

Technical Specifications

Performance data



Feature	CM 190 Cemotec™	CT 193 Cyclotec™	KN 195 Knifetec™	Homogenisers
Sample Type	<p>Dry samples prior to moisture analysis, up to 15% Moisture and 10% Fat, such as:</p> <p>Grains, Cereals Seeds Beans Dry granular foods Pelleted feed Fertilizer</p>	<p>Dry samples prior to wet chemistry or IR analysis, up to 15% Moisture and 10% Fat, such as:</p> <p>Grains, Cereals Seeds Petfood pellets Hay, straw (dried and cut to 2-3cm) Silage (dried and cut to 2-3 cm) Pelleted feed Leaves Lime, Coal, Tobacco</p>	<p>High-moisture, high-fat and fibrous samples, such as:</p> <p>Grains, Cereals Beans Oilseeds Nuts Peas - wet and dry Maize (Corn) - wet and dry Pelleted feed and Pet food (3-4 mm) Pellets up to 6 mm - with lid for pellets Meat products Vegetables and Fruit</p>	<p>High-moisture, high-fat and fibrous samples, such as:</p> <p>Meat and meat products Whole prepared meals Forage, hay, straw and silage (297 recommended) Fish* and fish products Vegetables and fruit Chemical and pharmaceutical formulations</p> <p><i>*May require descaling and or skinning</i></p>
Sample Size	Up to 14 mm Ø	Up to 10 mm, large inlet up to 40 mm	Maximum 100 ml (50 - 150 g)	(294): 0,1 - 1,5 kg (297): 0.1 - 2.5 kg
Grinding Principle	Two discs, one rotating one stationary	Impeller, abrasive ring, and screen	Rotor blade	Various rotor blade
Grinding Rate/Time	Appr. 3 g/s	Appr. 4 g/s	2 to 10 seconds	20 to 60 s
Grinding Speed	Grinding disc 3.000 rpm	Impeller 10.000 rpm	Blade 20.000 rpm	(294): Blade 1.500 rpm (297): Blade 1.500/3.000 rpm
Particle Size	Coarse grist	Fine and uniform grist	Depending on sample	Depending on sample
Timer	No	No	Yes	No
Safety	Microswitch	Microswitch	Microswitch	Magnetic safety switch
Cleaning	Low cross contamination	Low cross contamination	Manual	Manual

Ordering information

CM 190 Cemotec™

- CM 190 Cemotec™ complete with hardened Grinding Discs, disposable Sample Bottles (20), Allen Keys 4 and 5 mm, Hopper with cover, User's Manual, 200-230 V, 50-60 Hz
- Same as above but for 115 V, 50-60 Hz

Accessories

- Disposable Sample Bottles (150 ml) of polypropylene with snap on lid 100/pkg
- Disposable Sample Bottles (150 ml) of polypropylene with snap on lid 500/pkg
- Grinding Discs (1 pair)
- Seal for Sample Bottle

CT 193 Cyclotec™

- CT 193 Cyclotec™ complete with 2 Sample Bottles (125 ml) with snap-on lid, screens 0.5 and 1.0 mm, Allen Keys 4 and 6 mm, Seal for Grinding Chamber, Paper Bag for Dust Collection, Seal for Samples Bottle, User's Manual, 200-230 V, 50 Hz
- Same as above but for 115 V, 60 Hz
- Same as above but for 200-230 V, 60 Hz
- Same as above but for 115 V, 50 Hz

Accessories

- Sample Bottles with lids, dark glass for UV protection, 125 ml, case of 104
- Sample Bottles with lids, dark glass for UV protection, 125 ml, case of 52
- Lid for Sample Bottles
- Large Inlet/Forage Assembly Kit
- Dust Collection with external connection
- Paper Bags for Dust Collection, pack of 10
- Dust Filter Pad
- Screen 0.3 mm (use together with 1 or 2 mm Screen)
- Screen 0.5 mm
- Screen 0.8 mm
- Screen 1.0 mm
- Seal for Sample Bottle
- Seal for Grinding Chamber
- Seal for Dust Filter Cover
- Seal Kit
- Impeller, Standard
- Impeller, Nickel-plated
- Holder for 500 ml Sample Bottle
- Sample Bottle 500 ml with lid, 1 pcs
- Grinding Ring, made of tungsten carbide – Standard
- Grinding Ring for Hard Sample
- Steel Grinding Strip, self-adhesive, set of 3

KN 195 Knifetec™

- KN 195 Knifetec™ complete with rotor blade, PVC tubing 4m, tubing clamp, User's Manual, 230 V, 50-60 Hz
- Same as above and also including Transformer for 115 V operation, 50-60 Hz

Accessories

- Rotor blade standard, complete
- Rotor blade with sharp knives, complete
- Rotor blade for small volume
- Rotor blade for pellets
- KN 195 Knifetec™ lid for pellets
- Disposable Sample Bottles (150 ml) of polypropylene with snap-on lid 100/set
- Disposable Sample Bottles (150 ml) of polypropylene with snap-on lid 500/set
- Stainless steel tray

HM 294 Homogeniser

- Homogeniser complete with Stainless Steel Bowl (3.5 l), multipurpose cutter with microteeth blades, transparent lid and User's Manual, 1.500 rpm, 1 x 230 V, 50 Hz
- Same as above but for 1 x 115 V, 60 Hz

Accessories

- Stainless steel bowl. 3.5 l
- Cutter with smooth blades
- Cutter with microteeth blades
- Grindstone for blades

HM 297 Homogeniser

- Homogeniser 1500 / 3000 rpm, 3 phase, 400 V, 50Hz, complete with Stainless steel bowl 5.5 l, Cutter with microteeth blades, transparent lid with integrated scraper and User Manual
- Homogeniser, variable speed up to 1500rpm, 1-phase, 115 V, 60 Hz, complete with Stainless steel bowl 5.5 l, Cutter with microteeth blades, transparent lid with integrated scraper and User's Manual

Accessories

- Stainless Steel Bowl 5.5 litres, 2097
- Cutter with Smooth Blades, 2097
- Cutter with Micro Teeth Blades, 2097
- Grind Stone for Blades

Installation requirements

CM 190 Cemotec™

Power supply:	200-230 V, 50-60 Hz 115 V, 50-60 Hz
Power consumption:	600 W
Net weight:	18 kg
Dimensions, L x D x H:	220 x 400 x 400 mm
Rotor speed, grinding disc:	3.000 rpm

CT 193 Cyclotec™

Power supply:	200-230 V, 50 Hz 115 V, 60 Hz 200-230 V, 60 Hz 115 V, 50 Hz
Power consumption:	600 W
Net weight:	18 kg
Dimensions, L x D x H:	220 x 300 x 400 mm
Rotor speed, impeller:	10.000 rpm

KN 195 Knifetec™

Power supply:	230 V, 50-60 Hz Incl. Transformer 115/230 V 115 V, 50 Hz
Power consumption:	120 W
Net weight:	7,5 kg
Dimensions, L x D x H:	190 x 290 x 250 mm
Rotor speed, impeller:	20.000 rpm
Water supply:	2 l/min, 8-10°C

HM 294 Homogeniser

Power supply:	230 V, 50 Hz 1-phase 115 V, 60 Hz 1-phase
Power consumption:	500 W
Net weight:	15 kg
Capacity:	3.5 l bowl. 1,5 l liquid content
Rotor speed:	1.500 rpm
Dimensions, L x D x H:	250 x 410 x 300 mm

HM 297 Homogeniser

Power supply:	400 V, 50 Hz 3-phase 115 V, 60 Hz 1-phase
Power consumption:	750 W 1-phase / 1400 W 3-phase
Net weight:	25.5 kg
Capacity:	5.5 l bowl. 2,5 l liquid content
Rotor speed:	1.500 rpm (1-phase) 1.500 and 3.000 rpm (3-phase)
Dimensions, L x D x H:	270 x 460 x 400 mm

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