



**60**  
YEARS OF  
QUALITY  
AND  
TRUST

*Selection Guide for Hanil Scientific Centrifuges*

**韓國 No.1 翰尼爾離心機**



[www.ihanil.com](http://www.ihanil.com)

# 微量高速離心機 High Speed Micro Centrifuges

## Smart R17 Plus



### Fixed Angle Rotor

max. 17,000 rpm      max. 24 x 2.0 mL  
max. 23,000 xg      max. 4 PCR Strip

## Smart 15 Plus



### Fixed Angle Rotor

max. 15,000 rpm      max. 24 x 2.0 mL  
max. 21,055 xg      max. 4 PCR Strip



A0.2M-32



A2.0M-18

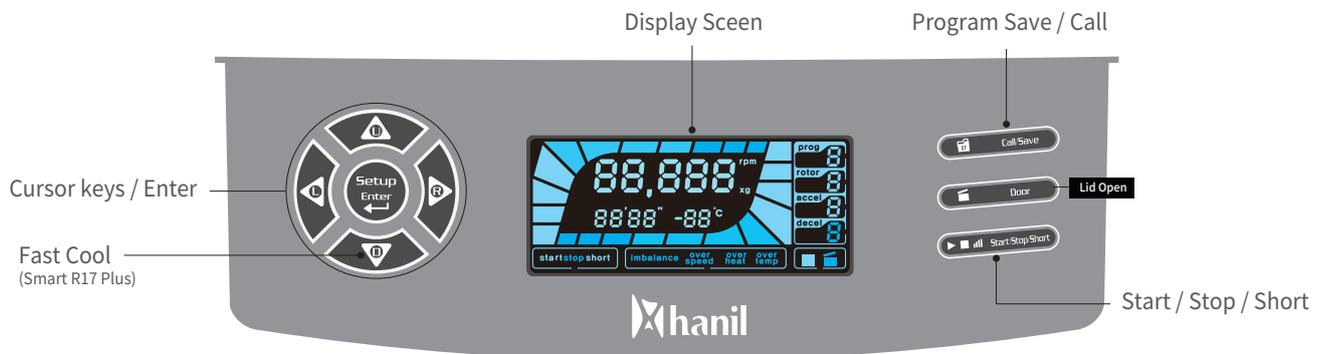


A2.0M-24



A2.0MP-24

## Display & Control Panel



Smart R17 Plus / Smart 15 Plus

# Smart R17 Plus

## 微量高速冷凍離心機

<b>TEMP</b> -10°C to +40°C	<b>17,000</b> MAX. RPM	<b>23,005</b> MAX. RCF	<b>2.0ml x 24</b> MAX. CAP
	MAX. RPM	MAX. RCF	MAX. CAP



### Features

- 同級微量冷凍機型最高C/P值
- 兼容角轉子(1.5/2.0 mlx24)及PCR轉子(0.2 mlx32)
- 可同時顯示RPM及RCF
- 同級最高轉速17,000 rpm( rcf:23005 xg)
- 具加速及減速控制功能，用於複雜樣品分離實驗
- 加速15 secs和減速 15 secs (17,000 rpm)
- 雙通路降溫系統，3分鐘內快速降至4°C
- 彩色控制面板，圖形介面操作容易
- 高效直流無刷馬達，專利低震動壓縮機
- 多種安全監控機制(不平衡、過熱、上蓋安全鎖等等)



簡潔大方的顯示面板



內腔優化，有效冷卻



**A0.2M-32**

PCR Strip Rotor  
32 x 0.2 mL  
max. 12.5K rpm



**A2.0M-18**

Fixed Angle Rotor  
18 x 1.5/2.0 mL  
max. 17K rpm



**A2.0M-24**

Fixed Angle Rotor  
24 x 1.5/2.0 mL  
max. 15K rpm

\* 另有A2.0MP-24 Rotor附PP上蓋



### Technical Specifications

		Smart R17 Plus
Speed	Max. RPM / Fixed angle	17,000 rpm
RCF (xg)	Max. RCF / Fixed angle	23,005 xg
Max. capacity / Fixed angle		24 x 1.5/2.0 mL, 4 PCR strips
ACC/DEC	ACC/DEC ramps	9/10 steps
	Acc. time to max. speed	≤ 15 sec
	Dec. time from max. speed	≤ 15 sec
Temperature	Temperature range	-10°C to 40°C
	Fast cool	Yes
Time control		< 100 min, pulse, continuous
Program memory		10
Noise level		< 60 dB
Imbalance cutoff / tracking		Yes
Rotor identification		manual
Dimension (W x D x H, mm)		294 x 480 x 278
Weight without rotor		33 kg
Cat. No.		SM-R17PL

# Smart 15 Plus

## 微量高速離心機 (氣冷式)

<b>15,000</b> MAX. RPM	<b>21,055</b> MAX. RCF	<b>2.0ml x 24</b> MAX. CAP
MAX. RPM	MAX. RCF	MAX. CAP

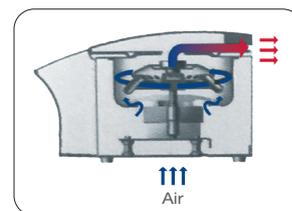


### Features

- 兼容角轉子(1.5/2.0 ml x 24)及PCR轉子(0.2 ml x 32)
- 可同時顯示RPM及RCF
- 同級最高轉速 15,000 rpm
- 具加速及減速控制功能，用於複雜樣品分離實驗
- 加速15 secs和減速 15secs (15,000 rpm)
- 彩色控制面板，視覺化操作
- 高效直流無刷馬達
- 多種安全監控機制(不平衡、過熱、上蓋安全鎖等等)



優化的安全性和便利性



獨特散熱設計



**A0.2M-32**  
PCR Strip Rotor  
32 x 0.2 mL  
max. 12.5K rpm



**A2.0M-18**  
Fixed Angle Rotor  
18 x 1.5/2.0 mL  
max. 17K rpm



**A2.0M-24**  
Fixed Angle Rotor  
24 x 1.5/2.0 mL  
max. 15K rpm

\* 另有A2.0MP-24 Rotor附PP上蓋



### Technical Specifications

		Smart 15 Plus
Speed	Max. RPM / Fixed angle	15,000 rpm
RCF (xg)	Max. RCF / Fixed angle	21,055 xg
Max. capacity / Fixed angle		24 x 1.5/2.0 mL, 4 PCR strips
ACC/DEC	ACC/DEC ramps	6/6 steps
	Acc. time to max. speed	≤ 15 sec
	Dec. time from max. speed	≤ 15 sec
Temperature	Temperature range	-10°C to 40°C
	Fast cool	-
Time control		< 100 min, pulse, continuous
Program memory		10
Noise level		< 60 dB
Imbalance cutoff / tracking		Yes
Rotor identification		manual
Dimension (W x D x H, mm)		293 x 380 x 242
Weight without rotor		15 kg
Cat. No.		SM-15PL

# 大容量離心機 Large Capacity Centrifuges

## Combi R515



**Fixed Angle Rotor**  
 max. 15,000 rpm  
 max. 26,664 xg  
 max. 6 x 250 mL

**Swing-out Rotor**  
 max. 4,500 rpm  
 max. 4,392 xg  
 max. 4 x 750 mL

## Combi 508

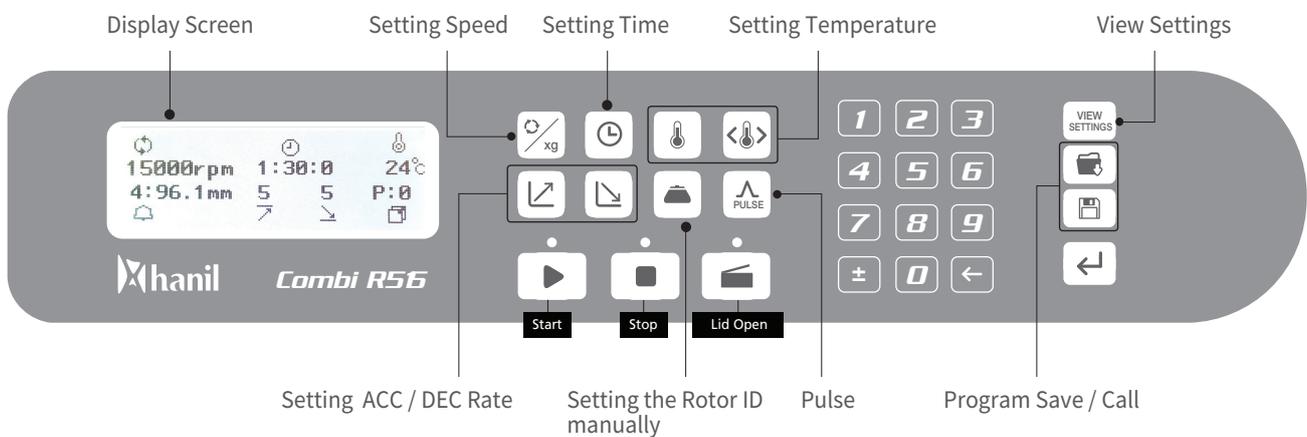


**Fixed Angle Rotor**  
 max. 8,000 rpm  
 max. 8,279 xg  
 max. 6 x 250 mL

**Swing-out Rotor**  
 max. 4,000 rpm  
 max. 3,515 xg  
 max. 4 x 750 mL



## Display & Control Panel



Combi R515 / Combi 508

# Combi R515

## 大容量高速冷凍離心機

### Fixed angle rotor

<b>TEMP</b> -10°C to +40°C	<b>15,000</b> MAX. RPM	<b>24,878</b> MAX. RCF	<b>250ml x 6</b> MAX. CAP
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### Swing-out rotor

<b>TEMP</b> -10°C to +40°C	<b>4,500</b> MAX. RPM	<b>4,392</b> MAX. RCF	<b>750ml x 6</b> MAX. CAP
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### Features

- 同級大容量冷凍機型最高C/P值
- 最大處理量可達750 ml x 4 (swing-out rotor)
- 多種angle rotor及swing-out rotor 可供選擇
- 最高轉速可達 15,000 rpm (rcf: 26,664 xg)
- 擁有10步加減速功能，用於成分複雜之樣品分離實驗
- 內建100組記憶程式
- 冷凍劑採用環保冷媒，非CFC冷媒
- Fast down : 15分鐘內快速降溫至4°C
- 多種安全監控機制 (不平衡、過熱、上蓋安全鎖等等)
- 轉子自動辨認設計

### Capacity

#### Fixed angle rotor

- 48 x PCR strips
- 24 x 1.5/2.0 mL
- 36 x 1.5/2.0 mL
- 12 x 10 mL
- 12 x 15 mL (conical)
- 6 x 50 mL (conical)
- 8 x 50 mL
- 6 x 85 mL
- 6 x 250 mL

#### Swing-out rotor

- 96 x 3/5 mL
- 84 x 10 mL
- 56 x 15 mL (conical)
- 76 x 15 mL
- 20 x 50 mL (conical)
- 25 x 50 mL
- 4 x 250 mL (conical)
- 4 x 500 mL (conical)
- 4 x 750 mL
- 4 x MTP



<b>A2.0-36</b> 36 x 1.5/2.0 mL max. 14K rpm	<b>A250-6</b> 6 x 250 mL max. 8K rpm	<b>S750-4</b> 4 x 750 mL max. 4K rpm	<b>S500-4</b> 4 x 500 mL max. 4.5K rpm
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### Technical Specifications

		Combi R515
Speed RCF (xg)	Max. RPM / Fixed angle	15,000 rpm
	Max. RCF / Fixed angle	26,664 xg
	Max. RPM / Swing-out	4,500 rpm
	Max. RCF / Swing-out	4,392 xg
Max. capacity	Fixed angle	6 x 250 mL, 36 x 1.5/2.0 mL
	Swing-out	4 x 750 mL, 76 x 15 mL, 4 MTPs
ACC/DEC ramps		10/10 steps
Temperature range		-10°C to 40°C
Time control		< 100 hr, pulse, continuous
Program memory		100
Noise level		≤ 65 dB
Imbalance cutoff / tracking		Yes
Rotor identification		Automatic
Dimension (W x D x H, mm)		723 x 665 x 387
Weight without rotor		112 kg
Power requirement (VA)		1.7 kVA
Power input (V, Hz)		210V~240V, 50/60 Hz (110V optional)
Cat. No.		CB-R515

# Combi 508

## 大容量離心機 (氣冷式)

### Fixed angle rotor

<b>TEMP</b> -10°C to +40°C	<b>8,000</b> MAX. RPM	<b>8,279</b> MAX. RCF	<b>85ml</b> x 6 MAX. CAP
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MAX. B/W	MAX. B/C	MAX. C/B
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### Swing-out rotor

<b>TEMP</b> -10°C to +40°C	<b>4,000</b> MAX. RPM	<b>3,515</b> MAX. RCF	<b>750ml</b> x 4 MAX. CAP
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MAX. B/W	MAX. B/C	MAX. C/B
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## Features

- 最大處理量可達750 ml x 4 (swing-out rotor)
- 多種angle rotor及swing-out rotor 可供選擇
- 擁有10步加減速功能，用於成分複雜之樣品分離實驗
- 內建100組記憶程式
- 多種安全監控機制 (不平衡、過熱、上蓋安全鎖等等)
- 轉子自動辨認設計
- 運行中可更改時間
- RPM/RCF可自動轉換

## Capacity

### Fixed angle rotor

- 48 x PCR strips
- 24 x 1.5/2.0 mL
- 36 x 1.5/2.0 mL
- 12 x 10 mL
- 12 x 15 mL (conical)
- 6 x 50 mL (conical)
- 8 x 50 mL
- 6 x 85 mL
- 6 x 250 mL

### Swing-out rotor

- 96 x 3/5 mL
- 84 x 10 mL
- 56 x 15 mL (conical)
- 76 x 15 mL
- 20 x 50 mL (conical)
- 25 x 50 mL
- 4 x 250 mL (conical)
- 4 x 500 mL (conical)
- 4 x 750 mL
- 4 x MTP



**A2.0-36**  
36 x 1.5/2.0 mL  
max. 14K rpm



**A250-6**  
6 x 250 mL  
max. 8K rpm



**S750-4**  
4 x 750 mL  
max. 4K rpm



**S500-4**  
4 x 500 mL  
max. 4.5K rpm

## Technical Specifications

		Combi 508
Speed RCF (xg)	Max. RPM / Fixed angle	8,000 rpm
	Max. RCF / Fixed angle	8,279 xg
	Max. RPM / Swing-out	4,000 rpm
	Max. RCF / Swing-out	3,515 xg
Max. capacity	Fixed angle	6 x 85 mL
	Swing-out	4 x 750 mL
ACC/DEC ramps		10/10 steps
Temperature range		-
Time control		< 2 hr, continuous
Program memory		100
Noise level		≤ 65 dB
Imbalance cutoff / tracking		Yes
Rotor identification		Automatic
Dimension (W x D x H, mm)		530 x 676 x 400
Weight without rotor		61 kg
Power requirement (VA)		1.0 kVA
Power input (V, Hz)		210V~240V, 50/60 Hz (110V optional)
Cat. No.		CB-508

# 落地型高速離心機 Floor-Standing High Speed Centrifuges

## Supra R30



### Fixed Angle Rotor

max. 30,000 rpm      max. 4 x 1,000 mL  
 max. 106,600 xg      max. 36 x 2.0 mL

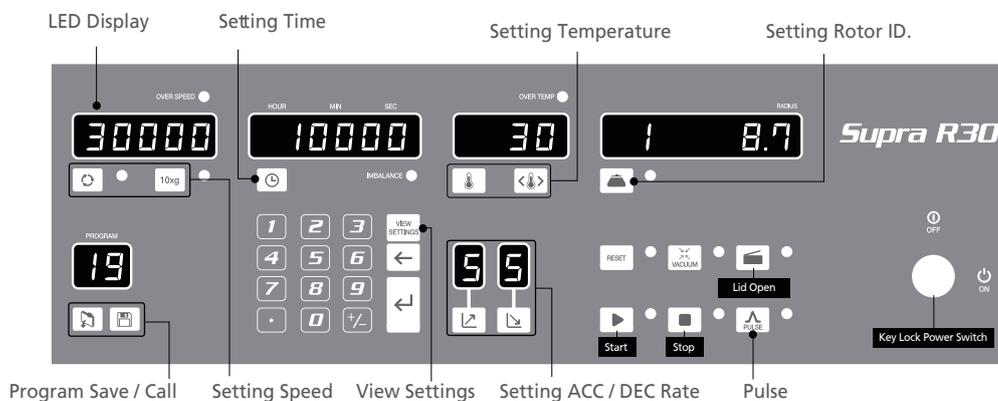
## Supra R22



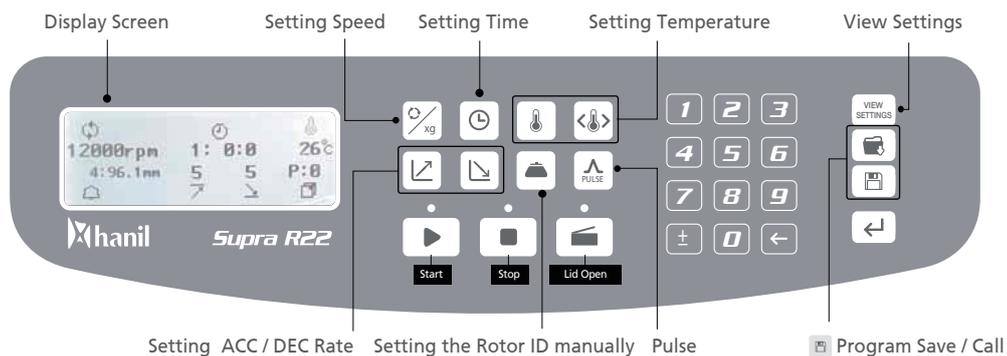
### Fixed Angle Rotor

max. 22,000 rpm      max. 4 x 1,000 mL  
 max. 57,300 xg      max. 36 x 2.0 mL

## Display & Control Panel



Supra R30



Supra R22

# Supra R30

## 高速真空冷凍離心機

<b>TEMP</b> -10°C to +40°C	<b>30,000</b> MAX. RPM	<b>106,657</b> MAX. RCF	<b>1,000ml x 4</b> MAX. CAP	<b>Vacuum</b>



### Features

- 同級機種最高轉速 30,000rpm (106,657 xg) · 適合病毒梯度離心
- 最大處理量可達1000 mlx4 (angle rotor) (另有6L機型)
- 擁有10步加減速功能 · 用於成分複雜之樣品分離實驗
- 快速安裝轉子設計 · 不須工具
- 轉速超過22,000 rpm · 自動啟動真空系統
- 內建真空監控系統
- 低震動馬達 · 低噪音設計
- 全系列轉子可高壓滅菌
- 多種安全監控機制(不平衡、過熱、上蓋安全鎖等等)



A1000-4



A250-6



A50-8



A50c-6

### Capacity

#### Fixed angle rotor

- 36 x 1.5/2.0 mL
- 12 x 10 mL
- 12 x 15 mL (conical)
- 6 x 50 mL (conical)
- 8 x 50 mL
- 6 x 85 mL
- 6 x 250 mL
- 6 x 500 mL
- 4 x 1000 mL



### Technical Specifications

		Supra R30
Speed RCF (xg)	Max. RPM / Fixed angle	30,000 rpm
	Max. RCF / Fixed angle	106,657 xg
Max. capacity	Fixed angle	4 x 1,000 mL
ACC/DEC ramps		10/10 steps
Temperature	Temperature range	-10°C to 40°C
	Fast cool	-
Time control		< 100 hr, continuous
Program memory		100
Noise level		≤ 65 dB
Vacuum system		Yes
Imbalance cutoff / tracking		Yes / -
Rotor identification		manual
Dimension (W x D x H, mm)		710 x 1,000 x 1,260
Weight without rotor		415 kg
Power requirement (VA)		4.0 kVA
Power input (V, Hz)		210~240V 60 Hz (110V, 50 Hz optional)
Cat. No.		SU-R30

# Supra R22

## 落地型高速冷凍離心機

<b>TEMP</b> -10°C to +40°C	<b>22,000</b> MAX. RPM	<b>57,358</b> MAX. RCF	<b>1,000ml x 4</b> MAX. CAP
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### Features

- 轉速可達 22,000rpm (57,358 xg)
- 最大處理量可達1000 ml x 4 (angle rotor)
- 擁有10步加減速功能，用於複雜樣品分離實驗
- 快速安裝轉子設計，不須工具
- 轉子自動辨認設計
- 密碼鎖安全設計
- 低震動馬達，低噪音設計
- 全系列轉子可高壓滅菌
- 多種安全監控機制(不平衡、過熱、上蓋安全鎖等等)



A1000-4



A50-6



A15-12

### Capacity

#### Fixed angle rotor

- 36 x 1.5/2.0 mL
- 12 x 10 mL
- 12 x 15 mL (conical)
- 6 x 50 mL (conical)
- 8 x 50 mL
- 6 x 85 mL
- 6 x 250 mL
- 6 x 500 mL
- 4 x 1000 mL



### Technical Specifications

		Supra R22
Speed RCF (xg)	Max. RPM / Fixed angle	22,000 rpm
	Max. RCF / Fixed angle	57,358 xg
Max. capacity	Fixed angle	4 x 1,000 mL
ACC/DEC ramps		10/10 steps
Temperature	Temperature range	-10°C to 40°C
	Fast cool	-
Time control		< 100 hr, continuous
Program memory		100
Noise level		≤ 65 dB
Vacuum system		-
Imbalance cutoff / tracking		Yes / Yes
Rotor identification		Automatic
Dimension (W x D x H, mm)		669 x 801 x 891
Weight without rotor		230 kg
Power requirement (VA)		3.4 kVA
Power input (V, Hz)		210~240V 60 Hz (110V, 50 Hz optional)
Cat. No.		SU-R22

## 其他型離心機 Other Centrifuges



### Smart 13

微量高速離心機  
Fixed Angle Rotor  
max. 13,500 rpm  
max. 12,000 xg  
max. 12 x 2.0 mL



### Fleta 4

多功能低速離心機  
Fixed Angle Rotor  
max. 4,000 rpm  
max. 2,700 xg  
max. 24 x 15 mL



### Fleta 5

高效能離心機  
Swing-out Rotor  
max. 5,500 rpm  
max. 6,200 xg  
max. 32 x 15 mL

## 其他產品 Concentrators



### HyperVac

離心式濃縮機  
max. 120 x 2.0 mL  
max. 32 x 10 mL



### HyperCool

多功能冷凍乾燥機  
max. -110°C  
max. 3L ice



### HyperVap

旋風吹氣濃縮機(水浴加熱)  
max. 4 x 8 nozzle  
24 x 120 mm tubes



# The 60 years of Quality and Trust



Hanil Scientific Inc.  
[www.ihanil.com](http://www.ihanil.com)



韓國 Hanil Scientific Inc. (翰尼爾科技公司) 是世界上知名實驗設備研發公司之一，在生物科技、農業、生命科學、微生物、醫院等領域保持著良好的銷售及服務諮詢信譽。翰尼爾科技公司成立於 1958 年，技術主要源於歐洲，在韓國生產一系列離心機，擁有 60 年的生產經驗，取得了一套完善的優質生產工藝，並且獲得多項專利技術。

Hanil 在韓國市場的佔有率超過 60%，並早在 2000 年即跨足於海外市場，翰尼爾科技公司不斷開發創新產品模式，以客戶為本，提供最好、最合適的銷售服務來滿足客戶的需求。Hanil 為科學研發及工業應用生產等領域提供高品質的產品，技術團隊遍及全球，隨時為客戶提供完善的安裝培訓與售後服務，是您可以完全信賴的好夥伴。



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