

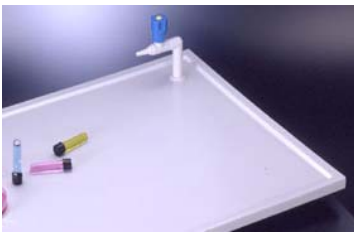


## Fume Cabinet's series FHV with vertical front.

Support stand: 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Work surface: The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



Upper body: 13mm non-flammable compact plastic for laboratory use. Compact plastic is 100% water proof material and resistant for chemicals.

Front sash: 6mm laminated safety glass moves up and down with weights.



Taps and valves: according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

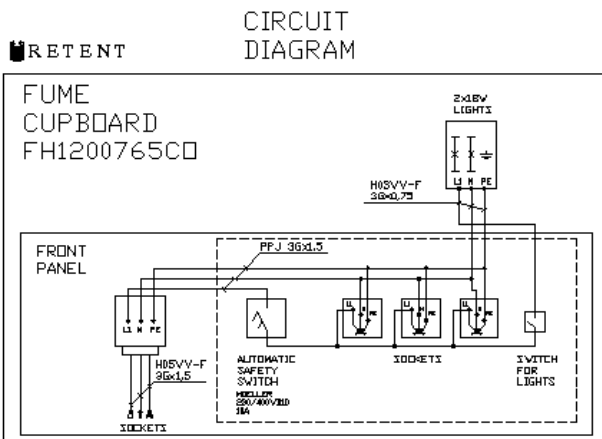
Electricity sockets: according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.



## Technical data

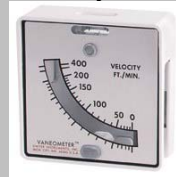
### Model

	FHV_1,2	FHV_1,6	FHV_1,8
<b>Work chamber dim. mm</b>	1170 x 535 x 890	1570 x 535 x 890	1770 x 535 x 890
<b>Overall dim. mm</b>	1200 x 765 x 2400	1600 x 765 x 2400	1800 x 765 x 2400
<b>Weight kg.</b>	280	350	420
<b>Front opening mm</b>	700	700	700
<b>Power supply V</b>	230V – 50Hz	230V – 50Hz	230V – 50Hz
<b>Lighting</b>	≤ 700 lux	≤ 700 lux	≤ 700 lux
<b>Exhaust tube dim.</b>	200	200	250
<b>Requirements for output</b>	450-700 m3/h	750-950 m3/h	800-1000 m3/h



#### Standard options: (included)

- Lighting
- Electricity sockets 230V- 1 pc.
- Water supply- cold water 1 pc.
- Sink- 300x150mm
- Velocity



#### Options: (not included)

- Gas and vacuum taps;
- Additional electricity sockets;
- Black-out switch;



- Electronical air flow controller



- Fan





## Fume Cabinet's series FHS with sloping front.

Support stand: 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Work surface: The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



Upper body: 13mm non-flammable compact plastic for laboratory use. Compact plastic is 100% water proof material and resistant for chemicals.

Front sash: 6mm laminated safety glass moves up and down with weights.



Taps and valves: according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

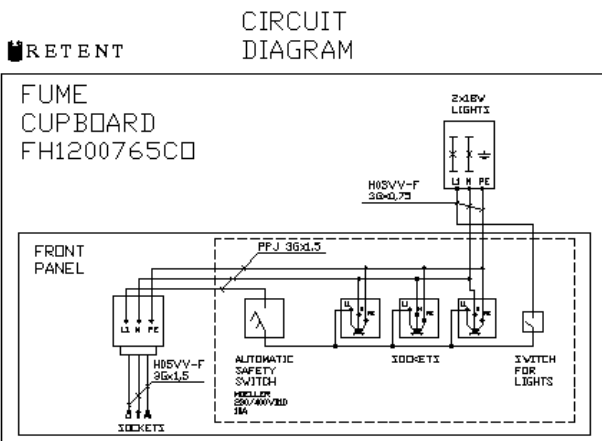
Electricity sockets: according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.



Technical data


Model

	FHS_1,2	FHS_1,6	FHS_1,8
<b>Work chamber dim. mm</b>	1170 x 535-400 x 890	1570 x 535-400 x 890	1770 x 535-400 x 890
<b>Overall dim. mm</b>	1200 x 765 x 2400	1600 x 765 x 2400	1800 x 765 x 2400
<b>Weight kg.</b>	280	350	420
<b>Front opening mm</b>	700	700	700
<b>Power supply V</b>	230V – 50Hz	230V – 50Hz	230V – 50Hz
<b>Lighting</b>	≤ 700 lux	≤ 700 lux	≤ 700 lux
<b>Exhaust tube dim.</b>	200	200	250
<b>Requirements for output</b>	450-700 m3/h	750-950 m3/h	800-1000 m3/h





**Standard options: (included)**

- Lighting
- Electricity sockets 230V- 1 pc.
- Water supply- cold water 1 pc.
- Sink- 300x150mm
- Velocity



**Options: (not included)**

- Gas and vacuum taps;
- Additional electricity sockets;
- Black-out switch;
- Electronical air flow controller
- Fan




## Fume Cabinet's series FHE for education.

Support stand: 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Work surface: The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



Upper body: 13mm non-flammable compact plastic for laboratory use. Compact plastic is 100% water proof material and resistant for chemicals. Side walls are made of 6mm tempered safety glass.

Front sash: 6mm laminated safety glass moves up and down with weights.



Taps and valves: according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

Electricity sockets: according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.

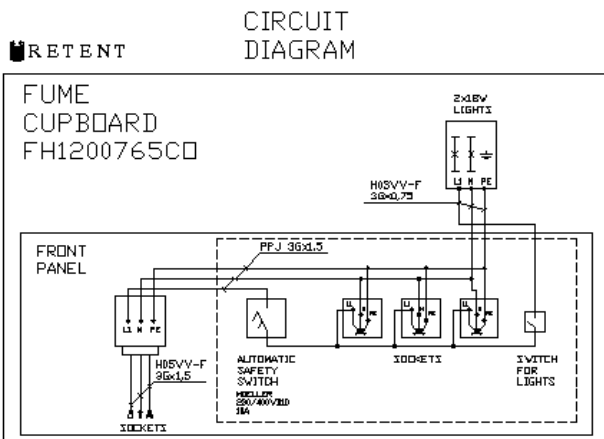




## Technical data

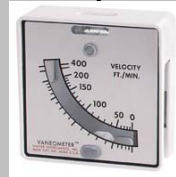
### Model

	FHE_1,0	FHE_1,2	
<b>Work chamber dim. mm</b>	970 x 535-400 x 890	1170 x 535-400 x 890	
<b>Overall dim. mm</b>	1200 x 765 x 2400	1600 x 765 x 2400	
<b>Weight kg.</b>	190	240	
<b>Front opening mm</b>	700	700	
<b>Power supply V</b>	230V – 50Hz	230V – 50Hz	
<b>Lighting</b>	≤ 700 lux	≤ 700 lux	
<b>Exhaust tube dim.</b>	160	200	
<b>Requirements for output</b>	450-700 m3/h	750-950 m3/h	



### Standard options: (included)

- Lighting
- Electricity sockets 230V- 1 pc.
- Water supply- cold water 1 pc.
- Sink- 300x150mm
- Velocity



### Options: (not included)

- Gas and vacuum taps;
- Additional electricity sockets;
- Black-out switch;



- Fan





## ORDER-LIST for FUME CABINETS



**FH-V**



**FH-S**



**FH-E**



NB! Mark as x= yes

L= 1000 mm	<input type="checkbox"/>	L= 1200 mm	<input type="checkbox"/>	L= 1600 mm	<input type="checkbox"/>	L= 1800mm	<input type="checkbox"/>
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Upper body	<input type="checkbox"/>
MFC (melamine faced chipboard)	<input type="checkbox"/>
HPL (high pressure laminated chipboard)	<input type="checkbox"/>
SGL (solid grade laminate or compact)	<input type="checkbox"/>
PP (polypropylene)	<input type="checkbox"/>

Work surface	<input type="checkbox"/>
SS (stainless steel)	<input type="checkbox"/>
PP (polypropylene)	<input type="checkbox"/>
CER (ceramic)	<input type="checkbox"/>
SGL (compact)	<input type="checkbox"/>

OPTIONS	Quantity	
Cold Water		
Mixed water		
Special Water		
Vacuum	V	
Compressed	AIR	
Oxygene	O <sub>2</sub>	
Burning	GAS	
Nitrogene	N <sub>2</sub>	
Argon	Ar	
Helium	He	
Hydrogene	H <sub>2</sub>	
Carbon dioxide	CO <sub>2</sub>	

OPTIONS	Quantity	
Elect. Sockets 230V		
Airflow controller		
Fan- explosion proof		
Speed reg. For fan		
Fan-non explosionpr.		
Black-out switch		



## Laboratory At Wall Bench series Strong

**Frame:** 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Simple solution fulfils all your needs for many years.

**HPL:** 27mm moisture proof chipboard, laminated with Laboratory Grade high pressure laminate.

**SGL:** 13mm solid grade laminate (100% water proof), resistant for chemicals.

**Ceramic:** The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



**Taps and valves:** according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

Available quick connections for clean gases.



**Electricity sockets:** according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.

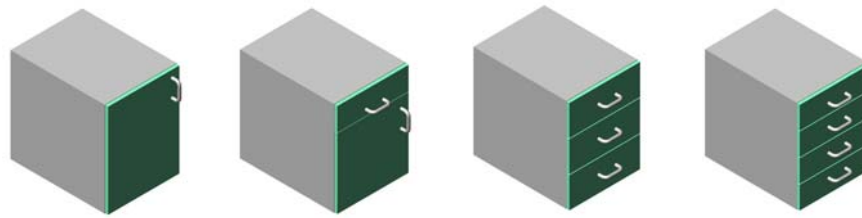




## Model of Bench in Strong series

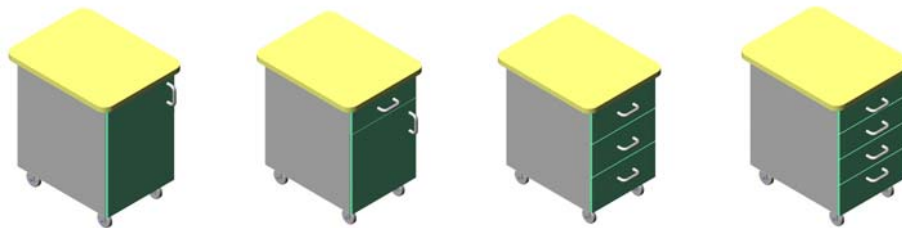
	TL_0,8_S	TL_1,2_S	TL_1,6_S	TL_2,4_S
Dimensions mm	800x800x900-2600	1200x800x900-2600	1600x800x900-2600	2400x800x900-2600
Height of work top	750 & 900mm	750 & 900mm	750 & 900mm	750 & 900mm
Max load	200kg.	200kg.	200kg.	200kg.

### Lower Cupboards, frame fixed:



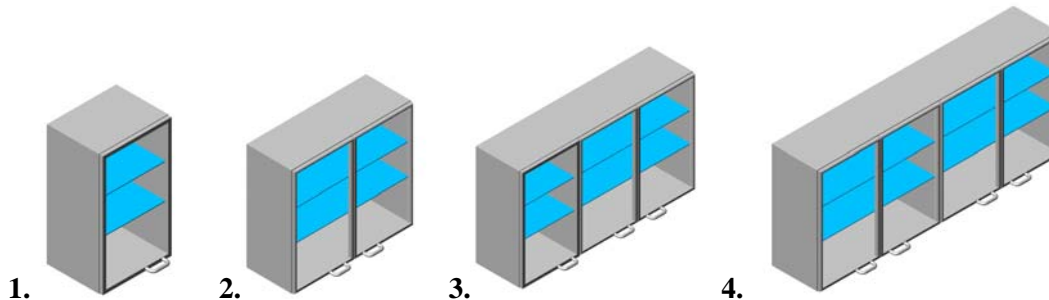
1. 2. 3. 4.

### Lower Cupboards, moveable:



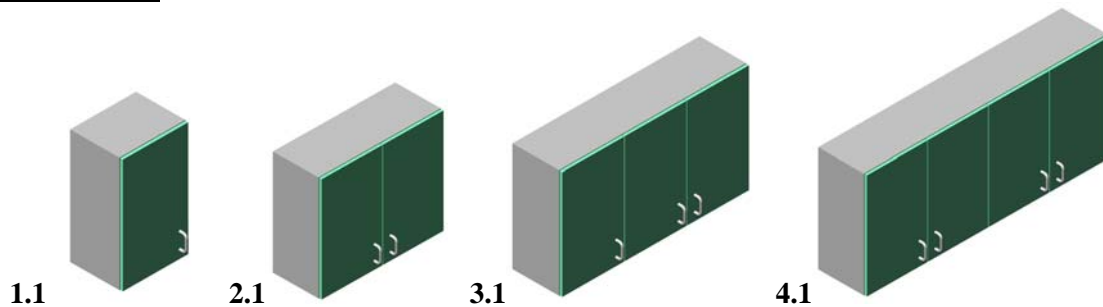
1.1 2.1 3.1 4.1

### Upper Cupboards AL-Glass:



1. 2. 3. 4.

### Upper Cupboards:



1.1 2.1 3.1 4.1



## Laboratory At Wall Bench series NOVO

**Frame:** 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



New solution of communication- stand allows to install very easy different type of gases and electricity. New type of aluminium profile is very modern and same time practical.

**HPL:** 27mm moisture proof chipboard, laminated with Laboratory Grade high pressure laminate.

**SGL:** 13mm solid grade laminate (100% water proof), resistant for chemicals.

**Ceramic:** The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



**Taps and valves:** according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

Available quick connections for clean gases.



**Electricity sockets:** according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.

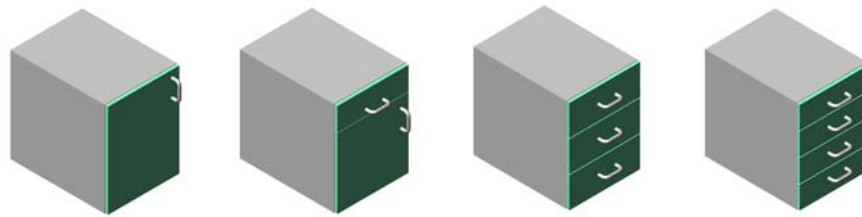




## Model of Bench in NOVO series

	TL_0,8_N	TL_1,2_N	TL_1,6_N	TL_2,4_N
Dimensions mm	800x800x900-2600	1200x800x900-2600	1600x800x900-2600	2400x800x900-2600
Height of work top	750 & 900mm	750 & 900mm	750 & 900mm	750 & 900mm
Max load	200kg.	200kg.	200kg.	200kg.

### Lower Cupboards, frame fixed:



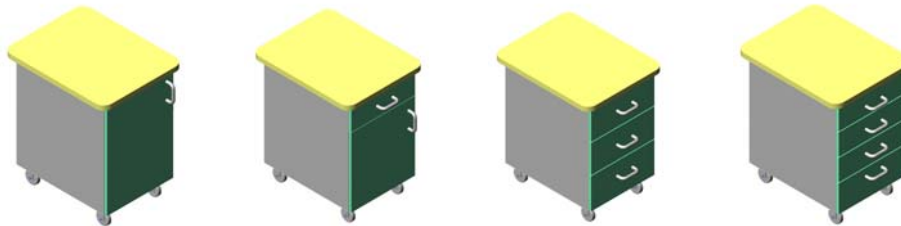
1.

2.

3.

4.

### Lower Cupboards, moveable:



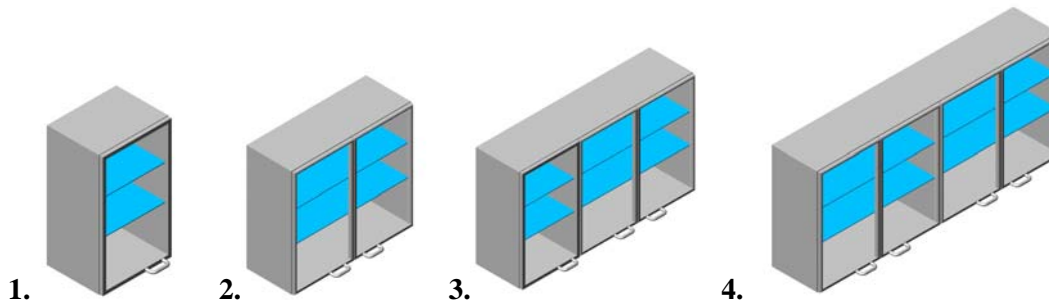
1.1

2.1

3.1

4.1

### Upper Cupboards AL-Glass:



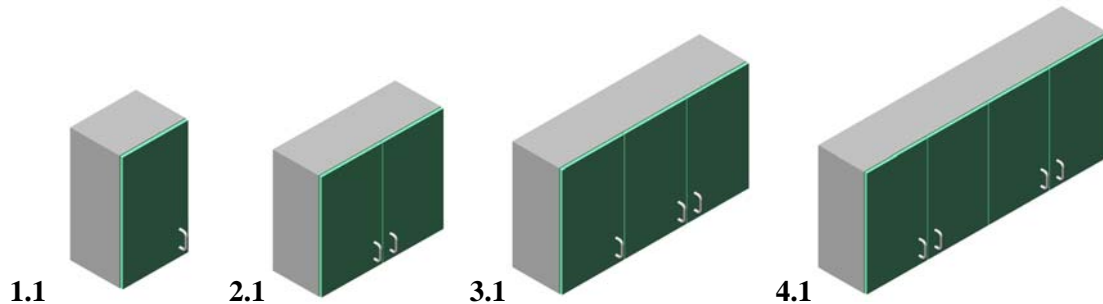
1.

2.

3.

4.

### Upper Cupboards:



1.1

2.1

3.1

4.1



## Laboratory At Wall Bench series PREMIUM

**Frame:** 40x40x2mm/30x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods. Adjustable height of worktop, shelves and upper cabinets.



New solution allows quick-change of work tops:

**HPL:** 27mm moisture proof chipboard, laminated with Laboratory Grade high pressure laminate.

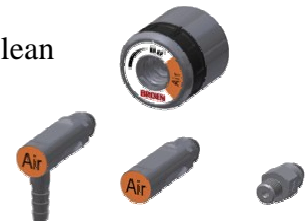
**SGL:** 13mm solid grade laminate (100% water proof), resistant for chemicals.

**Ceramic:** The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



**Taps and valves:** according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.

Available quick connections for clean gases.



**Electricity sockets:** according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.





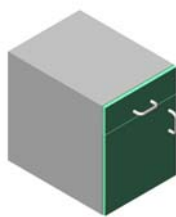
## Model of Bench in Premium series

	TL_0,8_P	TL_1,2_P	TL_1,6_P	TL_2,4_P
Dimensions mm	800x800x900-2600	1200x800x900-2600	1600x800x900-2600	2400x800x900-2600
Height of work top	600-900mm	600-900mm	600-900mm	600-900mm
Max load	200kg.	200kg.	200kg.	200kg.

### Lower Cupboards, frame fixed:



1.



2.



3.



4.

### Lower Cupboards, moveable:



1.1



2.1



3.1

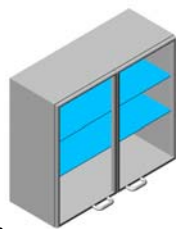


4.1

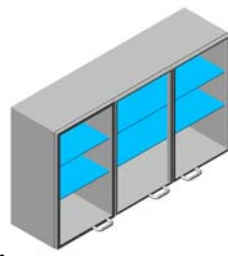
### Upper Cupboards AL-Glass:



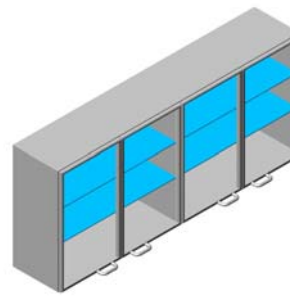
1.



2.

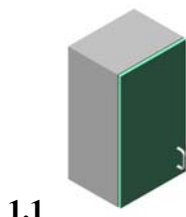


3.

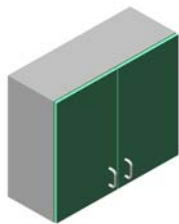


4.

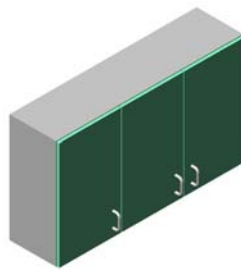
### Upper Cupboards:



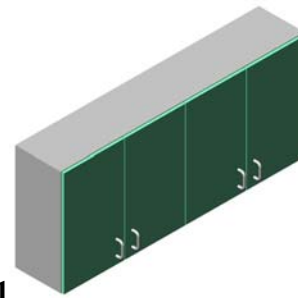
1.1



2.1



3.1



4.1



## Laboratory Island Bench series Strong

**Frame:** 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Simple solution fulfils all your needs for many years.

**HPL:** 27mm moisture proof chipboard, laminated with Laboratory Grade high pressure laminate.

**SGL:** 13mm solid grade laminate (100% water proof), resistant for chemicals.

**Ceramic:** The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



**Taps and valves:** according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.



**BROEN**  
The Professional Choice  
[www.broen.com](http://www.broen.com)

**Electricity sockets:** according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.

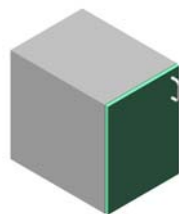




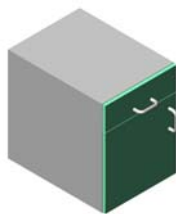
## Model of Island Bench in Strong series

	TLT_0,8_S	TLT_1,2_S	TLT_1,6_S	TLT_2,4_S
Dimensions mm	800x1600x900-2600	1200x1600x900-2600	1600x1600x900-2600	2400x1600x900-2600
Height of work top	750 & 900mm	750 & 900mm	750 & 900mm	750 & 900mm
Max load	200kg.	200kg.	200kg.	200kg.

### Lower Cupboards, frame fixed:



1.



2.



3.



4.

### Lower Cupboards, moveable:



1.1



2.1

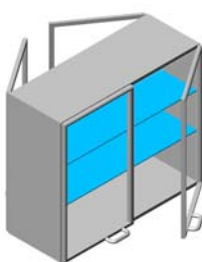


3.1

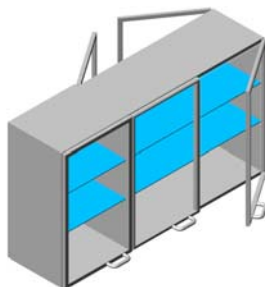


4.1

### Upper Cupboards AL-Glass:



1.



2.





## Laboratory Island Bench series Novo

**Frame:** 60x30x1,5mm Epoxy powder coated rectangular tube frame, according to EN 13150 Workbenches for laboratories. Dimensions, safety requirement and test methods.



Simple solution fulfils all your needs for many years.

**HPL:** 27mm moisture proof chipboard, laminated with Laboratory Grade high pressure laminate.

**SGL:** 13mm solid grade laminate (100% water proof), resistant for chemicals.

**Ceramic:** The glazing of the worktops and sinks has been specially studied to withstand the aggression of the chemicals that are normally used in a laboratory. Modular worktops with relief borders on the four sides. Thickness: 37/30 mm; working surface: 30 mm; borders: 37 mm.



**Taps and valves:** according to EN13792 Color coding of taps and valves for use in laboratories, company BROEN.



**BROEN**  
For the professional user  
[www.broen.com](http://www.broen.com)

**Electricity sockets:** according to EN61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. General Electric.





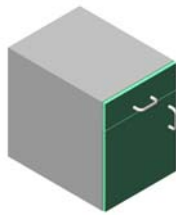
## Model of Island Bench in NOVO series

	TLT_0,8_N	TLT_1,2_N	TLT_1,6_N	TLT_2,4_N
Dimensions mm	800x1600x900-2600	1200x1600x900-2600	1600x1600x900-2600	2400x1600x900-2600
Height of work top	750 & 900mm	750 & 900mm	750 & 900mm	750 & 900mm
Max load	200kg.	200kg.	200kg.	200kg.

### Lower Cupboards, frame fixed:



1.



2.



3.



4.

### Lower Cupboards, moveable:



1.1



2.1

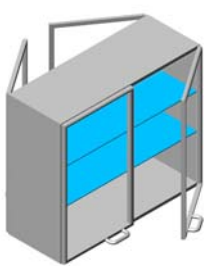


3.1

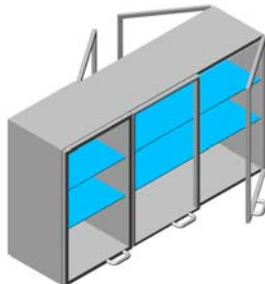


4.1

### Upper Cupboards AL-Glass:



1.



2.



## ORDER-LIST for at wall Benches



TL-Strong



TL-Novo



TL-Premium



NB! Mark as x= yes

L= 800 mm	<input type="checkbox"/>	L= 1200 mm	<input type="checkbox"/>	L= 1600 mm	<input type="checkbox"/>	L= 2400mm	<input type="checkbox"/>
-----------	--------------------------	------------	--------------------------	------------	--------------------------	-----------	--------------------------

Work surface	<input type="checkbox"/>
HPL (high pressure laminated chipboard)	<input type="checkbox"/>
SGL (solid grade laminate or compact)	<input type="checkbox"/>
PP (polypropylene)	<input type="checkbox"/>
CER (ceramic)	<input type="checkbox"/>

Work surface	<input type="checkbox"/>
SS (stainless steel)	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

OPTIONS	Quantity
Cold Water	
Mixed water	
Special Water	
Vacuum           V	
Compressed       AIR	
Oxygene           O <sub>2</sub>	
Burning            GAS	
Nitrogene         N <sub>2</sub>	
Argon              Ar	
Helium             He	
Hydrogene         H <sub>2</sub>	
Carbon dioxide   CO <sub>2</sub>	

CUPBOARDS	Quantity
<u>Frame fixed cupboards</u>	
1 door	
1 drawer + 1 door	
3 drawers	
4 drawers	
<u>Moveable cupboards</u>	
1 door	
1 drawer + 1 door	
3 drawers	
4 drawers	
Al. framed glass doors	
Laminated doors	

## ORDER-LIST for at Island Benches



TLT-Strong



TLT-Novoo



TLT-Premium



NB! Mark as x= yes

L= 800 mm	<input type="checkbox"/>	L= 1200 mm	<input type="checkbox"/>	L= 1600 mm	<input type="checkbox"/>	L= 2400mm	<input type="checkbox"/>
-----------	--------------------------	------------	--------------------------	------------	--------------------------	-----------	--------------------------

Work surface	<input type="checkbox"/>
HPL (high pressure laminated chipboard)	<input type="checkbox"/>
SGL (solid grade laminate or compact)	<input type="checkbox"/>
PP (polypropylene)	<input type="checkbox"/>
CER (ceramic)	<input type="checkbox"/>

Work surface	<input type="checkbox"/>
SS (stainless steel)	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

OPTIONS	Quantity
Cold Water	
Mixed water	
Special Water	
Vacuum V	
Compressed AIR	
Oxygene O <sub>2</sub>	
Burning GAS	
Nitrogene N <sub>2</sub>	
Argon Ar	
Helium He	
Hydrogene H <sub>2</sub>	
Carbon dioxide CO <sub>2</sub>	

CUPBOARDS	Quantity
<u>Frame fixed cupboards</u>	
1 door	
1 drawer + 1 door	
3 drawers	
4 drawers	
<u>Moveable cupboards</u>	
1 door	
1 drawer + 1 door	
3 drawers	
4 drawers	
Al. framed glass doors	
Laminated doors	



## Laboratory Wash Basins

There are three most useful materials for laboratory basins:

### **Stainless steel**



Stainless steel finds principle use as a construction material in the production of laboratory furniture in work surfaces and wash basins. The common feature of all stainless steel when compared

with other types of the same metal is its remarkable corrosion resistance in oxidising environments. The main types of steel we use conform to AISI standards 304 and 316. These types of steel are non-magnetic. Their principle characteristic is their amazing flexibility and thus ability to be processed, first and foremost in manufacturing processes requiring plastic deformation. The main difference between 304 steel and 316 steel is the molybdenum content. Whereas 304 steel contains none of the element, the average molybdenum content of 316 steel is 2.2-2.7%. Molybdenum makes steel even more resistant to chlorides and diluted acids. For this reason, 316 steel is more suitable when there is a need for increased acid resistance.

### **Polypropylene**



This is a tough, translucent, lightweight, semi-rigid thermoplastic polymer made from propylene. It has fair abrasion resistance, low moisture absorption rate, good resistance to heat and excellent dielectric properties.

Polypropylene possesses excellent resistance to organic solvents, degreasing agents, acids, alkalies and electrolytic attack, but poor aromatic, aliphatic and chlorinated solvent resistance. Degraded by ultraviolet light and may contain UV absorbers or antioxidants. Combustible, but slow-burning. Non-toxic. It is used for laboratory consoles, worktops, sinks and ducts.

### **Ceramic**



Artificial Italian stone manufactured using clay, silica, feldspar and a variety of other natural components, which is cleaned, reduced, mixed and heated to 1240 °C. The surface

of the finished product is glazed. The material obtained is especially durable to a number of exterior influences, is fireproof and waterproof and a very good electrical isolator. Its surface strength is 8 on the Mohs scale. It is highly resistant to the majority of laboratory chemicals, including acids, salts and solvents, in any concentration. The manufacturer does not guarantee its resistance to hydrogen fluoride and hot concentrated alkali. The surface of the material is easy to clean.



## Models of Wash Basins

	VK_0,8_S/P/C	VK_1,2_S/P/C	VK_1,4_S/P/C	VK_1,6_S/P/C
Dimensions mm	800x650x900	1200x650x900	1400x650x900	1600x650x900
Marine edge	yes	yes	yes	yes
Location of bowl	middle	Right/Left	Middle	Middle or double
Dimensions of bowls				
Stainless steel_S	600x450x250	600x450x250	600x450x250	600x450x250
Poypropylene_P	500x400x300	500x400x300	500x400x300	500x400x300
Ceramic_C	550x450x310	550x450x310	550x450x310	550x450x310



VK\_0,8



VK\_1,2



VK\_1,4/VK\_1,6



VK\_1,6\_Db

### Accessories



Mixers



Emergency showers



BROEN REDLINE emergency showers and eye washers meet the European Committee Standardisation requirements DS/EN 15154 1 and 2.



Drying rack





## Safety Storage Cabinets with high fire protection ASECOS

Storage of hazardous materials in buildings  
Safety Cabinet with fire resistance of 90, 60, 30 and 15 minutes with folding or wing doors, shelves or drawers (EN 14470-1) as well as Special Cabinets for hazardous, non-flammable materials.



*asecos*<sup>®</sup>



## Models of Storage Cabinets TKK

	TKK_0,8	TKK_1,0	TKK_0,8_S	TKK_1,0_S
Dimensions mm	800x500x2100	1000x500x2100	800x500x2100	1000x500x2100
Shelves HPL	4	4	-	-
Shelves SS	-	-	4	4

## Models of Storage Cabinets HK

	HK_0,8	HK_1,0	HK_1,2	-
Dimensions mm	800x400x2100	1000x400x2100	1200x400x2100	-
Shelves HPL	4	4	4	-

## Models of Safety Storage Cabinets ASECOS

	VBF.196.60-P-F	VBF.196.120-P-GF		
Fire protection	90 min.	90 min.		
Dimensions mm	600x615x1968	1200x615x1968		
Shelves	3-5	3-5		
Bottom sump	1	1		
Weight	260 kg.	420kg.		