Install-it-yourself Batch Oven Kits

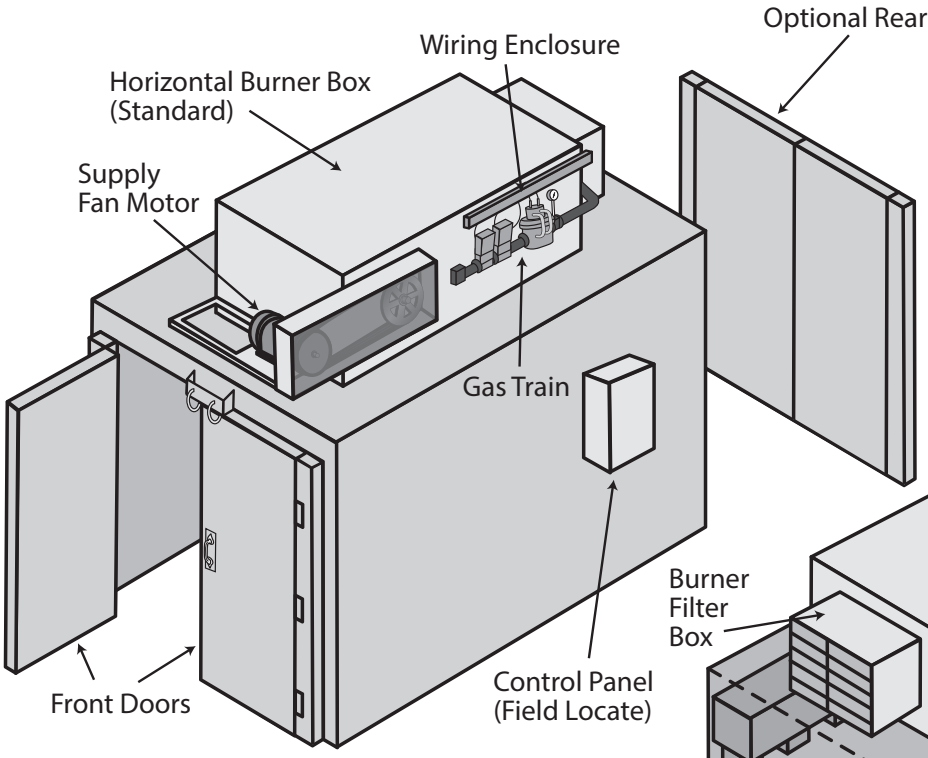
Batch Ovens

Model 8810

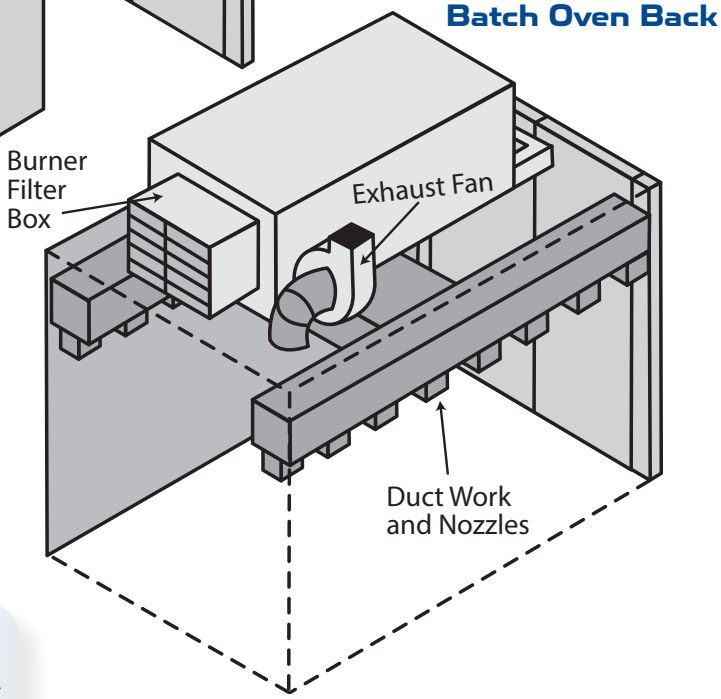
- Flexibility with standard assembled or install-it-yourself ovens for preheating, drying and curing for applications up to 500° F (260° C).
- Durability provided from quality components such as aluminized steel, insulated-panel walls and roofs, industrial grade fans and state-of-the-art controls.
- Energy-efficient direct-fired burners having a 20:1 turndown ratio.
- Better oven balance, cleanliness and space usage from unique duct design.
- Dependable operation when installed, used and maintained properly.
- Lower installation costs by installing it yourself.
- Versatility provided by custom designs and sizes.

Rapid® Engineering LLC

STANDARD BATCH OVENS



Batch Oven Front

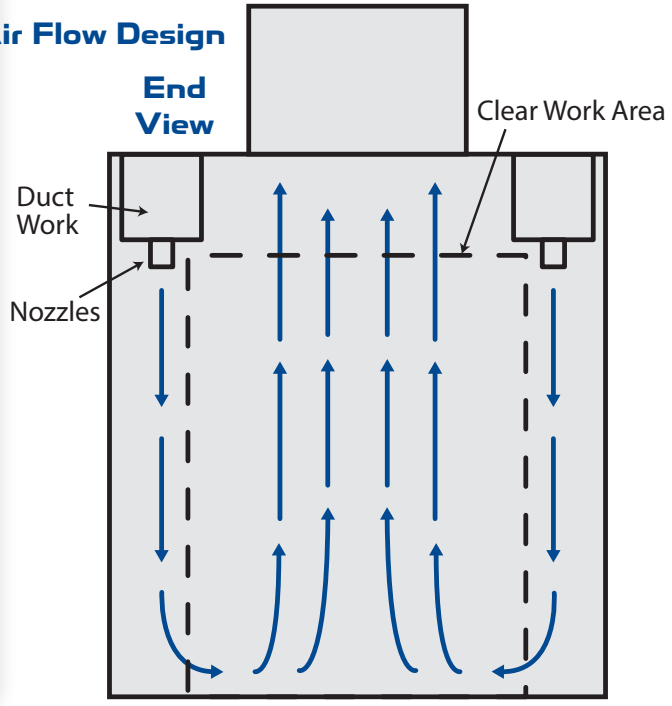


Batch Oven Back

Standard Features

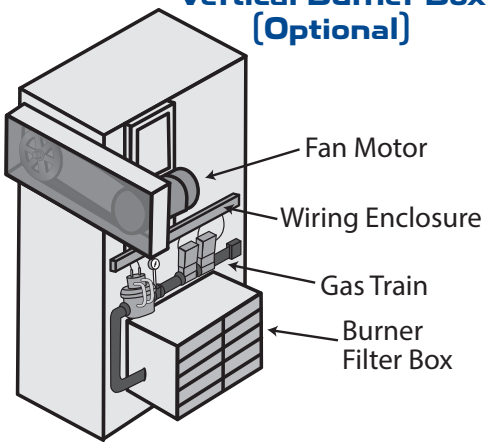
- 6" (15.2 cm) thick aluminized steel, insulated-panel construction
- Top mounted burner box system for natural gas or propane
- Double doors on one end
- Ceiling-mounted ductwork distribution
- Powered exhaust fan
- Automatic purge cycle
- UL-listed electrical control panel
- 460 VAC, 3Ø, 60 Hz
- Digital temperature controller
- Batch timer
- Electronic burner and high-temperature limit controls
- Flame safety control with UV scanner
- Controls designed to be Factory Mutual (FM) compliant
- Automatic shutdown when a pre-set cool down temperature is achieved
- Designed and built to comply with industry standards

Air Flow Design



STANDARD BATCH OVENS

Side or End Mount Vertical Burner Box (Optional)

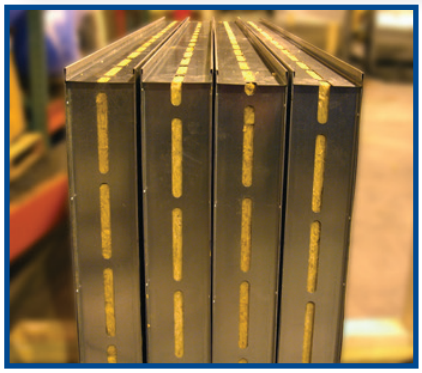


Shipping Configurations

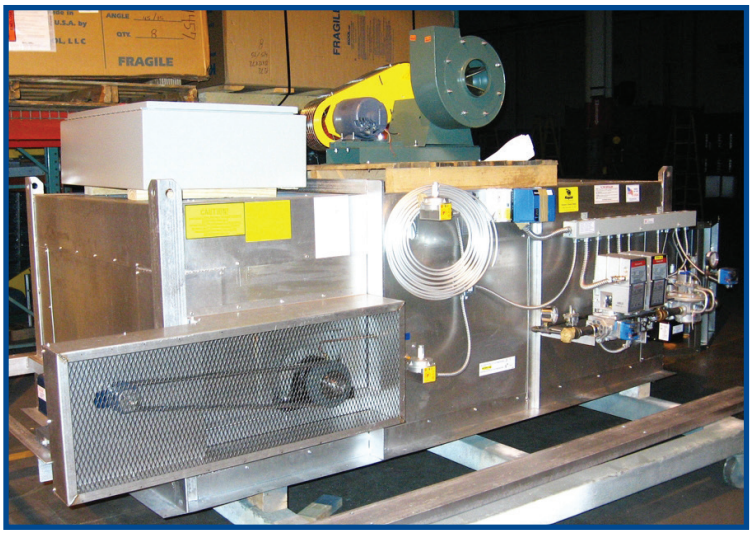
Complete assemblies consisting of:
Burner box and gas manifold
Electrical control panel
Powered exhaust fan
6" (15.2 cm) insulated panels and trim packages are palletized
Pre-fabricated doors including all hardware
Pre-fabricated, pre-formed and assembled ductwork
Fasteners, mounting hardware, as well as complete assembly, start up and operating instructions included

Options

Floor: .25" (.64 cm) hot roll steel plate or 3" (7.6 cm) insulated panels with cart wheel slots
End or side mounted burner box
Air impingement side wall ducts
Double doors on both ends
Chart recorder
Door-activated low-fire switch
Programmable logic controller
Stack kits
Canadian specifications
Technical Standards and Safety Authority support documentation
Low NOx burners
Electric Heat
120/220 VAC, 1Ø, 60 Hz
208/240 VAC, 3Ø, 60 Hz
Installation and startup by Rapid Engineering LLC



Insulated Oven Panels



Burner Box, Exhaust Fan and Control Panel stacked to ship

Batch Oven Applications

Pre-heating	Prepares metal, medium-density fiberboard or other substrates for the coating process.
Curing	Elevates part and coating temperatures to achieve the desired coating performance. Efficient air distribution without excessive air turbulence.
Drying Off	Drying water or moisture accumulated during the pre-treatment washing process.
Low Temperature Stress Relieving	Used to reduce internal residual stresses in a metal object by heating the object to a suitable temperature and holding at the temperature for a proper amount of time.
Out Gassing	Aids the release of gasses that are trapped or absorbed in some materials.

STANDARD BATCH OVEN SPECIFICATIONS*

Model	Clearance Opening ft (cm) (W x H x D)	Outside Dimensions ft (cm) (W x H x D)	Total Weight lb (kg)	Burner Box Dimensions ft (cm) (W x H x D)	Burner Box Weight lb (kg)	Gas Burner Output Btu/h x 1000 (kW)	Recirculation Fan		Exhaust Fan	
							Airflow CFM (m^3/h)	Motor Size HP (kW)	Airflow CFM (m^3/h)	Motor Size HP (kW)
666	6 x 6 x 6 (183 x 183 x 183)	8.5 x 8 x 8 (259 x 244 x 244)	6,000 (2,722)	5.4 x 3.7 x 7.2 (165 x 113 x 219)	1,300 (590)	300 (0.09)	1,700 (2,890)	1 (0.75)	400 (680)	0.50 (0.40)
6610	6 x 6 x 10 (183 x 183 x 305)	8.5 x 8 x 12 (259 x 244 x 366)	7,000 (3,175)	5.4 x 3.7 x 8.7 (165 x 113 x 265)	1,400 (635)	450 (0.13)	2,700 (4,590)	1.5 (1.10)	570 (969)	0.50 (0.40)
6615	6 x 6 x 15 (183 x 183 x 457)	8.5 x 8 x 17 (259 x 244 x 518)	8,200 (3,719)	5.4 x 3.7 x 8.7 (165 x 113 x 265)	1,400 (635)	600 (0.18)	4,000 (6,800)	2 (1.50)	570 (969)	0.50 (0.40)
6620	6 x 6 x 20 (183 x 183 x 610)	8.5 x 8 x 22 (259 x 244 x 671)	9,800 (4,445)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,800 (816)	900 (0.26)	5,600 (9,520)	3 (2.20)	670 (1,139)	0.50 (0.40)
6625	6 x 6 x 25 (183 x 183 x 762)	8.5 x 8 x 27 (259 x 244 x 823)	11,000 (4,990)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,900 (862)	900 (0.26)	6,200 (10,540)	5 (4.00)	670 (1,139)	0.50 (0.40)
8810	8 x 8 x 10 (244 x 244 x 305)	10.5 x 10 x 12 (320 x 305 x 366)	9,200 (4,173)	5.4 x 3.7 x 8.7 (165 x 113 x 265)	1,600 (726)	600 (0.18)	4,000 (6,800)	3 (2.20)	570 (969)	0.50 (0.40)
8815	8 x 8 x 15 (244 x 244 x 457)	10.5 x 10 x 17 (320 x 305 x 518)	11,000 (4,990)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,900 (862)	900 (0.26)	5,600 (9,520)	3 (2.20)	670 (1,139)	0.50 (0.40)
8820	8 x 8 x 20 (244 x 244 x 610)	10.5 x 10 x 22 (320 x 305 x 671)	12,400 (5,625)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,900 (862)	1,200 (0.35)	7,500 (12,750)	5 (4.00)	870 (1,479)	0.75 (0.60)
8825	8 x 8 x 25 (244 x 244 x 762)	10.5 x 10 x 27 (320 x 305 x 823)	14,000 (6,350)	6.4 x 3.4 x 11.6 (195 x 104 x 354)	2,100 (953)	1,500 (0.44)	10,000 (17,000)	7.5 (5.50)	1,020 (1,734)	1.00 (0.75)
8830	8 x 8 x 30 (244 x 244 x 914)	10.5 x 10 x 32 (320 x 305 x 975)	15,900 (7,212)	7.3 x 3.8 x 12.1 (223 x 116 x 369)	2,500 (1,134)	1,800 (0.53)	12,000 (20,400)	7.5 (5.50)	1,300 (2,210)	0.75 (0.60)
8835	8 x 8 x 35 (244 x 244 x 1067)	10.5 x 10 x 37 (320 x 305 x 1128)	17,400 (7,892)	7.3 x 3.8 x 12.3 (223 x 116 x 375)	2,600 (1,179)	2,100 (0.62)	14,000 (23,800)	10 (7.50)	1,300 (2,210)	0.75 (0.60)
8840	8 x 8 x 40 (244 x 244 x 1219)	10.5 x 10 x 42 (320 x 305 x 1280)	19,300 (8,754)	7.8 x 4.3 x 12.8 (238 x 131 x 390)	3,000 (1,361)	2,400 (0.70)	16,000 (27,200)	10 (7.50)	1,600 (2,720)	1.00 (0.75)
8845	8 x 8 x 45 (244 x 244 x 1372)	10.5 x 10 x 47 (320 x 305 x 1433)	20,700 (9,389)	7.8 x 4.3 x 12.8 (238 x 131 x 390)	3,000 (1,361)	2,400 (0.70)	17,000 (28,900)	10 (7.50)	1,600 (2,720)	1.00 (0.75)
8850	8 x 8 x 50 (244 x 244 x 1524)	10.5 x 10 x 52 (320 x 305 x 1585)	22,200 (10,070)	7.8 x 4.3 x 12.9 (238 x 131 x 393)	3,100 (1,406)	2,700 (0.79)	18,000 (30,600)	15 (11.00)	1,600 (2,720)	1.00 (0.75)
8855	8 x 8 x 55 (244 x 244 x 1676)	10.5 x 10 x 57 (320 x 305 x 1737)	23,900 (10,841)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,400 (1,542)	3,000 (0.88)	20,000 (34,000)	15 (11.00)	1,900 (3,230)	1.50 (1.10)
10810	10 x 8 x 10 (305 x 244 x 305)	12.5 x 10 x 12 (381 x 305 x 366)	10,500 (4,763)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,900 (862)	900 (0.26)	5,600 (9,520)	3 (2.20)	670 (1,139)	0.50 (0.40)
10815	10 x 8 x 15 (305 x 244 x 457)	12.5 x 10 x 17 (381 x 305 x 518)	12,000 (5,443)	5.9 x 3.3 x 11 (180 x 101 x 335)	1,900 (862)	1,200 (0.35)	7,500 (12,750)	5 (4.00)	870 (1,479)	0.75 (0.60)
10820	10 x 8 x 20 (305 x 244 x 610)	12.5 x 10 x 22 (381 x 305 x 671)	13,800 (6,260)	6.4 x 3.4 x 11.6 (195 x 104 x 354)	2,200 (1,000)	1,500 (0.44)	10,000 (17,000)	7.5 (5.50)	1,020 (1,734)	1.00 (0.75)
10825	10 x 8 x 25 (305 x 244 x 762)	12.5 x 10 x 27 (381 x 305 x 823)	15,800 (7,167)	7.3 x 3.8 x 12.1 (223 x 116 x 369)	2,600 (1,179)	1,800 (0.53)	12,000 (20,400)	7.5 (5.50)	1,300 (2,210)	0.75 (0.60)
10830	10 x 8 x 30 (305 x 244 x 914)	12.5 x 10 x 32 (381 x 305 x 975)	17,300 (7,847)	7.3 x 3.8 x 12.3 (223 x 116 x 375)	2,600 (1,179)	2,100 (0.62)	14,000 (23,800)	10 (7.50)	1,300 (2,210)	0.75 (0.60)
10835	10 x 8 x 35 (305 x 244 x 1067)	12.5 x 10 x 37 (381 x 305 x 1128)	19,200 (8,709)	7.8 x 4.3 x 12.8 (238 x 131 x 390)	3,000 (1,361)	2,400 (0.70)	16,000 (27,200)	10 (7.50)	1,600 (2,720)	1.00 (0.75)
10840	10 x 8 x 40 (305 x 244 x 1219)	12.5 x 10 x 42 (381 x 305 x 1280)	20,800 (9,435)	7.8 x 4.3 x 12.9 (238 x 131 x 393)	3,100 (1,406)	2,700 (0.79)	18,000 (30,600)	15 (11.00)	1,600 (2,720)	1.00 (0.75)
10845	10 x 8 x 45 (305 x 244 x 1372)	12.5 x 10 x 47 (381 x 305 x 1433)	22,700 (10,297)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,400 (1,542)	3,000 (0.88)	20,000 (34,000)	15 (11.00)	1,900 (3,230)	1.50 (1.10)
10850	10 x 8 x 50 (305 x 244 x 1524)	12.5 x 10 x 52 (381 x 305 x 1585)	24,200 (10,977)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,400 (1,542)	3,300 (0.97)	22,000 (37,400)	15 (11.00)	1,900 (3,230)	1.50 (1.10)
10855	10 x 8 x 55 (305 x 244 x 1676)	12.5 x 10 x 57 (381 x 305 x 1737)	26,100 (11,839)	8.3 x 4.9 x 13.8 (253 x 149 x 421)	3,800 (1,724)	3,600 (1.06)	24,000 (40,800)	15 (11.00)	2,100 (3,570)	1.50 (1.10)
101010	10 x 10 x 10 (305 x 305 x 305)	12.5 x 12 x 12 (381 x 366 x 366)	12,000 (5,443)	5.9 x 3.3 x 11 (180 x 101 x 335)	2,000 (907)	900 (0.26)	6,200 (10,540)	5 (4.00)	670 (1,139)	0.50 (0.40)
101015	10 x 10 x 15 (305 x 305 x 457)	12.5 x 12 x 17 (381 x 366 x 518)	13,900 (6,305)	6.4 x 3.4 x 11.6 (195 x 104 x 354)	2,200 (998)	1,200 (0.35)	8,500 (14,450)	5 (4.00)	870 (1,479)	0.75 (0.60)
101020	10 x 10 x 20 (305 x 305 x 610)	12.5 x 12 x 22 (381 x 366 x 671)	16,000 (7,257)	7.3 x 3.8 x 12.1 (223 x 116 x 369)	2,600 (1,179)	1,800 (0.53)	12,000 (20,400)	7.5 (5.50)	1,300 (2,210)	0.75 (0.60)

* Specifications subject to change based on final engineering, specific applications and/or specific installations.

STANDARD BATCH OVEN SPECIFICATIONS*

Model	Clearance Opening ft (cm) (W x H x D)	Outside Dimensions ft (cm) (W x H x D)	Total Weight lb (kg)	Burner Box Dimensions ft (cm) (W x H x D)	Burner Box Weight lb (kg)	Gas Burner Output Btu/h x 1000 (kW)	Recirculation Fan		Exhaust Fan	
							Airflow CFM (m^3/h)	Motor Size HP (kW)	Airflow CFM (m^3/h)	Motor Size HP (kW)
101025	10 x 10 x 25 (305 x 305 x 762)	12.5 x 12 x 27 (381 x 366 x 823)	17,800 (8,074)	7.3 x 3.8 x 12.3 (223 x 116 x 375)	2,700 (1,225)	2,100 (0.62)	14,000 (23,800)	10 (7.50)	1,300 (2,210)	0.75 (0.60)
101030	10 x 10 x 30 (305 x 305 x 914)	12.5 x 12 x 32 (381 x 366 x 975)	19,900 (9,026)	7.8 x 4.3 x 12.9 (238 x 131 x 393)	3,100 (1,406)	2,400 (0.70)	17,000 (28,900)	15 (11.00)	1,600 (2,720)	1 (0.75)
101035	10 x 10 x 35 (305 x 305 x 1067)	12.5 x 12 x 37 (381 x 366 x 1128)	21,900 (9,934)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,400 (1,542)	2,700 (0.79)	19,000 (32,300)	15 (11.00)	1,600 (2,720)	1 (0.75)
101040	10 x 10 x 40 (3305 x 305 x 1219)	12.5 x 12 x 42 (381 x 366 x 1280)	23,600 (10,705)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,400 (1,542)	3,000 (0.88)	22,000 (37,400)	15 (11.00)	1,900 (3,230)	1.5 (1.10)
101045	10 x 10 x 45 (305 x 305 x 1372)	12.5 x 12 x 47 (381 x 366 x 1433)	25,700 (11,657)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	3,800 (1,724)	3,300 (0.97)	25,000 (42,500)	20 (15.00)	1,900 (3,230)	1.5 (1.10)
101050	10 x 10 x 50 (305 x 305 x 1524)	12.5 x 12 x 52 (381 x 366 x 1585)	27,400 (12,428)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	3,800 (1,724)	3,600 (1.06)	28,000 (47,600)	20 (15.00)	2,100 (3,570)	1.5 (1.10)
101055	10 x 10 x 55 (305 x 305 x 1676)	12.5 x 13 x 57 (381 x 396 x 1737)	31,000 (14,061)	8.3 x 5.3 x 14.7 (253 x 162 x 448)	4,300 (1,950)	3,600 (1.06)	30,000 (51,000)	20 (15.00)	2100 (3570)	1.5 (1.10)
121010	12 x 10 x 10 (366 x 305 x 305)	14.5 x 12 x 12 (442 x 366 x 366)	13,200 (5,987)	5.9 x 3.3 x 11.2 (180 x 101 x 341)	2,100 (953)	1,200 (0.35)	7,500 (12,750)	7.5 (5.50)	870 (1479)	0.75 (0.60)
121015	12 x 10 x 15 (366 x 305 x 457)	14.5 x 12 x 17 (442 x 366 x 518)	15,500 (7,031)	7.3 x 3.8 x 12.1 (223 x 116 x 369)	2,600 (1,179)	1,500 (0.44)	11,000 (18,700)	7.5 (5.50)	1020 (1734)	1 (0.75)
121020	12 x 10 x 20 (366 x 305 x 610)	14.5 x 12 x 22 (442 x 366 x 671)	17,300 (7,847)	7.3 x 3.8 x 12.3 (223 x 116 x 375)	2,700 (1,225)	2,100 (0.62)	14,000 (23,800)	10 (7.50)	1300 (2210)	0.75 (0.60)
121025	12 x 10 x 25 (366 x 305 x 762)	14.5 x 12 x 27 (442 x 366 x 823)	19,600 (8,890)	7.8 x 4.3 x 12.9 (238 x 131 x 393)	3,200 (1,451)	2,400 (0.70)	17,000 (28,900)	15 (11.00)	1,600 (2,720)	1 (0.75)
121030	12 x 10 x 30 (366 x 305 x 914)	14.5 x 12 x 32 (442 x 366 x 975)	21,700 (9,843)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,500 (1,588)	2,700 (0.79)	19,000 (32,300)	15 (11.00)	1,600 (2,720)	1 (0.75)
121035	12 x 10 x 35 (366 x 305 x 1067)	14.5 x 12 x 37 (442 x 366 x 1128)	23,500 (10,659)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,500 (1,588)	3,000 (0.88)	22,000 (37,400)	15 (11.00)	1,900 (3,230)	1.5 (1.10)
121040	12 x 10 x 40 (366 x 305 x 1219)	14.5 x 12 x 42 (442 x 366 x 1280)	25,700 (11,657)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	3,900 (1,769)	3,300 (0.97)	25,000 (42,500)	20 (15.00)	1,900 (3,230)	1.5 (1.10)
121045	12 x 10 x 45 (366 x 305 x 1372)	14.5 x 12 x 47 (442 x 366 x 1433)	27,500 (12,474)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	3,900 (1,769)	3,600 (1.06)	28,000 (47,600)	20 (15.00)	2,100 (3,570)	1.5 (1.10)
121050	12 x 10 x 50 (366 x 305 x 1524)	14.5 x 13 x 52 (442 x 396 x 1585)	31,100 (14,107)	8.3 x 5.3 x 14.7 (253 x 162 x 448)	4,300 (1,950)	3,600 (1.06)	30,000 (51,000)	20 (15.00)	2,100 (3,570)	1.5 (1.10)
121055	12 x 10 x 55 (366 x 305 x 1676)	14.5 x 13 x 57 (442 x 396 x 1737)	33,400 (15,150)	8.3 x 5.3 x 14.7 (253 x 162 x 448)	4,700 (2,132)	4,200 (1.23)	33,000 (56,100)	25 (18.50)	2,500 (4,250)	1.5 (1.10)
121210	12 x 12 x 10 (366 x 366 x 305)	14.5 x 14 x 12 (442 x 427 x 366)	15,100 (6,849)	6.4 x 3.4 x 11.6 (195 x 104 x 354)	2,500 (1,134)	1,200 (0.35)	8,000 (13,600)	7.5 (5.50)	870 (1,479)	0.75 (0.60)
121215	12 x 12 x 15 (366 x 366 x 457)	14.5 x 14 x 17 (442 x 427 x 518)	17,400 (7,893)	7.3 x 3.8 x 12.3 (223 x 116 x 375)	2,900 (1,315)	1,800 (0.53)	12,000 (20,400)	10 (7.50)	1,300 (2,210)	0.75 (0.60)
121220	12 x 12 x 20 (366 x 366 x 610)	14.5 x 14 x 22 (442 x 427 x 671)	19,900 (9,027)	7.8 x 4.3 x 12.9 (238 x 131 x 393)	3,400 (1,542)	2,400 (0.70)	16,000 (27,200)	15 (11.00)	1,600 (2,720)	1 (0.75)
121225	12 x 12 x 25 (366 x 366 x 762)	14.5 x 14 x 27 (442 x 427 x 823)	22,200 (10,070)	8.3 x 4.5 x 13.3 (253 x 137 x 405)	3,700 (1,678)	2,700 (0.79)	19,000 (32,300)	15 (11.00)	1,600 (2,720)	1 (0.75)
121230	12 x 12 x 30 (366 x 366 x 914)	14.5 x 14 x 32 (442 x 427 x 975)	24,500 (11,113)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	4,000 (1,814)	3,000 (0.88)	23,000 (39,100)	20 (15.00)	1,900 (3,230)	1.5 (1.10)
121235	12 x 12 x 35 (366 x 366 x 1067)	14.5 x 14 x 37 (442 x 427 x 1128)	26,400 (11,975)	8.3 x 4.9 x 13.9 (253 x 149 x 424)	4,000 (1,814)	3,300 (0.97)	26,000 (44,200)	20 (15.00)	1,900 (3,230)	1.5 (1.10)
121240	12 x 12 x 40 (366 x 366 x 1219)	14.5 x 14 x 42 (442 x 427 x 1280)	28,700 (13,018)	8.3 x 4.9 x 14 (253 x 149 x 427)	4,300 (1,950)	3,600 (1.06)	29,000 (49,300)	25 (18.50)	2,100 (3,570)	1.5 (1.10)
121245	12 x 12 x 45 (366 x 366 x 1372)	14.5 x 15 x 47 (442 x 457 x 1433)	32,600 (14,787)	8.3 x 5.3 x 14.8 (253 x 162 x 451)	4,900 (2,223)	4,200 (1.23)	32,000 (54,400)	25 (18.50)	2,500 (4,250)	1.5 (1.10)
121250	12 x 12 x 50 (366 x 366 x 1524)	14.5 x 15 x 52 (442 x 457 x 1585)	34,800 (15,785)	8.3 x 5.3 x 14.8 (253 x 162 x 451)	5,000 (2,268)	4,200 (1.23)	35,000 (59,500)	30 (22.50)	2,500 (4,250)	1.5 (1.10)
121255	12 x 12 x 55 (366 x 366 x 1676)	14.5 x 15 x 57 (442 x 457 x 1737)	36,900 (16,738)	8.3 x 5.3 x 14.8 (253 x 162 x 451)	5,100 (2,313)	7,800 (2.29)	38,000 (64,600)	40 (30.00)	2,800 (4,760)	1.5 (1.10)

* Specifications subject to change based on final engineering, specific applications and/or specific installations.

The RAPID® Advantage

- **Quality products and reliable performance**
- **Project management support**
- **Design, manufacturing, installation and service capabilities**
- **Extensive experience**
- **Single source supply for components**
- **On-time and on-budget delivery**

For a quote, send us an email at IPFEsales@rapidengineering.com

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