

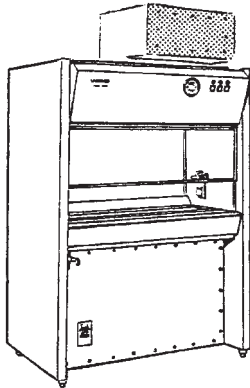
# IDENTIFICATION AND CERTIFICATION OF LABCONCO CLASS II SAFETY CABINETS

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# IDENTIFYING LABCONCO CONSOLE CLASS II LAMINAR FLOW MODELS

The console style Laminar Flow Biohazard Cabinet was manufactured by Labconco from 1976 - 1984. It can be identified readily by several external features:

- A vertical sash (sliding or pivoting).
- The presence of Service Valves (or their plug) and electrical outlets on interior work area.
- Console design, blue and white exterior paint.



You can confirm the Biohazard Cabinet's style by contacting Labconco's Product Service Department, and providing us with the serial number. From this number, we can determine the date of production and its style.

## Console Biohazard Cabinets

MANUFACTURED 1976-1984

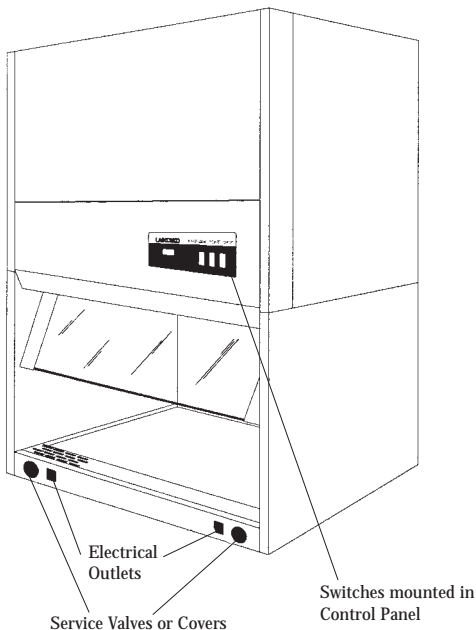
Model	47720	47721	70720	47720	47721	70720
Type	A	A	A	A/B3	A/B3	A/B3
Manufacturer's Listed Downflow (FPM)	75+/-2	75+/-2	77+/-2	55+/-2	57+/-2	55+/-2
Manufacturer's Listed Inflow (FPM)	83+/-5	82+/-5	81+/-5	101+/-5	100+/-5	108+/-5
Sash Open Area (ft <sup>2</sup> )	2.67	2.67	4	2.67	2.67	4
Exhaust Volume Range (CFM)	180	180	277	308	319	462
Exhaust Area (ft <sup>2</sup> )	0.71	0.71	0.71	0.71	0.71	0.71
Cabinet Volume (CFM)	49.4	49.6	72	49.4	49.6	72

# IDENTIFYING 1<sup>ST</sup> GENERATION PURIFIER® MODELS

MANUFACTURED BEFORE SEPTEMBER, 1994

The 1st Generation Purifier Class II Safety cabinets can be identified readily by several external features:

- The presence of service valves (or their plugs) on the lower front trim panel.
- The presence of single electrical outlets on either side of the front trim panel.
- The presence of a full length control panel with the control switches mounted directly into this swing out panel.
- Benchtop design.
- Beige and brown exterior paint.



You can confirm the Purifier's style by contacting Labconco's Product Service Department, and providing us with the serial number. From this number, we can determine the date of production and its style.

# 1<sup>ST</sup> GENERATION PURIFIER® CLASS II CABINETS

MANUFACTURED BEFORE SEPTEMBER, 1994

Exhaust Velocity (FPM) x Open Exhaust Area (Ft<sup>2</sup>) = Exhaust Volume (CFM)

Exhaust Volume (CFM)/Sash Opening Area (Ft<sup>2</sup>) = Average Face Velocity (FPM)

Use the downflow velocity test grid supplied with the cabinet when checking the downflow air velocity. The individual downflow velocity readings may vary no more than 20% from the downflow average.

Model Series	36204*-__	36205*-__	36208*-__	36209*-__	36212*-__	36213*-__
Type	A	A/B3	A	A/B3	A	A/B3
Sash Height (inches)	10	8	10	8	10	8
NSF Listed Downflow (FPM)	75-85	75-85	73-83	75-85	79-89	76-86
NSF Listed Inflow (FPM)	75-85	100-110	77-87	100-110	81-91	104-114
Sash Open Area (ft <sup>2</sup> )	2.52	2.01	3.35	2.68	5.02	4.01
Exhaust Volume Range (CFM)	189-214	201-221	257-291	268-295	407-457	417-457
Exhaust Area (ft <sup>2</sup> )	1.12	1.12	1.8	1.8	2.5	2.5
Average Exhaust Velocity (FPM)	169-191	179-197	143-161	149-164	163-183	167-183
Type B3 Exhaust Volumes (CFM)	N/A	201-221	N/A	268-295	N/A	417-441
Type B3 Alarm Setting Volume (CFM)	N/A	181-191	N/A	241-255	N/A	361-381
Canopy Exhaust Volume (CFM)	211-240	221-247	284-316	294-326	437-463	447-477

## APPROXIMATE SETTINGS FOR NEW FILTERS

Motor Voltage	76-81	75-80	86-91	90-97	77-82	77-82
Damper Position (Turns from Closed)	2.5-4	2.5-4.25	2.5-4	2.5-4	2.5-3.5	2.5-4.5
Mag Gauge Reading	0.3-0.4	0.3-0.45	0.25-0.4	0.3-0.4	0.3-0.4	0.3-0.4
Total Air Volume Displacement (CFM)	665	679	885	904	1325	1353
Number of Laskin Nozzles needed	1	1	2	2	2	2
Supply HEPA Filter Dims. (in.)	36x18x6	36x18x6	48x18x6	48x18x6	72x18x6	72x18x6
Exhaust HEPA Filter Dims. (in.)	12x18x12	12x18x12	18x18x12	18x18x12	24x18x12	24x18x12
Motor HP	1/3	1/3	1/3	1/3	2 ea. 1/3	2 ea. 1/3
Speed Winding used	High	High	High	High	High	High
Capacitor (uF Volts)	15	15	15	15	2 ea. 15	2 ea. 15
Fluorescent Light(s)	F30T8CW	F30T8CW	F40SXL/ SP35	F40SXL/ SP35	2ea. F30T8CW	2ea. F30T8CW
U.V. Light(s)	G30T8	G30T8	G30T8	G30T8	2ea. G30T8	2ea. G30T8
Starter(s)	2 ea. FS-4	2 ea. FS-4	2 ea. FS-4	2 ea. FS-4	4 ea. FS-4	4 ea. FS-4

\*Original options were defined as follows:

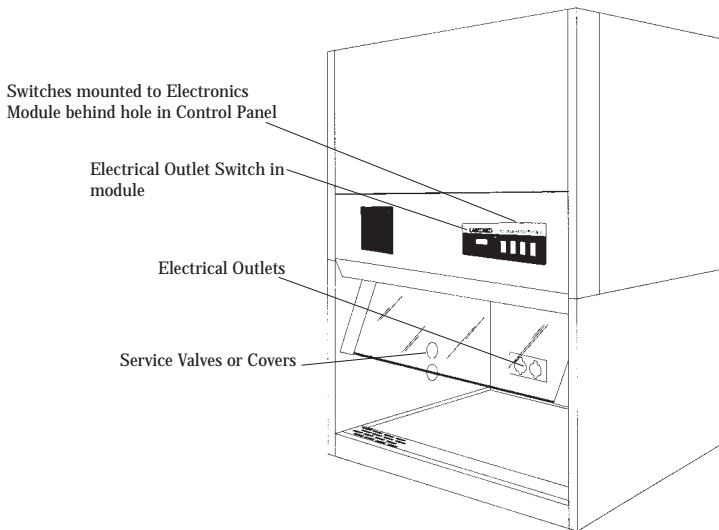
- 10 U.V. light included
- 02 One service valve (two if used with 36212 or 36213)
- 03 I.V. bar included
- 04 One service valve and U.V. lamp (two if used with 36212 or 36213)
- 05 U.V. light and I.V. bar
- 06 I.V. bar and one service valve
- 07 U.V. light, I.V. bar and service valve

# IDENTIFYING 2<sup>ND</sup> GENERATION PURIFIER® CLASS II MODELS

MANUFACTURED AFTER SEPTEMBER, 1994

The redesigned style Purifier can be identified readily by several external features:

- The presence of service valves (or their plugs) on both side walls.
- The presence of two duplex electrical outlets on the rear wall of the work area.
- The presence of an electrical outlet power switch on the electronics module.
- Operating switches are mounted in an electronics module that is visible through a flanged hole in the full length control panel.
- Benchtop design.
- Glacier white or charcoal exterior paint.



You can confirm the Purifier's style by contacting Labconco's Product Service Department, and providing us with the serial number. From this number, we can determine the date of production and its style.

# 2<sup>ND</sup> GENERATION PURIFIER® CLASS II CABINETS

MANUFACTURED AFTER SEPTEMBER, 1994

\*The direct read instrument is sealed to the face or the exhaust opening. The following calculation is used:  
 Air Volume (CFM) / Sash Opening Area (Ft<sup>2</sup>) = Average Face Velocity (FPM)

\*\*For the indirect read method, the average exhaust velocity is calculated per NSF 49, and these calculations are used:

Exhaust Velocity (FPM) x Open Exhaust Area (Ft<sup>2</sup>) = Exhaust Volume (CFM)

Exhaust Volume (CFM)/Sash Opening Area (Ft<sup>2</sup>) = Average Face Velocity (FPM)

Use the downflow velocity test grid supplied with the cabinet when checking the downflow air velocity. The individual downflow velocity readings may vary no more than 20% from the downflow average.

Model Series	36204—	36205—	36208—	36209—	36212—	36213—
Type	A	A/B3	A	A/B3	A	A/B3
Sash Height (inches)	10	8	10	8	10	8
NSF Listed Downflow (FPM)	75-85	75-85	73-83	75-85	79-89	76-86
Sash Open Area (ft <sup>2</sup> )	2.52	2.01	3.35	2.68	5.02	4.01
Exhaust Area (ft <sup>2</sup> )	1.12	1.12	1.8	1.8	2.5	2.5
*Direct Read NSF Listed Inflow (FPM)	75-85	100-110	75-85	100-110	75-85	100-110
**Direct Read Exhaust Volume (CFM)	189-214	201-220	251-285	268-295	377-427	401-441
**Indirect Read NSF Listed Inflow (FPM)	100	129	100	117	81-91	104-114
**Exhaust Volume (CFM)	252	259	335	314	430	437
**Average Exhaust Velocity (FPM)	225	231	186	174	210	175
Type B3 Exhaust Volumes (CFM)	N/A	201-221	N/A	268-295	N/A	417-441
Type B3 Alarm Setting Volume (CFM)	N/A	181-191	N/A	241-255	N/A	361-381
Canopy Exhaust Volume (CFM)	211-240	221-247	284-316	294-326	437-463	447-477

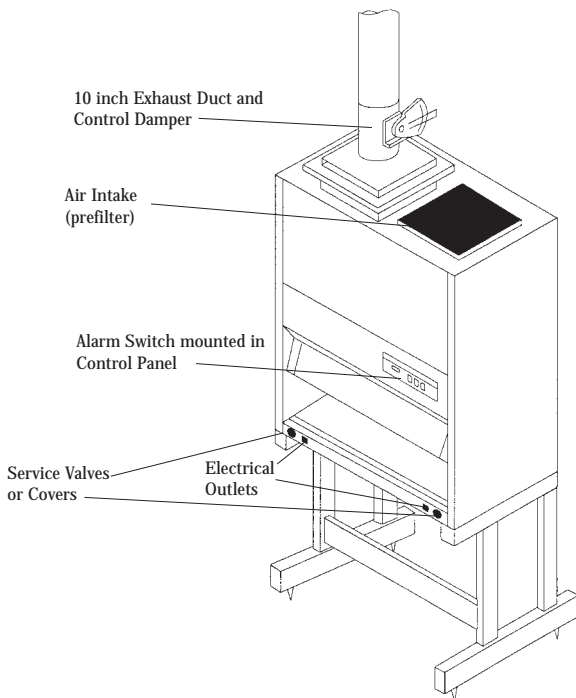
## APPROXIMATE SETTINGS FOR NEW FILTERS

Motor Voltage	75	77	89	92	75	78
Damper Position (Turns from Closed)	7	7	6	6	8	8
Mag Gauge Reading	0.28	0.28	0.29	0.29	0.3	0.3
Total Air Volume Displacement (CFM)	665	679	885	904	1325	1353
Number of Laskin Nozzles needed	1	1	2	2	2	2
Supply HEPA Filter Dims. (in.)	36x18x6	36x18x6	48x18x6	48x18x6	72x18x6	72x18x6
Exhaust HEPA Filter Dims. (in.)	12x18x12	12x18x12	18x18x12	18x18x12	24x18x12	24x18x12
Motor HP	1/3	1/3	1/3	1/3	2 ea. 1/3	2 ea. 1/3
Speed Winding used	High	High	High	High	High	High
Capacitor (uF, Volts)	15	15	15	15	2 ea. 15	2 ea. 15
Fluorescent Light(s)	F30T8CW	F30T8CW	F40SXL/ SP35	F40SXL/ SP35	2ea. F30T8CW	2ea. F30T8CW
U.V. Light(s)	G30T8	G30T8	G30T8	G30T8	2ea. G30T8	2ea. G30T8
Starter(s)	2 ea. FS-4	2 ea. FS-4	2 ea. FS-4	2 ea. FS-4	4 ea. FS-4	4 ea. FS-4

# IDENTIFYING CLASS II, TYPE B2 TOTAL EXHAUST PURIFIER® MODELS

The Total Exhaust Purifier can be easily identified by several external features:

- The presence of service valves (or their plug) on the lower front trim panel.
- The presence of single electrical outlets on either side of the front trim panel.
- The presence of a full length control panel with the control switches mounted directly into this swing out panel.
- Benchtop design.



You can confirm the Purifier's style by contacting Labconco's Product Service Department and providing us with the serial number. From this number, we can determine the date of production and its style.

# CLASS II, TYPE B2 PURIFIER® TOTAL EXHAUST CABINETS

## ALL STYLES

Total Exhaust Volume can be determined using any of the following methods:

Direct reading volumeter instrument sealed to the face of the unit (air intakes(s) on top of unit sealed with the cabinet blowers off)

Pitot traverse reading of the exhaust duct

Thermanemometer traverse reading of the exhaust duct

Supply volume must be calculated using a thermoanemometer in the work area as described in NSF Standard 49.

Use the downflow velocity test grid supplied with the cabinet when checking the downflow air velocity. The individual downflow velocity readings may vary no more than 20% from the downflow average.

<b>Model Series</b>	<b>36210-__</b>	<b>36214-__</b>
Type	B2	B2
Sash Height (inches)	8	8
NSF Listed Downflow (FPM)	60-70	60-70
NSF Listed Inflow (FPM)	104-114	112-122
Sash Open Area (ft <sup>2</sup> )	2.68	4.01
Nominal Exhaust Volume (CFM)	770 +/- 30	1165 +/- 45
Nominal Face Volume (CFM)	281	421
Nominal Supply Volume (CFM)	489	744
Alarm Setting Volume (CFM)	730 +/- 5	1105 +/-5

## APPROXIMATE SETTINGS FOR NEW FILTERS

Motor Voltage	87-94	79-84
Nominal Alarm Pressure Switch	1.04-1.06	.65-.67
Differential Pressure (inches H <sub>2</sub> O)		
Mag Gauge Reading	0.35-0.45	0.4-0.5
Total Air Volume Displacement (CFM)	665	679
Number of Laskin Nozzles needed	1	1
Supply HEPA Filter Dims. (in.)	48x18x6	72x18x6
Exhaust HEPA Filter Dims. (in.)	30x18x12	30x24x12
Motor HP	1/3	2 ea. 1/3
Speed Winding used	Medium	Medium
Capacitor (uF, Volts)	15	2 ea. 15
Fluorescent Light(s)	F40SXL/ SP35	2 ea. F30T8CW
U.V. Light(s)	G30T8	2 ea. G30T8
Starter(s)	2 ea. FS-4	4 ea. FS-4

# PURIFIER® CLASS II CABINETS

## MODEL NUMBERING SYSTEM

Purifier Class II Cabinets are assigned their respective model numbers based upon their configuration and options. The first five digits define the unit's Type, while the last two are assigned based on the unit's options. Thus, a model number of 36204-02 would indicate a three foot wide, Type A cabinet, equipped with one service fixture.

The 2nd Generation domestic Purifier model series is defined as follows:

36204	Three foot wide Type A Purifier Cabinet
36205	Three foot wide Type A/B3 Purifier Cabinet
36208	Four foot wide Type A Purifier Cabinet
36209	Four foot wide Type A/B3 Purifier Cabinet
36212	Six foot wide Type A Purifier Cabinet
36213	Six foot wide Type A/B3 Purifier Cabinet
36210	Four foot wide Type B2 Total Exhaust Purifier Cabinet
36214	Six foot wide Type B2 Total Exhaust Purifier Cabinet

The current options are defined as follows:

- 02 One service valve (two if used with 36212 or 36213)
- 04 One service valve and U.V. Lamp (two if used with 36212 or 36213)
- 08 Four service valves and two duplex GFI electrical outlets

*NOTE: the -08 option is only available on the models 36205, 36209 and 36213.*

For clarity, the dash is often eliminated, and the model is referred to by a single seven digit number, for example, 3620402.

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