

## Product Code

UTC-4820 Motorized (Semi-Automatic) Hydraulic Power Pack  
UTC-4920LP LPI Battery Operated Digital Read-Out Unit

|                                     |            |
|-------------------------------------|------------|
| Models for 220-240V 50-60 Hz, 1 ph. | UTC-4820   |
| Models for 110-120V 60 Hz, 1 ph.    | UTC-4820-N |

The UTC-4820 Motorized (Semi-Automatic) Power Pack, controlled by a pressure rate control valve is designed to supply the required oil to the load frames for loading. The power pack can load different frames with required pace rates. A rapid approach pump is supplied as standard. The power pack is equipped with a safety valve (maximum pressure valve) to avoid machine overloading. Maximum working pressure of the system is 400 bar.

UTC-4920LP is used with UTC-4820 Motorized (Semi-Automatic) Hydraulic Power Pack for reading the applied load by pressure transducer during the compression tests. Please see the page of UTC-4920LP "LPI Battery Operated Digital Read-Out Unit" for details of the properties.

UTC-4920LP Unit should be ordered separately.

### DUAL STAGE PUMP

- Low pressure gear pump
- High pressure durable variable output pump

On the dual stage pump, a high delivery low pressure gear pump is used for rapid approach, while a low delivery high pressure durable variable output pump is used for test execution. Rapid approach property of the machine shortens the time interval from when the piston starts moving until the upper platen touches the specimen and helps to save a great amount of time in a busy test laboratory.

### MOTOR

- Dual pump is driven by an AC motor
- 220 V (110 V), 50-60 Hz single phase and 550 W

### DISTRIBUTION BLOCK

- Safety valve (maximum pressure valve)
- Pressure relief valve

A distribution block is used to control the oil flow direction supplied by the dual stage pump which has the safety valve and pressure relief valve mounted upon it.

### OIL TANK

The tank (20 L capacity) includes enough oil to fill the mechanism which pushes the ram during the test. The level and oil temperature can be seen on the indicator fitted to the tank. Hydraulic motor oil number 46, must be used.

### SAFETY FEATURES

- Maximum pressure valves to avoid machine overloading



UTC-4820 with UTC-4920

|                  |                |
|------------------|----------------|
| Dimensions       | 300x420x850 mm |
| Weight (approx.) | 70 kg          |
| Power            | 550 W          |