

# Thermo Scientific Ultracentrifuge Rotors

## Rotor Overview

Rotor	Max. Speed (rpm)	Max. RCF <sup>1</sup> (x g)	K Factor <sup>2</sup>	Capacity Places x Volume (ml)	Application Notes <sup>4</sup>
<b>Fixed Angle</b>					
T-8100	100,000	802,006	17.7	8 x 6.5	Protein and virus isolation.
T-890	90,000	692,149	25.1	8 x 12.5	Protein and virus isolation.
TFT-80.4	80,000	468,246	25.8	10 x 4.4	Small volume; protein, virus and DNA isolation.
TFT-80.2	80,000	429,643	22.6	12 x 2	Small volume; protein, virus and DNA isolation.
T-1270	70,000	448,811	36.3	12 x 12.5	DNA isolation; serum flotation.
T-865	65,000	429,459	51.7	8 x 36	Differential protein fractionation; DNA isolation.
T-1250	50,000	301,032	68.7	12 x 36	Differential protein fractionation; DNA isolation.
T-647.5	47,500	250,259	121	6 x 100	Large volume pelleting.
TFT-45.6	45,000	238,859/ 204,252 <sup>3</sup>	41.1/ 49.6 <sup>3</sup>	40 x 6.0	Serum lipoprotein flotation. Multiplesample DNA and virus isolation.
A-621	21,000	66,993	751	6 x 250	Large volume pelleting.
<b>Vertical</b>					
Stepsaver 70V6	70,000	467,420	8.7	8 x 6	Small volume isopycnic banding.
Stepsaver 65V13	65,000	400,671	12.9	8 x 13.5	Isopycnic banding.
Stepsaver 50V39	50,000	241,831	35.8	8 x 39	Large volume isopycnic and rate zonal separations.
TV-1665	65,000	414,357	9.8	16 x 6	Gradient applications.
TV-860	60,000	340,596	25.2	8 x 35	Large volume isopycnic and rate zonal separations.
<b>Swinging bucket</b>					
TH-660	60,000	488,576	44.4	6 x 4.4	Rate zonal isolation of proteins and RNA.
AH-650	50,000	296,005	53	6 x 5	Rate zonal isolation of proteins and RNA.
AH-629 (17 ml)	29,000	155,846	284	6 x 17	Rate zonal isolation of viruses and subcellular particles.
AH-629 (36 ml)	29,000	151,243	242	6 x 36	Large volume viral and subcellular particle isolations, RNA pelleting.
TH-641	41,000	287,660	114	6 x 13.2	Rate zonal isolation of RNA and subcellular particles.
Surespin 630 (17 ml)	30,000	166,880	268	6 x 17	Rate zonal isolation of RNA and subcellular particles.
Surespin 630 (36 ml)	30,000	166,880	219	6 x 36	Large volume subcellular particle isolations and RNA pelleting.
<b>Zonal</b>					
TZ-28	28,000	83,457	312	1 x 1,350	Rate zonal virus isolations.

<sup>1</sup> RCF calculated for maximum rotor radius.

<sup>2</sup> K factor calculated assuming maximum volume in a sealed tube.

<sup>3</sup> Outer row value/Inner row value.

<sup>4</sup> Listed are examples of popular applications. In practice, other rotors may be selected depending on individual requirements.