

COVER PAGE

PROJECT	INFOR	MATION			
Please com	plete the	fields below with information regarding you	ur project.		
Project Tit	tle	Dishwasher to reuse plastic labware			
Brief Desc	Brief Description Dishwasher to help re-use laboratory plastics in academic research laboratories in Pharmacology.				
Total Esti	mated P	roject Budget \$26,281.00	Amount Requested from	\$26,281.00	
Campus(e	s) Impac	ted Downtown Macdonald	Gault Nature Reserve Othe	er	
CONTAC	T INFOR	RMATION			
Project Le This person		a current McGill University student, adminis	strative staff, or academic staff.		
Name	Kyla Bo	ourque	Affiliation	Postgraduate	
Phone	514-39	98-8803	Faculty/Unit/Organization	Faculty of Medicine	
Email	kyla.bo	ourque@mail.mcgill.ca	Campus	Downtown	
Name Email Name Email Name Email Name Email	Jace Jo jace.jo Jennife jennife Andrev andrev Nadee chairse	you to be inclusive, collaborative (especially emembers, please complete a second cover ones-Tabah nes-tabah@mail.mcgill.ca er Chen er.chen6@mail.mcgill.ca w Bayne w.bayne@mail.mcgill.ca Buddhiwickrama ec.pharmacology@mcgill.ca	Affiliation Faculty/Unit/Organization Affiliation Faculty/Unit/Organization Affiliation Affiliation Faculty/Unit/Organization Affiliation Faculty/Unit/Organization Affiliation Faculty/Unit/Organization	Postgraduate Downtown Postgraduate Downtown Postgraduate Downtown Postgraduate Downtown Administrative Staff Downtown	
Name		ni (Cathy) Shang Ku	Affiliation	Administrative Staff	
Email SUBMISS		chadmin.pharmacology@mcgill.ca FORMATION	Faculty/Unit/Organization	Downtown	
University	, is susta	Eligibility Criteria, our team certifies the inability focused, is requesting seed funthe SPF Terms & Conditions and agrees	nding, and is action oriented.	Sill	
		ands that this application is not confider nt stakeholders during the review proce			
Our team	agrees to	o have their contact information include	ed in the complete and shared app	olication. X Yes No	



COVER PAGE

Please com	plete the fields below with information regarding your	project.	
Project Tit	Dishwasher for Labware		
Brief Desc	ription Dishwasher to help re-use laboratory pla	stics in academic research laborat	tories in Pharmacology.
Total Esti	mated Project Budget \$	Amount Requested from	SPF \$
Campus(e	s) Impacted Downtown Macdonald	Gault Nature Reserve Other	
CONTAC	T INFORMATION		
Project Le			
This person	must be a current McGill University student, administ	rative staff, or academic staff.	
Name	Kyla Bourque	Affiliation	Postgraduate
Phone	514-398-8803	Faculty/Unit/Organization	Faculty of Medicine
Email	kyla.bourque@mail.mcgill.ca	Campus	Downtown
The SPF end	eam Members courages you to be inclusive, collaborative (especially be to list more members, please complete a second cover p		
Name	Lucas Marques	Affiliation	Postgraduate
Email	lucas.marques@mail.mcgill.ca	Faculty/Unit/Organization	Downtown
Name	Haley Deamond	Affiliation	Postgraduate
Email	haley.deamond@mail.mcgill.ca	Faculty/Unit/Organization	Downtown
Name	Kimberly Martins-Cannavino	Affiliation	Postgraduate
Email	kimberly.martins-cannavino@mail.mcgill.c	Faculty/Unit/Organization	Downtown
Name	Sarah MacKinnon	Affiliation	Postgraduate
Email	sarah.mackinnon@mail.mcgill.ca	Faculty/Unit/Organization	Downtown
Name		Affiliation	Choose one.
Email		Faculty/Unit/Organization	
SUBMISS	SION INFORMATION		
In line witl	h the SPF Eligibility Criteria, our team certifies tha	t this project takes place at McG	
	, is sustainability focused, is requesting seed fund		∑ Yes ☐ No
Our team	has read the SPF Terms & Conditions and agrees	to respect them.	∑ Yes ☐ No
Our team	understands that this application is not confident	ial and consents to have its cont	ents
shared wit	th relevant stakeholders during the review proces	ss and, if approved, on the SPF w	rebsite. Xes No
Our team	agrees to have their contact information included	d in the complete and shared app	olication. X Yes No

PROJECT OVERVIEW

Instructions: Please answer the questions below as clearly and concisely as possible. You will be able to detail your project further in Part 2 of the Over \$5,000 application process, the Project Plan, as well as submit relevant appendices. Once you have completed this Project Overview, save it and submit it online. SPF Staff will respond with feedback on your application within 2 weeks and send you Part 2. Once all sections are complete, the combined application will be provided to the SPF Governance Council for their review and decision. As a reminder, all SPF applications are assessed using the SPF Eligibility & Evaluation Criteria:

ELIGIBILITY CRITERIA		EVALUATION CRITERIA		
AT MCGILL	SUSTAINABILITY FOCUSED	ANALYSIS	IMPACT	FEASIBILITY
SEED FUNDING	ACTION ORIENTED	COLLABORATION	SUPPORT	CAPACITY BUILDING

Before starting, you may find it helpful to consult the SPF Sustainability Brief and Vision 2020 Climate & Sustainability Action Plan.

CONTEXT

Criteria assessed in this section: SUSTAINABILITY FOCUSED, ANALYSIS

1. What specific sustainability-related need/issue have you identified at McGill and aim to address through your project? In your response, please describe clearly how the need/issue is related to sustainability.

Note: Please wait to detail your project idea in response to Question 5. Limit ~100 Words

Basic science research requires large amounts of daily plastic and glass ware. Of interest, plastic ware such as conical tubes or serological pipettes are often trashed after a single use as they cannot be easily washed by hand. This generates large quantities of plastic waste destined for landfills that can be avoided if a system would be set up to effectively and efficiently wash lab plastics. To this end, this application for a laboratory-grade dishwasher (to be installed on the 13th floor McIntyre) would reduce plastic waste on a departmental level, and would also reduce water usage, as full dishwasher loads use less water compared to handwashing items.

2. How do you know this is a need/issue? What research have you done (e.g. consultation, observation, survey)? Limit ~100 Words

Members of the Pharmacology Green Committee have identified disposing plastic ware after a single use as an issue found in most labs in our department. Upon further discussions, several graduate students, laboratory technicians, and principal investigators (PIs) in our department have agreed that having access to a dishwasher would help reuse laboratory plastics, reduce single-use laboratory waste, and facilitate more sustainable lab practices as a whole. We have also sent a survey to the Principal Investigators (PIs) in our department, and 6/6 who reponded have shown interest and have supported our application, believing that it will result in the re-use of lab plastics that are generally trashed.

3. What relevant information and/or best practices have you found that relate to this need/issue? In addition to information from external sources, detail any relevant related initiatives (past or current) that you are aware of at McGill. Limit ~100 Words



As a related initiative that can be used as an example, one lab in the department of Pharmacology and Therapeutics have been recycling and re-using serological pipettes and conical tubes for years. This particluar lab have a serological washing station which can be simply attached to a water supply and effectively washes pipettes. However, this type of equipment costs approximately \$2000.00 each and with 17/19 core faculty members located at the downtown campus, a dishwasher would be less expensive. We believe that a dishwasher on the 13th floor McIntyre which will be accessible to all downtown Pharmacology labs (with an average of 5-6 or more users per lab; 30-40 individuals in total) will help us reduce plastic waste.

4. What expertise or qualifications does your team have regarding this need/issue, if any? Limit ~100 Words

While there are no explicit expertise or qualifications needed, we have reached out to the technicians in our department who are responsible for maintaining other types of shared lab equipment (ie. centrifuges, freezers). They are happy to do the same for the dishwasher. As such, department will collectively be responsible for the upkeep and maintenance of the dishwasher, which should extend its lifetime significantly (see survey results). Additionnally, as part of SPF0240, the Department of Pharmacology is already set-up to recycle nitrile gloves and tip boxes. SPF0240 focuses on recycling laboratory items that are traditionally trashed while this grant aims to re-use and reduce items that are trashed.

PROJECT IDEA

Criteria assessed in this section: ALL ELIGIBILITY & EVALUATION CRITERIA



5. In context of the sustainability-related need/issue that you previously identified, what is your project idea? Please describe the idea thoroughly and concisely. In your response, share how your project is new or how it is complementary to existing initiatives. Limit ~400 Words

Considering that our current grant, (SPF0240), encourages the reduce/reuse/recycle philosophy when it comes to single use laboratory plastics (conical tubes, serological pipettes etc...) we are seeking the appropriate infrastructure to do so. Several of our initiatives have focused on educating research personnel on how to re-use laboratory plastics instead of trashing them in the garbage after a single use. However, reuse of laboratory plastics requires an efficient means of washing said plastics, and we believe that having a departmental, laboratory grade dishwasher for the effective washing of laboratory plastics would help achieve this goal. For this reason, we are requesting funds for the purchase of a laboratory grade dishwasher including relevant adaptors for glass bottles but most importantly for the washing of 5, 10, and 25 mL serological pipettes and 15 and 50 mL conical tubes. To reduce plastic waste, we are also looking into substituting our cell culture media formulation, adopting powder to be reconstituted in glass bottles as opposed to 500 mL single use plastic bottles. This substitution, in combination with a dishwasher, would allow our department to create a sustainable pipeline to re-use certain materials for cell culture that could be shared across labs. In our previous iteration, we requested funds to build serological pipette washing stations. We believe that having a dishwasher would reduce water consumption as we would be able to wash dishes, conical tubes and serological pipettes all at once in the same cycle thus the dishwasher would replace the need for them. We have used the Labconco dishwashing cost calculator and estimated that for a regular 5-day work week, a lab with 4-8 trainees/personnel wash on average 20-30 items per day and each item would be rinsed a minimum of three times with distilled water. Based on these numbers, the adoption of a dishwasher would save \$2000 per year when accounting labour costs and the cost of distilled water, and would save over 20 liters of water per cycle. It would also save valuable time that could be dedicated to lab experiments. The addition of a Departmental dishwasher will help transform our current and future project goals into a long-term waste diversion solution. With the appropriate infrastructure in place, defined here as a laboratory-grade dishwasher, we believe it will be easier to adopt sustainable practices such as re-using laboratory plastics that historically have been trashed. This type of investment requires a one-time purchase and will allow us to create a culture change in our department and faculty towards being more environmentally concious and integrating greener solutions into our current laboratory practices.

6.	Is your project related to the University's <u>Vision 2020 Sustainability Strategy</u> ?	X Yes	☐ No	☐ Not sure
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7. If you answered yes to Question 6, how does it relate? Please refer to the strategy category (e.g. Research, Education, Connectivity, Operations, and Governance & Administration) or related action from the 2017-2020 Climate & Sustainability Action Plan in your response. Limit ~100 Words

Within the Research strategy, this project has the potential to aid in institutionalizing McGill's sustainable labs practices through Sustainable Labs Working Group. We believe that this reduction in water and single-use plastics should become a McGill-wide standard across all laboratories, and our department hopes to lead the way. This project will optimize the environmental performance of laboratories within McGill, acting essentially as a Waste Reduction plan on a departmental level. Within Governance and Administration, this project will also encourage employees (lab technicians, Pl's, post-docs, and students) to adopt and promote more sustainable behaviours.

TRANSFORMING CAMPUS

Criteria assessed in this section: AT MCGILL, IMPACT

8. In the table below, describe your proposed project's 2-5 main impacts on the McGill campus community or goals to accomplish. Please check the stakeholders that will be impacted. Finally, please list at least one key <u>success</u> <u>indicator</u> for each impact (e.g. # people will be engaged in the project, % waste will be diverted from the landfill, # buildings will be LEED certified, etc.)



	McGill Stakeholders Impacted				
		Main Impacts/Goals	(check all that apply)	Key Success Indicator(s)	
IPED	1	Recycling and re-using serological pipettes (5 mL, 10 mL and 25 mL)	☐ Undergraduate☐ Academic Staff☐ Postgraduate☐ Admin. Staff☐ Alumni	# pipettes washed and reused	
DEOLIIBED	2	Recycling and re-using conical tubes (15 mL and 50 mL)	✓ Undergraduate✓ Academic Staff✓ Postgraduate✓ Admin. Staff✓ Alumni	# of 15 and 50 mL conical tubes washed and reused	
	3		Undergraduate Academic Staff Postgraduate Admin. Staff Alumni		
IVNOITED	4		Undergraduate Academic Staff Postgraduate Admin. Staff Alumni		
	5		Undergraduate Academic Staff Postgraduate Admin. Staff Alumni		
9.	Have you considered implementing your project at more than one McGill campus? (e.g. If your project is downtown, could it be implemented at Macdonald Campus as well?)				
	☐ Yes ☒ No				
LO.	0. If relevant, please describe your choice(s) of campus(es) and why this choice is best for your project. Limit ~150 Words				
(1	We chose the downtown campus as the majority of Pharmacology labs are located at the downtown campus (McIntyre/Bellini locations). A dishwasher on the 13 th floor would thus be accessible for use from all laboratories in our department.				



PART 2: PROJECT PLAN

Instructions: Please answer the questions below as clearly and concisely as possible. Once you have completed this Project Plan, save it and submit it online. SPF Staff will respond with feedback on your application within 2 weeks. Once all sections are complete, the combined application will be provided to the SPF Governance Council for their review and decision. As a reminder, all SPF applications are assessed using the <u>SPF Eliqibility & Evaluation Criteria</u>:

ELIGIBILITY CRITERIA		EVALUATION CRITERIA		
AT MCGILL	SUSTAINABILITY FOCUSED	ANALYSIS	IMPACT	FEASIBILITY
SEED FUNDING	ACTION ORIENTED	COLLABORATION	SUPPORT	CAPACITY BUILDING

IMPLEMENTATION

Criteria assessed in this section: ACTION ORIENTED, FEASIBILITY, IMPACT

1. List the key activities for your project and indicate the timing for these on the right. Please be specific and realistic when formulating your activities, ensuring that they are achievable within the indicated timeframe.

Key Project Activities	Start Date (MM-DD-YY)	End Date (MM-DD-YY)
Order dishwasher	02-25-2021	02-25-2021
Receive and installation of a laboratory-grade dishwasher	03-01-2021	04-01-2022
Count/track plastic ware that get washed	04-01-2021	04-01-2022

2. Please describe what will happen to your project after the SPF funding ends. Additionally, please share if anything will be produced or installed. (e.g. a workshop guide, equipment, a toolkit, a network, website, etc.) If so, please describe these items and indicate how they will be maintained. Limit ~200 Words

We have discussed this initiative with our Department, and they support our request for a dishwasher as they believe it will help reduce plastic waste generated in labs. The dishwasher comes with a one-year warranty on parts and our Department has also agreed to take charge of maintenance fees (through cost-sharing) and other operational costs that may be required long-term. We have also settled on a permanent location, under the countertop in the same room where our autoclave currently resides. This room will be renovated (early 2021) as we are expected to receive a new autoclave. Thus, we deem the timing optimal for the co-installing of a dishwasher.

3. Please list any potential risks associated with your project and the measures you will take to reduce their likelihood.

Main Risks	Preventative Measures
Maintenance of the dishwasher	Costs will be covered by departmental cost-sharing.
Cleanliness of dishwasher area	Cleaning by each lab (calendar week/month cleaning schedule)



STAKEHOLDER ENGAGEMENT

Criteria assessed in this section: AT MCGILL, COLLABORATION, SUPPORT, CAPACITY BUILDING

4. Please list all of the key stakeholders involved in your project, indicating their role and support. If the stakeholder has provided a support letter, please indicate so here and attach it as an appendix document.

Note: Projects involving modifying a space on campus, making a permanent installation, hiring a full-time staff, or adding/modifying a garden, etc., must seek permission from the appropriate stakeholder(s) (e.g. building director, Campus Planning and Development office, staff supervisor, etc.). SPF Staff can help you assess if any key stakeholders need to be added to your list.

Stakeholder's Name(s)	Title	Role in the Project	Support/Permission	Support Letter
Dr. Carmen Lampron	Director Life-	Requested support	Confirmed support	Attached
Dr. Gerhard Multhaup	Chair of	Requested support	Confirmed	Yes
Tsai-Chi (Cathy) Shang Kuan	Administrative C	Coordination of installation	Confirmed	Yes
Ghislain Beaulieu	Project Manager	Installment of diswasher	Confirmed	Yes
			Choose one.	Choose one.
			Choose one.	Choose one.
			Choose one.	Choose one.
			Choose one.	Choose one.
			Choose one.	Choose one.
			Choose one.	Choose one.

5. How will you communicate about your project and share its impacts with your stakeholders and the McGill community? Please describe your tactics (e.g. social media, workshops, tabling, newsletters, etc.) and any related timing (e.g. at the beginning, during, or after the project). Related activities can also be included in Question 1. Limit ~200 Words

The Pharmacology Green Committee has a section in the monthly newsletter prepared by the Graduate Association of Pharmacology and Therapeutics Students (GAPTS). This newsletter is sent to the entire department, graduate students, academic and support staff, and PIs. Using this platform, the Pharmacology Green Committee disseminates information including useful links/articles about sustainability in a laboratory environment and associated projects launched by the Green Committee. GAPTS also has a Facebook page and Instagram account that we could use as they are followed by the majority of graduate students in our department. Thus if successful, we will promote the use of the dishwasher using social media but also through emails and flyers.

6.	If applicable, are there any training, volunteer opportunities, jobs, or complementary applied student research
	integrated in your project? Please describe. Limit ~100 Words

Not applicable for	this	project.
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PROJECT BUDGET

Criteria assessed in this section: FEASIBILITY

Revenues

Indicate any funding you will receive or may receive to complete your project, including funds from McGill Departments and Units.

Funding Source(s)	Amount Requested	Request Status
Sustainability Projects Fund (SPF)	\$26,281.00	Requested
	\$0.00	Choose one.
	\$0.00	Choose one.
	\$0.00	Choose one.
REVENUES GRAND TOTAL (must match Expenses Grand Total))	\$26,281.00	

Expenses

Indicate your project expenses below. In the Funding Sources column, use the reference number from the first column of the Revenues section, above. You may list more than one source if applicable (e.g. 1,3).

Item Description	Unit Cost	# of Units	Total Cost	Expense paid by SPF?
Miele Lab-grade dishwasher	\$16,174.00	1	\$16,174.00	Yes, fully
Estimated Taxes	\$2,107.00	1	\$2,107.00	Yes, fully
Installation (plumbing, etc)	\$2000.00	1	\$2,000.00	Yes, fully
Installation surplus	\$1,000.00	1	\$1,000.00	Yes, fully
Unanticipated expenses	\$5,000.00	1	\$5,000.00	Yes, fully
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	\$0.00		\$ 0.00	Choose one.
	Expens	es Subtotal	\$26,281.00	

Salaries & Wages

If applicable, please indicate any paid positions needed for your project. Please note: if you complete the Salaries & Wages section, you must also complete the Staff Position Information Appendix.

Position Title	~# Hours per Week	~# Weeks	Hourly Wage	Subtotal	+ 20% Benefits	Total Cost	Funding Sources
N/A	0	0	\$0.00	\$ 0.00	1.2	\$ 0.00	
			\$0.00	\$ 0.00	1.2	\$ 0.00	
			\$0.00	\$ 0.00	1.2	\$ 0.00	
			\$0.00	\$ 0.00	1.2	\$ 0.00	
Salaries & Wages Subtotal						\$ 0.00	

EXPENSES GRAND TOTAL (must match Revenues Grand Total) |\$26,281.00



APPENDIX

Relevant Support Documents

List any appendix documents in order in the table, below.

Please keep the total number of pages as low as possible (recommended max 10). Please include any relevant support letters.

Doc#	Appendix Document Title	# of Pages
1	Letter of Support Department of Pharmacology	1
2	Email of Support Dr. Carmen Lampron	1
3	Letter of Support and Estimation of Installation Mr. Ghislain Beaulieu	1
4	Dishwasher Survey to PIs in Pharmacology and Therapeutics	4
5	VWR Quote	4
6	Installation Plan	11
7		
8		
9		
10	Staff Position Information Appendix, if applicable	



Re: McGill Pharmacology: STERIS Quote DCARON1050335 for sterilizer AMSCO 250LS



Carmen Lampron, Dr.

To: Kyla Bourque

Wednesday, October 21, 2020 at 7:58 AM

You replied to this message on 2020-10-21, 9:02 PM.

Show Reply

Hi Kyla,

I do support the initiative fully and I believe that this will help to significantly reduce the volume of plastic waste from the laboratories on the 13th floor.

Regards,

Carmen

Carmen Lampron Ph.D. Manager - Research Infrastructure Faculty of Medicine and Health Sciences, McGill University Building Services

email: carmen.lampron@mcgill.ca Cellular phone: 514-918-5947 Friday November 20th, 2020,

Object: Installation of a laboratory grade dishwasher at McIntyre Medical Science building

Dear Sustainability Projects Fund (SPF) Governance Council,

As part of the Project Management, Facilities Management and Ancillary Services team at McGill,

As part of the Project Management, Facilities Management and Ancillary Services team at McGill, I am overseeing the renovations in room 1332 situated on the 13th floor of McIntyre Medical Science building. The Pharmacology Green Committee has contacted me in order to understand the type of work and budget requirement needed for the installation of a laboratory grade dishwasher in 1332. If they are successful at securing funds, I will be available to help coordinate the installation of the needed plumbing and electrical connections in order to accommodate an under-counter dishwasher in 1332. I have read through the installation guidelines of the proposed dishwashers, Miele and Labconco, and in my professional opinion, I would estimate that the work would require a budget of 2000\$.

Sincerely,

Ghislain Beaulieu

Ghislain Beaulieu | Assistant project manager, Project Management, Facilities Management and Ancillary Services – Assistant chargé de projet, Gestion de projets, Gestion des installations et services auxiliaires | **McGill University** | 1010 Sherbrooke Street West, 10th floor | Montreal, Qc, Canada, H3A 2R7 | Tel: (514) 398-4400 ext. 00185 | Cell: (514) 606-6698 | Email – courriel: ghislain.beaulieu@mcgill.ca



Département de pharmacologie et thérapeutiques

Friday, November 20, 2020

Note from Shona: this letter was written while the project team was under the impression that their dishwasher project would be an amendment to their existing SP0240 project. Hence "SP0240 amendment"

To the members of Sustainability Projects Fund (SPF) Governance Council,

RE: Letter of Support - McGill-Wide Green Labs Initiative - SPF240

The Department of Pharmacology and Therapeutics is aware of the SPF0240 amendment that the Pharmacology Green Committee is drafting. I have read through their proposal and support their initiative, that is, a grant requesting funds for a laboratory-grade dishwasher with the purpose to reduce, reuse and recycle laboratory plastics.

The Research Administrator - Dept. Pharmacology & Therapeutics, will oversee the operation to support and assist the Green Committee to accomplish their goals. Additionally, the Departmental Administrative team will also assist to coordinate the installation of a dishwasher if the necessary funds are obtained.

Sincerely,

Gerhard Multhaup, Dr rer nat

Chair and Professor

The Department of Pharmacology and Therapeutics

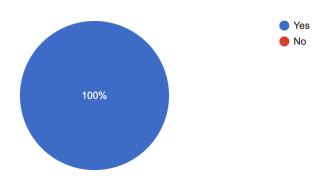
McGill University

Dishwasher Survey answered by PIs in the Department of Pharmacology and Therapeutics demonstrating support for the Pharmacology Green Committee's SPF application for the procurement of a departmental dishwasher

1) Name of PI 6 responses

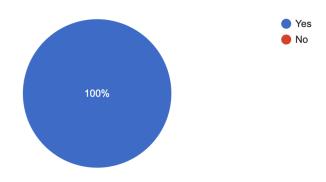
Dan Bernard
Paul Clarke
Jean-Francois Trempe
Bastien Castagner
Terry Hébert
McKeague

2) Do you support the Pharmacology Green Committee's desire to write a short grant application in order to obtain funds to purchase a 13th floor Departmental dishwasher as a means to reduce single-use plastic waste? Dishwasher would be equipped with adaptor modules to wash 5,10,25 mL serological pipets and conical tubes, in addition to regular glassware.



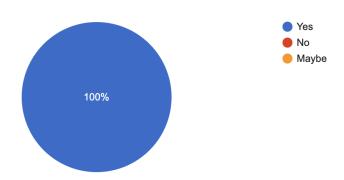
3) If the Pharmacology Green Committee is able to secure the necessary funds to purchase a "lab-grade" dishwasher to be installed on the 13th floor (McIntyre), do you believe your lab would use it?

6 responses

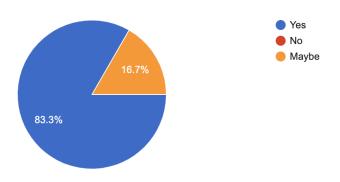


4) Do you have any objections or concerns if the dishwasher would be hypothetically installed under the counter in the autoclave room on the 13th floor? If yes, can you recommend another location?

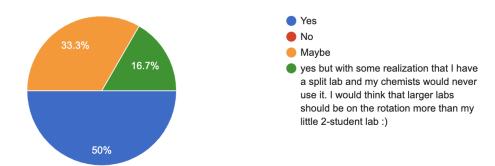
no
No concerns
No
I have an investment in the machine on the 1st floor- and finding space on 13 may be difficult.
not objection



6) If the Pharmacology Green Committee successfully acquires the funds needed to purchase a dishwasher, would you be willing to contribute to the yearly operational costs with other Pls? Please note that a liquid neutralising reagent is required sold as 5-litre canisters (\$103.00); 1-2 mL is required per cycle. Water softening salts are also needed, \$16.00 for 3x 2 kg bag which can last up to 350 cycles. The dishwasher would also come with a one year warranty covering labour and parts for manufacturing defects. If the dishwasher would need to be serviced when the one-year warranty expires, would you be willing to contribute to help cover these costs with other Pls? Preventative maintenance is approximately \$809



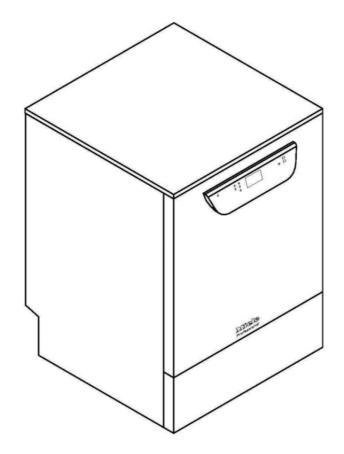
7) Do you believe your lab would be willing to take part in a rotation schedule in the long-term to look after the unit (e.g. cleanliness, availability of reagents and consumables, etc...)





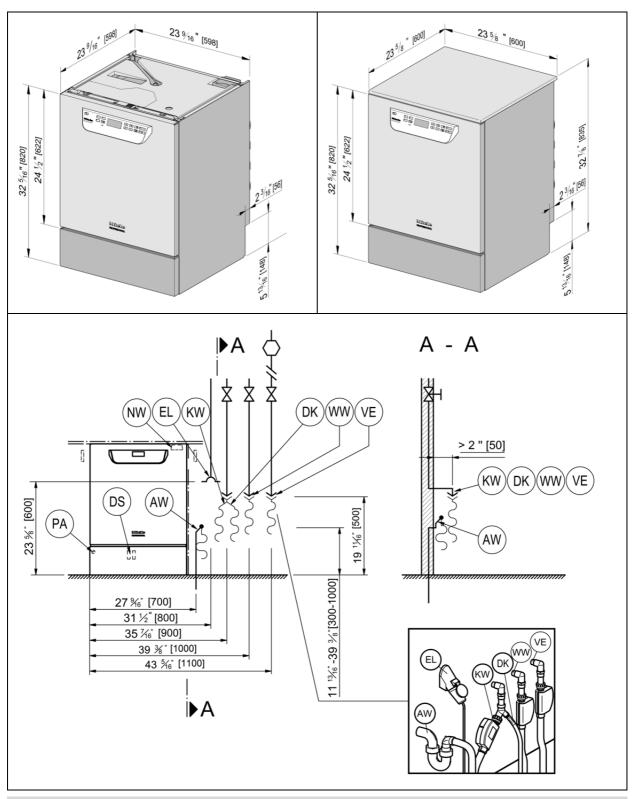
Installation Plan / Plan d'installation

PG 8581 - PG 8583



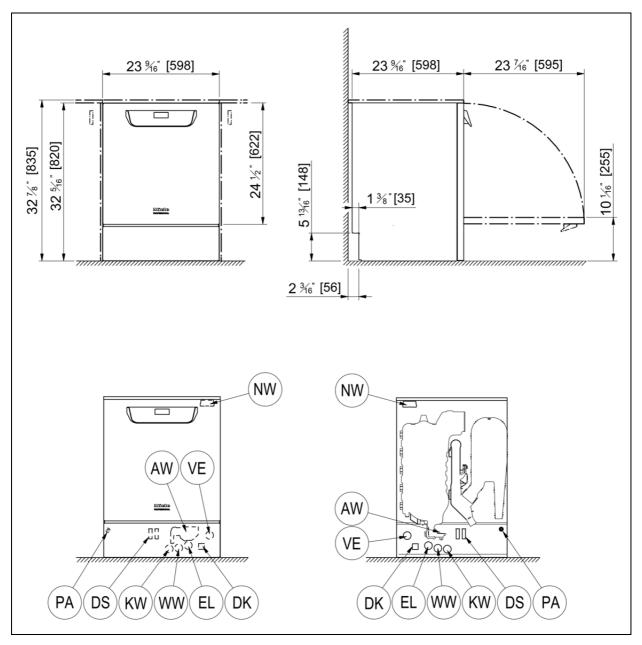
Mat. no. Version

10 344 140 00 en, fr - CA



AW	Drain water	NW	Network and printer connection
DK	Cold water connection, steam condenser	PA	Equipotential bonding
DS	External dispensing system connection	VE	Demineralized water connection
EL	Electrical connection	WW	Hot water connection
KW	Cold water connection		

AW	Vidange	NW	Raccordement réseau et à une imprimante (en option)
DK	Raccordement eau froide pour condensateur	PA	Liaison équipotentielle
DS	Raccordement Dosage externe (en option)	VE	Raccordement à l'eau déminéralisée
EL	Branchement électrique	WW	Raccordement à l'eau chaude
KW	Raccordement eau froide		



AW	Drain water	NW	Network and printer connection
DK	Cold water connection, steam condenser	PA	Equipotential bonding
DS	External dispensing system connection	VE	Demineralized water connection
EL	Electrical connection	WW	Hot water connection
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AW	Vidange	NW	Raccordement réseau et à une imprimante (en option)
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DS	Raccordement Dosage externe (en option)	VE	Raccordement à l'eau déminéralisée
EL	Branchement électrique	WW	Raccordement à l'eau chaude
KW	Raccordement eau froide		



To Place an Order / Pour Commander					
Phone / Tél. :	1-800-932-5000				
Fax / Téléc. :	1-800-668-6348				
Web:	https://ca.vwr.com				
Email / Courrie] : Canada_Orders@vwr.com				

When placing your order, please include your quotation number and account number to ensure you receive the correct price.

Fournir numéro de client VWR et référence de soumission lors de vos commandes.

THANK YOU FOR THE OPPORTUNITY TO EARN YOUR BUSINESS. MERCI DE FAIRE CONFIANCE A VWR.

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Currency / Devise	Sales Rep / Représentant Reference / Référence						
CAD	Michael Faludi		PG 8583 LABWASH	IER			

Prepared For/Soumission à l'attention de	Phone(Tél)/Fax(Téléc)/Mail(Courriel)
Kyla Bourque	
	kyla.bourque@mail.mcgill.ca
Ship To / Livraison: 86015026	Sold To / Facturation: 86009157
MCGILL UNIV OF EDI	MCGILL UNIV B2B
PO ONLY 000157	PO ONLY
MCINTYRE GARAGE	2 FLR ROOM 216
3655 PROM SIR WILLIAM OSLER	3465 DUROCHER ST
MONTREAL QC H3G 1Y6	MONTREAL QC H2X 0A8
CANADA	CANADA

Item / Article	VWR Catalog No. / No. cat. VWR	Description	Qty / Qté	UOM / Unité	Unit Net Price / Prix Unitaire	Ext Net Price/ Prix total
10	MISCFURN-SEL	62858304CDN PG 8583 Labwasher 3AC 208V	1	EA	9,150.00	9,150.00
	Availability 62858304CI to 2AC 208V	ON PG 8583 Labwasher 3AC 208V (pressurized, 2 built-in pumps,Eco	Dry, max 93 C	wash/rinse temp, o	convertible	
20	MISCFURN-SEL	59999107 water booster pump AC120V, 60Hz	1	EA	350.00	350.00
	Availability	: Product Ships Directly from Manufacturer				
	•	xternal DI water booster pump for unpressurized systems onsite (AC1	20V, 60Hz)			
30	•	1 3	20V, 60Hz)	EA	620.00	620.00
30	CA75806-574 Components Product Link Shipping Din	BASKET A150 LWR INJ SS/PLASTIC SS/BLACK and Accessories for Miele Lab Washers, Miele Professional thitps://ca.vwr.com/store/catalog/product.jsp?catalog_number=CA75806 mensions Weight / Size (L*W*H) per UOM: 14.000 LB / 21.300*20.700* onent Info: EA(litems)	1	EA	620.00	620.00



Components and Accessories for Miele Lab Washers, Miele Professional

Product Link : https://ca.vwr.com/store/catalog/product.jsp?catalog_number=CA75806-582 Shipping Dimensions Weight / Size (L*W*H) per UOM : 14.000 LB / 21.300*20.700*10.700 IN

 $UOM\ Component\ Info: EA (1 items)$

Availability: Product Ships Directly from Manufacturer



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Item / Article	VWR Catalog No. / No. cat. VWR	Description	Qty / Qté	UOM / Unité	Unit Net Price / Prix Unitaire	Ext Net Price/ Prix total
50	MISCFURN-SEL	11116950 A 301/5 Module 3x6	2	EA	635.00	1,270.00
	Availability : 11116950 A 3	Product Ships Directly from Manufacturer 01/5 Module 3x6 (w/ 9 x A842, 9 x A843)				
60	MISCFURN-SEL	3830510 AK 12 Half basket insert	1	EA	150.00	150.00
	Availability : 3830510 AK 1	Product Ships Directly from Manufacturer 12 Half basket insert with handles				
70	MISCFURN-SEL	10265670 ProCare Lab 10 MA	1	EA	78.25	78.25
	Availability : 10265670 Pro	Product Ships Directly from Manufacturer Care Lab 10 MA (Liquid detergent, mildly alkaline, 5L)				
80	MISCFURN-SEL	10266490 ProCare Lab 30 P	1	EA	103.00	103.00
	Availability : 10266490 Pro	Product Ships Directly from Manufacturer Care Lab 30 P (Liquid neutralising agent, phosphoric acid,5L)				
90	MISCFURN-SEL	9195780 ProCare Universal 61	1	EA	16.00	16.00
	Availability : 9195780 ProC	Product Ships Directly from Manufacturer Care Universal 61 (Water softener salt, high-purity grade,3x2kg bag)				
100	MISC-TECHSERV	97200031 - Connect-commissioning	1	EA	546.32	546.32
	Availability :	Ordered Upon Request				
110	MISC-TECHSERV	LTP - travel time	1	EA	147.37	147.37
	Availability : Travel time	Ordered Upon Request				



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CAD	Michael Faludi PG 8583 LABWAS			HER				

Item / Article	VWR Catalog No. / No. cat. VWR	Description	Qty / Qté	UOM / Unité	Unit Net Price / Prix Unitaire	Ext Net Price/ Prix total
120	MISC-TECHSERV	LP01 - pump installation	1	EA	241.05	241.05
	Availability : Installation -	Ordered Upon Request price per hour				

Item Total: 14,066.99

Estimated Tax / Estimation Taxe : 2,106.53 **Quote Total / Valeur Totale : 16,173.52**



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Currency / Devise	Sales Rep / Représentant		Reference / Référence					
CAD	Michael Faludi PG 8583 LABWASHER			HER				

Financing Available. Contact your VWR Representative for details about flexible financing programs.

PRICES SUBJECT TO CHANGE DUE TO CURRENCY FLUCTUATIONS

Transport fees as per standard terms and conditions unless indicated otherwise in this quotation. Taxes not included.

VWR International's Terms and Conditions of Sale apply. A copy is available on our website (https://ca.vwr.com/store/content/externalContentPage.jsp?path=/en_CA/about_vwr_terms_conditions_product_sales.jsp), or by request. Customer represents that it has read and agrees to VWR International's Terms and Conditions of Sale.

Identified stock status is based on product availability at time of the quote and may change at time of order. Delivery dates are based on standard lead times from suppliers.

Charges displayed on the quotation including freight, tax and other charges are estimates and may vary at time of order.

Any images used are not necessarily representative of any product offering from VWR International and do not constitute the basis for purchase decisions.

Customer is responsible for unloading and providing standard receiving facilities for large and/or heavy shipments. Special unloading or delivery can be arranged, provided VWR International is notified at the time of order placement. For such arrangements, please contact VWR International for a quotation. All quotes for installation assume that services related to the equipment are in place at the Customer site (including, but not limited to, gas, plumbing, electrical and ventilation) as per the equipment manufacturer's specifications prior to the installation of the equipment. Installation or other services are not included in this quotation, unless otherwise noted on the quotation.

Customer has a limited amount of time to document and report any shipping damage. Please inspect all shipments upon receipt and refer to Section 4 of VWR International's Terms and Conditions of Sale for additional information

Items prefixed with "MISC-" are subject to regulatory approval once VWR International receives acceptance from the customer. They are special order, and as such may not be returnable. Please allow 6-8 weeks delivery from the time of your first order or acceptance of this quotation.

VWR SE RESERVE LE DROIT DE REVISER LES PRIX DU A LA FLUCTUATION DU TAUX DE CHANGE.

Frais de transport selon les termes et conditions standard, sauf sur indication contraire plus bas. Taxes en sus.

LES TERMES ET CONDITIONS DE VENTES STANDARD DE VWR S'APPPLIQUENT SAUF SI INDIQUÉS. Les termes sont disponibles sur le site internet

https://ca.vwr.com/store/content/externalContentPage_jsp?path=/fr CA/about vwr terms conditions product sales_jsp ou sur demande. Les parties déclarent par les présentes qu'ils exigent que cette entente et tous les documents y afférents, soit pour le présent ou l'avenir, soient rédigés en langue anglaise seulement.

La disponibilité d'inventaire au moment de la soumission peut changer à tout moment avant la commande. Les délais de livraison sont basés sur les délais standards des fournisseurs de VWR.

Les frais affichés sur la soumission sont des estimations pour le transport, taxes, et autres frais, et peuvent varier au moment de la commande.

Les images représentées peuvent différer des articles de la soumission et ne constituent pas une base pour une décision d'achat.

Installation non incluse, sauf si indiquée dans la soumission. Le client est responsable de fournir les installations adéquates pour la réception de gros équipements. Si un camion avec plateforme est nécessaire, un surplus sera chargé. Pour livraison autre qu'au quai de réception, svp nous contacter pour le coût supplémentaire.

L'installation, qu'elle soit incluse ou non, n`inclut pas les amenées de gaz, de plomberie, de ventilation, l'alimentation électrique ou autres. Le client est responsable de fournir les installations conformes aux spécifications du fabriquant pour le bon fonctionnement des appareils.

Le client est responsable d'inspecter la livraison dès sa réception. Si un dommage externe est décelé et avant d'accepter la marchandise, il doit immédiatement aviser le transporteur et réclamer une inspection sur place de ce transporteur. Si la marchandise reçue comporte des dommages internes ou cachés, le client doit contacter VWR dans les 24 heures afin de procéder à une réclamation pour "dommages cachés".

Le client doit documenter et signaler tout dommage dû au transport dans les délais établis. Veuillez contrôler tous vos colis lors de leur réception et vous référer à la section 4 des Conditions Générales de Ventes de VWR International pour plus d'informations.

Les articles codés avec préfixe "MISC" sont en commande spéciale et ne peuvent être annulés ou remboursés. Veuillez allouer 6 à 8 semaines de livraison à partir de votre première commande . Les articles codés avec préfixe MISC sont sujets aux approbations réglementaires. VWR International ne pourra fournir un produit qui ne rencontre pas les critères des normes et lois canadiennes et sera dans l'obligation d'annuler la commande sans aucune pénalité pour VWR.