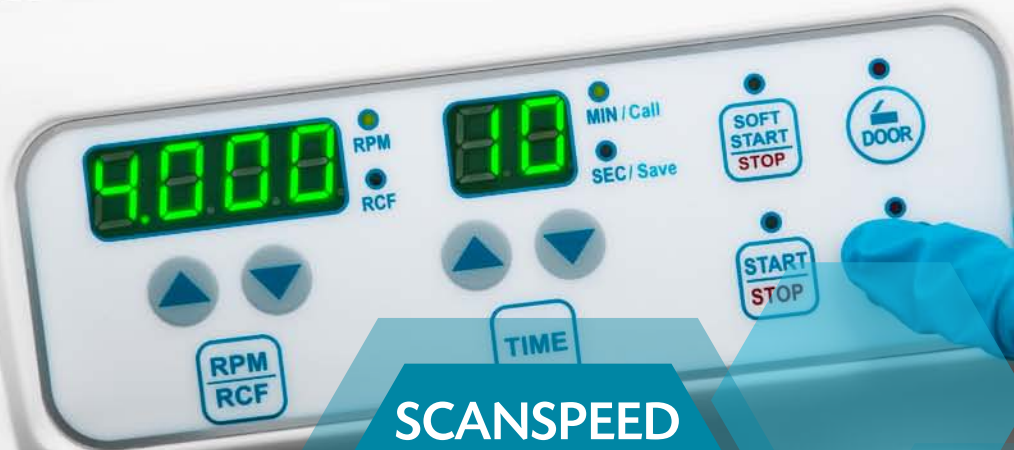
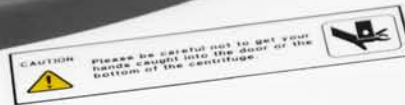




# SCANSPEED

Centrifuges - From Simple Separation to Sequencing



SCANSPEED  
**416**  
GENERAL PURPOSE  
*Low Speed Centrifuge*

-  **LOW NOISE LEVEL**  
52dBa with airflow damping and elimination of sample heating
-  **LARGE CAPACITY**  
Swing out rotor takes 12 x 15mL Conical tubes, 4 x 100mL tubes or 20 vacu-tainers

# THE SCANSPEED 416 OFFERS

The ideal low speed centrifuge for general laboratory applications, including biological sample separations of cellular materials, blood, urine, sperm etc. The ScanSpeed 416 offers complete sample flexibility and versatile usage, with low noise less than 52 dBa and with gentle spinning facility with complete security and safety for your samples, laboratory and personnel.



## CONVENIENCE EASE OF OPERATION



### INTUITIVE DISPLAY

with easy to follow  
controls



### SOFT SPIN KEY

for gentle  
acceleration and  
deacceleration.



### TIME CONTROLS

for timed runs up  
to 99 minutes or  
continuous operation



### MEMORY

for up to 10  
programs

## SAFETY & DURABILITY



### DOUBLE LAYERED

door construction  
(ABS/Steel), decreases  
heat and noise transmission



### LOW BACKGROUND NOISE

Noise minimizing air-cooling  
structure drives efficient air flow  
and reduces spinning frictions



### BIO-CAPS BUCKETS

aerosol tight buckets  
prevents contamination  
and ensures safety



### AUTOCLAVABLE

and corrosion resistant rotors  
ensures the safety and long life



# ROTORS & ACCESSORIES

A large programme of Rotors, fixed angle or swing-out with Buckets and Adaptors that takes 12 x 15mL conical tubes, 20 vacu-tainers or 4 x 100mL tubes. Select from the wide choice of rotors for your application, sample size and configuration.



## CHOICE OF ROTORS



**FIXED ANGLE ROTOR**  
with or without adaptors  
accepts 1.5-15mL tubes



**SWING OUT**  
with buckets, with or without  
adaptors, accepts 15mL to 50mL tubes



**MICROPLATE ROTOR**  
for 2 or 4 micro titre plates





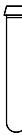
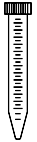





**BIOCAP BUCKET ROTOR**  
buckets with or without BioCaps, aerosol  
tight and autoclaveable covers

# FIXED ANGLE ROTOR

with 16 steel sleeves taking 16 x 15mL round or conical tubes or with adaptors accepts 3mL tubes



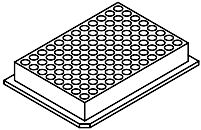
Tube						
TUBE CAPACITY (mL)	15	3	4	5	10	15mL conical
Adaptor						
CAT.NO	-	7.601.113.030	7.601.113.035	7.601.113.040	-	-
ADAPTER $\Phi$ x l. (mm)	-	13 x 63	13 x 65	13 x 85	-	-
MAX. RPM	4,000	4,000	4,000	4,000	4,000	4,000
MAX. RCF (G-FORCE)	2,700	2,397	2,433	2,692	2,638	2,700
RADIUS (mm)	151,5	134	136	146	150,5	147,5

Angle Rotor	
<b>7.601.111.130</b> » 16 x 15mL conical	
ANGLE	45°
HOLE DIAMETER ( $\Phi$ x H) mm	18
MAX HEIGHT FOR TUBE FIT (mm)	135 (125 for conical)

# MICROPLATE ROTOR

For 2 or 4 Micro-titre plates





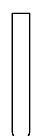


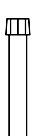
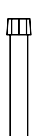




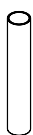
Tube	
TUBE CAPACITY (mL)	MTP
RACK CAPACITY (EA/2)	2/4
MAX. RPM	4,000
MAX. RCF (G-FORCE)	1,986
RADIUS (mm)	111

Swing Rotor	
<b>7.601.111.180</b> » 2 loadings	
ANGLE	90°
AREA DIMENSION (mm)	86.3 x 130.3
MAX HEIGHT FOR TUBE FIT (mm)	35

# SWING OUT ROTOR 50ML

For 4 x 50mL tubes



Tube							
TUBE CAPACITY (mL)	50	50mL conical	15	15mL conical	3	4	5
Adaptor							
CAT. NO.	-	7.617.113.030	7.601.113.045		7.601.113.030	7.601.113.035	7.601.113.040
ADAPTER $\Phi$ x L (mm)	-	29,5 x 17,5	18,5 x 100		13 x 63	13 x 65	13 x 85
MAX. RPM	4,000	4,000	4,000		4,000	4,000	4,000
MAX. RCF (G-FORCE)	2,700	2,700	2,700		2,397	2,433	2,692
RADIUS (mm)	151,5	151,5	151,5		134	136	146

## Swing Rotor

**7.601.111.140**

» Rotor including 4 buckets for 50mL tubes

ANGLE 90°




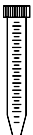

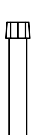
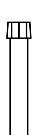




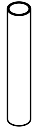
HOLE DIAMETER ( $\Phi$ ) mm 30.5

MAX HEIGHT FOR TUBE FIT (mm) 130

# SWING OUT ROTOR 50ML BIOCAP

For 4 x 50mL tubes



Tube							
TUBE CAPACITY (mL)	50	50mL	15	15mL conical	3	4	5
Adaptor							
CAT. NO.	-	7.617.113.030	7.601.113.045		7.601.113.030	7.601.113.035	7.601.113.040
ADAPTER $\Phi$ x L (mm)	-	29,5 x 17,5	18,5 x 100		13 x 63	13 x 65	13 x 85
MAX. RPM	4,000	4,000	4,000		4,000	4,000	4,000
MAX. RCF (G-FORCE)	2,700	2,700	2,700		2,397	2,433	2,692
RADIUS (mm)	151,5	151,5	151,5		134	136	146

## Swing Rotor

**7.601.111.190**

» Rotor including 4 buckets for 50mL tubes and aerosol tight Bio caps

ANGLE 90°

HOLE DIAMETER ( $\Phi$ ) mm 30.5

MAX HEIGHT FOR TUBE FIT (mm) 120

# SWING OUT ROTOR UNIVERSAL

For 4 x 100mL tubes



## Swing Rotor

**7.601.140.000**

» Rotor including 4 buckets for 100mL tubes and aerosol tight Bio caps

ANGLE	90°
HOLE DIAMETER (φ) mm	47
MAX. HEIGHT FOR TUBE FIT (mm)	120


Tube										
TUBE CAPACITY (mL)	1.5-2.0mL x 6	2.6-7mL x 5	4-10mL x 5	9-15mL x 3	C15mL x 3	C15mL	50mL	C50mL	85mL	100mL
Tube Rack										
CAT. NO.	GAM-m2.0-6 (b100)	GAM-7-5 (b100)	GAM-10-5 (b100)	GAM-15-3 (100)	GAM-c15-3 (100)	GAS-c15 (b100)	GAS-50 (b100)	GAS-c50 (b100)	GAS-85 (b100)	GAS-100 (b100)
RACK Φ x l. (mm)	46.8 x 44	46.8 x 65	46.8 x 65	46.8 x 108	46.8 x 108	46.8 x 108	46.8 x 108	46.8 x 108	46.8 x 108	46.8 x 108
HOLE DIMENSION Φ x l. (mm)	11 x 44	13.5 x 65	16 x 65	17.5 x 108	17.2 x 108	17.2 x 108	29.5 x 108	30 x 108	38 x 108	44 x 95
MAX. RPM	« 4.000 »									
MAX. RCF (G-FORCE)	« 2.700 »									
RADIUS (mm)	« 151,5 »									
ITEM NO.	7.601.400.010	7.601.400.020	7.601.400.030	7.601.400.040	7.601.400.050	7.601.400.060	7.601.400.070	7.601.400.080	7.601.400.090	7.601.400.100

\*With no bioseal cap

# TECHNICAL SPECIFICATIONS

	FIXED ANGLE ROTOR	SWING ROTOR
MAX. CAPACITY	16 x 15mL	4 x 2 x 15mL 4 x 50mL 2 x 2 x MTP 12 x 15mL 4 x 100mL
MAX. RPM/RCF	4,000/2,700	4,000/2,700
TIME CONTROL	Timed < 100 min	
RCF/RPM CONVERSION	Yes	
NOISE LEVEL (DEPENDENT ON ROTOR)	≤52 dB	
ACC. TIME TO MAX. SPEED	≤20 sec	
DEC. TIME FROM MAX. SPEED	≤25 sec	
SOFT START / STOP	Yes	

PROGRAM MEMORY	10
IMBALANCE CUTOUT	Yes
SAFETY LID LOCK	Yes
LID DROP PROTECTION	Yes
AUTOMATIC DOOR RELEASE AT COMPLETION	Yes
POWER REQUIREMENT	300 VA
DIMENSION (W x D x H)	375 x 480 x 260 mm
WEIGHT WITHOUT ROTOR	19.5 kg
CE MARK	Yes
POWER SUPPLY	220-240Volt / 50Hz 110Volt/60Hz
CAT. NO.	7.617.514.201 / 7.617.514.802



DESIGNED  
TO SUIT YOUR  
**EXACT NEEDS**

*Special rotors or adaptors can be  
made to specific requirements*

.....  
Contact us for details  
.....

# KEY FEATURES



## THE BEST FUNCTIONAL QUALITY

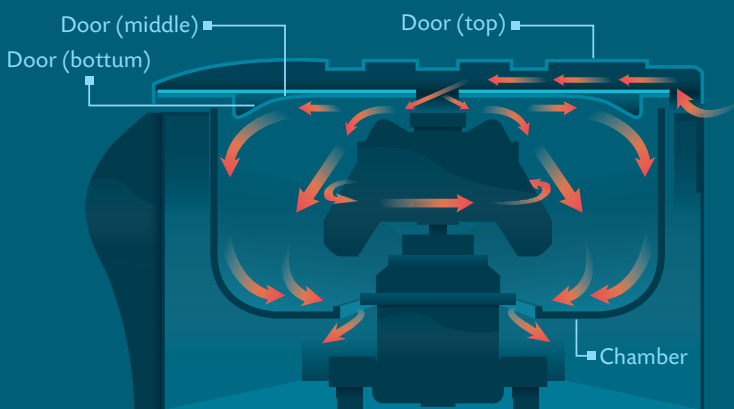
- Manufactured and tested to IEC Standards, stable spinning operation within +/- 2% variation
- Steady and soft deceleration with dynamic brake technology
- Unique internal air flow design protects samples from heating up

## CONVENIENCE IN OPERATION

- Easy to follow display and controls
- Easy recognisable, bright white lettering on the blue LED display panel
- Time control of pulse, timed, and continuous
- Automatic RPM/RCF conversion
- Programme memory that stores up to 10 discreet protocols
- Easy to check actual rpm on the top window of door

## SAFETY AND ROBUSTNESS

- Double layered door structure decreases noise and heat giving increased safety
- The outer door is constructed from ABS and inner section from strong steel
- Safety door lock mechanism ensures the door is locked whilst in operation mode
- Unique door-drop protection protects the operator and samples when loading and unloading
- Automatic door-opening function when rotor is static, protecting both the operator and samples
- Emergency door lock release mechanism in case of power failure or interruption enabling sample retrieval
- Autoclavable and corrosion resistant rotors protect samples, operators, and lab environments from contamination
- In Vitro Diagnostic - 98/79 CE



## LOW BACKGROUND NOISE

*Noise minimizing air-cooling structure*

The unique patented internal design drives efficient air flow inside the instrument and reduces spinning frictions so that motor temperature and noise within the centrifuge are minimized.



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Scandinavian by Design

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