

   Set the flow rate value at maximum 0.4 l/min.
7. *Start the CO2 Zero Reset (refer to LEO User Manual, paragraph 13.4.2)*

⚠ *Do not connect purge tube without luer connector*

TUBE-A

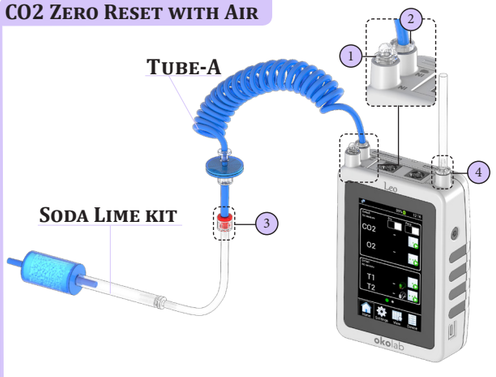


a. ***Clear connector*** b. ***Red connector***

TUBE-B

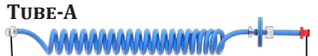
c. ***Green connector***

CO2 Zero Reset with Air



1. *Connect the **clear connector (a)** of Tube-A to LEO gas inlet port labeled with icon IN*
2. *Put the cap on LEO gas inlet port labeled with icon IN*
3. *Connect the **red connector (b)** of Tube-A to the **clear connector (c)** of Soda Lime Kit*
4. *Use the supplied female luer to connect a purge tube to LEO gas outlet port. Place the purge tube in a well ventileted environment*
5. *Start the CO2 Zero Reset (refer to LEO User Manual, paragraph 13.4.1)*

TUBE-A



a. ***Clear connector*** b. ***Red connector***

SODA LIME KIT

c. ***Clear connector***

⚠ *Do not use the Soda Lime Kit without Tube-A*

⚠ *Do not connect purge tube without luer connector*