



# CD8 Freeze Dryer Quick Installation Guide





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## Included with the CD8



KF25 Vacuum hose (1.5m)



KF25 Clamps and seal rings



Vacuum pump  
(If ordered)

IEC C13 Male  
to C14 Female  
(Included with  
Vacuum Pump)



Wall plug to IEC C13  
(Plug dependent on region)



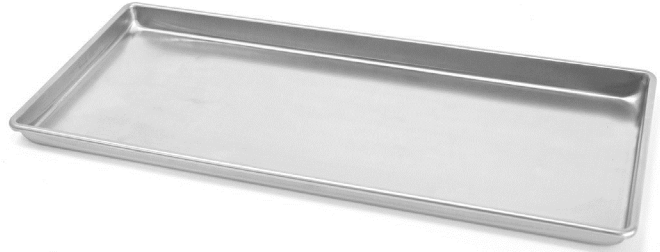
USB-A to USB-B  
Update Cable



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5 Stack Shelf



Trays



Drain valve gaskets



Tray Removal Tool



Drain hose



Drain hose connector



## Packing list

Unpack the equipment carefully and check for any damage which may have arisen during transport. In the event of identified damage, please contact support.

The package includes the following items:

Item	Quantity
CD8	1
Vacuum Pump	1 (if ordered)
Wall Plug to IEC C13	1
IEC C13 Male to C14 Female	1 (Included with Vacuum Pump)
KF25 Vacuum Hose (1.5m)	1
KF25 Hose Clamps	2
KF25 Hose Seal rings	2
Drain hose connector	1
Drain valve gasket	2 (1 spare)
USB-A to USB-B Update Cable	1
5 Stack Shelf	1
Tray	5
Tray removal tool	1

## Safety

### ATTENTION! (may affect operational performance or service life)



1. If there is any visible physical damage to the instrument, do not connect the instrument to a power supply. Contact support.
2. The power supply must be properly earthed.
3. Use the supplied power cable between CD8 and mains power supply.
4. The Environmental Specification for CD8 is between 10°C to 30°C and 10% to 80%, non-condensing.
5. CryoDry recommends an average room temperature of 25C with good ventilation.
6. CD8 must be placed on a suitable, level surface (see Assembly)



## Assembly

1. Unbox and remove all contents from the CD8 crate and Vacuum pump box.
2. With an assistant, move the CD8 onto a bench that is a minimum of 77cm x 75cm (DxW) and able to support the weight of the CD8 (~90 kg). Allow 20cm spacing around the instrument. CryoDry recommends an average room temperature of 25C with good ventilation.
3. Level the CD8 by adjusting the feet and gently lock the foot using the locking nut with a 14 mm spanner.



4. Bed the hose to the seal ring using the hose to anchor it in place, and then use 1 part of the clamp to hold it in place as you wrap the other part of the clamp around as illustrated. It is properly connected when the clamp is closed identical to the illustration with finger strength.

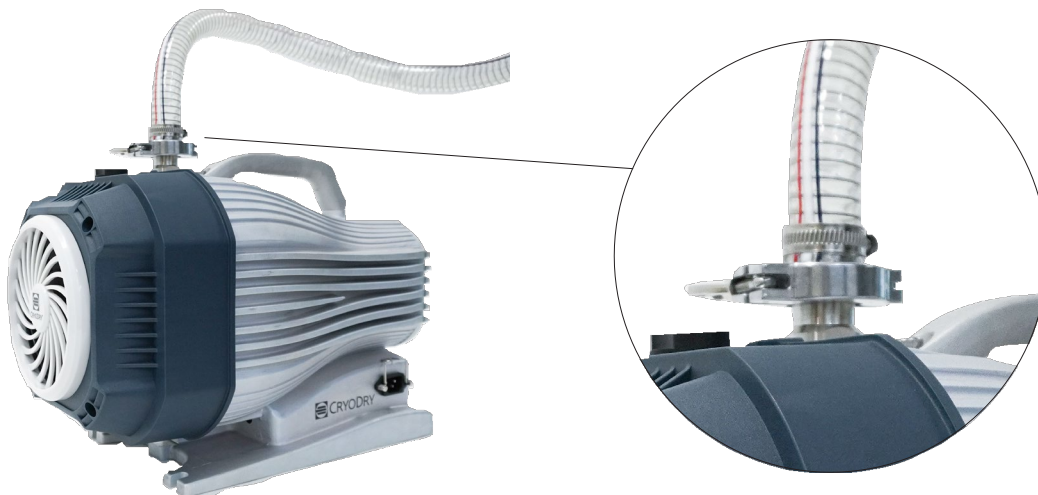




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5. Apply the same technique to the vacuum pump.



6. On the right side of the CD8, locate the power terminal. Insert the wall power plug into the CD8 power socket, and the other power cable from the Vacuum pump power socket to the vacuum pump.



CD8 power socket

Fuse (250VAC F15AL)

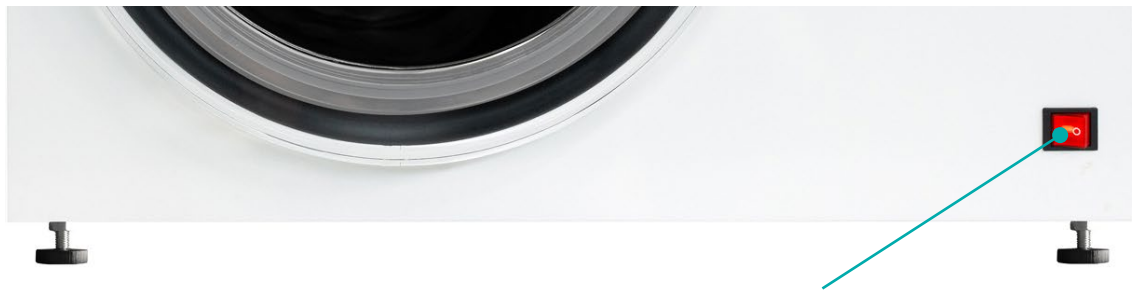
Vacuum pump power socket.

AC 120V, 12A, 50/60Hz  
AC 220-240V, 8A, 50/60Hz (Not for UL-mark)

AC120V, 50/60Hz, Max 2.8A  
AC220-240V, 50/60Hz, Max 1.6A (Not for UL-mark)



7. Turn the CD8 on using the main switch.



Main power switch

8. If using a Pfeiffer pump, please verify pump configuration in “Pfeiffer HiScroll Pump Configuration”.
9. Place the drain valve gasket on top of the drain hose connector and screw the hose connector onto the drain valve with finger tight strength



10. Optionally, insert the drain hose onto the drain hose connector
11. Verify the CD8 is properly sealed. Go onto the Manual screen, enable the compressor, vacuum valve, vacuum pump, and set the pressure setpoint to 0 mbar. Wait for about 30 minutes and see if pressure drops to less than 0.4 mbar. The vacuum pump should be much quieter after 1 minute of operation.

If the pump noise level is still the same after 1 minute of operation, verify that the drain valve is closed and tightly screwed on. Also check the hose clamps are finger tight and appear to wrap around nicely.

CD8 is now ready for operation. Please refer to the user’s manual.







## Pfeiffer HiScroll Pump Configuration

A video is available for this process. You can view it here: <https://www.youtube.com/watch?v=f9WEYjDiRR8>



Pfeiffer HiScroll pumps may not automatically start by default when powered on. First, verify that “Autostart mode” is enabled:

1. Turn on the Vacuum pump from the manual screen.
2. Verify that the Pfeiffer pump has power by observing lights near the buttons.
3. The pump will start within 10 seconds.

If the Pfeiffer pump does not automatically start, and there’s lights visible on the instrument, then “Autostart mode” needs to be enabled. This is done by performing the following:

1. Press and hold the power button  for 5 seconds. After releasing the button, the yellow LED should flash for 1 second confirming the command.
2. Repeat step 1.
3. Press the power button normally (without holding)  to start the pump.
4. Verify that it has worked by turning the pump off using the manual screen and turning it back on. The pump should automatically start up after a short period.
5. You can see the [instructional video here](#)

After performing these steps, the HiScroll pump will now start pumping each time it is powered on. If it doesn’t after 10 seconds, try repeating step 1 again.

Please note: If the pump is turned off using the power button , followed by a power cycle, it will not automatically start until the power button  is pressed again to enable it. There is no requirement to repeat the above steps.



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