

## OSC 77FD520TH Basic Refrigeration System

### <Features>

- This unit is used for demonstration of a normal household refrigerator operation
- Individual components are clearly shown
- Temperatures and pressures at various points are indicated
- Sight glasses are provided to indicate the state of the refrigerant



### <Typical Experiments>

- Study of layout and process diagram
- Observation of pressures and temperatures
- Using a p-h state diagram

### <Specifications>

Model	OSC 77FD 520TH
Compressor	Hermetic, 115W
Condenser	Finned tubes
Refrigerant	R134a
Sight glass	3 ea at compressor exit, condenser exit and expansion valve inlet
Pressure gauge	2 ea at compressor inlet and exit
Thermocouple	5 ea at evaporator inlet and exit, condenser exit, after expansion valve and in refrigerator
Temperature indicator	1 ea
Power supply	220V 1Ph 50Hz. Other power supply is available on request
Size (WxLxH)	Approx. 500 x 950 x 350 mm
Weight	Approx. 48 kg

## OSC 77FD610TH Tray Dryer

### <Features>

- This unit is for studying tray drying
- The unit consists of a rectangular duct
- Air is drawn into the duct by an axial flow fan at the front end of the duct
- Fan speed is adjustable
- A bank of electric heaters behind the fan raises air temperature



### <Typical Experiments>

- Tray drier drying curves
- Effect of particle size, air velocity, air temperature

### <Specifications>

Model	OSC 77FD 610TH
Duct section	30x30 cm
Drying section length	40 cm
Air velocity	0.3 ~ 1.8 m/s
Heater capacity	3kW, variable
Tray	4 ea, stainless steel
Tray capacity	3kg of solids (approx.)
Digital balance	5 kg, 1g reading
Anemometer	0 ~ 10 m/s
Power supply	220V 1Ph 50Hz. Other power supply is available on request
Size (W x L x H)	Approx. 600x2500x1200mm
Weight	Approx. 240 kg

