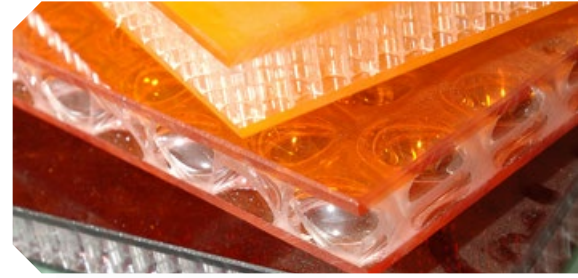


◆ RFD Class A Cabinet Ovens

For applications that include flammable solvents or excessive solvent removal



RFD Class A ovens are specially designed to meet NFPA 86 requirements for applications that include flammable solvents or large amounts of moisture removal. They include a pressure relief panel, purge timer and exhaust fan.

These ovens feature horizontal recirculating airflow to ensure exceptional temperature uniformity throughout the oven. A high-volume fan circulates air through perforated, steel walls to create a constant horizontal airflow across all sections of the oven. The result is proven reliability in demanding production and laboratory applications, such as curing, drying, stress relieving, aging, and other process-critical applications.

New smaller footprint



FEATURES AT A GLANCE

- ◆ Temperatures up to 343°C (650°F)
(Models available with temperatures up to 538°C (1000°F))
- ◆ Class A package meeting NFPA 86 requirements for flammable solvents
- ◆ Three models from 4.2 to 35 cu. ft. (119 to 991 liters)
- ◆ Horizontal recirculating airflow
- ◆ Protocol 3™ control with large LCD display, integrated data logging capabilities and USB port for simple oven set-up and data export.
- ◆ Aluminized steel interior
- ◆ 5-year heater warranty
- ◆ End of cycle and high-limit indicators
- ◆ Audible and visual high-limit alarm
- ◆ RS485 Modbus communication PC interface
- ◆ One-inch process port for test wires
- ◆ Disconnect switch
- ◆ UL and C-UL listed open industrial control panel

OPTIONS

- ◆ Despatch unique adjustable louvers
- ◆ Door switch
- ◆ Reinforced floor
- ◆ Stainless steel interior
- ◆ Side-mounted controller
- ◆ Chart recorder
- ◆ CE compliance

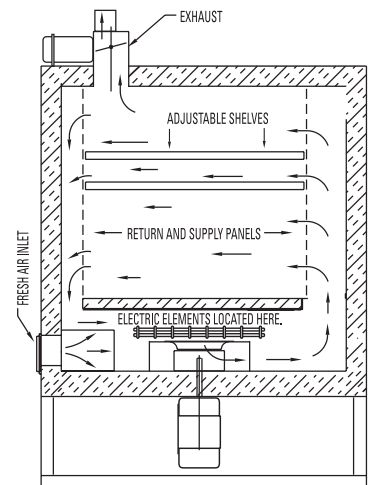
RFD	1-42 BENCH	2-19	2-35
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PHYSICAL SPECIFICATIONS

Chamber size (width x depth x height)	20 x 18 x 20 in. 51 x 46 x 51 cm	36.5 x 25 x 37 in. 93 x 64 x 94 cm	47.5 x 30 x 42 in. 121 x 76 x 107 cm
Capacity in cubic feet (liters)	4.2 (119)	19.5 (552)	35 (991)
Overall size (width x depth x height)	46 x 36.5 x 37.5 in. 117 x 92.7 x 95 cm	59.5 x 44 x 93.5 in. 151 x 112 x 238 cm	70 x 49 x 100.5 in. 178 x 124 x 255 cm
Electrical: 60 hertz - three phase *1-42 bench runs on 50/60 hertz - single phase	208 volts	*34.5 amps/6 kW	59.1 amps/18 kW
	240 volts	*30.8 amps/6 kW	47.0 amps/16 kW
	480 volts	NA	23.5 amps/16 kW
Number of shelves provided	2	2	2
Maximum number of shelves	9 on 2 in. centers	12 on 3 in. centers	14 on 3 in. centers
Shelf dimensions (width x depth)	19.6 x 17.75 in. 50 x 45 cm	2 37.6 x 4.5 in. 95.5 x 62.2 cm	48.6 x 29.5 in. 123.4 x 75 cm
Exhaust outlet diameter	2.5 in. (6.4 cm)	7 in. (17.8 cm)	7 in. (17.8 cm)
Doors	1	2	2
Approximate net weight	380 lbs (172 kg)	1365 lbs (619kg)	1745 lbs (792 kg)
Approximate domestic shipping weight (export adds weight)	510 lbs (231 kg)	1565 lbs (710kg)	1945 lbs (882 kg)
Insulation thickness	4 in. (10.2 cm)	6 in. (12.7 cm)	6 in. (12.7 cm)

FUNCTIONAL SPECIFICATIONS

Time to temp with no load (40°C to 177°C)	12 minutes	16 minutes	12 minutes
Time to temp with no load (40°C to 260°C)	26 minutes	30 minutes	22 minutes
Time to temp with no load (40°C to 343°C)	48 minutes	48 minutes	36 minutes
Temperature uniformity	+/- 2.3°C at 177°C	+/- 2°C at 177°C	+/- 2°C at 177°C
	+/- 3.4°C at 260°C	+/- 2.8°C at 260°C	+/- 2.8°C at 260°C
	+/- 4.2°C at 343°C	+/- 3.7°C at 343°C	+/- 3.7°C at 343°C
Minimum operating temp	30°C (86°F)	30°C (86°F)	30°C (86°F)
Maximum operating temp	343°C (650°F)	343°C (650°F)	343°C (650°F)
Control stability	+/- 0.5°C on all models		
Repeatability	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
Maximum load capacity	200 lbs (91 kg)	850 lbs (386 kg)	1250 lbs (567 kg)
Maximum shelf capacity	30 lbs (13.6 kg)	100 lbs (45.4 kg)	100 lbs (45.4 kg)
Exhaust capacity (minimum/maximum)	23/93 CFM (10.9/43.9 l/s)	54/350 CFM (25.5/165.2 l/s)	216/350 CFM (101.9/165.2 l/s)
Solvent handling capacity at 177°C (350°F) MEK	.025 GPH (.095 l/h)	.06 GPH (.23 l/h)	.24 GPH (.91 l/h)
Forced exhaust HP	1/50 HP	1/3 HP	1/3 HP
Recirculating fan	1/2 HP 425 CFM (200 l/s)	2 HP 1550 CFM (731 l/s)	2 HP 1550 CFM (731 l/s)



RFD front view cross section showing airflow pattern.



RFD1-42 benchtop oven



Notes: Uniformity figures are based on a nine-point test conducted in an empty oven after stabilization period. Uniformity can vary slightly depending on unit and operating conditions. Minimum operating temperature and cooling times are based on 20°C ambient temperature measured at the fresh air inlet with the fresh air and exhaust dampers fully open. Specifications are subject to change without notice. If the existing specifications differ from yours, ask about our customizing capabilities.

*50 hertz electrical is available on all models

SERVICE AND TECHNICAL SUPPORT

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