

**COLD WATER RHEOLOGY KIT
USING FANN MODEL 35
INSTRUCTIONS**

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This instruction is for both the 115 VAC (p/n 31753) and the 230 VAC (p/n 31754) Cold water Rheology Kits. The first requirement is that the power available matches the voltage labeled on the circulating chiller. Both the units will operate on either 50, or 60 herz: but the voltage must be correct amount – 110 to 120 VAC for the 31753, and 220 to 240 VAC for the 31574. The next recommendation is that the manufacturer's instruction for the circulating chiller be kept with the kit so that the user will have the directions on how to initiate cool down to a given set point and how to take care of the chiller.

The "In" and "Out" are labeled on the re-circulating chiller and the Inlet is labeled on the Fann Insulated Cup. The quick disconnects are alternated so that it cannot be connected improperly. Be certain that the insulating material remains on the tubing, and use the cup only with the jacket installed. Make certain that the Model 35 Rheometer operates properly with the jacketed cup in place.

It takes the chiller system about 30-45 minutes to take the sample below freezing. It is recommended that the sample be stirred at 100 RPM while cooling so that the temperature is constant throughout the sample volume. A thermometer (not included) will be required if accurate sample temperature measurements are required. If plus or minus one degree accuracy is OK then a Fann p/n N7903 for Degrees F of glass construction, or a Fann p/n N7904 for Degrees Celsius of glass construction , or a digital thermometer of p/n N8202 can be used. The temperature in the chiller reservoir is not the temperature of the sample, but will be at least two or more degrees colder.

When moving the chiller, the reservoir must be emptied. There is no drain on some units, so the coolant must be bailed out with the cup and dried with a sponge. The coolant make-up is approximately half and half ethylene glycol and distilled water. The coolant mix should be kept in a closed container when not in use as it oxidizes quickly and becomes bad otherwise. Also automotive coolant is not recommended as it puts undue wear on the circulating pump.

Parts List:

PART	DESCRIPTION	QTY
20211	Cup, Measuring, 500 ML	1
31363	Hose Clamp, 1/8 to 5/8 inches	8
31750	Jacket, Insulating for Sample Cup	1
31759	Cup, Double Walled, Circulating for Model 35 Viscometer	1
35294	Bath, Digital, Refrigerated Recirculating, 115 VAC OR	1
35295	Bath, Digital, Refrigerated Recirculating, 230 VAC	1
52717	Water, Distilled, one gallon	1
B1022	Case, 23 X 25 X 14 for Kit	1
B1023	Insert for Case for Kit	1
C6145	Quick Disconnect Female Coupling	2
C6146	Quick Disconnect Male Insert	2
C6117	Tubing Insulation, 3/8 ID by 7/9 OD	6
E1096	Instructions for Cold Water Test Kit	1
F5042	Ethylene Glycol, quart bottles, Industrial Grade	2
J6013	Tubing, Tygon ¼ ID with reinforcing stranding	6
N4201	Funnel, Plastic, 3 Inches across	1
N4608	Bottle, Plastic, one gallon with lid for refrigerant storage	1
N8500	Sponge, Cellulose, 5 inches across	1

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