DACA instruments

DoubleHelix Glass Mixer

10-10-01 version 1.5

DACA Instruments' DoubleHelix allows the rapid and effective mixing of fluids with relatively high viscosity. The glass container allows visual inspection of the mixing process while the INCONEL (high nickel alloy) coils are have superior corrosion resistance. Standard Rodaviss connectors in the glass vessel allow both threaded and tapered joints to be attached to the mixer. This allows the use of vacuum and high pressure seals over the rotating shaft (special seals not included).

The inner coil is attached to the bottom Teflon® plug and will not rotate during the operation of the mixer. The small coil has a small straight section on top that fits inside the shaft of the large coil and serves to keep the small coil centered inside the larger, rotating one.

The large coil is designed to rotate clockwise when viewed from the top. It is suggested that an rubber coupling devise be used to connect the shaft on the mixer to a variable speed motor in order to reduce stresses that might be caused by misalignment between the motor and the mixer.

The mixer can be placed in a heated oil bath to both heat the material being mixed and to aid observation of the process. The side port of the mixer can be used to load material into the mixer.

For particularly viscous materials, a separate handle has been provided to remove the material from the mixer. The removal procedure is as follows:

- Remove the top cap and unscrew the large coil from the mixture.
- Attach the cylindrical stainless steel handle to the straight portion of the small coil.
- Slowly pull the small coil and Teflon® plug out of the glass body. This should bring most of the mixed material out of the mixer.

If you experience any problem with the DoubleHelix mixer, please contact DACA Instruments for assistance.

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Note: The glass portion of this mixer is NOT covered by any warranty.