



UL 1805

STANDARD FOR SAFETY

Laboratory Hoods and Cabinets

UL Standard for Safety for Laboratory Hoods and Cabinets, UL 1805

Second Edition, Dated March 19, 2025

Summary of Topics

This new edition of UL 1805 dated March 19, 2025 is being issued to address the editorial maintenance of UL Standards for Safety. These revisions are considered to be non-substantive and not subject to UL's TC process.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of ULSE Inc. (ULSE).

ULSE provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will ULSE be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if ULSE or an authorized ULSE representative has been advised of the possibility of such damage. In no event shall ULSE's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold ULSE harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

No Text on This Page

MARCH 19, 2025

1

UL 1805

Standard for Laboratory Hoods and Cabinets

First Edition – June, 2002

Second Edition

March 19, 2025

This UL Standard for Safety consists of the Second Edition.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

Our Standards for Safety are copyrighted by ULSE Inc. Neither a printed nor electronic copy of a Standard should be altered in any way. All of our Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of ULSE Inc.

© 2025 ULSE Inc. All rights reserved.

No Text on This Page

CONTENTS

INTRODUCTION

1	Scope	5
2	Components	5
3	Units of Measurement	6
4	Referenced Publications	6
5	Glossary	6
6	Installation and Operating Instructions	8

CONSTRUCTION

7	General	8
	7.1 Flammability	8
	7.2 Corrosion protection	8
	7.3 Chemical resistance	9
8	Sash	9
9	Bypass	9
10	Work Surface	9
11	Baffles	9
12	Hood Exhaust	9
13	Hood Blower	9
14	Electrical Devices	10
15	Utilities – Service Fixture Controls and Outlets	10

PERFORMANCE

16	Small Flame Impingement Test	10
	16.1 General	10
	16.2 Apparatus	11
	16.3 Test method	11
17	Chemical Resistance Test	11
	17.1 General	11
	17.2 Test specimens	11
	17.3 Specimen conditioning	12
	17.4 Specimen testing	12
18	Resistance to Impact	12
	18.1 Sash glazing material	12
	18.2 Sash frame and track	13
	18.3 Bypass grille and interior walls	13
	18.4 Work surface	13
19	Air Flow Tests	13
	19.1 Test samples	13
	19.2 Test conditions	13
	19.3 Apparatus	14
	19.4 Face velocity profile	14
	19.5 Downflow velocity profile	14
	19.6 Baffle restriction	15
	19.7 Air flow direction	15

MARKING

20	General	15
----	---------------	----