

• VERTICAL GLASS DIFFUSION CELL - FRANZ CELLS

Our vertical glass diffusion cells are classic Franz cells. Standard orifice diameters are 5mm, 7mm, 9mm, 11.28mm, 15mm, 20mm and 25mm, other diameters are custom.

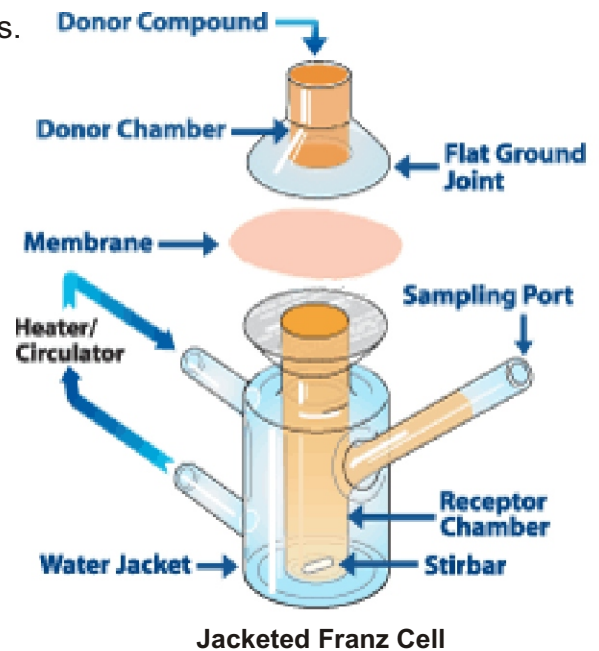
The word "orifice" as it refers to a Franz Cell is the area at the top of the receptor chamber that is exposed to the membrane or device through which transport or permeation is being studied. Corresponding volumes from 5ml to 20ml are standard.

There are minimum volumes, especially for jacketed cells. We welcome requests for custom cells!

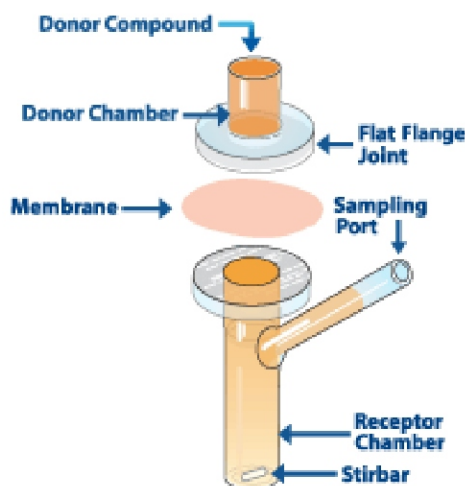
Clamping is achieved through standard o-ring joints, flat ground (*ground o-ring*) joints and flat flange joints.

Please note that for the most popular Franz Cell models we manufacture our own cell clamps. These clamps are all stainless steel and much easier to use than clamps from other suppliers.

Our Cell Stands are stainless steel assemblies designed to locate Franz cells over the stirring magnets in laboratory stirplates. These Cell Stands are convenient for holding any vertical cell with a 30mm heating jacket so it may be more easily handled with two free hands.



Jacketed Franz Cell



Unjacketed Franz Cell

Typical Dimensions

These dimensions are for standard Franz cells, the joints variety does not affect the volume.

We can modify most any of these parameters within the practical limits of blown glass.

Do not hesitate to inquire if your studies need something other than what is listed here.

The term "cell" for sales and pricing purposes includes the two glass components, the clamp for the joint, and the stirbar.

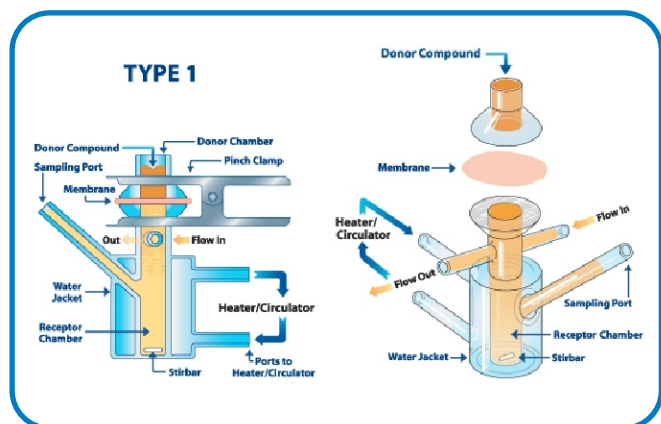


● FLOW TYPE FRANZ CELLS

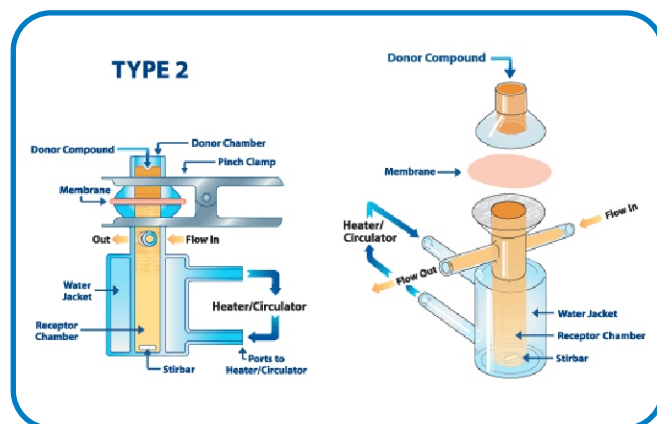
A flow type Franz cell is a standard Franz cell with additional porting for circulating receptor medium continuously through the receptor compartment of the cell. As with static Franz cells, flow porting may also be added to the donor compartment if needed. The phrases "flow thru", "flow cell", and "flow type" are used interchangeably and refer to flow only through the receptor compartment, and do not signify anything with respect to the heating jacket. The first five codes for ordering codes flow thru Franz cells are the same as for static cells. A sixth code, FT, is added to the end of the first five codes and the variety of flow porting is followed by donor codes. Receptor volumes for flow type cells are larger than for the static cells of the same orifice diameter because the distance between the top of the heating jacket and the bottom of the joint is greater to accommodate the arms for the flow work.

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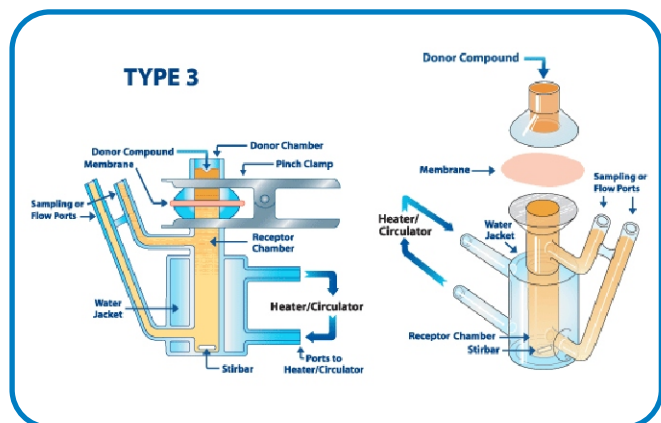
Flow thru Franz cells are currently available in four different varieties and are shown following:



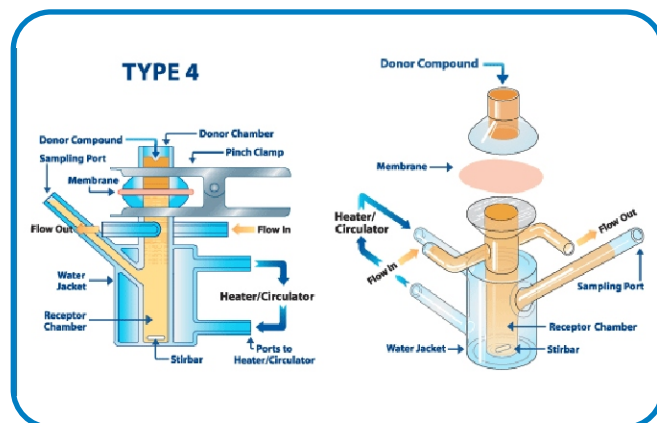
Flow Franz cells are like static Franz cells in that they have a sampling port as well as the flow ports. These cells may be provided with female luer fittings and luer stoppers on the ends of the flow ports so they can also be sampled through the sampling arm and therefore used as static cells if desired.



Flow Franz cells are just like Type 1 cells except that the manual sampling port is not present.



Flow Franz cells have both flow ports coming out toward the user from the front of the cell. Some researchers prefer this style of cell because the receptor fluid is circulated through the entire volume of the receptor compartment. Other researchers prefer the other types because they believe that the flow needs only to be directly under the membrane or device being studied to provide the necessary data.



Flow Franz cells are essentially the same as Type 1 cells except that the receptor input and output arms are made so the cells can be placed adjacent to one another in a V6 or V9-C Stirrer when used as a component in an automated system configuration.

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