



GENERAL TECHNICAL INFORMATION

For construction and installation preparations

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INTRODUCTION

In this document you will find underlying general information regarding the technical preparations required before the laboratory furniture can be installed.

Given that it is a general description, **there can always be deviating project-specific issues**, such as materials used and required capacities. You can find the codes that apply to your project in the specification of your quote.

For questions or information for a specific project, it is best to contact the relevant project manager from Vinitex.

If you have any questions and/or remarks, you can contact your contact person within Vinitex or via our general contact details.

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CHECKLIST !!

Before the laboratory furniture, storage cabinets and/or fume cupboards can be installed, the room should apply to some criteria first. Here you can find a (not limited) checklist with some important issues highlighted;

- ◇ The supply services like drainage, water, gas and electricity should be provided at the correct location per fume cupboard or lab bench as specified on the project drawings and/or in the general technical information document.
- ◇ Walls, windows and floors should be finished before installing the furniture. Without floor finish the furniture can not be installed!
- ◇ There are no (heating) pipes, window ledges, wall outlets, columns of other obstacles at the location of the furniture. If there are any obstacles please always inform Vinitex beforehand.
- ◇ (Lowered) ceiling should be high enough (see page 9).
- ◇ Necessary Architectural / construction provisions like roof / wall cut-outs and contact sheet for roof outlet should be done by third. (see page 10).
- ◇ The necessary exhaust installation should be of chemical resistant material (preferably synthetic) and should have enough capacity to guarantee a safe function. We always advise to make a provision to be able to adjust the capacity (control valve or frequency converter) and if necessary measurements against noise or fire protection should be foreseen by third. The minimal capacity needed can be found on the detail drawings of the fume cupboard / cabinets.
- ◇ The needed air supply in the room (Variable or constant depending on the exhaust system) should be adjusted to create the right airflow and pressure regime.
- ◇ Access to the building and the room should be free accessible, wide enough and without any obstacles for a safe entrance. Road until the building should be accessible with a truck. In case the furniture has to be installed at a higher level, a sufficient elevator should be freely available for use. If a crane or telehandler is needed for vertical transport, this should be provided by client free of charge. In case you have any doubts or comments regarding the access to the building, please contact us on forehand to discuss possibilities.

Any deviations on the points mentioned above should always be reported to Vinitex before planning the date of delivery. In case one of these points is a problem during delivery or mounting without discussing this with us beforehand, it can occur that we cannot finish the installation in accordance with the agreement. This can also cause extra costs for our client and/or negatively influence the planning.

In case of any questions or comments please feel free to contact your direct contact person within Vinitex or send an email to verkoop@vinitex.nl.

Specific project information always overrides general information.

DEMARCATION CODES

In the following pages you will find general drawings of furniture and fume cupboards. These drawings are only intended to indicate with colour what is included in the delivery of Vinitex in terms of piping and cabling.

The codes that apply to your project can be found in your quote/contract specification.

All pink pipes and cables must be provided by third parties.

It may be the case that the demarcation point has been provided in the furniture, so that third parties have to work in the Vinitex furniture*. If you expect Vinitex to not (yet) assemble or open and close certain parts for this purpose, you must clearly indicate this in advance your contact person within Vinitex or via verkoop@vinitex.nl.

* Note! Damage caused by work carried out by third parties is not covered by the warranty.

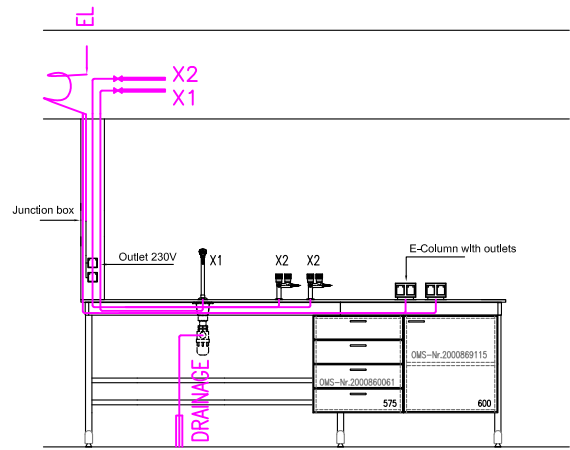
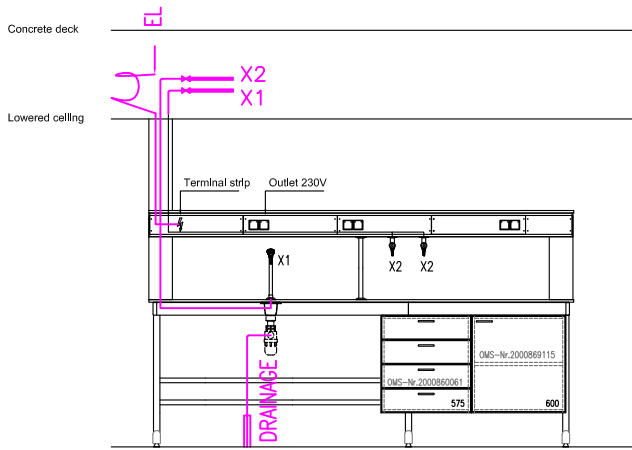
Check carefully whether the codes indicated correspond to your situation!

If one of the following situations occurs, you should always contact your contact person within Vinitex or report it via verkoop@vinitex.nl:

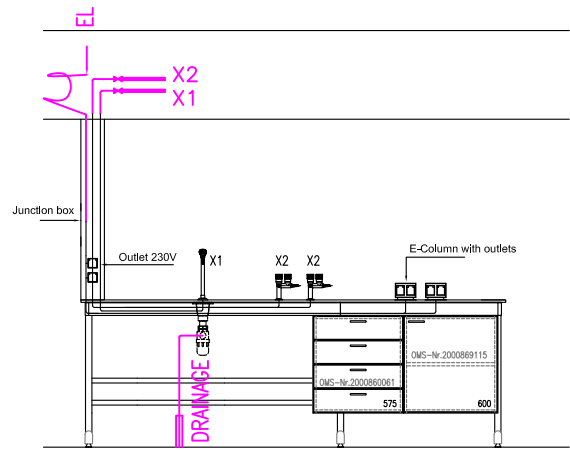
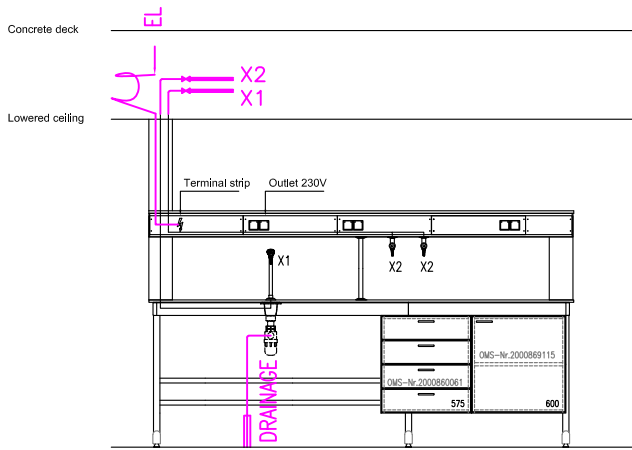
- ◇ The position of the power supplies does not correspond to the indicated code (e.g. water pipes come from the floor instead of the ceiling)
- ◇ Third party assumes a different demarcation
- ◇ You have provided other materials
- ◇ You have provided other diameters
- ◇ You have provided other connections (e.g. no valve)
- ◇ You want a different demarcation

SUPPLY FROM CEILING

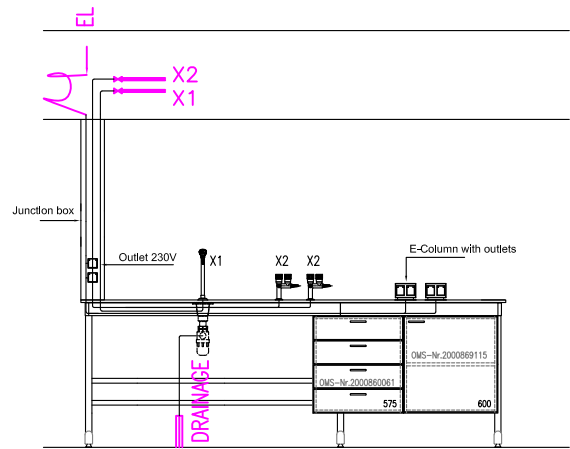
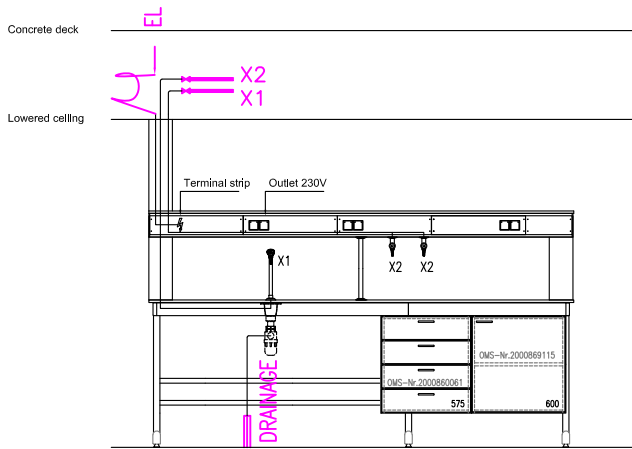
BY CUSTOMER / THIRD (PINK)
BY VINITEX (BLACK)



M1A CONNECTION TO MAIN SUPPLY: THIRD



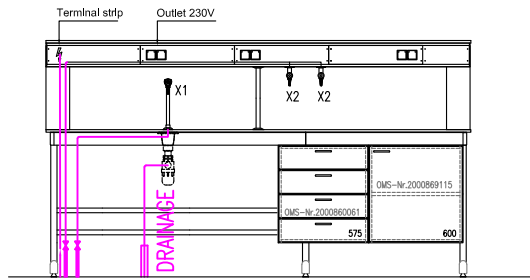
M2A CONNECTION TO MAIN SUPPLY: THIRD



M3A CONNECTION TO MAIN SUPPLY: VINITEX

SUPPLY FROM FLOOR / WALL

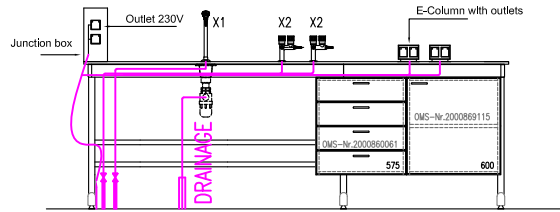
BY CUSTOMER / THIRD (PINK)
BY VINITEX (BLACK)



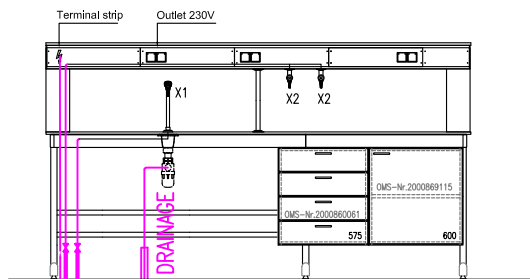
EL X1 X2

M1B

CONNECTION TO MAIN SUPPLY: THIRD



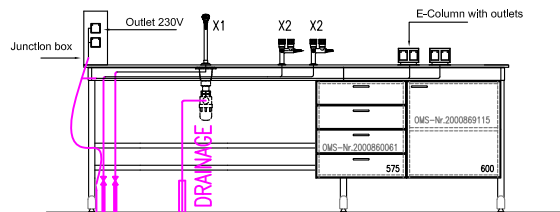
EL X1 X2



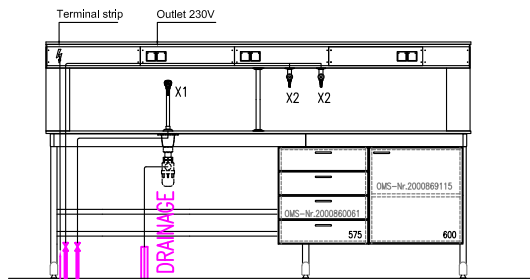
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M2B

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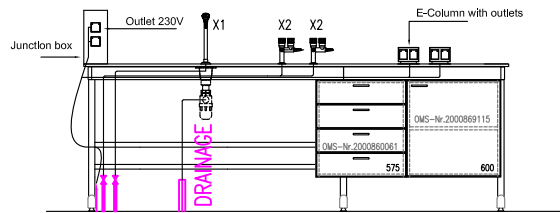
EL X1 X2



EL X1 X2

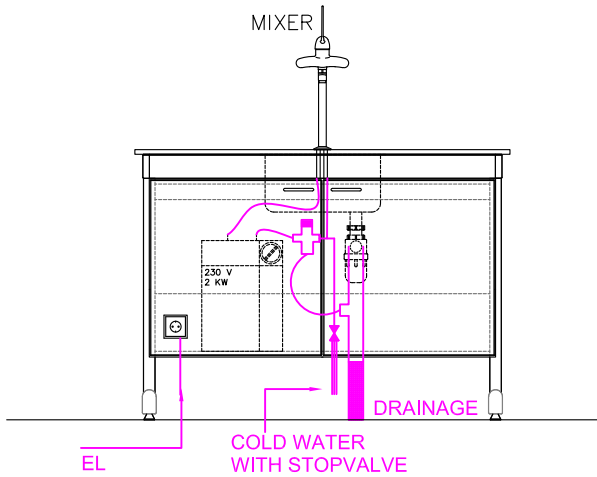
M3B

CONNECTION TO MAIN SUPPLY: VINITEX

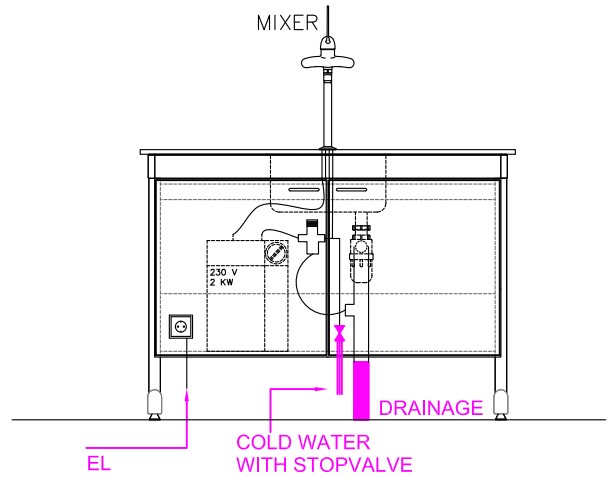


EL X1 X2

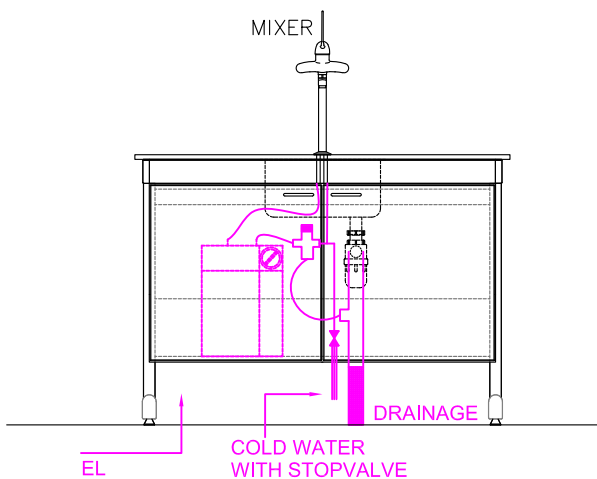
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BY VINITEX (BLACK)



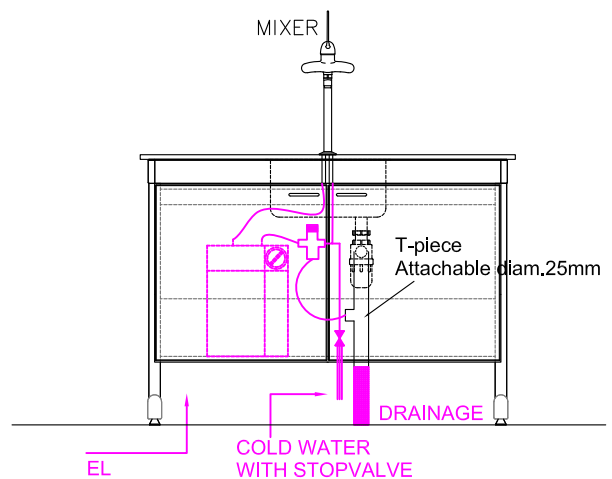
B1 CONNECTION TO MAIN SUPPLY: THIRD



B2 CONNECTION TO MAIN SUPPLY: VINITEX

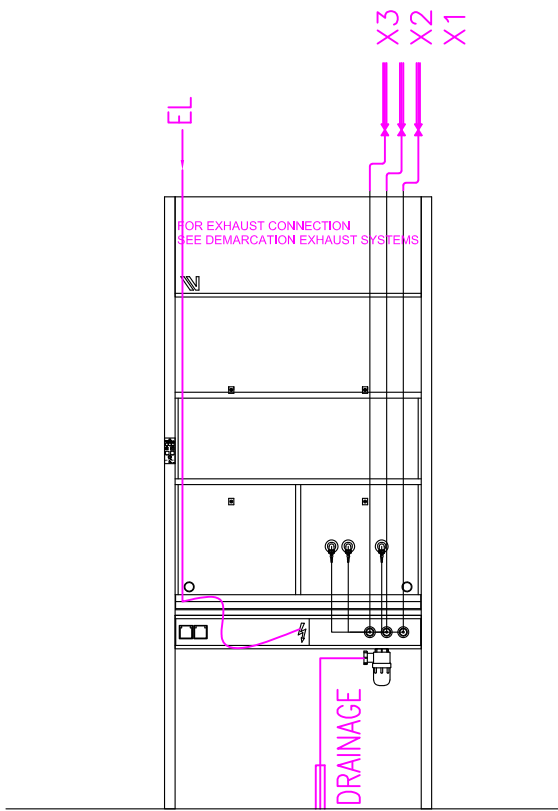


B3 CONNECTION TO MAIN SUPPLY: THIRD



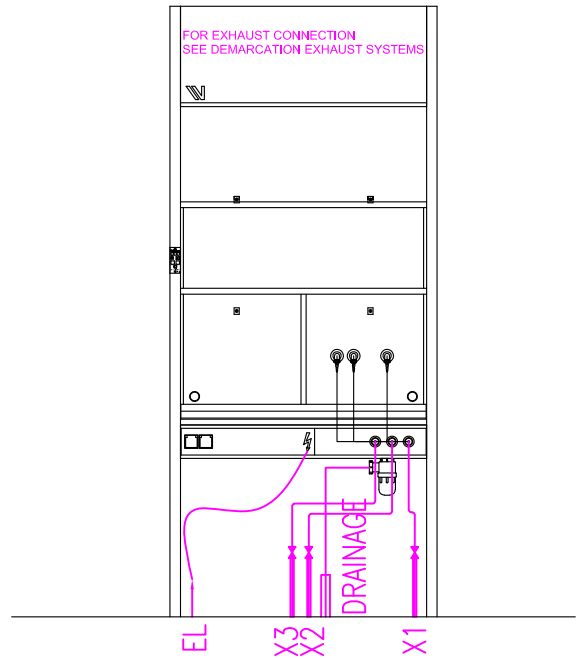
B4 CONNECTION TO MAIN SUPPLY: VINITEX

BY CUSTOMER / THIRD (PINK)
BY VINITEX (BLACK)



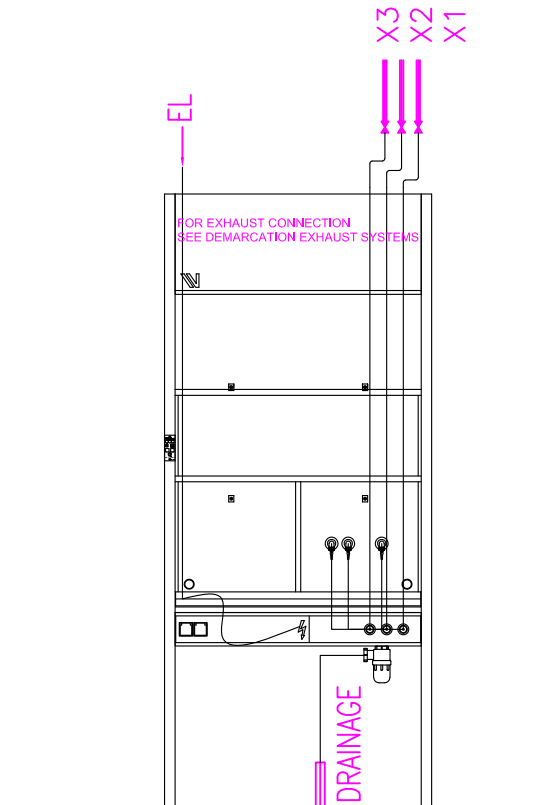
Z1A

CONNECTION TO MAIN SUPPLY: THIRD



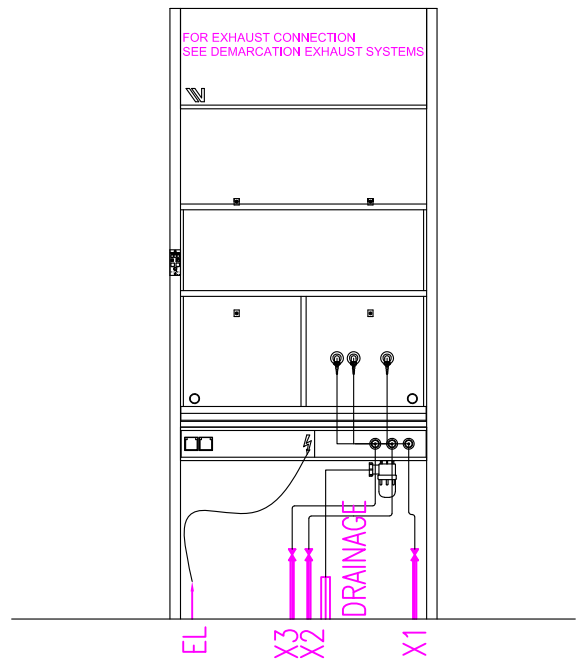
Z1B

CONNECTION TO MAIN SUPPLY: THIRD



Z2A

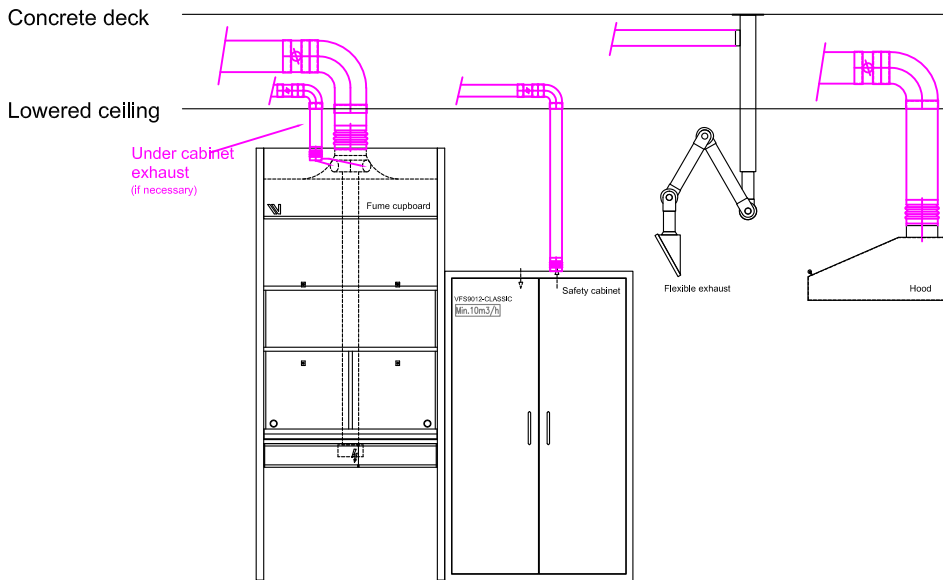
CONNECTION TO MAIN SUPPLY: VINITEX



Z2B

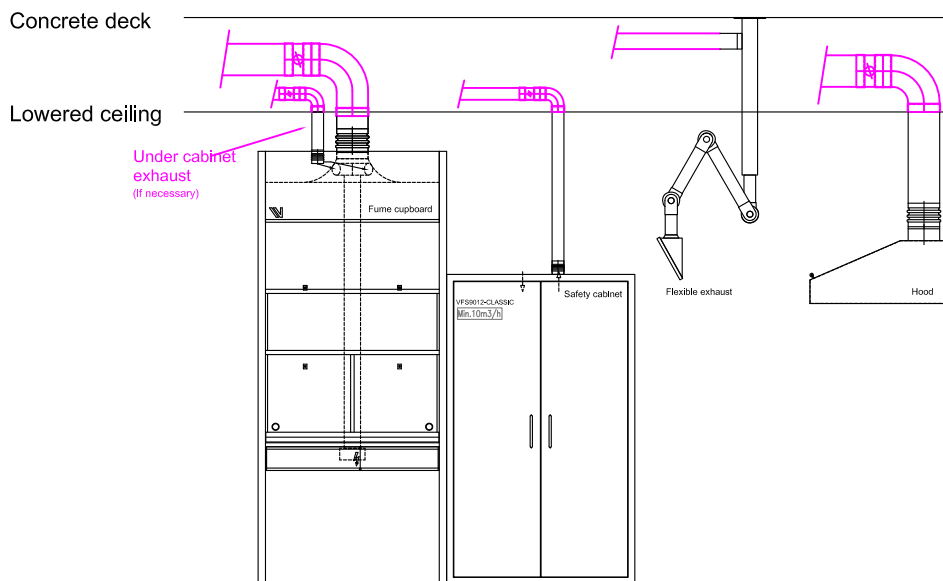
CONNECTION TO MAIN SUPPLY: VINITEX

BY CUSTOMER / THIRD (PINK)
BY VINITEX (BLACK)



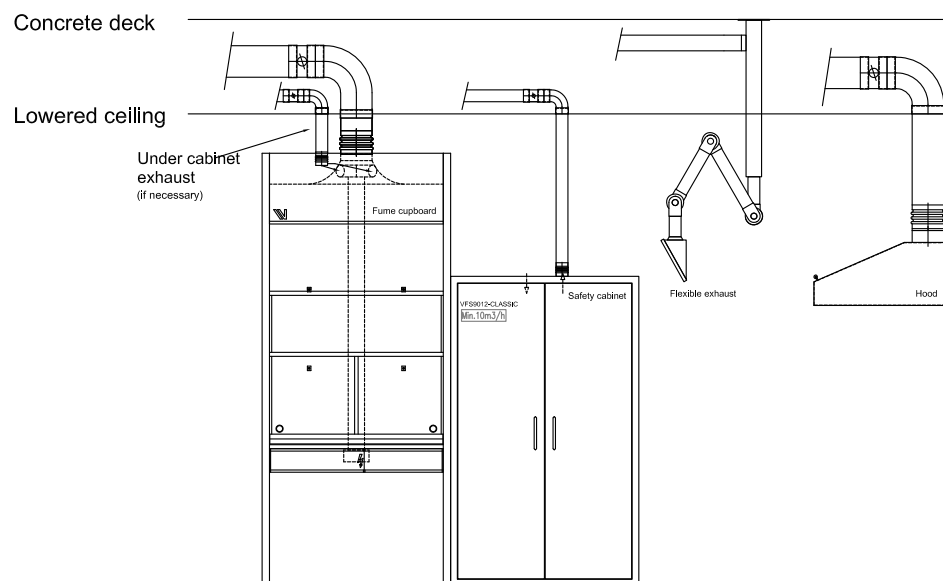
A1

CONNECTION TO MAIN SUPPLY: THIRD



A2

CONNECTION TO MAIN SUPPLY: VINITEX



A3

CONNECTION TO MAIN SUPPLY: VINITEX

SANITARY FACILITIES

Third party/client must provide the following facilities at the locations to be indicated by us or at all times in the waiting zone of each fume cupboard and laboratory table [tw](#) ;

- In the case of facilities coming from the floor, provide feed points approx. 50 mm from wall with a space of approx. 75 mm between the different pipes. For fume cupboards, the water outlet must be 165 mm (CtC) from the wall.
- In the case of facilities coming from the floor, provide feed points approx. 50 mm from wall with a space of approx. 75 mm between the different pipes. See also "Feed point instructions" (pages 8 through 13).

Water & gases:

Supply piping copper pipe diam. 15 mm (Cu, 15x1) ending approx. 300 mm. from the floor or ceiling with a stop valve with 1/2" female thread.

Demineralised water:

Supply piping PP pipe diam. 20 mm ending at approx. 300 mm. from the floor or ceiling with a stop valve with 1/2" female thread.

Acetylene:

Supply piping stainless steel pipe diam. 8 mm ending at approx. 300 mm. from the floor or ceiling with an 8 mm compression fitting.

Pure gases:

Supply piping cleaned copper or stainless steel pipe diam. 8 or 12 mm (Cu, 8x1) ending approx. 300 mm. from the floor or ceiling with a compression fitting

Drain:

Drainage piping GEBERIT PE 40, diam. 40 mm. ending at approx. 200 mm. (max. 300 mm) from the floor in smooth end.

Client/third parties must provide the piping with any non-return valves, gas regulators, insulation and shut-off/stop valves that may be required.

DEMARICATION

In the specification of your quote/contract, you will find the applicable **demarcation code** for your project. The meaning of this code can be found on page 5 of this document. You can also find out whether it is necessary to connect to one central point or per individual tap.

However, the above-mentioned facilities must always be provided by the client (third parties) before the furniture can be assembled. Who takes care of the connection of the taps and sinks to the building utilities after assembly of the furniture can be found in the quote/contract specification.

ELECTRICAL PROVISIONS

All electrical power supplies must be fused during construction. If this has to be provided in the laboratory furniture or fume cupboard, this has to be done in further consultation with Vinitex.

Electrical cabling per group with a length of 5 m from floor or ceiling.

230V/16A	3x2.5 mm ²
400V/16A	5x2.5 mm ²
400V/32A	5x6 mm ²

Power supply for fume cupboard:

Power supply for wall sockets	(see above)	←	Often combined on 1 group / supply
Lighting and airflow control (approx. 85W):	3x 2.5 mm ²		
Fan 400V*:	5x 2.5 mm ²		
Frequency inverter 230V**:	3x 2.5 mm ² (separate group)		

* Power supply 400V is only required if the fan is to be powered with 400V and you want to switch the fan on/off via the fume cupboard display.

** Power supply 230V (separate group) if the fan is controlled via a frequency inverter.

The fume cupboard is equipped with a potential-free contact. If you want to connect the circuit of the fan to it, an electrical cable from the fume cupboard to the fan must be provided.

Extraction on/off switch:	5 x 2.5 mm ²
Frequency inverter:	4x 2.5 mm ² (shielded cable)

Group distribution:

Standard calculation with 1 group 230V per fume cupboard/table. When using a frequency inverter, a separate group must be provided. We also recommend providing a separate group when using a boiler.

In addition, at the client's request, several groups can be provided for the capacity of the equipment to be used. If the client wishes to deviate from the standard, this must be indicated well in advance.

Data/Tel:

Only an empty box is provided for this in the furniture. Wiring and cover frame must always be provided by client/ third parties. Cable ducts with an empty box for data/Tel. come with a partition.

DEMARCATIION

In the specification of your quote/contract, you will find the applicable **demarcation code** for your project. The meaning of this code can be found on page 5 of this document. There, you can also find out whether you need to connect to 1 central point or per column.

However, the above-mentioned facilities must always be provided by the client (third parties) before the furniture can be assembled. Who takes care of the connection of cable ducts and columns to the building utilities after assembly of the furniture can be found in the quote/contract specification.

EXTRACTION SYSTEM(S) FACILITIES

Vinitex ends on top of the fume cupboard with a PP connection mouth with diam. 200, 250 or 280 mm, unless specifically agreed otherwise in the quote. As standard, the underbench cabinets are connected to the fume cupboard extraction (except Type AS-DC ..). If the underbench cabinet of the fume cupboard is connected to a separate extraction system, it ends above the fume cupboard with a connection diam. 75 mm (See page 12).

The information below indicates **minimum** values, these values may vary per project depending on experiments, substances, temperature and wishes of the client. **The required capacity for your project is mentioned on the project-specific detailed drawings.**

Fume cupboard with Constant flow (CAV)	Width	connection (Ø mm)	Min. Volume (m3/h)	Pressure loss (pa)	
				Sash 500 mm open	Sash closed
Standard fume cupboard (H=2750 mm)	1200	200	480	20,9	23,7
	1500	200	650	27,0	30,4
	1800	250	720	26,1	29,8
Lowered fume cupboard (H=2400 mm)	1200	200	480	19,5	23,5
	1500	200	650	28,0	31,5
	1800	250	720	22,5	26,5
Destruction fume cupboard (without scrubber)	1200	200	650	52,0	-
	1500	200	750	68,0	-
	1800	250	900	-	-
Drive-in fume cupboard	1200	200	700	15,0	-
	1500	200	920	64,0	-
	1800	250	1120	35,0	-
Fume cupboard with variable flow (VAV)	Connection (Ø mm)		Sash	Min. Volume (m3/h)	Pressure loss (pa)
Width 1200 mm	200		closed	250	25,0
			500 mm open	480	
Width 1500 mm	200		Closed	300	30,0
			500 mm open	650	
Width 1800 mm	250		Closed	300	30,0
			500 mm open	720	

The information below indicates minimum values, these values may vary per project.
Contact your advisor to determine the correct extraction capacity.

Exhaust	Width	Connection (Ø mm)	Min. Volume (m3/h)	Pressure loss (Pa)	
Flex. Point extraction					
		50	50-85	200-600	
		75	80-180	100-500	
		100	tot 400	tot 800	
Acid / base undercabinet					
	600	75	20	40	
Safety cabinet (FWF 90)					
	590	75	10	1	
	890	75	10	1	
	1100	75	10	1	
	1400	75	10	1	
Acid / base cabinet					
	600	75	30	30	
Pharmacy cupboard					
	300	75	5	30	
VFS 90.06					
	600	75	4	2	
VFS 90.12					
	1200	75	10	4	
Gas bottle cabinet (EN 14470-2)					
	Connection (Ø mm)	Min. Volume (m3/h)	Pressure loss (Pa)	Min. Volume (m3/h)	Pressure loss (Pa)
		Flammable gases (10-fold recirculation rate)		Toxic gases (120-fold recirculation rate)	
600 mm	75	4	1	48	20
900 mm	75	6	1	72	50
1200 mm	75	8	2	96	87
1400 mm	75	10	2	120	124

DEMARICATION

Air balance and pressure hierarchy in the room must always be provided and adjusted by third parties.

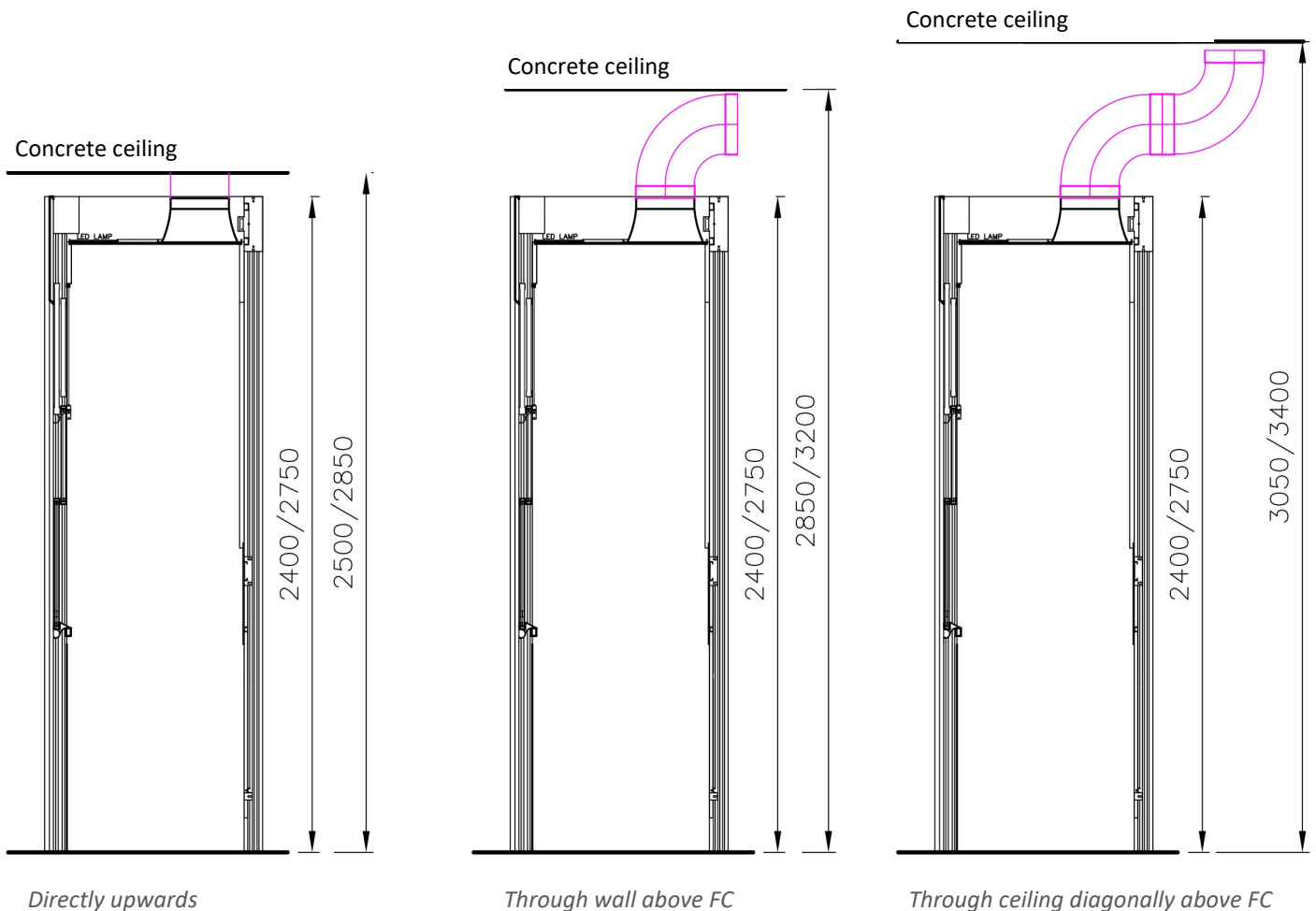
The above-mentioned cabinets and fume cupboards must always be connected to a well-functioning extraction system in order to guarantee safe operation. In the specification of your quote/contract, you will find the applicable **demarkation code** for your project. The meaning of this code can be found on page 5 of this document.

After the fume cupboards have been connected to a properly functioning, regulated fume extraction system, Vinitex always performs a commissioning (0 measurement) on the fume cupboard before it can be safely put into operation.

MINIMUM CEILING HEIGHT

A fume cupboard must always be connected to a properly functioning external extraction system in order to guarantee safe operation. To make this possible, a minimum ceiling height must be available, so that the connection to the extraction system can be made.

The minimum height required depends on the height of the fume cupboard in combination with the position of the extraction duct.



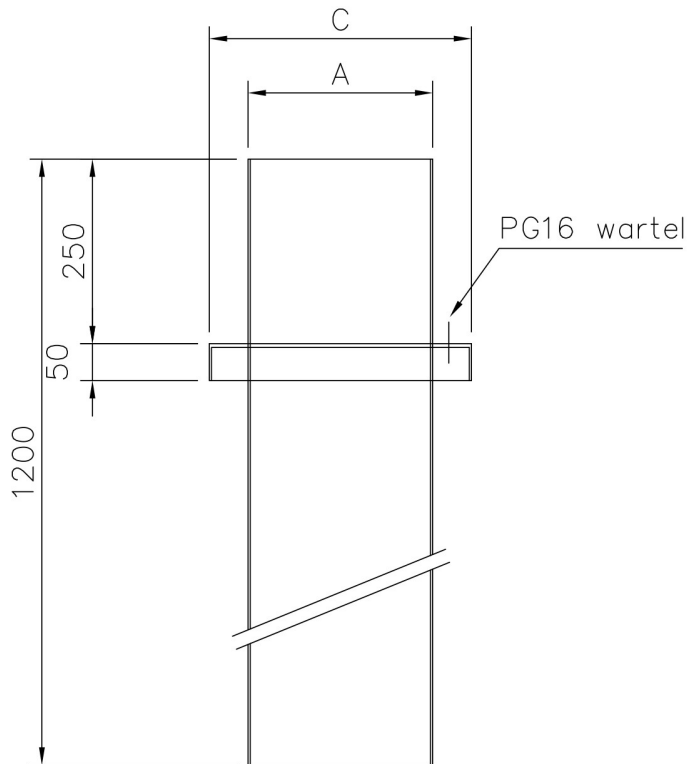
If a **drip catcher** is installed (**destruction fume cupboard**), an **additional** clearance of at least **440 mm** is required above the fume cupboard.

Also in case a **(VAV) control valve*** is placed directly above the fume cupboard, a minimum additional clearance of **400 mm** is required to install it.

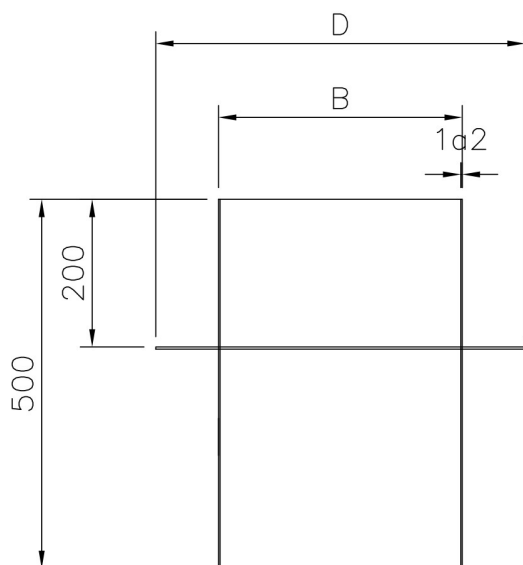
* additional size depends on the diameter, manufacture and type of the control valve

ROOF RECESS & SLATE

If Vinitex supplies and assembles the exhaust system for the fume cupboard(s) and/or cupboards, a structural **recess and slate must be provided by third parties**. Depending on the diameter of the extraction duct, you will find the additional information below.

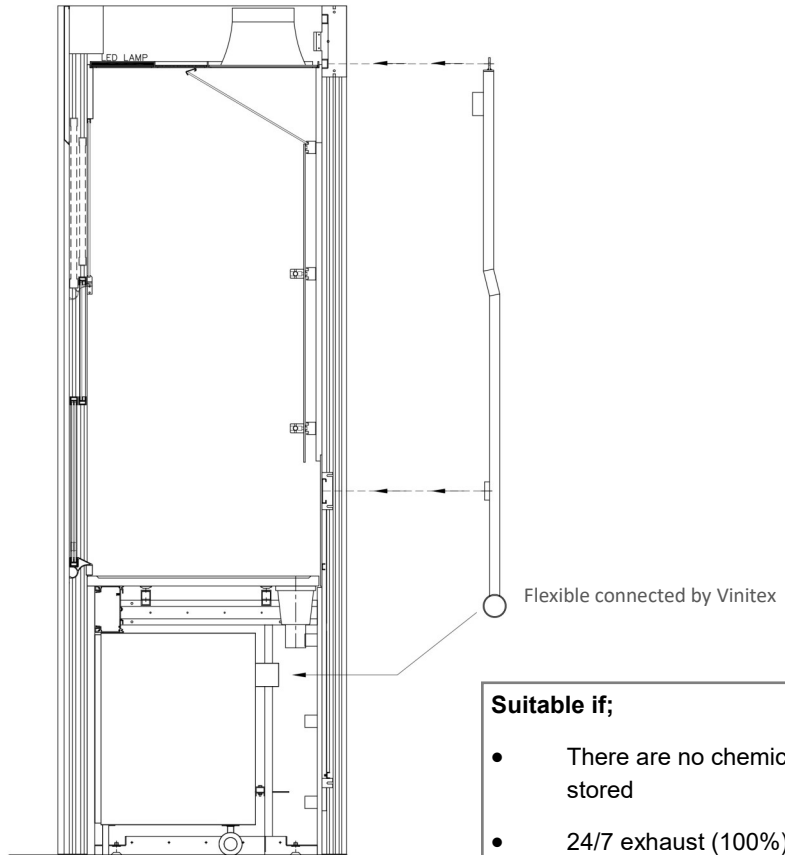
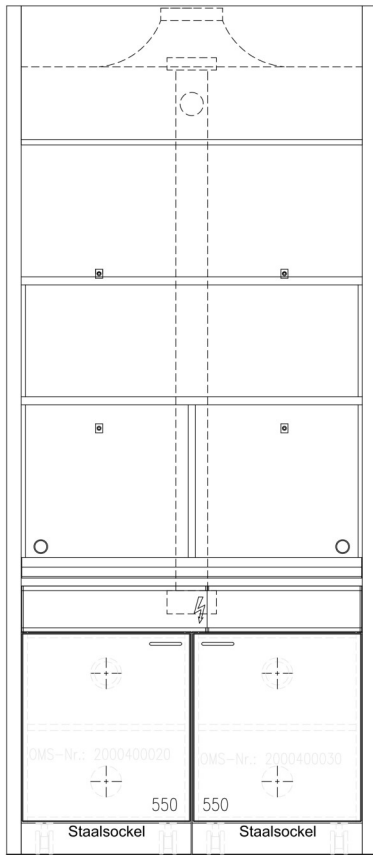


Roof Recess		
Code	Measure "A"	Measure "C"
DV 75	∅ 75	∅ 125
DV 90	∅ 90	∅ 160
DV 110	∅ 110	∅ 200
DV 125	∅ 125	∅ 250
DV 160	∅ 160	∅ 250
DV 200	∅ 200	∅ 280
DV 250	∅ 250	∅ 355
DV 280	∅ 280	∅ 355
DV 315	∅ 315	∅ 400
DV 355	∅ 355	∅ 450



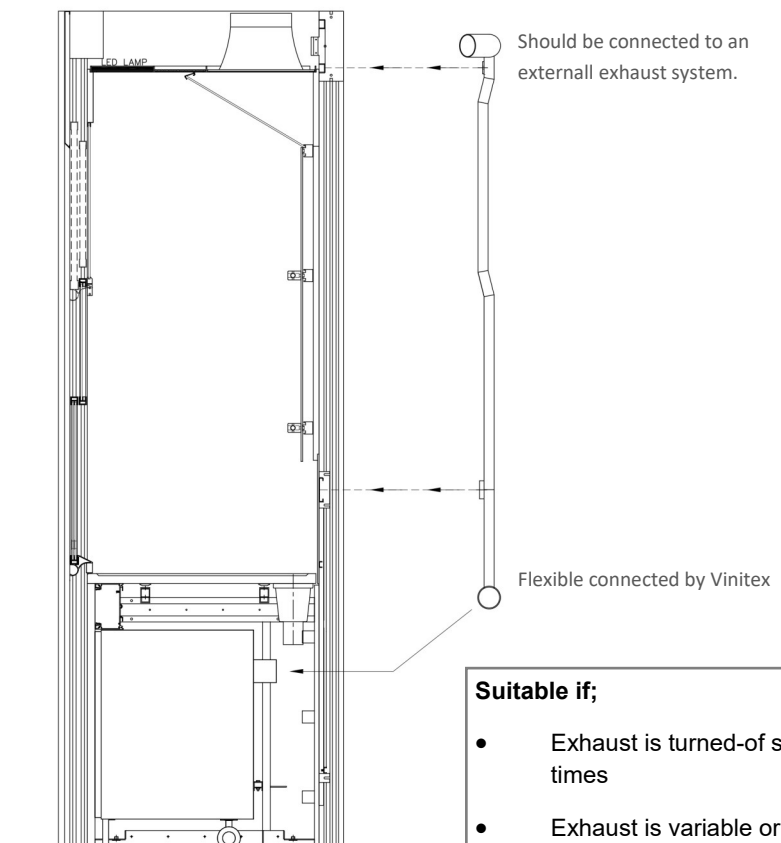
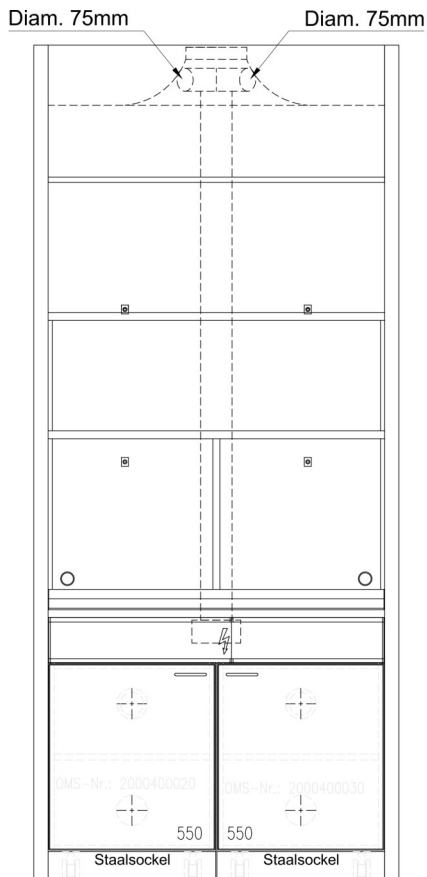
Slate Code	Delivered by third	
	Measure "B" Min.	Measure "B" Max.
PS 75	∅ 110	∅ 120
PS 90	∅ 125	∅ 155
PS 110	∅ 145	∅ 195
PS 125	∅ 160	∅ 245
PS 160	∅ 195	∅ 245
PS 200	∅ 235	∅ 272
PS 250	∅ 285	∅ 347
PS 280	∅ 315	∅ 347
PS 315	∅ 350	∅ 390
PS 355	∅ 390	∅ 440

Standard connection for underbench cabinet exhaust. (Directly connected to fume cupboard)

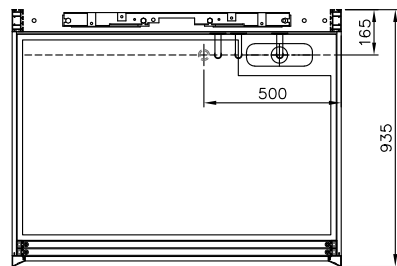
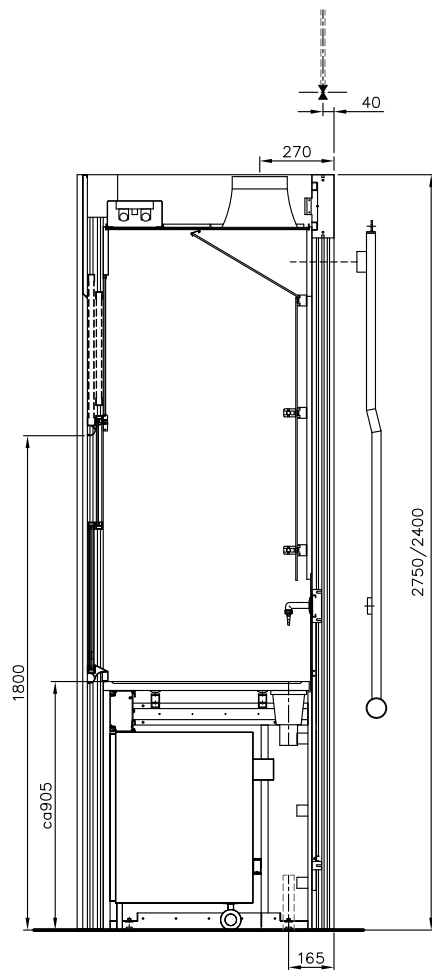
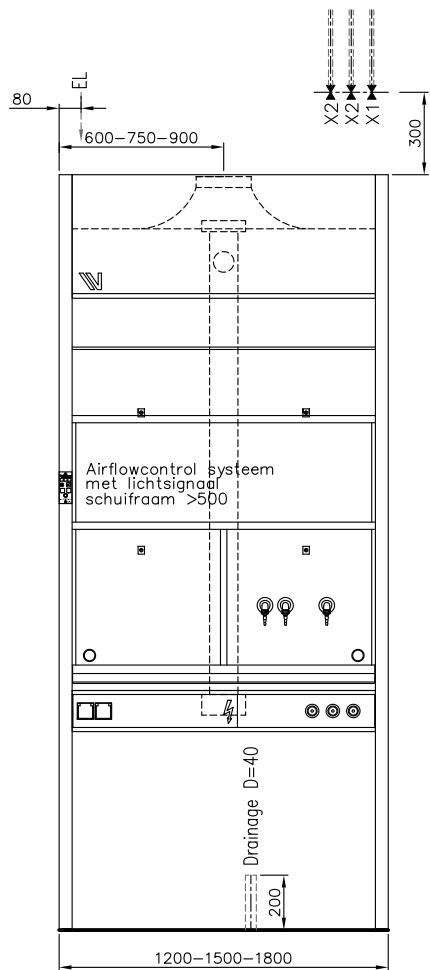


- Suitable if;**
- There are no chemicals stored
 - 24/7 exhaust (100%)

Separate connection for continuous underbench cabinet exhaust.



- Suitable if;**
- Exhaust is turned-off sometimes
 - Exhaust is variable or with day/night switch



Standard fume cupboard AS-12/15/18
with standard under cabinets
Supply from ceiling

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC $\varnothing 200$ (AS-12 + AS-15) or $\varnothing 250$ (AS-18)

Sanitary installation

-Drainage D=40 200mm from floor.
Sanitary supply from the ceiling should end 300mm above the fume cupboard with a stopvalve/ball valve.
Type of stopvalve depends on the medium (water/gas).


Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, $\varnothing 20$ mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation

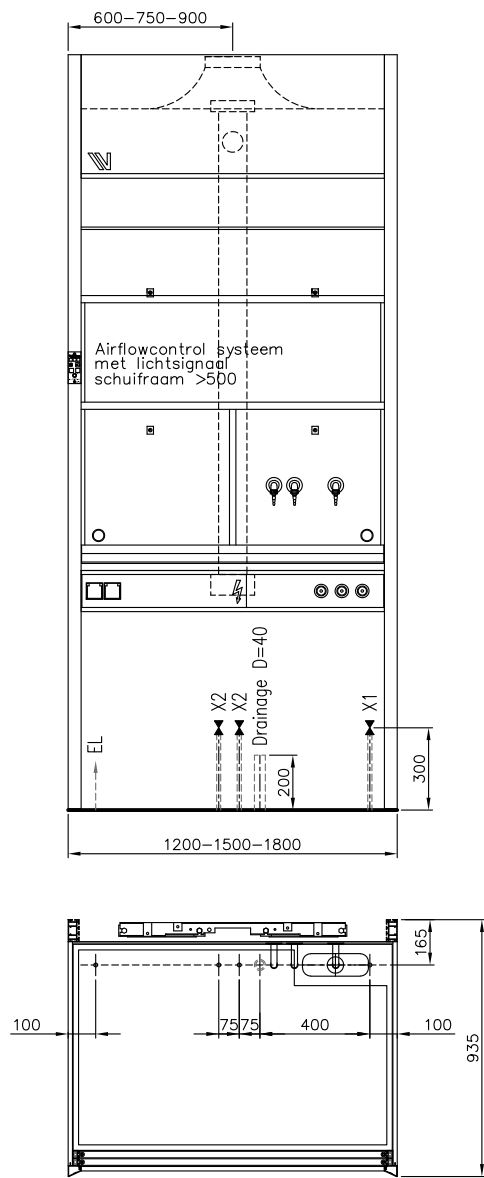
-cables provided by third end with 5 mtr excess length from indicated location.
Requirements of the cables;
-230V/16A 3 x 2.5mm
-power supply light 3 x 2.5mm
-400V/16A* 5 x 2.5mm
} Often combined.
(1 supply for outlets and light)
* only necessary if specific requested

For each fume cupboard 1 electrical group is taken into account.
In case this is different, please inform VINITEX beforehand.

X1 = water
X2 = several gasses
Water/gasses and E-outlets are optional

opdrachtgever/client			d.d.		 Vinitex LABORATORIUMINRICHTINGEN INDUSTRIEWEG 21-23 5492 NG ST OEDENRODE TEL. 0413-491900 TELEFAX 0413-491959 Email: tekenkamer@vinitex.nl http://www.vinitex.nl			
bestemming/destination			A					
benaming/title			B					
Connection scheme Supply from ceiling			C					
			D					
get./dr.			E					
schaal			F					
ordernr.			G					
JvdB 1:20			H					
			J					
			form.	A3	tek.nr./draw.nr.	V-01	bladnr.	

This information is based on a standard situation
each order can be different and can have specific requirements!
No rights can be derived from this drawing



Standard fume cupboard AS-12/15/18
with standard under cabinets
Supply from floor

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC $\varnothing 200$ (AS-12 + AS-15) or $\varnothing 250$ (AS-18)

Sanitary installation

-Drainage D=40 200mm from floor.
Sanitary supply from the floor should end 300mm above the floor with a stopvalve/ball valve.
Type of stopvalve depends on the medium (water/gas).

Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, $\varnothing 20$ mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation

-cables provided by third end with 5 mtr excess length from indicated location.
Requirements of the cables;
-230V/16A 3 x 2.5mm
-power supply light 3 x 2.5mm
-400V/16A* 5 x 2.5mm

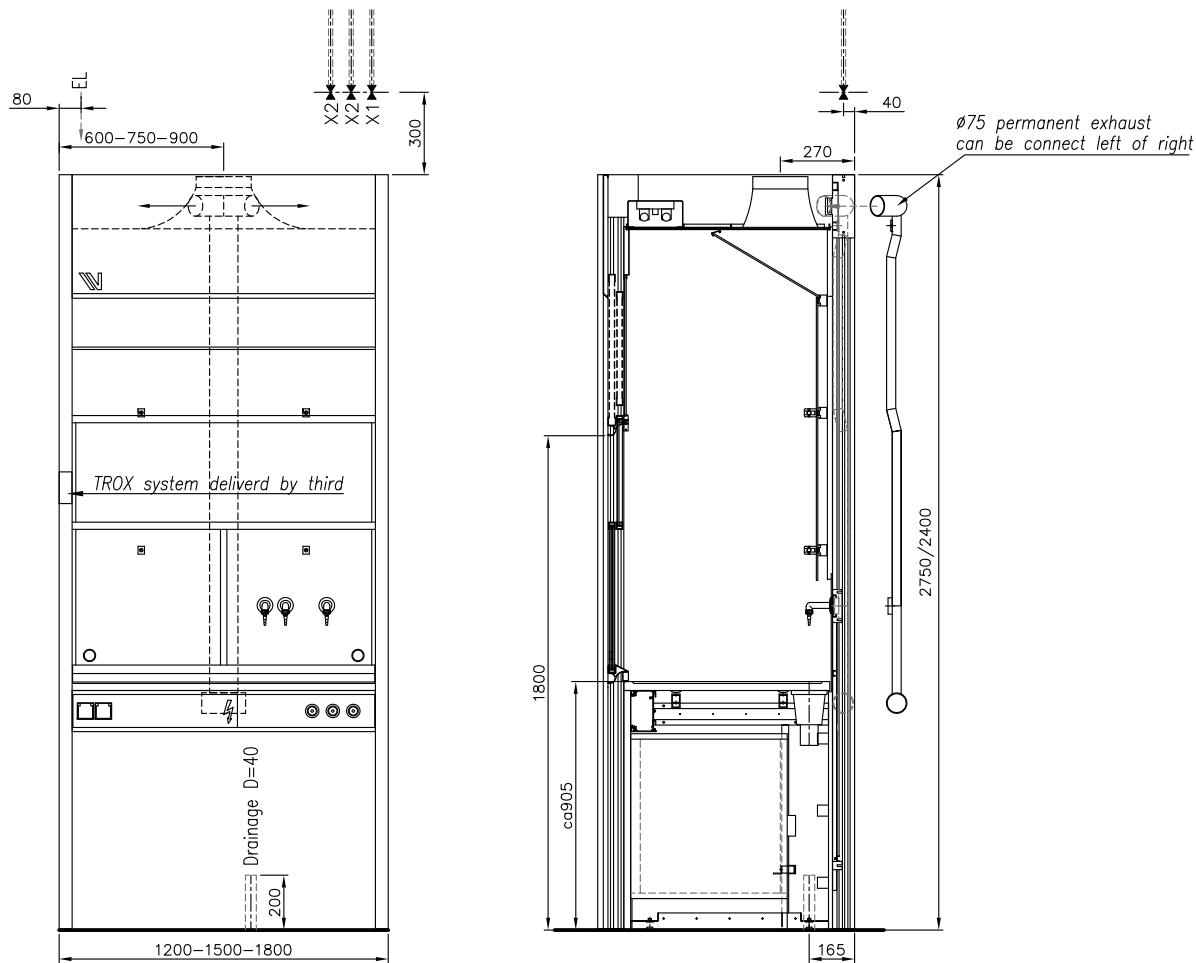
Often combined.
(1 supply for outlets and light)
* only necessary if specific requested

For each fume cupboard 1 electrical group is taken into account.
In case this is different, please inform VINITEX beforehand.

This information is based on a standard situation
each order can be different and can have specific requirements!
No rights can be derived from this drawing

X1 = water
X2 = several gasses
Water/gasses and E-outlets are optional

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bestemming/destination		A			
benaming/title		B			
Connection scheme		C			
Supply from floor		D			
get./dr.	schaal	ordernr.			E
JvdB	1:20				F
			G		
			H		
			J		
			form.	tek.nr./draw.nr.	bladnr.
			A3	V-02	



Standard fume cupboard AS-12/15/18
with acid/base cabinet or safety cabinet
Supply from ceiling

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC $\varnothing 200$ (AS-12 + AS-15) or $\varnothing 250$ (AS-18)

-An Acid/base or safety under cabinet always needs constant exhaust 24/7

The exhaust of the under cabinets ends with a horizontal exhaust connection $\varnothing 75$ L=70 just below the topside of the fume cupboard.

The under cabinet exhaust should be connected to a separate fan or with a connection to the main channel (in case the exhaust is 24/7).

Sanitary installation

-Drainage D=40 200mm from floor.

Sanitary supply from the ceiling should end 300mm

above the fume cupboard with a stopvalve/ball valve.
Type of stopvalve depends on the medium (water/gas).

Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, $\varnothing 20$ mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation

-cables provided by third end with 5 mtr excess length from indicated location.

Requirements of the cables;

-230V/16A 3 x 2.5mm

-power supply light 3 x 2.5mm

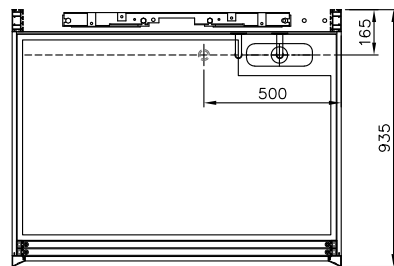
-400V/16A* 5 x 2.5mm

} Often combined.


(1 supply for outlets and light)

* only necessary if specific requested

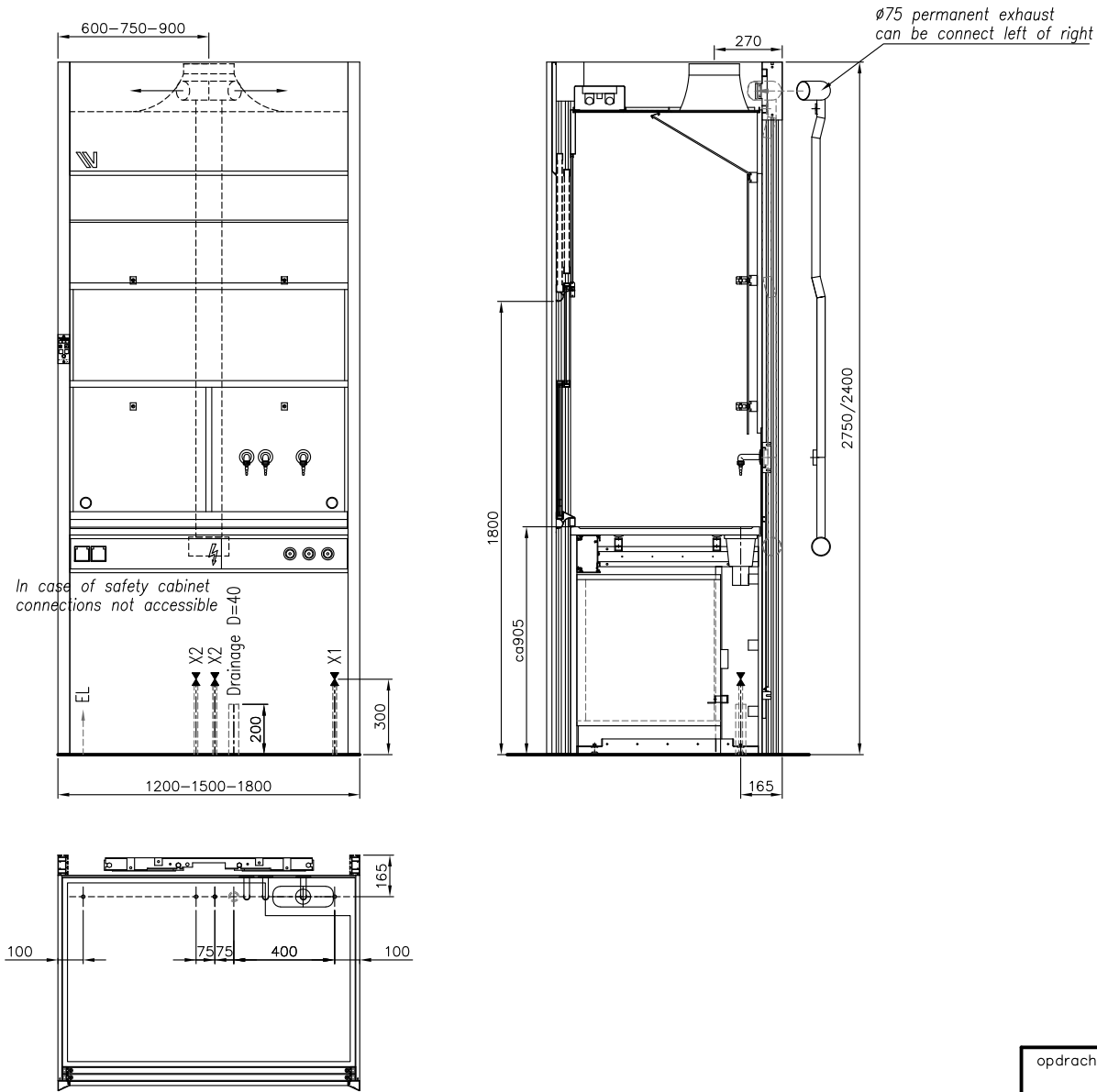
For each fume cupboard 1 electrical group is taken into account.
In case this is different, please inform VINITEX beforehand.



X1 = water
X2 = several gasses
Water/gasses and E-outlets are optional

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bestemming/destination		A		
benaming/title		B		
connection scheme		C		
supply from ceiling		D		
get./dr.	schaal	E		
JvdB	1:20	F		
	ordernr.	G		
		H		
		J		
		form.	bladnr.	
		A3	V-03	

This information is based on a standard situation
each order can be different and can have specific requirements!
No rights can be derived from this drawing



Standard fume cupboard AS-12/15/18
with acid/base cabinet or safety cabinet
Supply from floor

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC ø200 (AS-12 + AS-15) or ø250 (AS-18)

-An Acid/base or safety under cabinet always needs constant exhaust 24/7

The exhaust of the under cabinets ends with a horizontal exhaust connection ø75 L=70 just below the topside of the fume cupboard.

The under cabinet exhaust should be connected to a separate fan or with a connection to the main channel (in case the exhaust is 24/7).

Sanitary installation

-Drainage D=40 200mm from floor.

Sanitary supply from the floor should end 300mm

above the floor with a stopvalve/ball valve.

Type of stopvalve depends on the medium (water/gas).

Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, Ø20mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation

-cables provided by third end with 5 mtr excess length from indicated location.

Requirements of the cables;

-230V/16A 3 x 2.5mm

-power supply light 3 x 2.5mm

-400V/16A* 5 x 2.5mm

} Often combined.


(1 supply for outlets and light)

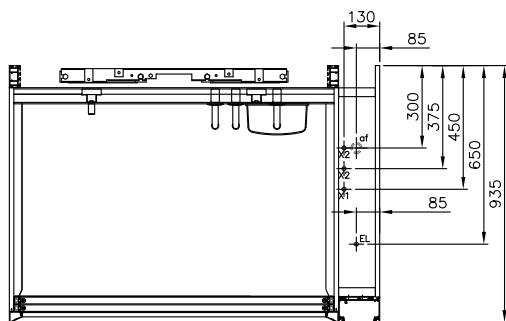
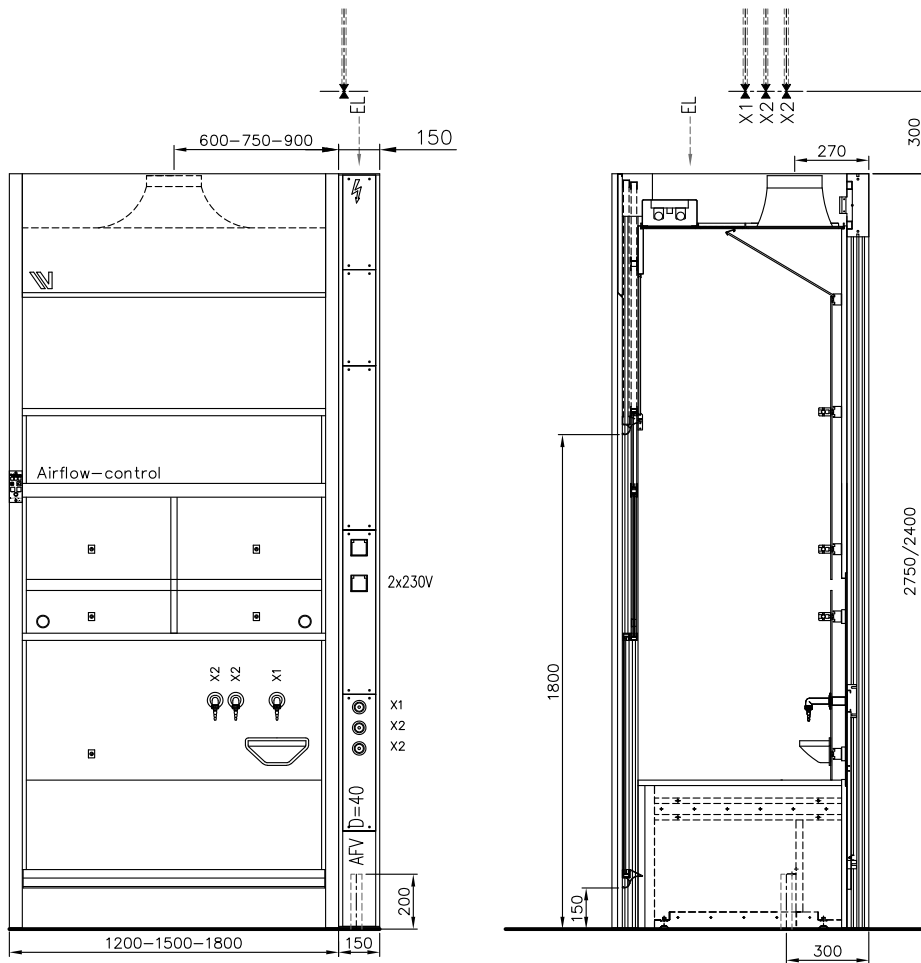
* only necessary if specific requested

For each fume cupboard 1 electrical group is taken into account.
In case this is different, please inform VINITEX beforehand.

This information is based on a standard situation
each order can be different and can have specific requirements!
No rights can be derived from this drawing

X1 = water
X2 = several gasses
Water/gasses and E-outlets are optional

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bestemming/destination			A		
benaming/title			B		
Connection scheme			C		
Spec. onderbench-from floor			D		
get./dr.	schaal	ordernr.	E		
JvdB	1:20		F		
			G		
			H		
			J		
			form.	tek.nr./draw.nr.	bladnr.
			A3	V-04	



Drive-in fume cupboard AS-D 12/15/18
 E-duct on the right.
 Supply from ceiling

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC $\varnothing 200$ (AS-12 + AS-15) or $\varnothing 250$ (AS-18)

Sanitary installation

-Drainage $D=40$ 200mm from floor.
 Sanitary supply from the ceiling should end 300mm above the fume cupboard with a stopvalve/ball valve.
 Type of stopvalve depends on the medium (water/gas).

Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, $\varnothing 20$ mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation

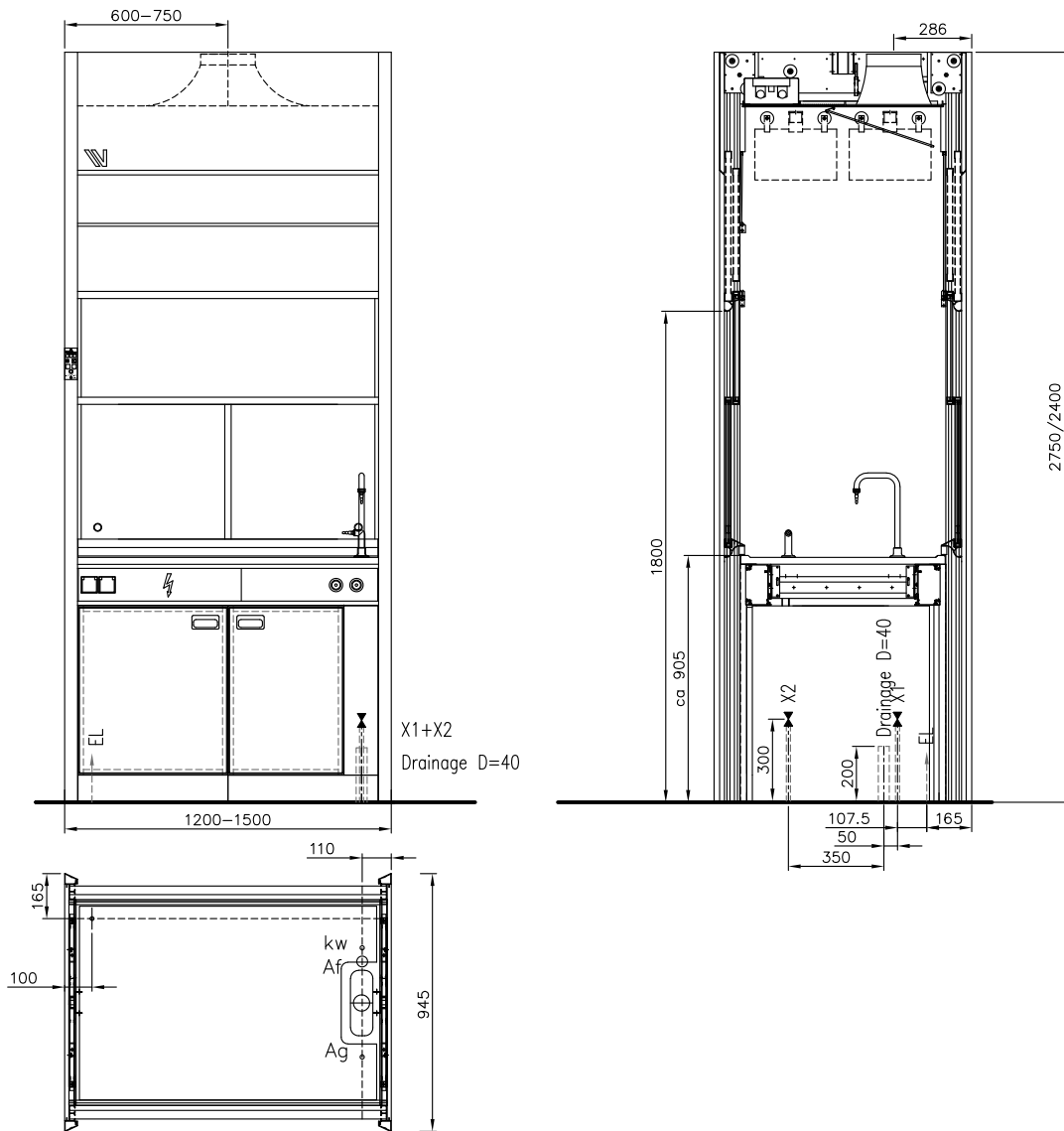
-cables provided by third end with 5 mtr excess length from indicated location.
 Requirements of the cables;
 -230V/16A 3 x 2.5mm
 -power supply light 3 x 2.5mm
 -400V/16A* 5 x 2.5mm
 } Often combined.
 (1 supply for outlets and light)
 * only necessary if specific requested

For each fume cupboard 1 electrical group is taken into account.
 In case this is different, please inform VINITEX beforehand.

X1 = water
 X2 = several gasses
 Water/gasses and E-outlets are optional

opdrachtgever/client		d.d.		Vinitex LABORATORIUMINRICHTINGEN
bestemming/destination		A		
benaming/title		B		
Connection scheme		C		
Type Drive-in		D		
get./dr.	schaal	E		
JvdB	1: 20	F		
ordernr.		G		
		H		
		J		
		INDUSTRIEWEG 21-23 5492 NG ST OEDENRODE TEL. 0413-491900 TELEFAX 0413-491959 Email: tekenkamer@vinitex.nl http://www.vinitex.nl		
		form.	bladnr.	
		A3	V-05	

This information is based on a standard situation
 each order can be different and can have specific requirements!
 No rights can be derived from this drawing



Instruction fume cupboard AS-DC 12/15/18
with standard underbench (without exhaust)
Supply from floor

Needed supply (by third)

Exhaust

-Third will end directly above the fume cupboard with an exhaust channel of hard PVC $\varnothing 200$ (AS-12 + AS-15) or $\varnothing 250$ (AS-18)

THE UNDERBENCHES ARE NOT CONNECTED TO AN EXHAUST!

Sanitary installation

-Drainage D=40 200mm from floor.
Sanitary supply from the floor should end 300mm above the floor with a stopvalve/ball valve.
Type of stopvalve depends on the medium (water/gas).

Medium	Vinitex-Lab	Valve provided by third
water	Cu, 15x1	1/2" female thread
Pure water	PP, $\varnothing 20$ mm	1/2" female thread
Burning Gas	Cu, 15x1	1/2" female thread
Compressed Air	Cu, 15x1	1/2" female thread
Pure gas 5.0	Cu ff, 8x1-12x1	8 of 12mm compression fitting
Acetylene	RVS, 8x1	8mm compression fitting
Drainage	Geberit D= 40	Smooth end

Electricity installation


-cables provided by third end with 5 mtr excess length from indicated location.
Requirements of the cables:
-230V/16A 3 x 2.5mm
-power supply light 3 x 2.5mm
-400V/16A* 5 x 2.5mm
Often combined.
(1 supply for outlets and light)
* only necessary if specific requested

For each fume cupboard 1 electrical group is taken into account.
In case this is different, please inform VINITEX beforehand.

Wall recess:
each side + topside 1 cm. extra

This information is based on a standard situation
each order can be different and can have specific requirements!
No rights can be derived from this drawing

X1 = water
X2 = several gasses
Water/gasses and E-outlets are optional

opdrachtgever/client		d.d.		 <p>INDUSTRIEWEG 21-23 5492 NG ST OEDENRODE TEL. 0413-491900 TELEFAX 0413-491959 Email: tekenkamer@vinitex.nl http://www.vinitex.nl</p>
bestemming/destination		A		
benaming/title		B		
Connection scheme instruction		C		
Supply from floor		D		
get./dr.	schaal	E		
JvdB	1:20	F		
ordernr.		G		
		H		
		J		
		form.	tek.nr./draw.nr.	bladnr.
		A3	V-06	