

# UNIVERSAL 320 | R

BLOOD / CELL CULTURE / URINE / CYTOLOGY / PLATES

**Maximum versatility in a compact footprint.** The UNIVERSAL 320 occupies minimal bench space at a width of only 395 mm (15.5 inches), with or without temperature control. Capable of spinning a variety of standard tubes, plates, cytology clips and bottles (up to 200 ml), the UNIVERSAL 320 centrifuge offers true all-in-one capability.

**UNIVERSAL solution for your dynamic laboratory.** Given its vast capability, the UNIVERSAL 320 provides flexible solutions for dynamic workflows. Multiple UNIVERSAL 320's offer increased productivity and multi-batch processing with a comparative footprint and cost of one large benchtop.

**Eliminate the need to purchase an expensive dedicated cytocentrifuge.** The UNIVERSAL 320 performs multiple applications including cytology, in the same centrifuge, saving you money and bench space. Hettich's 12-place Clip Rotor is capable of spinning 0.2 to 6 ml single, double or large funnel formats with optional bio-containment, eliminating the need to purchase an expensive dedicated cytocentrifuge. Learn more about the Hettich Cyto-System for complete cytology solutions.



MODEL	UNIVERSAL 320	UNIVERSAL 320 R
Max. Capacity	4 x 200 ml, 6 x 94 ml	4 x 200 ml, 6 x 94 ml
Max. RPM / RCF	15,000 / 21,382	15,000 / 21,382
Max. Blood Tubes*	40 (13 x 75) <sup>†</sup> , 28 (16 x 75/100), 16 (16 x 125)	40 (13 x 75) <sup>†</sup> , 28 (16 x 75/100), 16 (16 x 125)
Max. Conical Tubes*	16 (15 ml), 8 (50 ml)	16 (15 ml), 8 (50 ml)
Temperature Control	Ambient	-20 °C to +40 °C
Dims (H x W x D)	14 x 16 x 20.5 in.	14 x 16 x 27 in.
Warranty <sup>†</sup>	5 yr	5 yr

\*Please inquire about the fit of your specific tube dimensions. † Warranty valid in U.S. and Canada only, see warranty statement for complete details.

Learn more: [hettweb.com/universal320](http://hettweb.com/universal320)

## UNIVERSAL 320 | R CENTRIFUGE PACKAGES

### UNIVERSAL 320 CONICAL TUBE PACKAGE - 5 mL - BIO-CONTAINMENT

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	16	5 Conical	17 x 59	≤ 4,500	≤ 3,328	320CONICAL5-BC	320RCONICAL5-BC
	<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters 5 mL conical, (4) Bio-containment Lids						

### UNIVERSAL 320 BLOOD TUBE PACKAGE

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	28	1.6 - 7	13 x 75/100	≤ 5,000	≤ 3,913	320BLOOD	320RBLOOD
	28	4 - 10	16 x 75/100	≤ 5,000	≤ 3,913		
<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters 13 x 75/100 mm, (4) Adapters 16 x 75/100 mm							

### UNIVERSAL 320 BLOOD TUBE PACKAGE - 4 - BIO-CONTAINMENT

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	28	1.6 - 5	13 x 75/100	≤ 4,500	≤ 3,215	320BLOOD4-BC	320RBLOOD4-BC
	20	4 - 10	16 x 75/100	≤ 4,500	≤ 3,215		
<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters 13 x 75/100 mm, (4) Adapters 16 x 75/100, (4) Bio-lids							

### UNIVERSAL 320 URINALYSIS PACKAGE

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	12	12 KOVA	17 x 102	≤ 4,500	≤ 3,102	320URINALYSIS	320RURINALYSIS
	<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters KOVA						

### UNIVERSAL 320 CELL CULTURE PACKAGE - 4

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	16	15 Conical	17 x 120	≤ 4,500	≤ 3,305	320CELLCULTURE4	320RCELLCULTURE4
	4	50 Conical	29 x 115	≤ 4,500	≤ 3,260		
<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters 15 mL, (4) Adapters 50 mL							

### UNIVERSAL 320 CELL CULTURE PACKAGE - 4 - BIO-CONTAINMENT

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	8	15 Conical	17 x 120	≤ 4,500	≤ 3,328	320CELLCULTURE4-BC	320RCELLCULTURE4-BC
	4	50 Conical	29 x 115	≤ 4,500	≤ 3,328		
<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (4) Adapters 15 mL, (4) Adapters 50 mL, (4) Bio-containment Lids							

### UNIVERSAL 320 CELL CULTURE PACKAGE - 8

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	8	15 Conical	17 x 120	≤ 4,500	≤ 3,260	320CELLCULTURE8	320RCELLCULTURE8
	8	50 Conical	29 x 115	≤ 4,500	≤ 3,260		
<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (4) Buckets, (8) Adapters 15 mL, (8) Adapters 50 mL							

### UNIVERSAL 320 PLATE PACKAGE

	Tube Qty.	Volume (mL)	Size (mm)	RPM	RCF	PKG. NO.	PKG. NO. (TEMP. CONTROL)
	10	Microtiter	--	≤ 4,000	≤ 2,218	320PLATE	320RPLATE
	<b>Includes:</b> (1) Centrifuge, (1) Horizontal Rotor, (2) Buckets						

### UNIVERSAL 320 CUSTOM PACKAGE

	<b>Supports over 413 application configurations, please inquire for more information</b>						
	<b>Tube types include:</b> Microliter up to 5 mL, Blood, Pediatric, Urine, Conical and Skirted up to 50 mL, Standard up to 100 mL, Plates, Bottles up to 200 mL, Cytology						

Learn more: [hettweb.com/universal320](http://hettweb.com/universal320)

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