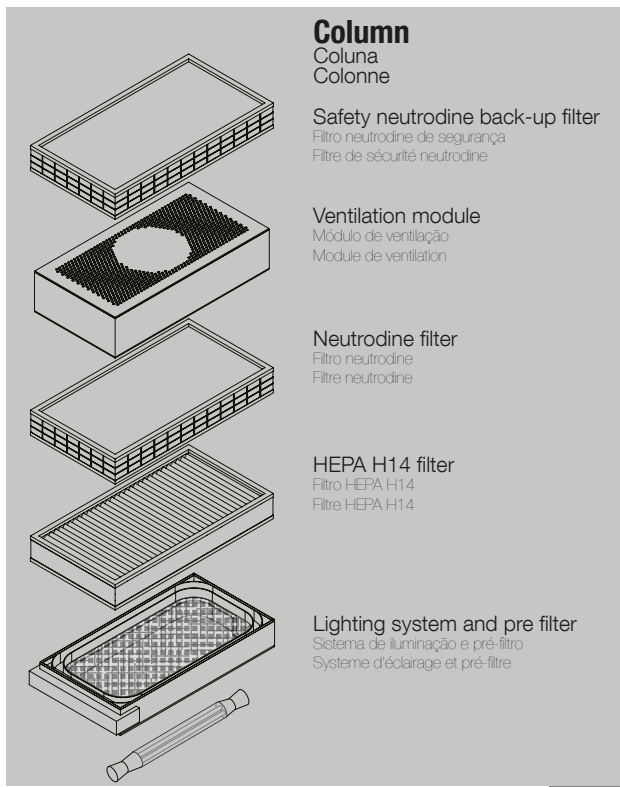


INDLAB FUME HOOD

HOTTE INDLAB
INDLAB SORBONNE



Industrial Laborum is an official integrator of Erlab Technology, which demonstrates the recognition of professionalism and quality of our products.

A Industrial Laborum é integradora oficial da Tecnologia Erlab, o que demonstra o reconhecimento do profissionalismo e da qualidade dos nossos produtos.

Industrial Laborum est un intégrateur officiel de la Technologie Erlab, qui démontre la reconnaissance du professionnalisme et de la qualité de nos produits.

ECOSMART FLOW

High performance chemistry filtered Fume Hood designed for use in laboratories that pose high risks to users and the environment.

The INDLAB ECO SMARTFLOW Fume Hood consists of:

- Exterior body consists of panels made of sheet steel coated with epoxy-polyester resins of high chemical resistance. It serves to support the work surface and the inner body of the hood. In the back space of the bench there is a technical zone where connections to the water, sewage, gas and electricity networks are made;
- Inner lining - Made of various materials with high chemical resistance. It has aerodynamic elements to optimize the flow of air during the extraction.
- Working surface - Made of various materials with high chemical resistance.
- Sash Window - Vertical opening (guillotine type), with a horizontal opening section, allows the user to safely handle dangerous substances inside the hood.

Our standard models come with a constant air volume (CAV) controller and the services are: a gas spout and two water spouts with the respective controls; it is also provided with a cup sink on the top or panels as well and two or three IP55 single-phase sockets. The controls and electrical plugs are placed on the front panels located under the worktop of the Fume Hood, and the nozzles being provided inside the Fume Hood in the panels on the deflectors. There is also the possibility of being supplied with the controls and sockets in the side towers, with the taps on the inside sides of the Fume Hood.

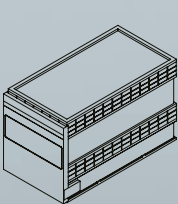
ECOSMART FLOW

Hotte de química, de alta performance, desenvolvida para utilização em trabalhos laboratoriais que constituam riscos elevados para os utilizadores e para o ambiente.

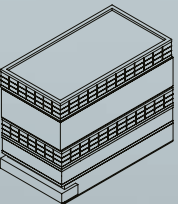
A Hotte INDLAB ECO SMARTFLOW é constituída por:

- Corpo exterior é constituído por painéis fabricados em chapa de aço revestida com resinas epóxi-poliéster de elevada resistência química. Serve de suporte à superfície de trabalho e ao corpo interior da hotte. No espaço posterior da bancada existe uma zona técnica onde se fazem as ligações às redes de água, esgoto, gases e electricidade;
- Carcaça interior – Fabricada em vários materiais de elevada resistência química. Possui elementos aerodinâmicos para otimizar o escoamento de ar durante a extração.
- Superfície de trabalho – Fabricada em vários materiais de elevada resistência química.
- Janela – De abertura vertical (tipo guilhotina), com uma secção de abertura horizontal, permite ao utilizador manusear substâncias perigosas no interior da hotte, em segurança.

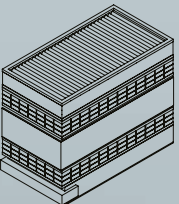
Os nossos modelos Standard são fornecidos com controlador CAV (Volume de Ar Constante) e os serviços são: uma bica de gás e duas bicas de água com os respetivos comandos; são ainda fornecidas com uma pileta no tampo ou nos painéis bem como duas ou três tomadas monofásicas IP55. Os comandos e fichas elétricas são colocados nos painéis frontais da hotte sob o tampo, sendo as bicas fornecidas em painéis do interior da hotte, nos deflectores. Há ainda a possibilidade de ser fornecida com os comandos e tomadas nas torres laterais, comos serviços nas laterais do interior da hotte.



Filter for liquids
Filtro para líquidos
Filtre pour les liquides



Filter for liquids and powders
Filtro para líquidos e pós
Filtre pour les liquides et pouders



Filter for cleanrooms
Filtro para salas limpas
Filtre pour les sales blanches

ECO SMARTFLOW

Sorbonne de chimie de filtres de haute performance conçue pour être utilisée dans des laboratoires présentant un risque élevé pour les utilisateurs et l'environnement.

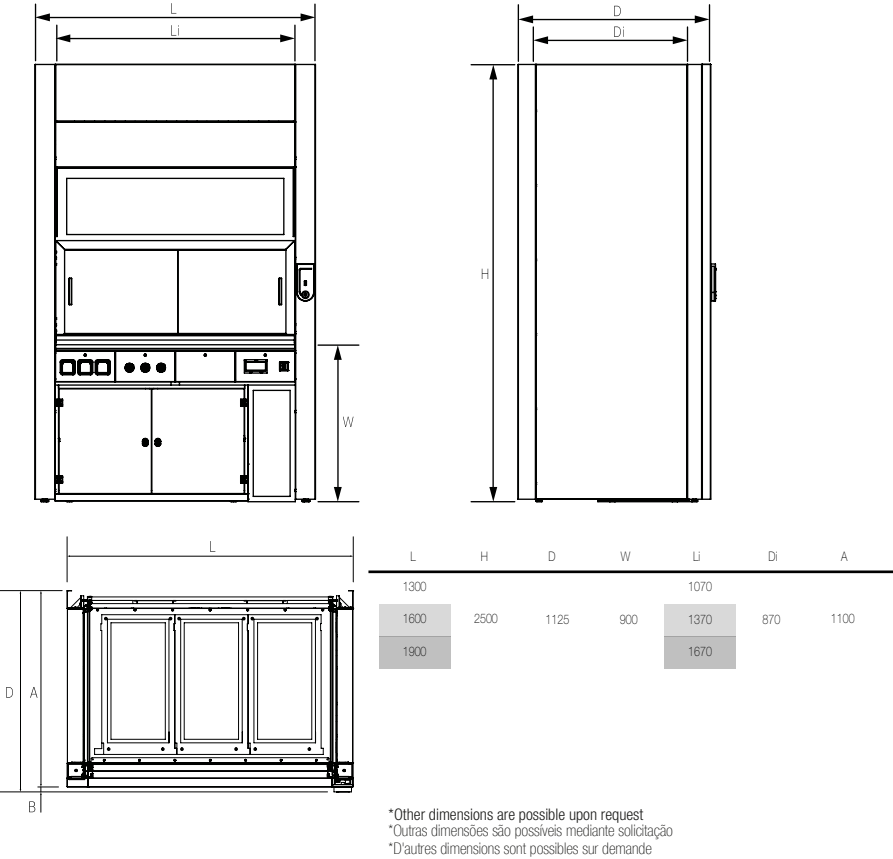
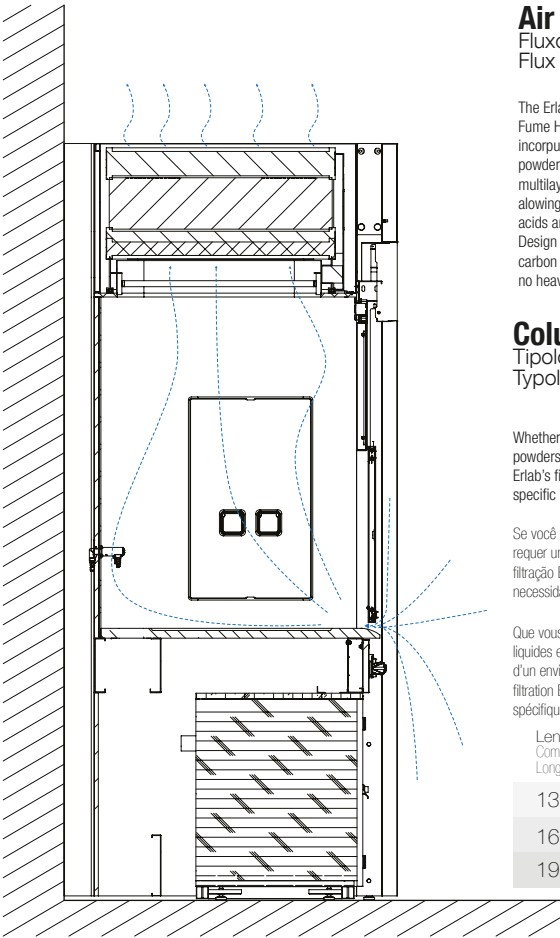
La Sorbonne INDLAB ECO SMARTFLOW comprend:

- La carrosserie extérieure est constituée de panneaux en tôle d'acier revêtue de résines époxy-polyester à haute résistance chimique. Il sert à soutenir la surface de travail et le corps intérieur de la sorbonne. Dans la partie arrière du paillasse se trouve une zone technique où les connexions aux réseaux d'eau, d'assainissement, de gaz et d'électricité sont établies;
- Doublure intérieure - Fabriqué en divers matériaux à haute résistance chimique. Il comporte des éléments aérodynamiques permettant d'optimiser le flux d'air lors de l'extraction.
- Surface de travail - Fabriqué en divers matériaux à haute résistance chimique.
- Fenêtre à guillotine - L'ouverture verticale (type guillotine), avec une section d'ouverture horizontale, permet à l'utilisateur de manipuler en toute sécurité des substances dangereuses à l'intérieur de la sorbonne.

Nos modèles standard sont livrés avec un contrôleur de volume d'air constant (CAV). Les services proposés sont: un bec de gaz et deux becs d'eau avec les commandes correspondantes. Il est également fourni avec une bénitier sur le dessus ou des panneaux et deux ou trois Prises monophasées IP55. Les commandes et les prises électriques sont placées sur les panneaux avant situés sous le plan de travail de la sorbonne, les buses étant prévues à l'intérieur de la sorbonne dans les panneaux des deflecteurs. Il est également possible de fournir les commandes et les prises dans les tours latérales, avec les robinets situés à l'intérieur de la sorbonne.

TECHNICAL SPECIFICATIONS
ESPECIFICAÇÕES TÉCNICAS
SPÉCIFICATIONS TECHNIQUES

Dimensions
Dimensões
Dimensions



Air flow
Fluxo de ar
Flux d'air
The Erlab technology incorporated in our Indlab Fume Hood has a two layers filtration system, with incorporated HEPA H14 filter, for an absorption of powders, and Neutrodine Filters, that uses a multilayer technology to transform molecules, allowing the simultaneous absorption of solvents, acids and bases.

Column typology
Tipologia de coluna
Typologie de colonne

Whether you handle liquids / powders / liquids & powders, or require a cleanroom environment, Erlab's filtration column can be configured to your specific needs.

Se você lida com líquidos / pós / líquidos e pós, ou requer um ambiente de sala limpa, a coluna de filtração Erlab pode ser configurada para suas necessidades específicas.

Que vous manipulez des liquides / des poudres / des liquides et des poudres, ou que vous ayez besoin d'un environnement en salle blanche, la colonne de filtration Erlab peut être configurée selon vos besoins spécifiques.

Length Comprimento Longueur	
1300	117-1001
1600	117-1002
1900	117-1003

A tecnologia Erlab incorporada na nossa Hotte Indlab possui um sistema de filtração de duas camadas, com filtro HEPA H14 incorporado, para absorção de pós e Filtros de Neutrodina que utiliza uma tecnologia multicamada para moléculas transformadas, permitindo a absorção simultânea de solventes, ácidos e bases. Projectado com um quadro de filtro exclusivo que evita o deslocamento do carbono. Porque não contém nenhum metal pesado é um produto ecológico, respeitando assim o Meio-Ambiente.

La technologie Erlab intégrée à notre Sorbonne Indlab comprend un système de filtration à deux couches avec un filtre HEPA H14 intégré pour l'absorption de la poussière et des filtres Neutrodine utilisant une technologie multicouche pour les molécules transformées, permettant l'absorption simultanée de solvants, d'acides et de bases. Conçu avec un cadre de filtre unique qui empêche le déplacement de carbone. Parce qu'il ne contient pas de métal lourd, il respecte l'environnement.

Dedicated filters
Filtros dedicados
Filtres dédiés

Solvent
Solventes
Solvant

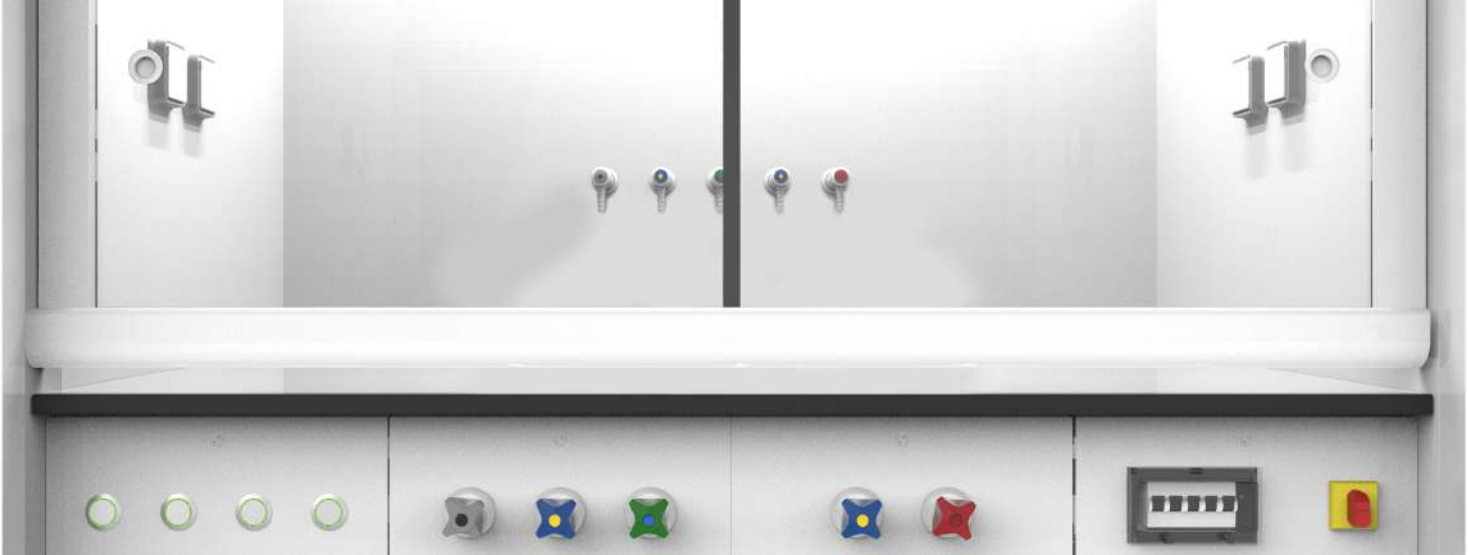
Acids
Acidos
Acides

Bases
Bases
Bases

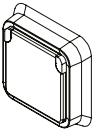
Neutrodine filters
Filtros Neutrodine
Filtres Neutrodine

Tests according to AFNOR NF X 15-211 standard

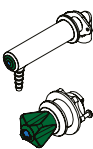
Solvent Solventes Solvant Isopropyl Alcohol 3365gr	Acids Acidos Acides HCl (35%) 13645gr	Bases Bases Bases Ammonia 1920gr
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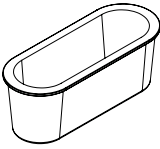
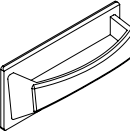
Standard services
Serviços standard
Services standard



2/3 schuko-type outlets (type F), 230V, protection class IP55**
2/3 tomadas do tipo schuko (tipo F), 230V, classe de proteção IP55**
2/3 prises de type schuko (type F), 230V, degré de protection IP55 **



Two cold water valves and one natural gas valve, with the respective taps.
Duas válvulas de água fria e uma válvula de gás natural, com as respectivas torneiras.
Deux vannes d'eau froide et une vanne de gaz naturel, avec les robinets respectifs.



One Drip Cup fixed in the service panel or undermounted on the worktop.
Uma piletta fixa ao painel de serviço ou na superfície de trabalho.
Une bémittier fixé dans le panneau de service ou sur le plan de travail.

*Other services are possible upon request
*Outros serviços são possíveis mediante solicitação
*D'autres services sont possibles sur demande

**model 1200 with two sockets and model 1500 and 1800 with 3 sockets. The location of the sockets will be on the front panels of the fume hood, and you must specify if you want in any other location.
**modelo 1200 com duas tomadas e modelo 1500 e 1800 com 3 tomadas. A localização das tomadas será nos painéis frontais da hotte, devendo especificar se quiser em qualquer outra localização.
**modèle 1200 avec deux prises et modèle 1500 et 1800 avec 3 prises.L'emplacement des prises sera sur les faces avant de la sorbonne, et vous devez spécifier si vous voulez dans tout autre endroit.

Electrical information
Informação eléctrica
Informations électriques

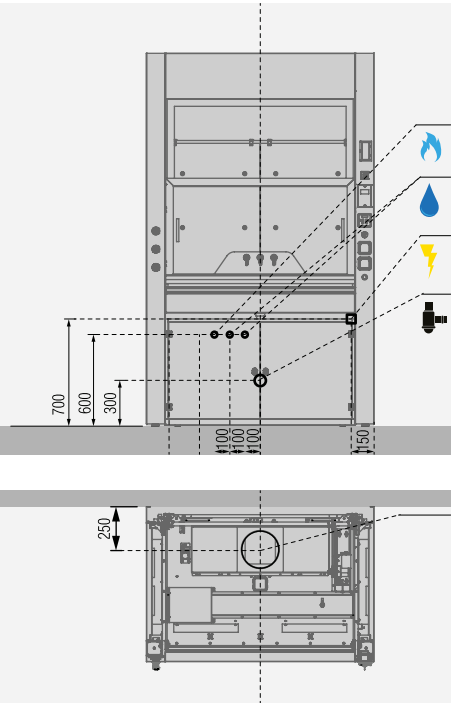
The INDLAB Fume Hood is a class I equipment, so all accessible metal parts are connected to the earth terminal, which must be connected to the earth protective circuit of the building. The terminal strips for electrically connecting the Fume Hood are located in the electrical cabinet on the control panels. The equipment has all necessary magnetothermic protections, namely: - Protection circuit breaker of the fan; - Protection circuit breaker of the circuit of the sockets; - Circuit breaker protection for the lighting system; - Protection circuit breaker for the control circuit.

The installation site must have a circuit-breaker to ensure that in the case of other equipment connected to the circuit-breaker, these shall not be without power in case of maintenance of the Fume Hood.

Model size Tamanho do modelo Taille du modèle	Power Supply Voltage Tensão de alimentação Tension d'alimentation V	Frequency Frequência Fréquence Hz	Power supply Potência de alimentação Tension d'alimentation kW	Installed power Potência instalada Puissance installée kW
1300	400,3~ / 230,1~	50	5	0.32
1600	400,3~ / 230,1~	50	5	0.72
1900	400,3~ / 230,1~	50	5	0.72

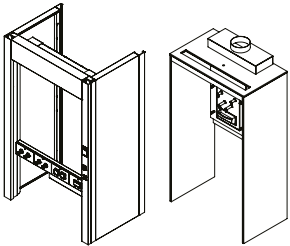
*Electrical Kits for fume hoods in the services chapter
*Kits eléctricos para hottes no capítulo de serviços
*Kits électriques pour les sorbannes dans le chapitre des services

Services pre-installation
Pré-instalação de serviços
Pré-installation des services



MATERIALS AND CODIFICATION

MATERIAIS E CODIFICAÇÃO
MATÉRIEL ET CODIFICATION



STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

COMPACT LAMINATE
COMPACTO FENÓLICO
PHENOLIC COMPACT

COMPACT LAMINATE
COMPACTO FENÓLICO
PHENOLIC COMPACT

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

COMPACT LAMINATE
COMPACTO FENÓLICO
PHENOLIC COMPACT

POLYPROPYLENE
POLIPROPILENO
POLYPROPYLENE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

COMPACT LAMINATE
COMPACTO FENÓLICO
PHENOLIC COMPACT

TECHNICAL CERAMIC
GRÉS CERÂMICO
CÉRAMIQUE TECHNIQUE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

POLYPROPYLENE
POLIPROPILENO
POLYPROPYLENE

TECHNICAL CERAMIC
GRÉS CERÂMICO
CÉRAMIQUE TECHNIQUE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

STAINLESS STEEL
AÇO INOX
ACIER INOXYDABLE

STAINLESS STEEL
AÇO INOX
ACIER INOXYDABLE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

TECHNICAL CERAMIC
GRÉS CERÂMICO
CÉRAMIQUE TECHNIQUE

TECHNICAL CERAMIC
GRÉS CERÂMICO
CÉRAMIQUE TECHNIQUE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

POLYPROPYLENE
POLIPROPILENO
POLYPROPYLENE

POLYPROPYLENE
POLIPROPILENO
POLYPROPYLENE

STAINLESS STEEL
AÇO INOX
ACIER INOXYDABLE

STAINLESS STEEL
AÇO INOX
ACIER INOXYDABLE

STAINLESS STEEL
AÇO INOX
ACIER INOXYDABLE

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

STEEL SHEET
CHAPA DE AÇO
TÔLE D'ACIER

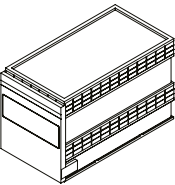
TECHNICAL CERAMIC
GRÉS CERÂMICO
CÉRAMIQUE TECHNIQUE

L x D x H*	CARCASE + TECHNOLOGY + COLUMNS**	
1300x1010x2500	117-0009	117-1001
1600x1010x2500	117-0010	117-1002
1900x1010x2500	117-0011	117-1003
2200x1010x2500	117-0012	117-1004
1300x1010x2500	117-0005	117-1001
1600x1010x2500	117-0006	117-1002
1900x1010x2500	117-0007	117-1003
2200x1010x2500	117-0008	117-1004
1300x1010x2500	117-0001	117-1001
1600x1010x2500	117-0002	117-1002
1900x1010x2500	117-0003	117-1003
2200x1010x2500	117-0004	117-1004
1300x1010x2500	117-0013	117-1001
1600x1010x2500	117-0014	117-1002
1900x1010x2500	117-0015	117-1003
2200x1010x2500	117-0016	117-1004
1300x1010x2500	117-0029	117-1001
1600x1010x2500	117-0030	117-1002
1900x1010x2500	117-0031	117-1003
2200x1010x2500	117-0032	117-1004
1300x1010x2500	117-0021	117-1001
1600x1010x2500	117-0022	117-1002
1900x1010x2500	117-0023	117-1003
2200x1010x2500	117-0024	117-1004
1300x1010x2500	117-0017	117-1001
1600x1010x2500	117-0018	117-1002
1900x1010x2500	117-0019	117-1003
2200x1010x2500	117-0020	117-1004
1300x1010x2500	117-0025	117-1001
1600x1010x2500	117-0026	117-1002
1900x1010x2500	117-0027	117-1003
2200x1010x2500	117-0028	117-1004
1300x1010x2500	117-0055	117-1001
1600x1010x2500	117-0056	117-1002
1900x1010x2500	117-0057	117-1003
2200x1010x2500	117-0058	117-1004

*Length x Depth x Height
*Comprimento x Profundidade x Altura
*Longueur x Profondeur x Hauteur

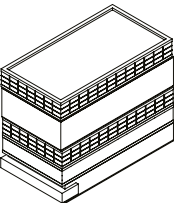
**Quotation needs the three components
**A cotação precisa dos três componentes
**La soumission a besoin des trois composantes

Kit of columns
Kit de colunas
kit de colonnes



Filter for liquids
Filtro para líquidos
Filtre pour les liquides

Length Comprimento Longueur	
1300	117-2001
1600	117-2002
1900	117-2003
2200	117-2004

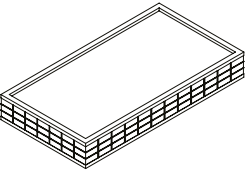


Filter for liquids and powders
Filtro para líquidos e pós
Filtre pour les liquides et pouders

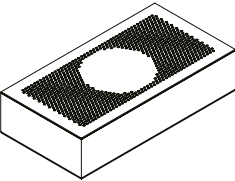
Length Comprimento Longueur	
1300	117-3001
1600	117-3002
1900	117-3003
2200	117-3004



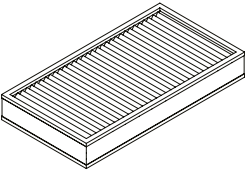
Replacing Parts
Substituição de partes
Remplacement de pièces



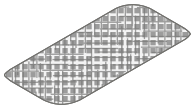
Neutrodine filter
Filtro neutrodine
Filtre neutrodine
cod.117-4001



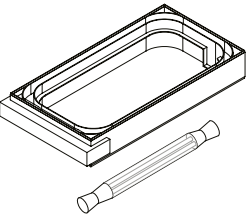
Ventilation module
Módulo de ventilação
Module de ventilation
cod.117-6002



HEPA H14 filter
Filtro HEPA H14
Filtre HEPA H14
cod.117-4002



Pre filter
Pré-filtro
Pré-filtre
cod.117-4003



Lighting system
Sistema de iluminação
Système d'éclairage
cod.117-6011

ibérica

Industrial Laborum

l a b i n t e g r a t e d s y s t e m s

sede

Rua Alfredo Cunha, nº155, Loja 34
4450-023 Matosinhos
Portugal

instalações fabris

Sobreiro Torto, Branca - Apt. 187
3854-909 Albergaria-a-Velha
Portugal

delegação comercial

Rua Professor Mernâni Cidade 11b
1600-631 Lisboa , Portugal

T +351 234 629 500
F +351 234 628 263

www.industriallaborum.com