

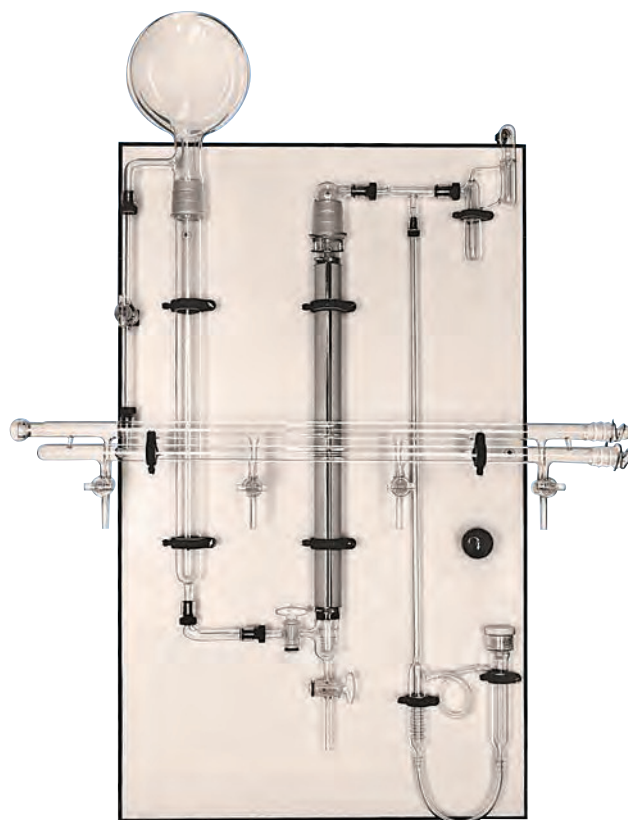
*This system is designed for maximum convenience and versatility in the handling of air-sensitive compounds in conjunction with ACE No-Air Labware or suitably adapted conventional glassware.*

Four two-way, high-vacuum stopcocks on a double-tube manifold permit convenient and rapid access to either vacuum (0.005 torr is common) or inert gas as required for simultaneous manipulations. The inert gas flow is controlled with a panel-mounted needle valve and is monitored with an oil bubbler that has a built-in overflow trap. Excess gas is vented to the atmosphere through the mercury bubbler-manometer which may be adjusted to control the over-pressure in the system. Traces of oxygen and carbon dioxide in the inert gas are removed by a BASF catalyst in a column that is coated with Instatherm® for convenient activation and regeneration of the catalyst. (Column holds approximately 0.5 Kg. of catalyst.) Residual moisture is removed from the inert gas by a drying agent\* (not supplied) in a second column.

Pressure surges are reduced by a three-liter bulb in the system. Threaded fittings with FETFE O-Rings are employed to facilitate assembly and disassembly, drying agent replacement, etc. The double tube manifold may be removed easily without contaminating the rest of the system and is supplied with  $\$24/40$  stoppers at the end of each manifold for rapid cleaning. All of these components are conveniently mounted on a 104 x 62cm wooden panel painted white for better observation of the equipment.

In addition to the panel-mounted system, as pictured, a supplemental vacuum line with two service stopcocks, a McLeod Gauge (8726-12) and a liquid nitrogen trap are supplied.

\*For Drierite, see 10175. Complete instructions on assembly, leak testing and preparation of the system are included.



## ACE-INERT ATMOSPHERE SYSTEM

Qty	Order Code
1	7818-10

### COMPONENTS

	Qty	Order Code		Qty	Order Code
MANIFOLD, Double Tube, with four Double Oblique Stopcocks, 4 mm	1	7818-24	◆	SUPPLEMENTAL VACUUM LINE, with McLeod Gauge*	1 7818-87 ◆
SURGE FLASK, 3 liter, $\$45/50$ outer & #11 Thread	1	7818-26	◆	ADAPTER, Conn. Hose, $\$35/25^*$	1 5217-35 ◆
CONNECTOR, Surge Flask, w/4 mm Stopcock	1	7818-28	◆	LIQUID NITROGEN TRAP, $\$35/25$ Joints*	1 7818-50 ◆
DRYING TOWER, $\$45/50$ Inner and #11 Thread	1	7818-30	◆	THERMOMETER, for Catalyst Column*	1 8294-15 ◆
ADAPTER CONNECTING, Drying Tower	1	7818-32	◆	STOPPER, $\$24/40$ (2)	1 8250-12 ◆
CATALYST COLUMN, two 4 mm Stopcocks and $\$45/50$ inner joint	1	7818-34	★	CLAMP, Split Ring, 19mm, (5) w/hardware	1 7818-52 ◆
CONNECTING CORD, Catalyst Column*	1	9698-16	★	CLAMP, Split Ring, 32mm, (4) w/hardware	1 7818-54 ◆
SCREEN SUPPORT, Catalyst Column*	1	7818-35	◆	BUSHING, For #11 Ace-Thred (6)	1 7506-02 ◆
ADAPTER, Catalyst Column, $\$45/50$ outer and #11 Ace-Thred	1	7818-36	◆	BUSHING, For #7 Ace-Thred (2)	1 5029-10 ◆
ADAPTER, Bubbler-Manometer	1	7818-38	◆	VALVE, Needle, Whitey*	1 7818-56 ★
BUBBLER-MANOMETER	1	7818-39	◆	Tubing, Copper, Soft .9m, 6.4mm (1/4-inch)*	1 7818-58 ★
MERCURY RESERVOIR, #25 Ace-Thred	1	7818-42	◆	BASF Catalyst, 1 Kg. Pkg.*	1 Kg. 7818-60 ★
PLUG, for Mercury Reservoir	1	7818-44	◆	CLAMP, Joint, $\$24/40$	10 7598-24 ★
BUBBLER & TRAP, #7 Ace-Thred	1	7818-46	◆	CLAMP, Joint, $\$45/50$	10 7598-45 ★
ADAPTER, Connecting, Vacuum Hose, $\$35/25$ ball	1	7818-70	◆	CLAMP, Joint, $\$28/15$	1 7669-12 ★
				CLAMP, Joint, $\$35/25$ (3)	1 7669-14 ★
				CLAMP, Joint, $\$65/40$	1 7669-20 ★
				BOARD, Painted White	1 7818-65 ★