UTEST
MATERIAL TESTING EQUIPMENT

CONCRETE

Compression and Flexural Testing Machines

AUTOMATIC HYDRAULIC POWER PACKS

Product Code

UTC-4830FPR	Automatic Hydraulic Power Pack with U-Touch PRO Control Unit
UTC-4840FPR	High Oil Capacity Automatic Hydraulic Power Pack with U-Touch PRO Control Unit for the Frames with Double Ended Pistons
UTC-4841FPR	High Oil Capacity Automatic Hydraulic Power Pack with U-Touch PRO Control Unit for the Frames with Single Ended Pistons

Models for 220-240V 50-60 Hz, 1 ph.		
UTC-4830FPR	UTC-4840FPR	UTC-4841FPR

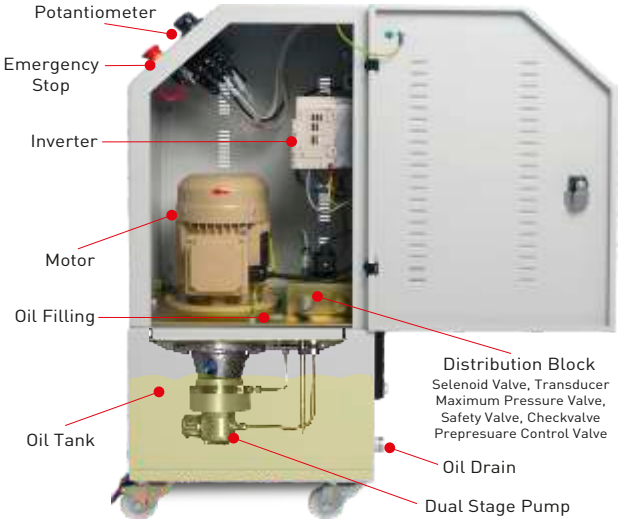
Models for 110-120V 60 Hz, 1 ph.		
UTC-4830FPR-N	UTC-4840FPR-N	UTC-4841FPR-N

UTC - 4830.FPR

UTC - 4840.FPR

The UTC-4830FPR Automatic Hydraulic Power Pack, dual stage, controlled by U-Touch PRO Control Unit is designed to supply the required oil to the load frames for loading. The power pack is very silent, even at full load A rapid approach pump is supplied as standard. A safety valve (maximum pressure valve) is used to avoid machine overloading.

The UTC-4840FPR and UTC-4841FPR have the same specifications with UTC-4830FPR except for high oil capacity. As the name suggests, UTC-4840FPR is used with the frames with double ended pistons and UTC-4841FPR is used with the frames with single ended pistons.



DUAL STAGE PUMP

1. Low pressure gear pump
2. High pressure durable variable output pump

On the dual stage pump, a high delivery low pressure gear pump is used for rapid approach, while low delivery high pressure radial piston pump is used for test execution. Rapid approach facility of the machine shortens the time interval from when the piston starts moving until the upper platen touches to the specimen, this facility saves a great amount of time in a busy test laboratory.

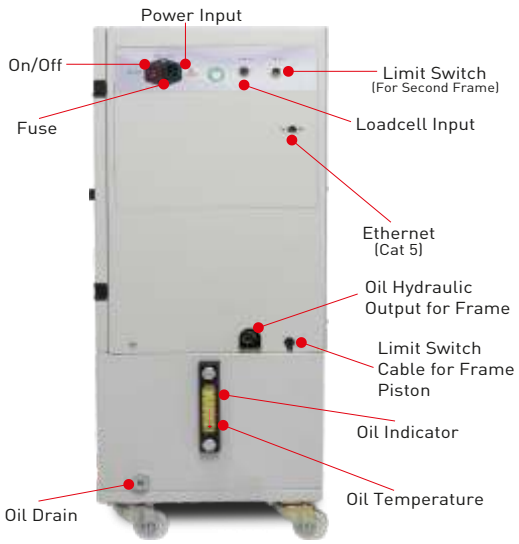
MOTOR

The motor which drives the dual pump is a 0.75 kW AC motor which is controlled by an Omron J7 motor inverter. The variation in the oil flow is executed with the variation of the rotation speed of the motor.

DISTRIBUTION BLOCK

Distribution block is used to control the oil flow direction supplied by the dual stage pump and the following hydraulic components are fitted to it:

a - Solenoid valve
b - Safety valve (maximum pressure valve)
c - Transducer
d - Low pressure gear pump
e - High pressure radial piston pump



OIL TANK

The tank 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. The oil capacity of the tank is 20 lt. for UTC-4830FPR and and 32 lt. for UTC-4840 FPR. Hydraulic motor oil, number 46, must be used.

PLEASE see the pages of "U-Touch PRO Control Unit UTC-4930.FPR" for details of the properties.

	UTC-4830FPR	UTC-4840FPR
Dimensions	370x400x920 mm	605x455x1015 mm
Weight (approx.)	85 kg	150 kg
Power	1000 W	1000 W

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