

With capacity for 4 tubes of 8", 6", trace and 28 "finger" tubes. Versatile and effective, the best option out of all the centrifuges for oil applications.

Features

- Designed for oil/petrol applications according the standards: ASTM D 91, D96, D 893, D 1796, D2273, D2709, D 2711, D 4007, D 5546, API 2542, API 2548, BS 4385, ISO 3734, ISO 9030, IP75, IP 359, NF M07-020, DIN 51793, Fits Babcock bottles.
- Tubes upright on rest.
- GRS: Gas release system (optional); pre-installation included.

TET color touch screen, visible from more than 3 m.:

- Shows RPM and RCF, time, temperature, acceleration/deceleration values (PCBS) and unbalance location system (ULS).
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based on accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
- Timer from 1 sec to 99 hours programmable in 1 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- ULS: Unbalance location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programmes without the need of user intervention.
- 100 programmable memories, with protection under password.
- Several acoustic and visual messages showing the situation of the device to the user.

Easy to use

- Microprocessor controlled. Connectivity.
- Induction motor maintenance free (brushless).
- Rotors and adapters list in memory.
- Noise level: below 60 dB.
- Start, stop, open lid and short spin with adjustable speed buttons.
- Possibility to block or modify the speed during the cycle.
- Last values remain in memory.
- Automatic rotor recognition. Over-speed protection.

Safety

- Automatic lid lock system, motorized with double lock.
- Locking and protection against opening along the run.
- Lid dropping protection.
- Port in the lid for calibration and operation checking.

- Protection safety ring between the centrifugation chamber and the housing.
- Chamber of centrifugation in stainless steel (easy cleaning).
- Rotors and adapters autoclavable, easy to install by the user.
- Automatic disconnection for energy saving up to 8 h.









EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU. Standards: EN 61010-1, EN 61010-2-020, EN 61010-2-101, EN 61326-2-6, EN 61326-1, EN 61010-2-010.

Heating

- Preheating program with rotor spinning and selectable temperature. It allows keeping the chamber at working temperature before starting the process.
- Regulation of the room temperature +5°C (41°F) to 80°C (176°F) in 1°C/1°F steps. Programmable in °C o °F.
- Temperature sensor inside the chamber. Overheating protection.
- Internally isolated avoiding heat loss.

Versions

		imensio n) (w x d		Net Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	
E 238	530	640	420	77	220-230	50-60	1.200	
E 239	530	640	420	77	110-120	50-60	1.200	
rreco	enries				RT 293		RT 289	







ROTOR		SWIN	IG OUT	SWING	OUT
Max. capacity		4x100 ı	ml. (8/6")	4x100 r	nl. (8")
RPM Max.		3.0	000	3.00	00
Radius (mm)		2	41	24	1
RCF Max. (xg)		2.	425	2.42	25
SAMPLE VOLUME	Dim (mm) approx.	ADAI	PTERS	ADAPTERS	
PAINIFLE VULUIVIE	Dilli (IIIIII) approx.	Tubes	Ref.	Tubes	Ref.
ASTM cone shape 6"	Ø 44-46x162-167	4	RE 475	-	-
ASTM pear shape	Ø 58-59x157-160	4	RE 477	-	-
ASTM trace/cone 8"	Ø 36-38x195-203	4	RE 476	4	-
API finger 12,5 ml	Ø 16x105	28	RE 456	4	RE 455
API finger 12,5 ml	Ø 16x105	-	-	16	RE 454

Available tubes, check tube features at pag. 22 of the general catalogue.

Check the max. RCF allowed for your ASTM tubes. Max. RCF supported by our ASTM tubes 850 xg.

3 YEAR WARRANTY

- Lid provided with security systems:
- Emergency lid-lock release.

- Unbalance detection and switch off.

The most affordable option in the range of centrifuges for oil laboratories that, due to regulations. do not require heating. It has the same accessories as the heated models, all of them are especially designed for working with oily substances as well as the reagents used in regulations applicable with oil.

Effective, guick, versatile, allowing you to work with 6" and 8" conical profile tubes, pear type tubes and "finger" type tubes for small volumes. It has a pre-installation for incorporating a gas release system at any time during the life of the equipment.

Features

- Designed for oil/petrol applications according the standards: ASTM D 91, D 893, D 2273, D 2709, D 5546, API 2542, API 2548, BS 4385, DIN 51793.
- Tubes upright on rest.
- GRS: Gas release system (optional); pre-installation included.

TFT color touch screen, visible from more than 3 m.:

- Shows RPM and RCF, time, acceleration/deceleration values (PCBS) and unbalance location system (ULS).
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based on accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
- Timer from 1 sec to 99 hours programmable in 1 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- ULS: Unbalance location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programmes without the need of user intervention.
- 100 programmable memories, with protection under password.
- Several acoustic and visual messages showing the equipment status to the user.

Easy to use

- Microprocessor controlled. Connectivity.
- Induction motor maintenance free (brushless).
- Rotors and adapters list in memory.
- Noise level: below 60 dB.
- Start, stop, open lid and short spin with adjustable speed buttons.
- Possibility to block or modify the speed during the cycle.
- Automatic lid opening, programmable
- Last values remain in memory.
- Automatic rotor recognition. Over-speed protection.













EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU. Standards: EN 61010-1, EN 61010-2-020, EN 61010-2-101, EN 61326-2-6, EN 61326-1.

Safety

- Lid provided with security systems:
- Automatic lid lock system, motorized with double lock.
- Emergency lid-lock release.
- Locking and protection against opening along the run.
- Lid dropping protection.
- Port in the lid for calibration and operation checking.
- Unbalance detection and switch off.
- Protection safety ring between the centrifugation chamber and the housing.
- Chamber of centrifugation in stainless steel (easy cleaning).
- Rotors and adapters autoclavable, easy to install by the user.
- Forced ventilation to reduce temperature increasing.
- Automatic disconnection for energy saving up to 8 h., with deactivation option.

Versions

	Dimensions (mm) (w x d x h)				Voltage (V)	Frequency (Hz)	Consumption (W)
CE 242	530	640	420	74	220-230	50-60	440
CE 243	530	640	420	74	110-120	50-60	440

Accessories

RT 293

RT 289



ROTOR		SWIN	IG OUT	SWING	OUT	
Max. capacity		4x100	ml. (8/6")	4x100 n	nl. (8")	
RPM Max.		3.	000	3.000		
Radius (mm)		2	241	241		
RCF Max. (xg)	2.	425	2.425			
SAMPLE VOLUME	Dim (mm) approx.	ADA	PTERS	ADAPTERS		
SAIVII LL VOLUIVIL	Dilli (IIIIII) appiox.	Tubes	Dof	Tubes	Def	
		Tubes	Ref.	Tubes	Ref.	
ASTM cone shape 6"	Ø 44-46x162-167	4	RE 475	- Tubes	Ket.	
ASTM cone shape 6" ASTM pear shape	Ø 44-46x162-167 Ø 58-59x157-160	10.00				
· · · · · · · · · · · · · · · · · · ·		4	RE 475			
ASTM pear shape	Ø 58-59x157-160	4	RE 475 RE 477	-	-	
ASTM pear shape	Ø 58-59x157-160	4	RE 475 RE 477	-	-	

Available tubes, check tube features at pag. 22 of the general catalogue.

Check the max. RCF allowed for your ASTM tubes. Max. RCF supported by our ASTM tubes 850 xg.





3 YEAR WARRANTY



The largest of our centrifuges for oil, with capacity for 8 tubes of 8", the best option for centres that carry out a large number of tests every day.

Features

- Designed for oil/petrol applications according the standards: ASTM D 91, D96, D 893, D 1796, D2273, D2709, D 2711, D 4007, D 5546, API 2542, API 2548. BS 4385, ISO 3734, ISO 9030, IP75, IP 359, NF M07-020, DIN 51793, Fits Babcock bottles.
- Tubes upright on rest.
- GRS: Gas release system (optional); pre-installation included.

TFT color touch screen, visible from more than 3 m.:

- Shows RPM and RCF, time, temperature, acceleration/deceleration values (PCBS) and unbalance location system (ULS).
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based on accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
- Timer from 1 sec to 99 hours programmable in 1 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- ULS: Unbalance location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- Start delay: To program the time at which the cycle is to begin.
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- Noise level: below 60 dB.
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Safety

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- Automatic lid lock system, motorized with double lock.
- Emergency lid-lock release.
- Locking and protection against opening along the run.
- Lid dropping protection.
- Port in the lid for calibration and operation checking.
- Unbalance detection and switch off.

- Protection safety ring between the centrifugation chamber and the housing.
- Chamber of centrifugation in stainless steel (easy cleaning).
- Rotors and adapters autoclavable, easy to install by the user.
- Automatic disconnection for energy saving up to 8 h.



Max. Capacity

Screen Type









Heating

61010-2-010.

- Preheating program with rotor spinning and selectable temperature. It allows keeping the chamber at working temperature before starting the process.
- Regulation of the room temperature +5°C (41°F) to 80°C (176°F) in 1°C/1° F steps. Programmable in °C o °F.
- Temperature sensor inside the chamber. Overheating protection.
- Internally isolated avoiding heat loss.

Versions		imension n) (w x d		Net Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	
CE 240	530	640	420	77	220-230	50-60	1.450	
CE 241	530	640	420	77	110-120	50-60	1.450	

Accessories



RT 294

ROTOR		SWIN	IG OUT	SWI	NG OUT	SWIN	IG OUT
Max. capacity		4x100	ml. (8/6")	4x100) ml. (8")	8x100	ml. (8/6")
RPM Max.		3.	000	3	.000	2.	000
Radius (mm)		2	241	2	241	2	39
RCF Max. (xg)		2.	425	2	.425	1.	069
SAMPLE VOLUME	Dim (mm) annroy	ADA	PTERS	ADAPTERS		ADAPTERS	
SAIVIPLE VULUIVIE	Dim (mm) approx.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
		Innes	1161.	Tubes	1161.	IUDGS	1161.
ASTM cone shape 6"	Ø 44-46x162-167	4	RE 475	-	-	8	-
ASTM cone shape 6" ASTM pear shape	Ø 44-46x162-167 Ø 58-59x157-160	4					
		4	RE 475				
ASTM pear shape	Ø 58-59x157-160	4	RE 475 RE 477	-	-	8	-

Available tubes, check tube features at pag. 22 of the general catalogue.

Check the max. RCF allowed for your ASTM tubes. Max. RCF supported by our ASTM tubes 850 xg.

GAS RELEASE SYSTEM

Accessories for centrifuge series Digtor 22 C

The petroleum testing laboratories environment presents a number of risks inherent to the type of sample. The devices used for the analysis of samples should ensure minimal risk conditions in the work environment, a critical premise in the development of devices for this application at Ortoalresa.

Centrifugation processes for the determination of water and sediment in petroleum, require an organic solvent which, reacting with the sample and the caloric intake of the equipment, generates aerosols. In order to remove this gas from the centrifuge and take it to a safe area, Ortoalresa has designed the GRS (Gas Release System) as an accessory for all of the Digtor 22 C series centrifuges. This accessory creates low pressure intake or vacuum suction, inside the centrifuge chamber, concretely on its top, when locked, that allows the suction of the atmosphere high in aerosols. This atmosphere is piped through the GRS up to its exit, where it can be treated in isolation. The whole circuit is continuously monitored by the equipment, that will manage the right moment to operate the system. Moreover, it only requires the presence of a compressed air supply of 2 bar pressure, in order to create a 101/min suction, sufficient to perform the suction of the centrifuge inside chamber volume every 5 min.

GRS main functions are:

- Decreasing gas concentration during operation, and therefore the risk of explosion.
- Eliminating the user's health risk by inhalation of produced vapors
- Avoiding gas dispersion into laboratory environment.

Easy to use

- It only requires a compressed air supply.
- It has 4 connections: A compressed air inlet, an air inlet for air removed from the equipment, an atmosphere outlet to a safe area, and the control input from the equipment.
- Operation pilot light.
- Air inlet pressure regulator.
- Inlet pressure gauge.
- Operation controlled by core equipment.

Features

- Setting up at a 2 bar pressure, creates a 10 l/min suction.
- 0.2 bar gauge accuracy.
- Max 8 bar inlet pressure.
- Fast inlet and outlet connections.
- Suction capacity: minimum twice total chamber volume in 10 min.

Safety

- Hazardous gases input is not required.
- Low noise level <40 dB.
- Powered only by rotor in motion and lid blocked.
- Low power consumption.

EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU. Standards: EN 61010-1, EN 61010-2-020, EN 61326-1,EN 61010-2-010.

Versions

)imensio n) (w x d		Net Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	
CP 001	140	220	120	2	220-240	50-60	20	
CP 004	140	220	120	2	110-120	50-60	20	



ROLLING TABLE

Accessories for centrifuge series Digtor 22 C

With the aim of offering an alternative to those laboratories that need to increase their equipment, but do not have enough space, we have designed these rolling tables for our centrifuges.

This accessory allows the equipment to be positioned and moved easily thanks to its four 360° rotating wheels. Once the rolling table is located, and before starting to work with the centrifuge, the wheels can be fixed with the brake system that will prevent involuntary displacement during the centrifugation process. The robust design supports the weight of the equipment and prevents vibration transfer.

We offfer two types of tables, one with height to locate the equipment at the same height as if they were on the laboratory table and another, that enables you to place your centrifuge under the table of your laboratory, saving even more space.

A solution for each type of need.

References

	Dimensions (mm) (w x d x h)			Net weight (kg)	Centrifuge model	
CP 007	560	590	580	65	Series Digtor 22 C	



Crude Petrol

Crude Petrol Standard ISO 9030: with 8" conical tube - TU 030 and tube stoppers - PV 156



Lubricating oil

Standards:

ASTM D91 with 8" conical tube -TU 030 ASTM D893 with 8" conical tube - TU 030 ASTM D2273 with 8" trace tube - TU 056 ASTM 2711 with 8" conical tube -TU 030



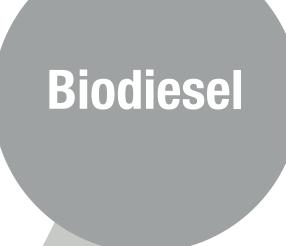
Digtor 22 C Series
Applications

Crude Oil

Crude Oil

Standards:
ASTM D96 with:
8"conical tube -TU 030
or 6" conical tube -TU 050

ASTM D4007 with: conical tube 8" - TU 030 and tube stoppers - PV 156



Biodiesel

Standard ASTM D2709: with 8" trace tube - TU 056

Fuel oil

Polishes

Polishes

Standard ASTM D1290: with 8" conical tube TU 030

Fuel oil

Standards:

ASTM D1796 with 8" conical tube - TU 030 ASTM D2709 with 8" trace tube - TU 056 ISO 3734 with 8" conical tube - TU 030