

How to Manually add Biotage® Sfär Columns to Isolera™

To add Biotage® Sfär columns to an Isolera, you must choose **Data Administration** from the **Main Menu**.

1. Press **Main Menu** in the right-hand panel.
2. Press **Data Administration**. All user accounts with system owner privilege are listed in the **Select User** dialog.
3. Select your user name. Please note that only users with system owner privilege can log into the **Data Administration** menu. If you have not been assigned a user name and/or system owner privilege, please contact your system supervisor.
4. Press **OK**. If your account is password-protected, the Password dialog opens.
 - a. Enter your password using the keypad. For the purpose of security, password characters appear as asterisks.
 - b. Press **OK**. If you have entered a valid password, the software is opened in the Data Administration mode.

Please Note: the first time you log into the Data Administration mode, log in using the user account “System Owner” and the password “1234”. Before you log out, it is strongly recommended that the password is changed.

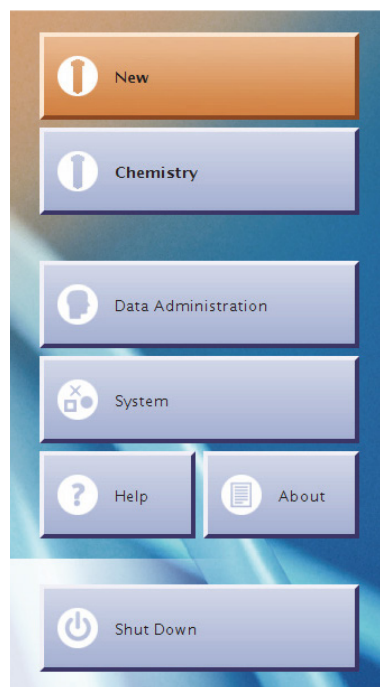


Figure 1. Main menu on Isolera

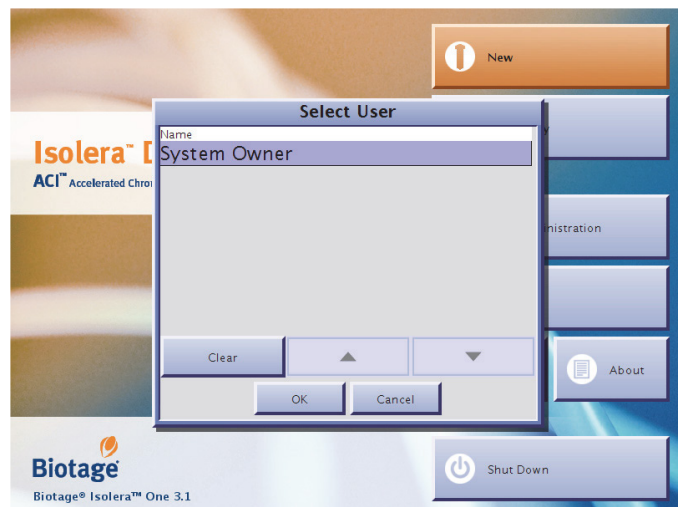


Figure 2. Select user dialog

Edit the Cartridge List

The software on Isolera comes with a preconfigured list of cartridges and their settings.

By selecting the **Cartridges** tab, in the software’s **Data Administration** mode you may add Biotage® Sfär columns to this list, and select the cartridge types that will appear in the cartridge selection list when setting up a method in the Chemistry mode. It is also possible to edit and delete user defined cartridge types.

Name	Volume (ml)	Flowrate (ml/min)	Max. Pressure (bar)	Air Flush (CV)	Enabled
SNAP Ultra 10g	17	36	7	6	X
SNAP Ultra 25g	45	75	7	5	X
SNAP Ultra 50g	90	100	7	3	X
SNAP Ultra 100g	164	100	7	2	X
SNAP Ultra 340g	590	200	5	2	X
SNAP Ultra 750g	1230	200	10	2	X
SNAP Ultra C18 12g	17	12	7	6	X
SNAP Ultra C18 30g	45	25	7	5	X
SNAP Ultra C18 60g	90	50	7	3	X
SNAP Ultra C18 120g	164	50	7	2	X
SNAP Ultra C18 400g	590	100	5	2	X
SNAP Ultra C18 950g	1210	200	5	2	X
SNAP Bio C4 10g	15	25	7	6	X
SNAP Bio C4 25g	41	40	7	5	X
SNAP Bio C4 50g	78	70	7	3	X

Figure 3. Cartridges tab

Add a Biotage® Sfär Column

1. Press **New...** or, if you want to base the new cartridge type on an existing one (eg. SNAP KP-Sil can be used for Sfär Silica and SNAP Ultra for Sfär HC D), select the cartridge and press **Duplicate...** at the **Cartridges** tab. The **New Cartridge** dialog opens.
2. Enter the cartridge settings. (A setting can be entered when the corresponding text box has been selected.)
The cartridge parameters are:
 - a. The **name** of the cartridge type.
 - b. The **column volume (CV)** in ml.
 - c. The **default equilibration volume** in CV. This parameter is only used for isocratic equilibrations. Gradient equilibrations are fixed to 5 CV.
 - d. The **equilibration mode**, isocratic or gradient. Gradient equilibration will only be used when the percentage of the strongest solvent is above 10% in the initial solvent mix. When the percentage is less or equal to 10%, isocratic equilibration is used. Note that gradient equilibration is not applicable when using an Isolera Prime system.

- e. The **default flow rate** in ml/min.
- f. The **maximum pressure** in bar or psi (for **Sfär**, maximum pressure on Isolera will be 10 bar regardless of size and media). If the maximum pressure is exceeded during a purification, the run will be paused and the system has to be purged until an acceptable pressure level is reached.
- g. The **air flush volume** in CV.
- h. The suitable **chromatography phase**, normal or reversed.
- i. The approximate **load capacity** when the delta CV is 2.0. Choose a capacity value in the middle of the range listed in the **UI391 Biotage® Sfär Columns User Guide** supplied with your columns (or utilize the table at the end of this document).

Note that only normal phase cartridges with a specified load capacity will be listed when setting up a method using the TLC to Linear Gradient editor or the TLC to Step Gradient editor.

3. To save the new cartridge type, press **OK**.
4. Ensure the new cartridge is enabled so it is visible in your drop down list. Also disable unused cartridges to remove them from the list.

Figure 4. New cartridge dialog

Figure 5. Edit cartridge dialog

To Enable/Disable Cartridges and Add Them to the List

1. If you want a cartridge type to appear when setting up a method in the Chemistry mode, select it at the **Cartridges** tab and press **Enable**.
2. If you do not want a cartridge type to appear when setting up a method in the Chemistry mode, select it at the **Cartridges** tab and press **Disable**.

To Delete an Unused Cartridge Type

3. Select the cartridge that you want to delete at the **Cartridges** tab.
4. Press **Delete**. The **Confirm Delete** dialog opens.
5. To confirm delete, press **Yes**.

Name	Volume (ml)	Flowrate (ml/min)	Max Pressure (bar)	Air Flush (CV)	Enabled
SNAP Ultra 10g	17	36	7	6	X
SNAP Ultra 25g	45	75	7	5	X
SNAP Ultra 50g	90	100	7	3	X
SNAP Ultra 100g	164	100	7	2	X
SNAP Ultra 340g	590	200	5	2	X
SNAP Ultra 750g	1230	200	10	2	X
SNAP Ultra C18 12g	17	12	7	6	X
SNAP Ultra C18 30g	45	25	7	5	X
SNAP Ultra C18 60g	90	50	7	3	X
SNAP Ultra C18 120g	164	50	7	2	X
SNAP Ultra C18 400g	590	100	5	2	X
SNAP Ultra C18 950g	1210	200	5	2	X
SNAP Bio C4 10g	15	25	7	6	X
SNAP Bio C4 25g	41	40	7	5	X
SNAP Bio C4 50g	78	70	7	3	X

Main Menu
 Help
 Cartridges
 Methods
 Racks
 Results
 Solvents

New... Edit... Duplicate... Enable Disable Delete

Figure 6. Enable/disable buttons

Equivalence Table for Biotage® Sfär Columns

For best use of Sfär columns it is recommended that the correct values for the column parameters are inputted as shown in the table below.

This can be done by duplicating the older Biotage column as shown below, and then modifying the values accordingly.

If you want to add:					Please Choose:				
Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity	Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity
Biotage® Sfär Silica 60 µm									
5 g	9	18	Normal	50–500 mg	Biotage ZIP® Sphere 5 g	10	5–25	Normal	75–1000 mg
10 g	15	40	Normal	100–1000 mg	Biotage ZIP® Sphere 10 g	19	10–50	Normal	150–3000 mg
25 g	42	80	Normal	200–2000 mg	Biotage ZIP® Sphere 30 g	58	20–100	Normal	450–4500 mg
50 g	80	120	Normal	0.5–5 g	Biotage ZIP® Sphere 45 g	75	30–150	Normal	600–8000 mg
100 g	150	120	Normal	1–10 g	Biotage ZIP® Sphere 80 g	129	30–150	Normal	1.2–12 g
200 g	310	200	Normal	2–20 g	Biotage ZIP® Sphere 120 g	213	50–200	Normal	1.8–20 g
350 g	530	200	Normal	3.5–35 g	Biotage® SNAP 340 g	470	65–100	Normal	3.4–34 g
Biotage® Sfär Silica D Duo 60 µm									
5 g	9	18	Normal	50–500 mg	Biotage ZIP® Sphere 5 g	10	5–25	Normal	75–1000 mg
10 g	15	40	Normal	100–1000 mg	Biotage ZIP® Sphere 10 g	19	10–50	Normal	150–3000 mg
25 g	42	80	Normal	200–2000 mg	Biotage ZIP® Sphere 30 g	58	20–100	Normal	450–4500 mg
50 g	80	120	Normal	0.5–5 g	Biotage ZIP® Sphere 45 g	75	30–150	Normal	600–8000 mg
100 g	150	120	Normal	1–10 g	Biotage ZIP® Sphere 80 g	129	30–150	Normal	1.2–12 g
200 g	310	200	Normal	2–20 g	Biotage ZIP® Sphere 120 g	213	50–200	Normal	1.8–20 g
350 g	530	200	Normal	3.5 – 35 g	Biotage® SNAP 340 g	470	65–100	Normal	3.4–34 g

If you want to add:

Please Choose:

Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity	Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity
Biotage® Sfär Silica HC High Capacity 20 µm									
5 g	9	18	Normal	100–1000 mg	Biotage ZIP® Sphere 5 g	10	5–25	Normal	75–1000 mg
10 g	15	40	Normal	200–2000 mg	Biotage® SNAP Ultra 10 g	17	10–50	Normal	200–2000 mg
25 g	42	80	Normal	0.5–5 g	Biotage® SNAP Ultra 25 g	45	20–100	Normal	0.5–5 g
50 g	80	120	Normal	1–10 g	Biotage® SNAP Ultra 50 g	85	30–150	Normal	1–10 g
100 g	150	120	Normal	2–20 g	Biotage® SNAP Ultra 100 g	164	30–150	Normal	2–20 g
200 g	310	200	Normal	3.5 – 35 g	Biotage® SNAP Ultra 100 g	164	30–150	Normal	2–20 g
350 g	530	200	Normal	7.0–70 g	Biotage® SNAP Ultra 340 g	582	65–325	Normal	6.8–68 g
Biotage® Sfär Silica HC D High Capacity Duo 20 µm									
5 g	9	18	Normal	100–1000 mg	Biotage ZIP® Sphere 5 g	10	5–25	Normal	75–1000 mg
10 g	15	40	Normal	200–2000 mg	Biotage® SNAP Ultra 10 g	17	10–50	Normal	200–2000 mg
25 g	42	80	Normal	0.5–5 g	Biotage® SNAP Ultra 25 g	45	20–100	Normal	0.5–5 g
50 g	80	120	Normal	1–10 g	Biotage® SNAP Ultra 50 g	85	30–150	Normal	1–10 g
100 g	150	120	Normal	2–20 g	Biotage® SNAP Ultra 100 g	164	30–150	Normal	2–20 g
200 g	310	200	Normal	3.5 – 35 g	Biotage® SNAP Ultra 100 g	164	30–150	Normal	2–20 g
350 g	530	200	Normal	7.0–70 g	Biotage® SNAP Ultra 340 g	582	65–325	Normal	6.8–68 g

If you want to add:

Please Choose:

Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity	Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity
Biotage® Sfär C18 D Duo 100 Å 30 µm					Biotage® SNAP Ultra C18				
6 g	9	6	Reverse	50–500 mg	12 g	17	12	Reverse	50–500 mg
12 g	17	12	Reverse	100–1000 mg	12 g	17	12	Reverse	100–1000 mg
30 g	45	25	Reverse	200–2000 mg	30 g	45	25	Reverse	200–2000 mg
60 g	85	50	Reverse	0.5–5 g	60 g	90	50	Reverse	0.5–5 g
120 g	164	50	Reverse	1–10 g	120 g	164	50	Reverse	1–10 g
240 g	328	75	Reverse	2–20 g	120 g	164	50	Reverse	2–20 g
400 g	582	100	Reverse	3.5–35 g	400 g	590	100	Reverse	3.5–35 g
Biotage® Sfär Bio C18 D Duo 300 Å 20 µm					Biotage® SNAP Bio C18				
10 g	15	25	Reverse		10 g	15	25	Reverse	
25 g	41	40	Reverse		25 g	41	40	Reverse	
50 g	78	70	Reverse		50 g	78	70	Reverse	
100 g	151	70	Reverse		100 g	148	70	Reverse	

If you want to add:

Please Choose:

Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity	Name	CV	Flow Rate (mL/min.)	Phase	Approx. Loading Capacity
Biotage® Sfär Bio C4 D Duo 300 Å 20 µm					Biotage® SNAP Bio C4				
10 g	15	25	Reverse		10 g	15	25	Reverse	
25 g	41	40	Reverse		25 g	41	40	Reverse	
50 g	78	70	Reverse		50 g	78	70	Reverse	
100 g	151	70	Reverse		100 g	148	70	Reverse	
Biotage® Sfär Amino D Duo 50 µm					Biotage® SNAP KP-NH				
5 g	9	6	Normal		11 g	9	6	Normal	
11 g	15	12	Normal		11 g	15	12	Normal	
28 g	33	25	Normal		28 g	33	25	Normal	
55 g	66	50	Normal		55 g	66	50	Normal	
110 g	132	50	Normal		110 g	132	50	Normal	
220 g	264	100	Normal		110 g	264	100	Normal	
380 g	510	100	Normal		375 g	510	100	Normal	

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