



CFU

INTERNATIONAL TRADE
& SERVICES INC.

General Testing Equipments

Some testing equipment is used widely in all laboratories but they are not included in main application area. Some of this general equipments are used as a part of other testing devices. Sieves, measuring instruments, glassware, plastic ware, hardware, coring machines, water baths, compressors, vacuum pumps ...etc. are included in general category.

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GENERAL LABORATORY EQUIPMENT

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- General Hardware
- Vacuum Pumps
- Air Compressor
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- Water Baths
- Miscellaneous
- Mobile Lab

LOAD CELLS & LOAD RINGS

Product Code

CFGM-1140	Load Cell 300 kN Capacity, S Type
CFGM-1160	Load Cell 1 kN Capacity, S Type
CFGM-1170	Load Cell 2 kN Capacity, S Type
CFGM-1180	Load Cell 5 kN Capacity, S Type
CFGM-1190	Load Cell 10 kN Capacity, Pancake Type
CFGM-1200	Load Cell 20 kN Capacity, Pancake Type
CFGM-1210	Load Cell 50 kN Capacity, Pancake Type
CFGM-1230	Load Cell 100 kN Capacity, Pancake Type
CFGM-1240	Load Cell 300 kN Capacity, Pancake Type
CFGM-1260	Load Cell 600 kN Capacity, Pancake Type
CFGM-1280	Load Cell 1000 kN Capacity, Pancake Type
CFGM-1310	Load Ring 1 kN Capacity
CFGM-1330	Load Ring 5 kN Capacity
CFGM-1340	Load Ring 10 kN Capacity
CFGM-1350	Load Ring 50 kN Capacity
CFGM-1420	Pressure Transducer, 2000 kPa
CFGM-1440	Pressure Transducer, 600 bar, 0-100 mV



CFGM-1210



CFGM-1240



CFGM-1180



CFGM-1350

A load cell is a transducer which is used to convert the applied force to electric signal. CFU supplies high quality strain gauge load cells which provide accurate electrical signal proportional to the applied load.

Load cells with different types and capacities and load ring with different capacity are available. Load Rings are used with testing machines to measure the applied load.

CFU Load Rings are supplied complete with 0.001mm resolution digital dial gauges. They are supplied complete with 0.001mm resolution digital dial gauges.

INTERFACE / DATA ACQUISITION UNITS

Product Code

CFCU-0320	Interface Unit with 4 Channel for Data Acquisition
CFCU-0325	Interface Unit with 8 Channel for Data Acquisition
CFCU-0330	Advanced Interface Unit with 4 Channel for Data Acquisition
CFCU-0370	Datalogger, 4 Channel for Data Acquisition and Record

Interface Units are a sophisticated data acquisition unit which provides the link between software and the transducers connected to the test equipments.

CFCU-0320 Interface Unit is used at triaxial tests and consolidation tests or for general data collecting purposes.

The main characteristics of CFCU-0320 and CFCU-0325 are:

- 4 channel CFCU-0320 model
- 8 channel CFCU-0325 model
- High resolution : 16M points (effective 260.000 points)
- Large permanent memory
- Ethernet port for PC connection
- CPU card by microprocessor 32 bit ARM risk architecture
- 10 (sample/sec) / channel
- 24 bit A/D Converter (260.000 effective divisions),
- Digital gain selection, suitable for potentiometric transducers
- mv/V Sensors (pressure transducers, load cells, linear transducers)
- 4 Mb Memory

CFCU-0330 Interface Unit has 4 channel for data acquisition and suitable for strain gauges and strain gauge type transducers (Pressure, force, displacement, vb.). A/D converter is 24 bit. 1 micro strain resolution. Max sampling frequency 10 kHz.

CFCU-0370 Datalogger, 4 channel data acquisition and recorder unit, 32 bit, analog input, output and an encoder input. Can be connected DC voltage, current, strain gauge, rasiyometrik and resistance, thermocouple, RTD (PT100 and PT1000) type sensors. Max sampling frequency 1 kHz. A/D converter.

The following free CFU Softwares are supplied with Sensor Interface Units and the Datalogger.

- CSOFT-0320 Software for CFCU-0320
- CSOFT-0325 Software for CFCU-0325
- CSOFT-0330 Software for CFCU-0330
- CSOFT-0370 Software for CFCU-0370



CFCU-0320



CFCU-0325



CFCU-0330



CFCU-0370

DISPLACEMENT TRANSDUCERS & DIAL GAUGES

Product Code

CFGM-0060	Linear Potentiometric Displacement Transducer (LPDT), travel 10 mm, nominal resistance 1k Ω
CFGM-0062	Linear Potentiometric Displacement Transducer (LPDT), travel 25 mm, nominal resistance 1k Ω
CFGM-0064	Linear Potentiometric Displacement Transducer (LPDT), travel 50 mm, nominal resistance 5k Ω
CFGM-0066	Linear Potentiometric Displacement Transducer (LPDT), travel 100 mm, nominal resistance 5k Ω
CFGM-0068	Linear Potentiometric Displacement Transducer (LPDT), travel 300 mm, nominal resistance 5k Ω
CFGM-0070	High Accurate Strain Gage Based Displacement Transducer, 5 mm
CFGM-0072	High Accurate Strain Gage Based Displacement Transducer, 10 mm
CFGM-0078	High Accurate Strain Gage Based Displacement Transducer, 50 mm
CFGM-0079	High Accurate Strain Gage Based Displacement Transducer, 100 mm
CFC-5514	Crack Mouth Opening Displacement (CMOD) Transducer, Opening Range 7 mm, Gauge Length 5 mm
CFGM-0120	Analog Dial Gauge 30 x 0.01 mm, 0-100 Scale, Clockwise
CFGM-0132	Analog Dial Gauge 50 x 0.01 mm, 0-100 Scale, Clockwise
CFGM-0148	Digital Dial Gauge 25 x 0.01 mm, LCD Display, Data Output
CFGM-0152	Digital Dial Gauge 12.7 x 0.001 mm, LCD Display, Data Output
CFGM-0180	General Purpose Strain Gauge, 10 mm
CFGM-0184	General Purpose Strain Gauge, 30 mm
CFGM-0186	Connection cable for strain gauge, 1 m
CFGM-0188	Adhesive for Strain Gauge (1 Package=10 g)

Linear Potentiometric Displacement Transducer (LPDT) provides an electric signal proportional to the linear shaft displacement. CFU supplies high quality Linear Potentiometric Transducers from 10 mm to 300 mm travel range for precise and accurate linear displacement measurements in material testing.

Dial Gauges are essential instruments that are used to measure accurately very small and diminutive liner distances. CFU offers Analog and Digital Dial Gauge models according to specific applications.

High Accurate Strain Gage Based Displacement Transducer provide 5 mV/V electrical signal to data acquisition units. For long life stability it must be preferred.



CFG-0070



CFG-0060



CFG-0068



CFG-0120



CFG-0152



CFG-0148

LENGTH MEASUREMENT

Product Code

- CFGM-0202 Engineers Square (Knife Edge) 150-100 mm
- CFGM-0203 Engineers Square (Knife Edge) 150-100 mm with a Calibration Certificate from an Accredited Laboratory
- CFGM-0205 Engineers Square with Base 300-175 mm
- CFGM-0206 Engineers Square with Base 300-175 mm with a Calibration Certificate from an Accredited Laboratory
- CFGM-0207 Straightedge (Knife Edge) 150 mm
- CFGM-0208 Straightedge (Knife Edge) 150 mm with a Calibration Certificate from an Accredited Laboratory
- CFGM-0209 Straightedge (Knife Edge) 200 mm
- CFGM-0210 Straightedge (Knife Edge) 200 mm with a Calibration Certificate from an Accredited Laboratory
- CFGM-0211 Straightedge (Knife Edge) 300 mm
- CFGM-0212 Straightedge (Knife Edge) 300 mm with a Calibration Certificate from an Accredited Laboratory
- CFGM-0215 Set of Feeler Gauges from 0.03mm to 1.00mm
- CFGM-0220 Set of Feeler Gauges 20 pieces, Range: 0.05-1.00 [0.05 mm Interval] Length: 300 mm
- CFGM-0375 Steel Ruler 150x1 mm
- CFGM-0380 Steel Ruler 300x1 mm
- CFGM-0381 Steel Ruler 300x0,5 mm
- CFGM-0385 Steel Ruler 500x1 mm
- CFGM-0386 Steel Ruler 500x0,5 mm
- CFGM-0390 Steel Ruler 1000x0,5 mm

CFU supplies various analog and digital instruments for length measurement and evaluation.

Engineers Squares are useful instruments for setting up and checking machines and projects for high accuracy.

Set of Feeler Gauges is a tool used to measure gap widths which are used in engineering to measure the clearance between two parts.

CFU Steel Rulers come in rigid and flexible versions.

Although their primary purpose is accurate measurement, they can also be used as guides for laying out lines, and if rigid enough, for cutting.



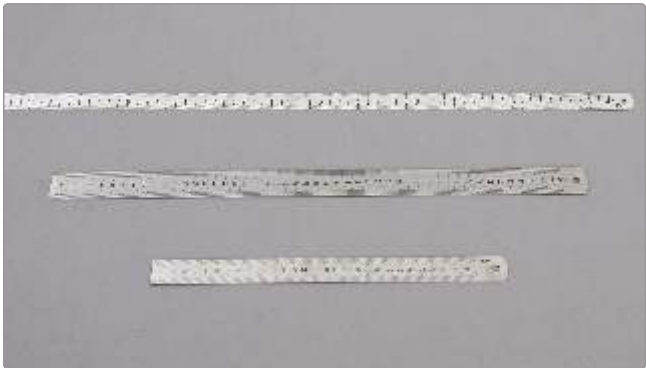
CFGM-0215



CFGM-0208



CFGM-0202



Steel Rulers

Product Code	Description	Dimensions	Weight
CFGM-0202	Engineers Square (Knife Edge) 150-100 mm	150x120x50 mm	0.3 kg
CFGM-0205	Engineers Square with Base 300-175 mm	300x175x60 mm	0.3 kg
CFGM-0207	Straightedge (Knife Edge) 150 mm	150x30x20 mm	0.2 kg
CFGM-0209	Straightedge (Knife Edge) 200 mm	200x30x20 mm	0.2 kg
CFGM-0211	Straightedge (Knife Edge) 300 mm	300x30x20 mm	0.3 kg
CFGM-0215	Set of Feeler Gauges from 0.03mm to 1.00 mm, 32 pieces, lenght: 100mm	30x30x100 mm	0.2 kg
CFGM-0220	Set of Feeler Gauges 20 pieces, Range: 0.05-1.00 [0.05 mm Interval] Lenght: 300 mm	30x30x300 mm	0.2 kg
CFGM-0375	Steel Ruler 150x1 mm	150x30x0.5 mm	0.2 kg
CFGM-0380	Steel Ruler 300x1 mm	300x30x0.5 mm	0.2 kg
CFGM-0381	Steel Ruler 300x0.5 mm	300x30x0.5 mm	0.2 kg
CFGM-0385	Steel Ruler 500x1 mm	500x30x0.5 mm	0.2 kg
CFGM-0386	Steel Ruler 500x0.5 mm	500x30x0.5 mm	0.2 kg
CFGM-0390	Steel Ruler 1000x1 mm	1000x30x0.50 mm	0.2 kg

LENGTH MEASUREMENT

Product Code

- CFGM-0300 Caliper 150 mm
- CFGM-0305 Caliper 300 mm
- CFGM-0310 Caliper 500 mm
- CFGM-0315 Caliper 600 mm
- CFGM-0320 Caliper 1000 mm
- CFGM-0350 Digital Caliper 150 mm
- CFGM-0351 Digital Caliper 150 mm with DIN 862
- CFGM-0355 Digital Caliper 200 mm
- CFGM-0356 Digital Caliper 200 mm with DIN 862
- CFGM-0360 Digital Caliper 300 mm
- CFGM-0361 Digital Caliper 300 mm with DIN 862
- CFGM-0365 Digital Caliper 500 mm
- CFGM-0366 Digital Caliper 500 mm with DIN 862
- CFGM-0420 Steel Tape 5 m
- CFGM-0430 Micrometer 25-50 x 0.01 mm, Analog Type
- CFGM-0440 Micrometer 25-50 x 0.001 mm, Analog Type

Calipers are useful devices for material testing applications which are used to measure the distance between two opposing sides of an object when used in combination with a ruler. CFU offers Analog and Digital Calipers covering a range of 150 mm - 1000 mm.

A Micrometer, sometimes known as a micrometer screw gauge, is a device incorporating a calibrated screw used widely for precise measurement of small distances. CFU offers a high quality analog micrometer 25-50 scale with 0.001 mm readability.



CFGM-0300



CFGM-0350



CFGM-0420



CFGM-0440



CFGM-0360

Product Code	Description	Dimensions	Weight
CFGM-0300	Caliper 150 mm	150x100x50 mm	0.5 kg
CFGM-0305	Caliper 300 mm	300x100x50 mm	0.5 kg
CFGM-0310	Caliper 500 mm	500x100x50 mm	0.5 kg
CFGM-0315	Caliper 600 mm	600x100x50 mm	0.5 kg
CFGM-0320	Caliper 1000 mm	1000x100x50 mm	0.75 kg
CFGM-0350	Digital Caliper 150 mm	150x100x50 mm	0.75 kg
CFGM-0351	Digital Caliper 150 mm with DIN 862 Calibration Certificate	150x100x50 mm	0.75 kg
CFGM-0355	Digital Caliper 200 mm	200x100x50 mm	0.75 kg
CFGM-0356	Digital Caliper 200 mm with DIN 862 Calibration Certificate	200x100x50 mm	0.75 kg
CFGM-0360	Digital Caliper 300 mm	300x100x50 mm	0.75 kg
CFGM-0361	Digital Caliper 300 mm with DIN 862 Calibration Certificate	300x100x50 mm	0.75 kg
CFGM-0365	Digital Caliper 500 mm	500x100x50 mm	0.2 kg
CFGM-0366	Digital Caliper 500 mm with DIN 862 Calibration Certificate	500x100x50 mm	0.2 kg
CFGM-0420	Steel Tape 5 m	50x50x50 mm	0.2 kg
CFGM-0430	Micrometer 25-50x0.01 mm Analog Type	150x150x100 mm	0.2 kg
CFGM-0440	Micrometer 25-50x0.001 mm Analog Type	150x150x100 mm	0.2 kg

TEMPERATURE & TIME MEASUREMENT

Product Code

- CFGT-1205 Digital Thermometer Immersion Type -50°C to +300°C
- CFGT-1230 Digital Max-Min Thermometer -40 to +50°C
- CFGT-1240 Digital Thermo-Hygrometer, Max-Min Thermometer
- CFGT-1250 Digital Laser Thermometer -50°C to +650°C
- CFGT-1300 Glass Thermometer Max. 60°C
- CFGT-1305 Glass Thermometer Max. 110°C
- CFGT-1310 Glass Thermometer Max. 160°C
- CFGT-1315 Glass Thermometer Max. 250°C
- CFGT-1320 Glass Thermometer Max. 310°C
- CFGT-1325 Glass Thermometer Max. 360°C
- CFGT-1330 Glass Thermometer Max. 400°C
- CFGT-1350 Hand Type Digital Thermometer, -50°C to 1350°C
- CFGT-1352 Temperature Datalogger, 4 Channel Digital Display
- CFGT-1355 Connector, Type: OMTS-K-E for CFGT-1350
- CFGT-1360 Cable, Type: E-0,5 T2KTTEA. Meter for CFGT-1350
- CFGT-1370 200 mm Penetration Probe for Asphalt Temperature Mesurement
- CFGT-1371 300 mm Penetration Probe for Asphalt Temperature Mesurement
- CFGT-1372 500 mm Penetration Probe for Asphalt Temperature Mesurement

CFU supplies high quality digital and glass thermometers for various applications in the construction industry.

CFGT-1350, CFGT-1352, CFGT-1355 ve CFGT-1360 are used for monotoring of temperature development of mass concrete. The number of measurement points for connectors and the cable length needed for each measurement point should be indicated. The products should be ordered seperately.

CFGT-1352 4 Channel Digital Display Temperature Datalogger is an alternative to CFGT-1350 and can record continuously in the time interval selected by the user. The datalogger has -195°C to +1000°C temp. measurement range for K Type sensors, 1s – 24h data record range and 2 million data recording capacity. Battery operated data logger is supplied com̄plete with accessories such as cable for connecting to PC, software, SD card (for collecting the measurement).

Digital thermometer and penetration probes are used together for measuring the delivery and compaction temperatures of bituminous mixtures. Preffered penetration probe should be ordered with CFGT- 1350.



CFGT-1230



CFGT-1352

CAUTION

Please check the laws in your country before ordering mercury thermometers. There may restriction on their sale and shipment for the thermometers contains mercury.



CFGT-1205



CFGT-1250



Glass Thermometers



CFGT-1240

Product Code	Dimensions	Weight
CFGT-1205	150x150x150 mm	0.2 kg
CFGT-1230	150x150x150 mm	0.2 kg
CFGT-1240	150x150x150 mm	0.2 kg
CFGT-1250	100x100x100 mm	0.2 kg
CFGT-1300	30x30x300 mm	0.1 kg
CFGT-1305	30x30x300 mm	0.1 kg
CFGT-1310	30x30x300 mm	0.1 kg
CFGT-1315	30x30x300 mm	0.1 kg
CFGT-1320	30x30x300 mm	0.1 kg
CFGT-1325	30x30x300 mm	0.1 kg
CFGT-1330	30x30x300 mm	0.1 kg
CFGT-1350	150x80x40	0.3 kg
CFGT-1352	150x80x40	0.3 kg
CFGT-1355	20x10x5	0.01 kg
CFGT-1360	100x100x5	0.01 kg
CFGT-1370	350x50x30	0.5 kg
CFGT-1371	400x50x30	0.5 kg
CFGT-1372	650x50x30	0.6 kg

TEMPERATURE & TIME MEASUREMENT

Product Code

CFGT-1430	Viscosity Thermometer +19 to +27°C 0.1°C Div., ASTM 17C
CFGT-1432	Viscosity Thermometer +34 to +42°C 0.1°C Div., ASTM 18C
CFGT-1434	Viscosity Thermometer +49 to +57°C 0.1°C Div., ASTM 19C
CFGT-1436	Viscosity Thermometer +57 to +65°C 0.1°C Div., ASTM 20C
CFGT-1438	Viscosity Thermometer +79 to +87°C 0.1°C Div., ASTM 21C
CFGT-1440	Viscosity Thermometer +95 to +103°C 0.1°C Div., ASTM 22C
CFGT-1500	Mechanical Hygrometer/Thermometer/Barometer
CFGT-1520	Mechanical Hygrometer
CFGT-1550	Mechanical Dial Thermometer 0 to +260°C
CFGT-1580	Digital Stop Watch

CFU Viscosity Thermometers are used for UTAS-0300 Saybolt Two-Tube Digital Viscometer in order to determine the Saybolt Viscosity of petroleum products at specified temperatures where accurate temperature measurements are required.

CFGT-1500 Mechanical Hygrometer/Thermometer/Barometer is a reliable and useful instrument to monitor the humidity, temperature and the atmospheric pressure simultaneously.

CFGT-1520 Mechanical Hygrometer is reliable instrument for measuring the humidity of the ambient air and CFGT- 1550 Mechanical Dial Thermometer provides accurate temperature measurements especially at high temperatures up to 260°C.

CFGT-1580 Digital Stop Watch is designed for accurate time measurements with 0.01 second sensitivity.



Viscosity Thermometers



CFGT-1520



CFGT-1550



CFGT-1500



CFGT-1580

Product Code	Description	ASTM Ref.	IP Ref.	Dimensions	Weight
CFGT-1430	Viscosity Thermometer +19 to +27°C 0.1°C Div.	17 C	-	30x30x300 mm	0.1 kg
CFGT-1432	Viscosity Thermometer +34 to +42°C 0.1°C Div.	18 C	23 C	30x30x300 mm	0.1 kg
CFGT-1434	Viscosity Thermometer +49 to +57°C 0.1°C Div.	19 C	-	30x30x300 mm	0.1 kg
CFGT-1436	Viscosity Thermometer +57 to +65°C 0.1°C Div.	20 C	-	30x30x300 mm	0.1 kg
CFGT-1438	Viscosity Thermometer +79 to +87°C 0.1°C Div.	21 C	-	30x30x300 mm	0.1 kg
CFGT-1440	Viscosity Thermometer +95 to +103°C 0.1°C Div.	22 C	24 C	30x30x300 mm	0.1 kg
CFGT-1500	Mechanical Hygrometer/Thermometer/Barometer	-	-	150x150x150 mm	0.2 kg
CFGT-1520	Mechanical Hygrometer	-	-	150x150x150 mm	0.2 kg
CFGT-1550	Mechanical Dial Thermometer 0 to +260°C	-	-	50x50x200 mm	0.2 kg
CFGT-1580	Digital Stop Watch	-	-	75x65x25 mm	0.1 kg

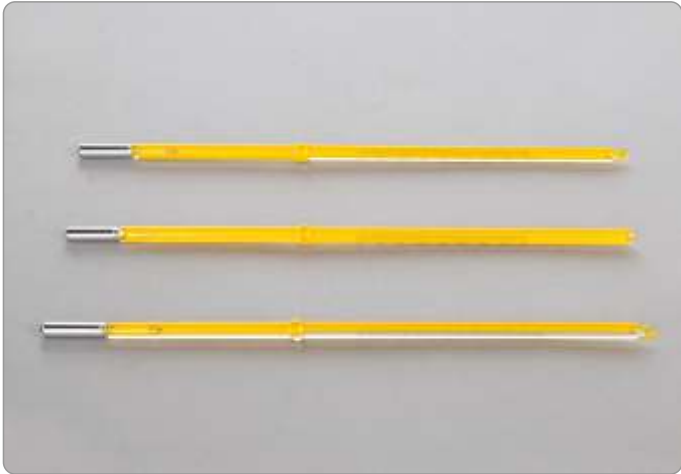
IP & ASTM THERMOMETERS

CFU supplies ASTM and IP Thermometers listed below which are in accordance with the specifications of the American Society for Testing and Materials (ASTM), Institute of Petroleum (IP) and British Standards (BS).

While these thermometers were designed for use in specific tests many of them are used in other applications when precision thermometers are required.

CAUTION

Please check the laws in your country before ordering mercury thermometers. There may restriction on their sale and shipment for the thermometers contains mercury.



Product Code	IP Ref.	ASTM Ref.	Range (°C)	Graduation	Immersion	Dimensions	Weight
CFGT-2000	38C	-	23 to 27	0.1 °C	Total	30x30x300 mm	0.1 kg
CFGT-2005	76C	-	10 to 55	0.5 °C	93 mm	30x30x300 mm	0.1 kg
CFGT-2010	8C	-	0 to 44	0.2 °C	65 mm	30x30x300 mm	0.1 kg
CFGT-2015	42C	-	-38 to +30	0.5 °C	250 mm	30x30x300 mm	0.1 kg
CFGT-2020	5C	7C	-2 to 300	1 °C	Total	30x30x300 mm	0.1 kg
CFGT-2025	6C	8C	-2 to 400	1 °C	Total	30x30x300 mm	0.1 kg
CFGT-2030	15C	9C	-5 to 110	0.5 °C	57 mm	30x30x300 mm	0.1 kg
CFGT-2035	16C	10C	90 to 370	2 °C	57 mm	30x30x300 mm	0.1 kg
CFGT-2040	28C	11C	-6 to 400	2.0 °C	Total	30x30x300 mm	0.1 kg
CFGT-2045	47C	13C	155 to 170	0.5 °C	Total	30x30x300 mm	0.1 kg
CFGT-2050	60C	15C	-2 to 80	0.2 °C	Total	30x30x300 mm	0.1 kg
CFGT-2055	61C	16C	30 to 200	0.5 °C	Total	30x30x300 mm	0.1 kg
CFGT-2057	-	17C	19 to 27	0.1 °C	Total	30x30x300 mm	0.1 kg
CFGT-2065	20C	33C	-38 o 42	0.2 °C	50 mm	30x30x300 mm	0.1 kg
CFGT-2070	59C	35C	90 to 170	0.2 °C	50 mm	30x30x300 mm	0.1 kg
CFGT-2075	35C	47C	58.6 to 61.4	0.05 °C	Total	30x30x300 mm	0.1 kg
CFGT-2080	-	57C	-20 to 50	0.5 °C	Total	30x30x300 mm	0.1 kg
CFGT-2085	63C	63C	-8 to 32	0.1 °C	Total	30x30x300 mm	0.1 kg
CFGT-2090	93C	110C	133.6 to 136.4	0.05 °C	Total	30x30x300 mm	0.1 kg
CFGT-2095	89C	113C	-1 to 175	0.5 °C	Total	30x30x300 mm	0.1 kg

UNIVERSAL CORING MACHINES

Product Code

CFGD-0290	Universal Coring Machine, Coring Range 200 mm, 220-240 V 50-60 Hz
CFGD-0310	Universal Coring Machine, Coring Range 25-202 mm, 220-240 V 50-60 Hz
CFGD-0320	Coring Bit for Concrete Sampling 50 mm dia. 400 mm Length
CFGD-0320-H	Coring Bit for Concrete Sampling 50 mm dia. 320 mm Length
CFGD-0322	Coring Bit for Concrete Sampling 75 mm dia. 400 mm Length
CFGD-0322-H	Coring Bit for Concrete Sampling 75 mm dia. 320 mm Length
CFGD-0324	Coring Bit for Concrete Sampling 100 mm dia. 400 mm Length
CFGD-0324-H	Coring Bit for Concrete Sampling 100 mm dia. 320 mm Length
CFGD-0326	Coring Bit for Concrete Sampling 150 mm dia. 400 mm Length
CFGD-0326-H	Coring Bit for Concrete Sampling 150 mm dia. 320 mm Length
CFGD-0328	Coring Bit for Concrete Sampling 200 mm dia. 400 mm Length
CFGD-0328-H	Coring Bit for Concrete Sampling 200 mm dia. 320 mm Length
CFGD-0330	Coring Bit for Asphalt Sampling 50 mm dia. 400 mm Length
CFGD-0330-H	Coring Bit for Asphalt Sampling 50 mm dia. 320 mm Length
CFGD-0332	Coring Bit for Asphalt Sampling 75 mm dia. 400 mm Length
CFGD-0332-H	Coring Bit for Asphalt Sampling 75 mm dia. 320 mm Length
CFGD-0334	Coring Bit for Asphalt Sampling 100 mm dia. 400 mm Length
CFGD-0334-H	Coring Bit for Asphalt Sampling 100 mm dia. 320 mm Length
CFGD-0336	Coring Bit for Asphalt Sampling 150 mm dia. 400 mm Length
CFGD-0336-H	Coring Bit for Asphalt Sampling 150 mm dia. 320 mm Length

The CFGD-0290 (2500 W) and CFGD-0310 (2200 W) Universal Coring Machines are powerful diamond drilling units serve for shock free drilling into concrete, natural stone and asphalt with coring diameter max. 200 mm for CFGD-0290 and coring diameter ranges 25-202 mm for CFGD-0310 respectively.

Both models are optimal complements to handheld diamond drilling machines.

- Mechanical oil-bath gearbox with integrated oil pump for durable lubrication of the armature pinion
- Electronics- soft start, temperature control and over current cut off, optical overload indication, constant speed
- Quick- change plate for motor/ rig
- Shaft seals replaceable from the outside
- Cut-off carbon brushes to protect the motor
- Mechanical safety clutch



Coring Bit for Asphalt Sampling

The Universal Coring Machine consists of

- Drilling Motor
- Motor Cradle
- Base Plate
- Mounting Apparatus (between drilling motor and the cradle)

Specifications

	CFGD - 0290	CFGD - 0310
Power	2500 W	2200 W
Class of Protection	I	I
Drilling Diameter	max. 200 mm	25 to 202 mm
No-Load Speed	675 r.p.m. (No-load)	420/700/1570 r.p.m.
Gearbox	2-speed/oil bath	3-speed/oil bath
Weight (approx.)	18 kg	16 kg

GENERAL GLASSWARE

CFU supplies high quality general laboratory glassware, plasticware and hardware for various material testing applications.



Graduated Glass Cylinders

Product Code	Description	Dimensions	Weight
CFGG-1000	Graduated Glass Cylinder 10 ml	13x13x140 mm	0.05 kg
CFGG-1005	Graduated Glass Cylinder 25 ml	20x20x145 mm	0.1 kg
CFGG-1010	Graduated Glass Cylinder 50 ml	26x26x180 mm	0.1 kg
CFGG-1015	Graduated Glass Cylinder 100 ml	30x30x250 mm	0.1 kg
CFGG-1020	Graduated Glass Cylinder 250 ml	40x40x320 mm	0.2 kg
CFGG-1025	Graduated Glass Cylinder 500 ml	50x50x390 mm	0.25 kg
CFGG-1030	Graduated Glass Cylinder 1000 ml	65x65x460 mm	0.5 kg
CFGG-1035	Graduated Glass Cylinder 2000 ml	120x120x550 mm	0.75 kg



Borosilicate Glass Beaker

Product Code	Description	Dimensions	Weight
CFGG-1300	Borosilicate Glass Beaker 10 ml	34x34x50 mm	0.01 kg
CFGG-1305	Borosilicate Glass Beaker 25 ml	42x42x60 mm	0.05 kg
CFGG-1310	Borosilicate Glass Beaker 50 ml	50x50x70 mm	0.1 kg
CFGG-1315	Borosilicate Glass Beaker 100 ml	60x60x80 mm	0.1 kg
CFGG-1320	Borosilicate Glass Beaker 250 ml	70x70x95 mm	0.1 kg
CFGG-1325	Borosilicate Glass Beaker 400 ml	80x80x100 mm	0.2 kg
CFGG-1330	Borosilicate Glass Beaker 600 ml	90x90x125 mm	0.25 kg
CFGG-1335	Borosilicate Glass Beaker 800 ml	100x100x135 mm	0.5 kg
CFGG-1340	Borosilicate Glass Beaker 1000 ml	105x105x145 mm	0.75 kg
CFGG-1345	Borosilicate Glass Beaker 2000 ml	130x130x185 mm	1 kg
CFGG-1350	Borosilicate Glass Beaker 3000 ml	30x30x300 mm	2 kg



Pycnometers (Specific Gravity Bottles)



Pycnometers (Bottle Type) with Double Edged and Capillary Tubed Funnel

Pycnometers

Product Code	Description	Dimensions	Weight
CFGG-1500	Pycnometer (Specific Gravity Bottle) 25 ml	40x40x90 mm	0.05 kg
CFGG-1505	Pycnometer (Specific Gravity Bottle) 50 ml	50x50x100 mm	0.05 kg
CFGG-1510	Pycnometer (Specific Gravity Bottle) 100 ml	60x60x120 mm	0.05 kg
CFGG-1515	Pycnometer (Specific Gravity Bottle) 250 ml	100x100x150 mm	0.1 kg
CFGG-1520	Pycnometer (Specific Gravity Bottle) 500 ml	110x110x200 mm	0.1 kg
CFGG-1525	Pycnometer (Specific Gravity Bottle) 1000 ml	150x150x220 mm	0.2 kg
CFGG-1530	Pycnometer (Specific Gravity Bottle) 2000 ml	200x200x250 mm	0.3 kg
CFGG-1545	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 50 mL	...	kg
CFGG-1550	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 100 mL		kg
CFGG-1555	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 250 ml		kg
CFGG-1560	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 500 ml		kg
CFGG-1565	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 1000 ml		kg
CFGG-1570	Pycnometer with Capillary Side Tube, (Specific Gravity Bottle) 2000 ml		kg
CFGG-1600	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 250 ml	110x110x270 mm	0.4 kg
CFGG-1605	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 500 ml	130x130x270 mm	0.7 kg
CFGG-1610	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 1000 ml	150x150x270 mm	0.9 kg
CFGG-1615	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 2000 ml	180x180x330 mm	1.25 kg
CFGG-1620	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 3000 ml	200x200x340 mm	1.35 kg
CFGG-1625	Pycnometer (Bottle Type) with Double Edged and Capillary Tubed Funnel 5000 ml	250x250x340 mm	1.5 kg
CFGG-1630	Double Edged and Capillary Tubed Funnel For Bottle Type Pycnometer	55x55x250 mm	0.1 kg



Volumetric Flasks

Product Code	Description	Dimensions	Weight
CFGG-1800	Volumetric Flask 5 ml	20x20x40 mm	0.01 kg
CFGG-1805	Volumetric Flask 10 ml	30x30x50 mm	0.05 kg
CFGG-1810	Volumetric Flask 25 ml	45x45x70 mm	0.1 kg
CFGG-1815	Volumetric Flask 50 ml	51x51x95 mm	0.1 kg
CFGG-1820	Volumetric Flask 100 ml	64x64x110 mm	0.1 kg
CFGG-1825	Volumetric Flask 250 ml	70x70x120 mm	0.2 kg
CFGG-1830	Volumetric Flask 500 ml	85x85x145 mm	0.25 kg
CFGG-1835	Volumetric Flask 1000 ml	105x105x175 mm	0.5 kg
CFGG-1840	Volumetric Flask 2000 ml	131x131x200 mm	0.75 kg
CFGG-1845	Volumetric Flask 3000 ml	166x166x260 mm	1 kg
CFGG-1850	Volumetric Flask 5000 ml	207x207x315 mm	2 kg



Graduated Impurities Test Bottle

Product Code	Description	Dimensions	Weight
CFGG-1700	Graduated Impurities Test Bottle, Glass 250 ml	100x100x200 mm	0.25 kg
CFGG-1705	Graduated Impurities Test Bottle, Glass 500 ml	200x200x400 mm	0.5 kg
CFGG-1710	Graduated Impurities Test Bottle, Glass 1000 ml	300x300x500 mm	1 kg
CFGG-1715	Graduated Impurities Test Bottle, Glass 2000 ml	450x450x700 mm	1.75 kg
CFGG-1720	Cylindrical Glass Bottle, With Stopper, For Organic Impurities, 450 ml, EN	80x80x210 mm	0.5 kg



Erlenmeyer Flasks

Product Code	Description	Dimensions	Weight
CFGG-1900	Erlenmeyer Flask 50 ml	51x51x95 mm	0.05 kg
CFGG-1905	Erlenmeyer Flask 100 ml	64x64x110 mm	0.1 kg
CFGG-1910	Erlenmeyer Flask 150 ml	74x74x115 mm	0.13 kg
CFGG-1915	Erlenmeyer Flask 250 ml	85x85x145 mm	0.2 kg
CFGG-1920	Erlenmeyer Flask 300 ml	87x87x150 mm	0.45 kg
CFGG-1925	Erlenmeyer Flask 500 ml	105x105x174 mm	0.6 kg
CFGG-1930	Erlenmeyer Flask 1000 ml	70x70x120 mm	1 kg
CFGG-1935	Erlenmeyer Flask 2000 ml	131x131x220 mm	1.6 kg
CFGG-1940	Erlenmeyer Flask 5000 ml	166x166x280 mm	3 kg



Filter Flasks

Product Code	Description	Dimensions	Weight
CFGG-2000	Filter Flask 250 ml	187x187x310 mm	0.2 kg
CFGG-2005	Filter Flask 500 ml	166x166x260 mm	0.25 kg
CFGG-2010	Filter Flask 1000 ml	207x207x315 mm	1 kg
CFGG-2015	Filter Flask 2000 ml	207x207x315 mm	1 kg
CFGG-2020	Cartsten- Röhrchen flask EN 1323	100x100x200 mm	0.25 kg

GENERAL GLASSWARE



Descators

Product Code	Description	Dimensions	Weight
CFGG-2100	Descicator 210 mm dia.	310x310x250 mm	3.50 kg
CFGG-2105	Descicator 240 mm dia.	340x340x300 mm	3.50 kg
CFGG-2110	Descicator 300 mm dia.	400x400x350 mm	3.50 kg



Descators (Vacuum Type)

Product Code	Description	Dimensions	Weight
CFGG-2115	Descicator 210 mm dia. Vacuum	310x310x250 mm	3.50 kg
CFGG-2120	TypeDescicator 240 mm dia. Vacuum	340x340x300 mm	3.50 kg
CFGG-2125	TypeDescicator 300 mm dia. Vacuum	400x400x350 mm	3.50 kg



Porcelain Evaporating Dish

Product Code	Description	Dimensions	Weight
CFGG-2165	Porcelain Evaporating Dish 10 cm dia.	100x100x80 mm	0.25 kg
CFGG-2170	Porcelain Evaporating Dish 12 cm dia.	120x120x80 mm	0.25 kg



Porcelain Mortar with Pestle

Product Code	Description	Dimensions	Weight
CFGG-2200	Porcelain Mortar with Pestle 100 mm dia.	100x100x80 mm	0.25 kg
CFGG-2205	Porcelain Mortar with Pestle 130 mm dia.	130x130x80 mm	0.25 kg
CFGG-2210	Porcelain Mortar with Pestle 160 mm dia.	160x160x80 mm	0.25 kg
CFGG-2215	Rubber Headed Pestle	100x125x80 mm	0.25 kg



Porcelain Crucible

Product Code	Description	Dimensions	Weight
CFGG-2235	Porcelain Crucible 4 cm dia. x 4.7 mm high	101x101x40 mm	0.25 kg
CFGG-2260	Glass Strring Rod	20x20x150 mm	0.25 kg



Petri Dishes

Product Code	Description	Dimensions	Weight
CFGG-2270	Petri Dish 80 mm, Glass	80x80x80 mm	0.25 kg
CFGG-2275	Petri Dish 100 mm, Glass	120x120x80 mm	0.25 kg
CFGG-2280	Petri Dish 120 mm, Glass	100x100x80 mm	0.25 kg



Glass Pipettes

Product Code	Description	Dimensions	Weight
CFGG-2300	Pipette 5 ml	20x20x360	0.25 kg
CFGG-2305	Pipette 10 ml	mm20x20x360	0.25 kg
CFGG-2310	Pipette 25 ml	mm20x20x450	0.25 kg
CFGG-2315	Pipette 50 ml	mm20x20x550	0.25 kg
CFGG-2350	Pasteur Pipette 3 ml, Placstic, 100 pcs	mm20x20x120	0.02 kg
CFGG-2351	Pasteur Pipette 3 ml, Placstic, 10 pcs	mm20x20x50	0.002 kg
CFGG-2355	Pipette Bulb	mm35x35x150 mm	0.10 kg



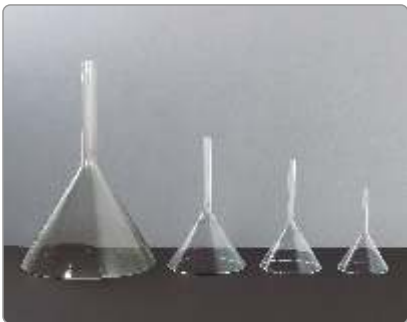
Hydrometers

Product Code	Description	Dimensions	Weight
CFGG-2400	Hydrometer 700-800	30x30x300 mm	0.10 kg
CFGG-2401	Hydrometer 800-900	30x30x300 mm	0.10 kg
CFGG-2405	Hydrometer 900-1000	30x30x300 mm	0.10 kg
CFGG-2410	Hydrometer 1000-1100	30x30x300 mm	0.10 kg
CFGG-2415	Hydrometer 1100-1200	30x30x300 mm	0.10 kg
CFGG-2420	Hydrometer 1200-1300	30x30x300 mm	0.10 kg
CFGG-2425	Hydrometer 1300-1400	30x30x300 mm	0.10 kg
CFGG-2430	Hydrometer 1400-1500	30x30x300 mm	0.10 kg
CFGG-2435	Hydrometer 1500-1600	30x30x300 mm	0.10 kg
CFGG-2440	Hydrometer 1600-1700	30x30x300 mm	0.10 kg
CFGG-2445	Hydrometer 1700-1800	30x30x300 mm	0.10 kg
CFGG-2450	Hydrometer 1800-1900	30x30x300 mm	0.10 kg
CFGG-2455	Hydrometer 1900-2000	30x30x300 mm	0.10 kg



Hand Pump for Pipette/Burette

Product Code	Description	Dimensions	Weight
CFGG-2485	Hand Pump for Pipette/Burette	20x20x180 mm	0.01 kg
CFGG-2590	Hand Pump, Three-Way for Pipette/Burette	20x20x180 mm	0.01 kg
CFGG-2525	Burette 25 ml	50x50x820 mm	0.25 kg
CFGG-2550	Burette 50 ml	50x50x820 mm	0.25 kg



Glass Funnels

Product Code	Description	Dimensions	Weight
CFGG-2580	Glass Funnel 80 mm	80x80x80 mm	0.25 kg
CFGG-2585	Glass Funnel 100 mm	100x100x100 mm	0.25 kg
CFGG-2590	Glass Funnel 200 mm	200x200x175 mm	0.25 kg

GENERAL PLASTICWARE



**Plastic Graduated
Cylinders**

Product Code	Description	Dimensions	Weight
CFGP-0900	Plastic Gra. Cylinder 10 ml	13x13x140 mm	0.05 kg
CFGP-0905	Plastic Gra. Cylinder 25 ml	20x20x145 mm	0.10 kg
CFGP-0910	Plastic Gra. Cylinder 50 ml	26x26x180 mm	0.10 kg
CFGP-0915	Plastic Gra. Cylinder 100 ml	30x30x250 mm	0.10 kg
CFGP-0920	Plastic Gra. Cylinder 250 ml	40x40x320 mm	0.20 kg
CFGP-0925	Plastic Gra. Cylinder 500 ml	50x50x390 mm	0.25 kg
CFGP-0930	Plastic Gra. Cylinder 1000 ml	65x65x460 mm	0.50 kg
CFGP-0935	Plastic Gra. Cylinder 2000 ml	120x120x550 mm	0.75 kg



Plastic Beakers

Product Code	Description	Dimensions	Weight
CFGP-0940	Plastic Beaker 50 ml	42x42x60 mm	0.05 kg
CFGP-0945	Plastic Beaker 100 ml	50x50x70mm	0.10 kg
CFGP-0950	Plastic Beaker 250 ml	60x60x80 mm	0.10 kg
CFGP-0955	Plastic Beaker 500 ml	80x80x100 mm	0.10 kg
CFGP-0960	Plastic Beaker 1000 ml	100x100x135 mm	0.20 kg
CFGP-0965	Plastic Beaker 2000 ml	105x105x145 mm	1.00 kg
CFGP-0970	Plastic Beaker 3000 ml	130x130x185 mm	1.50 kg
CFGP-0975	Plastic Beaker 5000 ml	150x150x200 mm	2.00 kg



Wash Bottles

Product Code	Description	Dimensions	Weight
CFGP-1000	Wash Bottle 250 ml	60x60x160 mm	0.10 kg
CFGP-1005	Wash Bottle 500 ml	90x90x190 mm	0.15 kg
CFGP-1010	Wash Bottle 1000 ml	110x110x210 mm	0.20 kg



Plastic Funnel

Product Code	Description	Dimensions	Weight
CFGP-1038	Plastic Funnel 40x65 mm	100x100x120 mm	0.10 kg
CFGP-1040	Plastic Funnel 100x155 mm	100x100x120 mm	0.10 kg



Gloves

Product Code	Description	Dimensions	Weight
CFGP-1050	Latex Gloves, pack of 100	100x200x100 mm	0.50 kg
CFGP-1055	Heat Resistant Gloves	110x180x20 mm	0.10 kg
CFGP-1060	Leather Gloves	110x180x20 mm	0.10 kg
CFGP-1065	Cotton Gloves	110x180x20 mm	0.10 kg
CFGP-1070	Rubber Gloves	110x180x20 mm	3.00 kg



Plastic Buckets

Sample Bags

Product Code	Description	Dimensions	Weight
CFGP-1100	Plastic Bucket 20 lt.	300x350x450 mm	5.00 kg
CFGP-1105	Plastic Bucket 45 lt.	450x480x550 mm	5.00 kg
CFGP-1110	Plastic Bucket 60 lt.	500x550x600 mm	0.01 kg
CFGP-1140	Plastic Hose Ø8 OD, 3 m	200x200x30 mm	0.01 kg
CFGP-1150	Sample Bag 400x600 mm (heavy plastic, 1 unit)	400x600x20 mm	0.01 kg
CFGP-1155	Sample Bag 250x400 mm (heavy plastic, 1 unit)	250x400x20 mm	0.50 kg
CFGP-1160	Sample Zipper Bag 170x230 (plastic, pack of 400)	170x230x100 mm	0.50 kg
CFGP-1165	Sample Zipper Bag 260x350 (plastic, pack of 200)	260x350x100 mm	0.20 kg



Rubber Stoppers

Product Code	Description	Dimensions	Weight
CFGP-1200	RS 30/25 mm dia. 30 mm high	30x25x30 mm	0.20 kg
CFGP-1205	RS 35/30 mm dia. 35 mm high	35x30x30	0.20 kg
CFGP-1210	RS 40/30 mm dia. 35 mm high	40x30x35 mm	0.20 kg
CFGP-1215	RS 50/40 mm dia. 35 mm high	50x40x35 mm	0.20 kg
CFGP-1217	RS Ø70/55 mm, 35 mm high.	80x60x40	0.10 kg
CFGP-1222	RS with a Hole, for UTB-0260	70x70x50	0.10 kg
CFGP-1226	Rubber Ring for UTB-0260	70x70x50	0.10 kg



Water Gauge



Transfer Dish

Product Code	Description	Dimensions	Weight
CFGP-1250	Water Gauge 60 cm	80x80x600 mm	1.00 kg
CFGP-0121	Transfer Dish	150x150x100 mm	0.25 kg

GENERAL HARDWARE

Mixing Bowl and Mixing Tray



Product Code	Description	Dimensions	Weight
CFGH-1200	Mixing Bowl Ø:160 mm, Stainless Steel	160x160x100 mm	0.25 kg
CFGH-1205	Mixing Bowl Ø:180 mm, Stainless Steel	180x180x100 mm	0.25 kg
CFGH-1300	Mixing Tray 27x46x4 cm, Stainless Steel (31x48x4 Outer Dim.)	270x460x40 mm	0.4 kg
CFGH-1305	Mixing Tray 26x41x4 cm, Stainless Steel (28x43x4 Outer Dim.)	260x410x40 mm	0.4 kg
CFGH-1310	Mixing Tray 25x36x4 cm, Stainless Steel (26x38x4 Outer Dim.)	250x360x40 mm	0.4 kg
CFGH-1315	Mixing Tray 23x33x4 cm, Stainless Steel (23x33x4 Outer Dim.)	230x330x40 mm	0.4 kg
CFGH-1320	Mixing Tray 17x27x4 cm, Stainless Steel (20x30x4 Outer Dim.)	170x270x40 mm	0.4 kg
CFGH-1325	Mixing Tray 20x20x5 cm, Stainless Steel	200x200x50 mm	1.5 kg
CFGH-1330	Mixing Tray 30x30x5 cm, Stainless Steel	300x300x50 mm	1.5 kg
CFGH-1335	Mixing Tray 40x40x5 cm, Stainless Steel	400x400x50 mm	2.5 kg
CFGH-1340	Mixing Tray 50x50x5 cm, Stainless Steel	500x500x50 mm	5 kg
CFGH-1345	Mixing Tray 60x60x5 cm, Stainless Steel	600x600x50 mm	7.5 kg
CFGH-1350	Mixing Tray 100x100x5 cm, Stainless Steel	1000x1000x50 mm	12 kg

Moisture Contents



Product Code	Description	Dimensions	Weight
CFGH-1360	Test Cup (Circular Cross Section)	200x200x100 mm	1 kg
CFGH-1399	Sample Cup, Ø:140 mm x h:9,5 mm, Aluminium	120x120x100 mm	0.2 kg
CFGH-1400	Moisture Content Tin with Lid Ø:120 mmxh:100 mm, Aluminium	120x120x100 mm	0.2 kg
CFGH-1402	Moisture Content Tin with Lid Ø:104 mmxh:150 mm, Aluminium	104x70x104 mm	0.2 kg
CFGH-1405	Moisture Content Tin with Lid Ø:100 mm x h:70 mm, Aluminium	100x100x70 mm	0.2 kg
CFGH-1407	Moisture Content Tin with Lid Ø:80 mm x h:80 mm, Aluminium	80x80x80 mm	0.2 kg
CFGH-1410	Moisture Content Tin with Lid Ø:80 mm x h:45 mm, Aluminium	80x80x45 mm	0.2 kg
CFGH-1415	Moisture Content Tin with Lid Ø:70 mm x h:45 mm, Aluminium	70x70x45 mm	0.2 kg
CFGH-1420	Moisture Content Tin with Lid Ø:66 mm x h:44 mm, Aluminium	66x66x44 mm	0.2 kg
CFGH-1425	Moisture Content Tin with Lid Ø:55 mm x h:35 mm, Aluminium	55x55x35 mm	0.2 kg
CFGH-1430	Moisture Content Tin with Lid Ø:45 mm x h:10 mm, Aluminium	45x45x10 mm	0.2 kg
CFGH-1433	Moisture Content Tin with Lid Ø:75 mm x h:30 mm, Aluminium	75x75x30 mm	0.2 kg
CFGH-1435	Moisture Content Tin with Lid Ø:75 mm x h:50 mm, Aluminium	75x75x50 mm	0.2 kg
CFGH-1440	Moisture Content Tin with Lid Ø:5 mm x h:30 mm, Aluminium	75x75x50 mm	0.2 kg
CFGH-1442	Moisture Content Tin with Lid Ø:5 mm x h:40 mm, Aluminium	75x75x50 mm	0.2 kg
CFGH-1460	Lever Lid Container Ø:160 mm x h:235 mm, Aluminium	160x160x235 mm	0.25 kg
CFGH-1465	Lever Lid Container Ø:270 mm x h:300 mm, Aluminium	270x270x300 mm	0.25 kg



Spatula

Product Code	Description	Dimensions	Weight
CFGH-1480	Spatula, Rigid, Straight Edged	100x40x200 mm	0.3 kg
CFGH-1485	Spatula Large, Length: 200 mm	30x10x310 mm	0.2 kg
CFGH-1490	Spatula Medium,Length:150mm	30x10x280 mm	0.2 kg
CFGH-1495	Spatula Small, Length:100 mm	20x10x190 mm	0.2 kg



Brushes

Product Code	Description	Dimensions	Weight
CFGH-1520	Bristle Brush 50 mm wide	20X10X190 mm	0.2 kg
CFGH-1525	Wire Brush with Handle	50X200X50 mm	0.1 kg
CFGH-1530	Round Bristle Brush	60X120X60 mm	0.15 kg
CFGH-1535	Double Brass/Nyln Sieve Brush	50X180X50 mm	0.15 kg



Scoops and Shovel

Product Code	Description	Dimensions	Weight
CFGH-1600	Round Scoop Small	245X80X120 mm	0.2 kg
CFGH-1605	Round Scoop Medium	335X120X120 mm	0.3 kg
CFGH-1610	Round Scoop Large	380X140X140 mm	0.4 kg
CFGH-1615	Round Scoop Extra Large	420X160X150 mm	0.5 kg
CFGH-1630	Shovel	1300X300X250mm	2.5 kg



Trowels

Product Code	Description	Dimensions	Weight
CFGH-1640	Trowel Plasterer, Rectangular	120X300X120mm	0.25 kg
CFGH-1645	Trowel for Plastering	90X115X165 mm	0.25 kg
CFGH-1650	Trowel Cut Edge Brickmason	30X150X30 mm	0.5 kg
CFGH-1655	Trowel Pointing Type	90X115X165 mm	0.25 kg



Tongs



Hammer



Chisel



Chisel Flat Ended

Product Code	Description	Dimensions	Weight
CFGH-1660	Tongs	30X150X30 mm	0.5 kg
CFGH-1670	Hammer 1,5 kg	100X300X80 mm	1,5 kg
CFGH-1680	Chisel	40X140X30 mm	1 kg
CFGH-1685	Chisel Flat Ended	40X140X30 mm	1 kg



Rubber Mallet



Clamp

Product Code	Description	Dimensions	Weight
CFGH-1695	Rubber Mallet	75X80X300 mm	1 kg
CFGH-1730	Clamp	50X60X70 mm	0.2 kg



Scoop and Spoon



Scissors

Product Code	Description	Dimensions	Weight
CFGH-1700	Density Spoon	70X70X320 mm	0.2 kg
CFGH-1700	Scoop	70X70X320 mm	0.2 kg
CFGH-1750	Scissors	80X120X40 mm	0.2 kg



Wheel Barrow



Trolley

Product Code	Description	Dimensions	Weight
CFGH-1770	Trolley	800X400X870 mm	18 kg
CFGH-1775	Wheel Barrow	700X1400X650mm	20 kg



Stand Clamp



Magnetic Holder

Product Code	Description	Dimensions	Weight
CFGH-1795	Stand Clamp, Small	60X60X100 mm	0.25 kg
CFGH-1800	Stand Clamp, Large	80X80X300 mm	0.5 kg
CFGH-1850	Magnetic Holder	100X100X130 mm	0.5 kg



Iron Wire Gauze

Product Code	Description	Dimensions	Weight
CFGH-1830	Iron Wire Gauze 12x12 mm	120X120X10 mm	0.10 kg
CFGH-1835	Iron Wire Gauze 16x16 mm	160X160X10 mm	0.10 kg



Bunsen Burner

Product Code	Description	Dimensions	Weight
CFGH-1875	Bunsen Burner (Butane/Propane)	100X100X130 mm	0.5 kg
CFGH-1880	Bunsen Burner (Natural Gas)	100X100X130 mm	0.5 kg
CFGH-1885	Tripod for Bunsen Burner	300X300X300 mm	1 kg

VACUUM PUMPS AND GAUGES

Product Code

- CFGE-3505 Vacuum Pump 51 L/min Capacity
- CFGE-3510 Vacuum Pump 100 L/min Capacity
- CFGE-3530 Vacuum Pump Dual Stage 128 L/min Capacity
- CFGE-3550 Vacuum Gauge Analog
-760 mm Hg, 20 mmHg graduated Ø63 mm
- CFGE-3552 Vacuum Gauge, Analog
-100 kPa, 1 kPa graduated, dia: 63 mm
- CFGE-3554 Digital Vacuum and Preesure Gauge (-1...30 bar)
- CFGE-3570 Air Drying Unit/ Water Trap, Vacuum Type
- CFGE-3572 Air Drying Unit, for UTAS-0340
- CFGE-3590 Water Trompe/Aspirator Filter Pumps for
Vacuum Filtration with Anolog Manometer, Metal

Models for 220-240V 50-60 Hz, 1 ph		
CFGE-3505	CFGE-3510	CFGE-3530

CFU supplies high quality single and dual stage vacuum pumps for providing the vacuum power which is required for various applications in material testing.

- Two stage rotary-vane design improves the ultimate vacuum and pump speed and reduces the evacuation time.
- The integrated pump body design ensures the reliability and easy maintenance.
- Built-in oil pump cycling design forced-lubricates the pump chamber and sliding bearing and ensures its lubrication and seal.
- Anti-Suckback design prevents oil from returning back to the system.
- The intake filter can prevent foreign matter from entering into the pump chamber and the exhaust fitting separates oil vapour from the exhaust flow.
- Aluminium oil housing, trestle and motor cover forms a rigid and light design.
- Thermal protection of the motor makes the pump to run steadily and ensures safety.

CFGE-3552 Vacuum Gauge has (-100/0) kPa scale range, 1,0 % of scale range accuracy and 1kPa graduation.

Vacuum Gauges are supplied complete with a valf, 4-way dispenser, muffler and ¼-8 oto-nipple.

Vacuum Pumps are supplied complete with 3 m plastic tube (Ø8mm OD) and ¼-8 oto-nipple.

CFGE-3572 is supplied with 2 pcs. ¼-8mm oto nipple.

CFGE-3590 Water trompe/aspirator filter pump is supplied complete with 2m plastic tube, 1m rubber tube and 4 pcs. tube clamps.

		CFGE-3505		CFGE-3510		CFGE-3530	
Frequency		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Flow Rate	CFM	1.8	2.0	3.5	4.0	4.5	5.0
	L/min	51	57	100	113	128	142
Ultimate Vacuum	Partial Pressure	2 Pa		2 Pa		2x10 ⁻¹ Pa	
	Total Pressure	150 micron		150 micron		15 micron	
Motor (HP)		1/4		1/3		1/2	
Intake Fitting		1/4" Flare		1/4" & 3/8" Flare		1/4" & 3/8" Flare	
Oil Capacity		250 ml		250 ml		325 ml	
Dimensions		290x125x225 mm		320x125x235 mm		340x140x245 mm	
Weight (approx.)		6.5 kg		8.0 kg		10.5 kg	



CFGE-3505



CFGE-3590



CFGE-3550



CFGE-3552

AIR COMPRESSOR

Product Code

- CFGE-3700 Laboratory Air Compressor 8 bar - 25 L
- CFGE-3705 Laboratory Air Compressor 8 bar - 50 L
- CFGE-3710 Laboratory Air Compressor 10 bar - 100 L

Models for 220-240V 50-60 Hz, 1 ph		
CFGE-3700	CFGE-3705	CFGE-3710

CFGE series Laboratory Air Compressors are durable machines for supplying compressed air required by several analyses in material testing.

The compressors are supplied complete with;

- Air Gun
- Hose

	Voltage	Dimensions	Weight (approx)
CFGE-3700	220-240 V 50-60 Hz	600x300x600 mm	28.5 kg
CFGE-3705	220-240 V 50-60 Hz	600x300x600 mm	40 kg
CFGE-3710	220-240 V 50-60 Hz	1460x470x860 mm	140 kg

*110 V 60 Hz should be mentioned on order if required

	Motor Power	Tank Capacity	Air Suction Capacity	Max. Working Pressure
CFGE-3700	2 HP	25 L	192 L/min	8 bar
CFGE-3705	2 HP	50 L	192 L/min	8 bar
CFGE-3710	2 HP	100 L	250 L/min	10 bar



Air Gun and Hose



CFGE-3700



CFGE-3710

HYDRAULIC HAND PUMP

Product Code

CFGE-3800 Hydraulic Hand Pump, 700 bar

Hydraulic hand pump with two-speed pressure build up in aluminium design with pressure gauge and metal support base. Pump lever with lock serves as handle.

It has internal pressure relief valve for overload protection and connection thread 3/8" NPT.

Dimension	160x700x310 mm
Weight (approx.)	13 kg



WATER BATHS

Product Code

CFGE-4000 Water Bath 15 lt. Capacity
 CFGE-4005 Water Bath 24 lt. Capacity
 CFGE-4010 Water Bath 48 lt. Capacity
 CFGE-4050 Water Bath 15 lt. Capacity with Cooler Unit
 CFGE-4055 Water Bath 24 lt. Capacity with Cooler Unit
 CFGE-4060 Water Bath 48 lt. Capacity with Cooler Unit
 CFGE-4110 Cooler / Circulator Unit

Models for 220-240V 50-60 Hz, 1 ph.

CFGE-4000	CFGE-4005	CFGE-4010	CFGE-4050
CFGE-4055	CFGE-4060	CFGE-4110	

Models for 110-120V 60 Hz, 1 ph.

CFGE-4000-N	CFGE-4005-N	CFGE-4010-N	CFGE-4050-N
CFGE-4055-N	CFGE-4060-N	CFGE-4110-N	

CFGE Series Water Baths are used in various material testing analyses. 15, 24 and 48 lt. tank capacity models are available and can be ordered with or without cooler units.

Some standards require conditioning temperatures from 25 to 60°C. For example The EN 12697-23 covering the determination of the strength of bituminous mixtures, prescribe a water conditioning temperature of 5°C or from 5 to 25°C which are obtainable with a cooling system.

Water bath are used for asphalt (marshall, bitumen testing), cement (curing on conditioning) applications.

Internal surfaces are polished stainless steel with a sheet steel insulated outercase. The cooler unit is located under the water bath. Complete with re-circulating unit for temperature uniformity.

CFGE-4110 Cooler / Circulator Unit has a temperature range from 4°C to ambient temperature ($\pm 0.5^\circ\text{C}$).



CFGE-4000



CFGE-4060



CFGE-4110

Product Code	Internal Dimensions	External Dimensions	Weight (App.)	Specifications
CFGE-4000	320x300x170 mm	320x300x170 mm	14 kg	For ambient to +90°C Temperature distribution 40°C $\pm$ 1°C
CFGE-4005	505x300x170 mm	505x300x170 mm	17 kg	
CFGE-4010	625x505x170 mm	625x505x170 mm	24 kg	
CFGE-4050	320x300x170 mm	320x300x170 mm	25 kg	+5°C to +70°C Temperature distribution 20°C $\pm$ 0,5°C
CFGE-4055	505x300x170 mm	505x300x170 mm	35 kg	
CFGE-4060	625x505x170 mm	625x505x170 mm	45 kg	
CFGE-4110	800x700x600 mm	800x700x600 mm	85 kg	$\pm 0,5^\circ\text{C}$ (4°C to ambient temperature)

MISCELLANEOUS



Water Still

Product Code	Description	Dimensions	Weight
CFGE-4200	Water Still 4 lt/h Capacity 220-240 V 50-60 Hz	260x260x610 mm	10 kg
CFGE-4210	Water Still 8 lt/h Capacity 380 V 50 Hz	260x260x610 mm	16 kg



pH Indicator
Papers

Product Code	Description	Dimensions	Weight
CFGE-4300	pH Indicator Papers pH Range: 1-14	40x60x20 mm	0.1 kg



Digital Laser
Distance Meter

Product Code	Description	Dimensions	Weight
CFGE-4400	Digital Laser Distance Meter	59x100x32 mm	0.2 kg



Product Code	Description	Dimensions	Weight
CFGH-1795	Pocket Type pH Meter	175x41x23 mm	0.1 kg
CFGH-1800	Portable pH Meter	164x76x45 mm	0.2 kg
CFGH-1850	Laboratory pH Meter	240x182x74 mm	2.5 kg



Quantab Chloride
Titrator Type

Product Code	Description	Dimensions	Weight
CFGE-4320	Quantab Chloride Titrator Type 1175, 40 strips/pack	75x75x120 mm	0.1 kg
CFGE-4322	Quantab Chloride Titrator Type 1176, 40 strips/pack	75x75x120 mm	0.1 kg



Hand Type
GPS

Product Code	Description	Dimensions	Weight
CFGE-4420	Hand Type GPS	65x128x37 mm	0.2 kg

CFU MOBILE LAB

In many cases, the container laboratory is the first equipment on the job-site and a smart, efficient, well equipped unit is the best introduction for a contractor.

The CFU Container Lab is designed for use on remote sites, enabling the routine testing of soils, concrete and asphalt to be carried out efficiently. A wide range of accessories makes the laboratory completely independent and self-sufficient.

Panel-Van Mounted

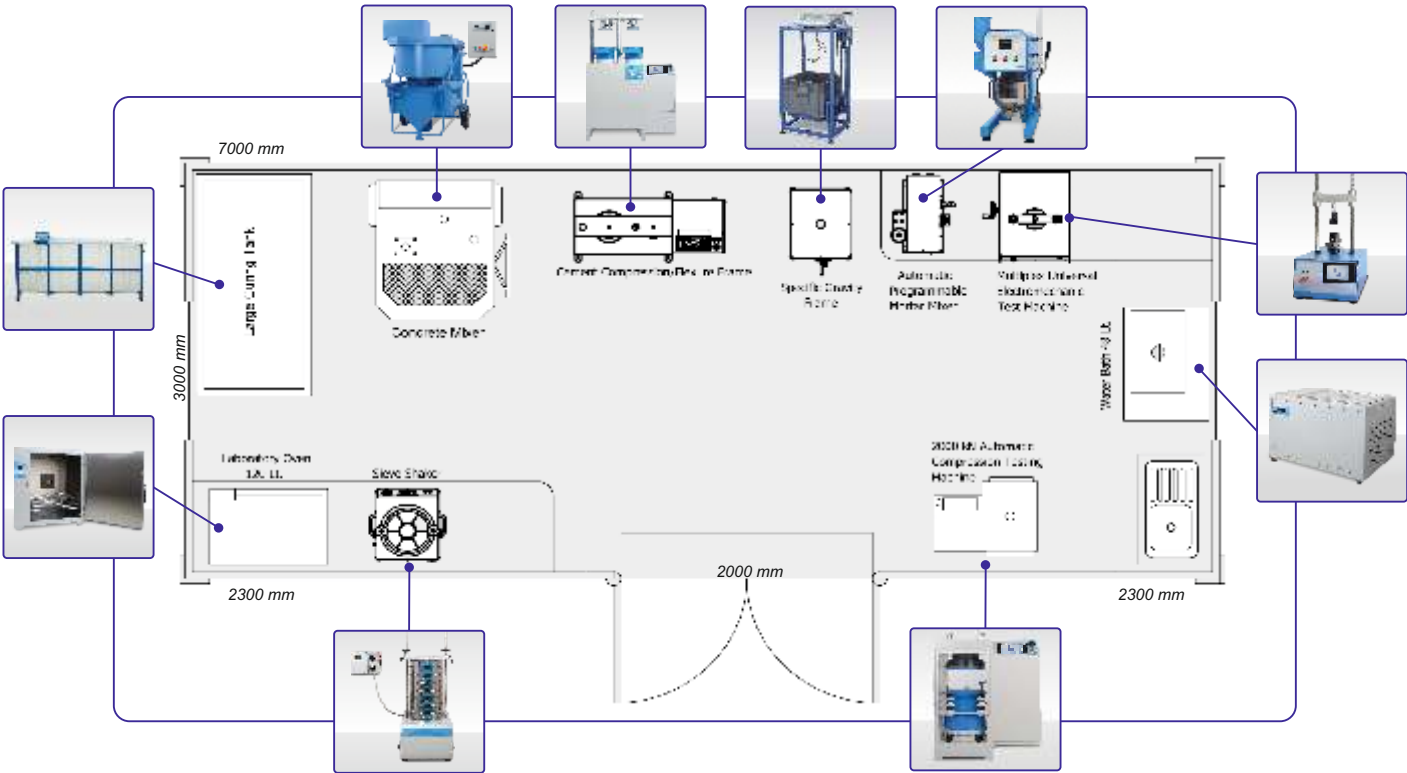
Used where extreme mobility and manoeuvrability are requested.



CFU MOBILE LAB

Container Mounted

Used for long term testing at one site, as well as road construction.



Dimensions (l x w x h)	7000x3000x2600 mm
Area	21 m ²
Weight (approx.)	2000 kg

