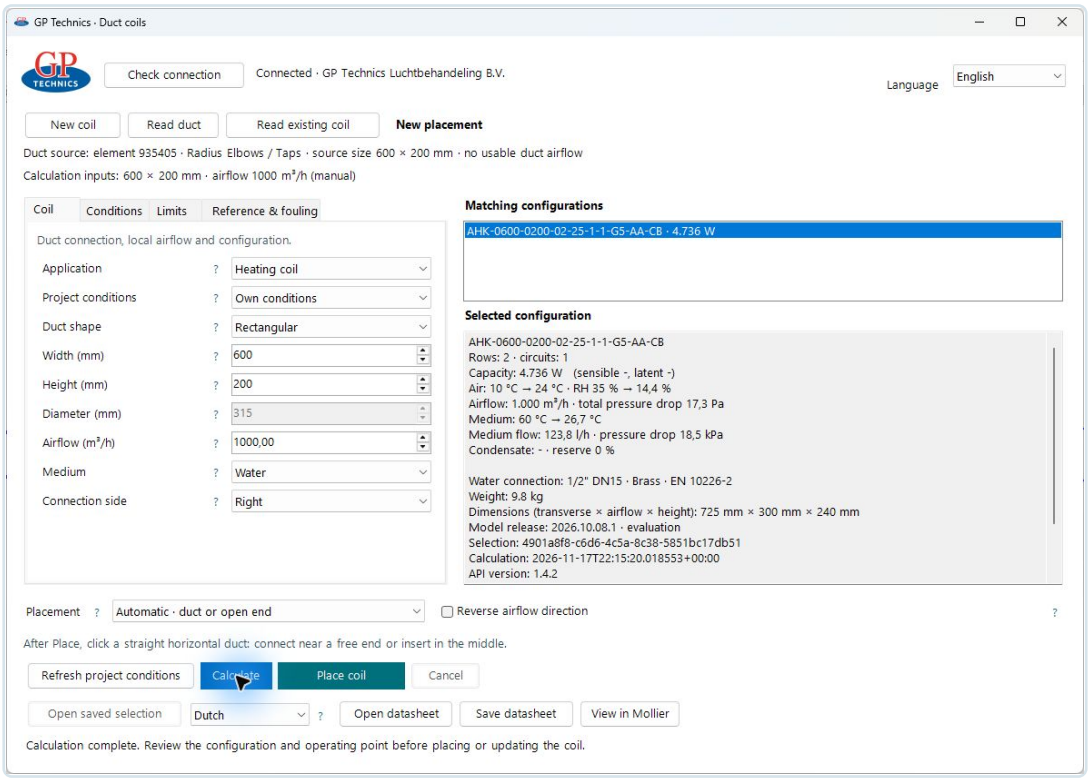
From selection to connected model

A complete workflow for installation, calculation, duct placement and recalculation.



The version 1.8.0 selector. Choose the input tab, calculate and review the selected product on the right.

In this guide

2 Install and choose a language
3 Work through the input tabs
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Plugin and Revit languages

Choose Dutch or English at the top right of the selector. This changes the GP Technics interface. Revit menus and datasheets have separate language settings.

Install and choose a language

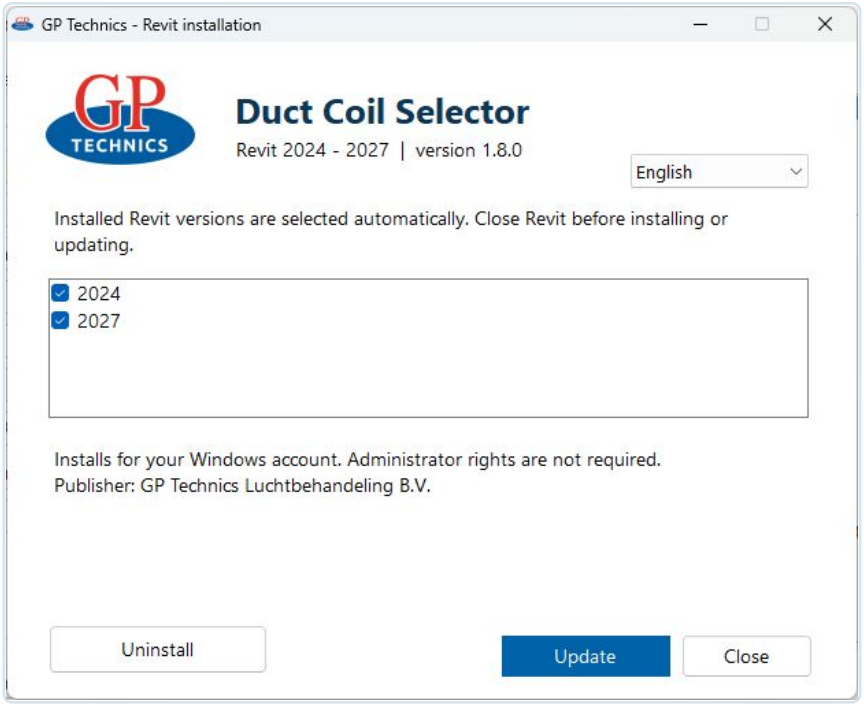
One installer provides the matching plugin for the Revit versions installed on your computer.

1 Close Revit and open the installer

Close all running Revit versions. Open **GP-Technics-Revit-1.8.0-Installeren.exe**. Choose Nederlands or English in the language selector. Administrator rights are not required.

2 Install or update

A single detected Revit version is selected automatically. If several versions are installed, select the versions you need. Click **Install** or **Update**. The install button disappears when the selected installation is current.



The installer with language, Revit selection and installation status.

3 Open the selector in a project

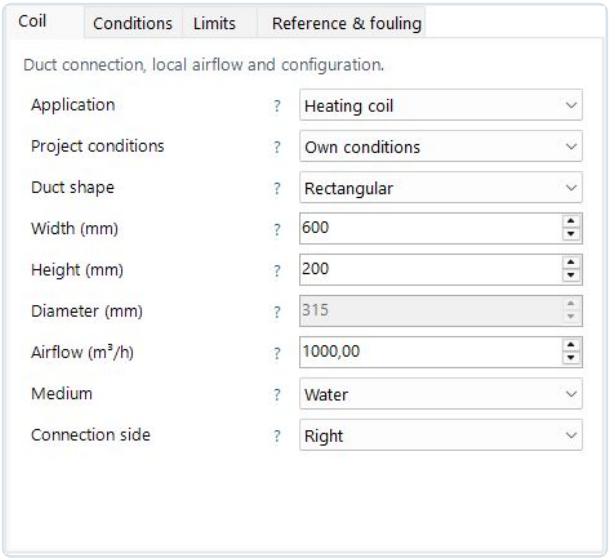
Open Revit and a project. Choose **Add-Ins > GP Technics > Select coil**. Set the interface language in the selector if needed. The connection is established automatically; use **Check connection** if necessary.

First start

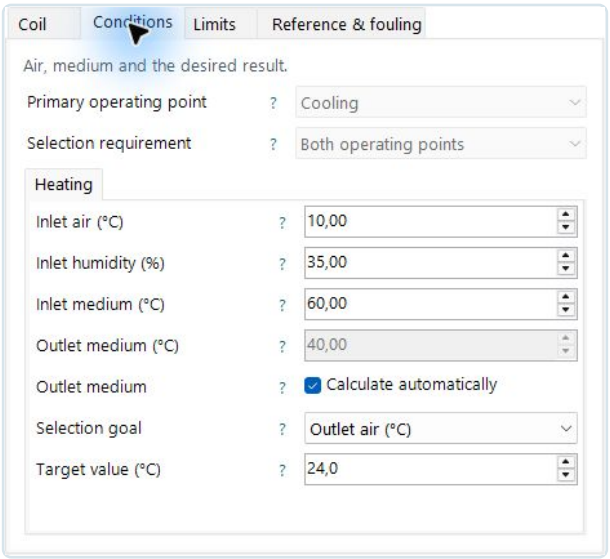
If Revit shows a publisher prompt for the unsigned plugin received from GP Technics, check the name **GP Technics Duct Selector** and choose **Load Once**. Use an editable project; calculations and downloads require internet.

Work through the four input tabs

Coil, Conditions, Limits and Reference & fouling form one input area.



Coil: application, duct shape, connection size, local airflow, medium, connection side and project conditions.



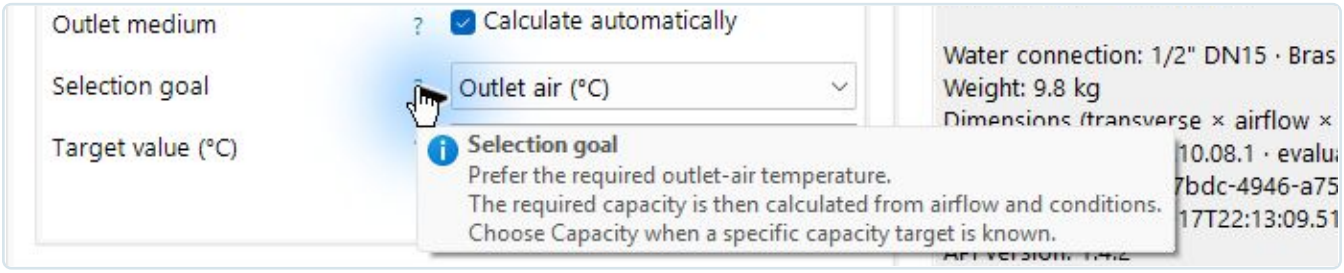
Conditions: inlet air, humidity, medium temperatures and selection goal. For changeover, use the **Cooling** and **Heating** subtabs.

Start a new placement. Choose **New coil** and click **Read duct**. Select the duct if it is not already selected. The tool reads available shape, size and airflow. The tool also recognises the underlying duct when visible insulation or lining is selected. Check the design airflow; an incomplete Revit system may not yet provide a usable value.

Limits contains selection criteria such as pressure loss and air velocity. **Reference & fouling** contains the airflow reference and fouling classes. Complete both operating conditions for changeover. Calculate again after changing an input.

Calculate and place

Enter the operating conditions, review the result and place the selected coil.



Hover over a question mark or click it. The explanation describes the field, its unit and the choice to make.

1 Choose the selection goal

Choose **Outlet air (°C)** and enter the required temperature under **Target value (°C)**. If a fixed capacity is specified, choose **Capacity (kW)** and enter the required value in kW.

2 Calculate and review

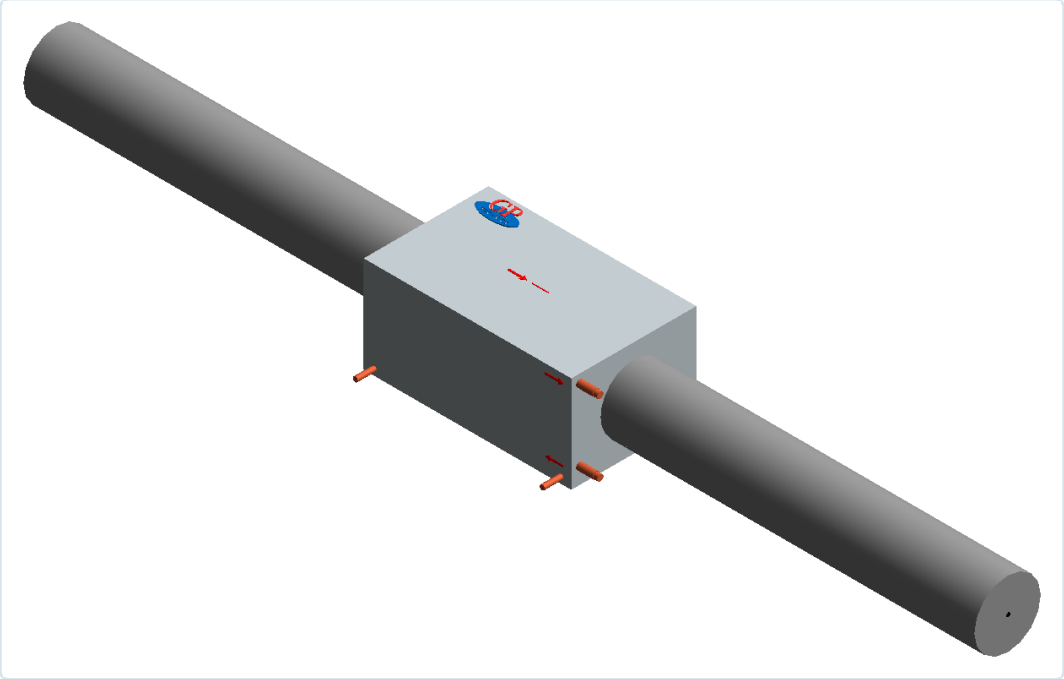
Click **Calculate**. Choose a matching configuration on the right and check temperatures, flows, pressure losses and any messages. Use a question mark if an input field needs explanation.

3 Place a new coil

Check that **New placement** is shown at the top. If needed, **New coil** leaves update mode while keeping your current inputs and calculated selection. Choose the placement method and click the placement button. For duct placement, move the model outline to the required position and click to confirm. After placement, use **Place another coil**; the previous coil is retained. Changed inputs require recalculation.

Insert in an existing duct

The coil replaces part of a straight duct and connects to the duct at both air ports.



An actual placed model: the two remaining duct segments connect to the coil.

1 Choose Automatic or In duct

Automatic selects an open-end connection near a free end and inline insertion farther inside the duct. Choose **In duct** to explicitly place the coil between two duct segments. If needed, select **Reverse airflow direction** before placement.

2 Move the preview to the required position

Click the placement button. Move over the straight duct: the actual model outline follows the duct axis. Green indicates a clear matching position; red requires a correction. Click to confirm. Press **Esc** to cancel without a duct cut or new coil.

3 Check the placed model

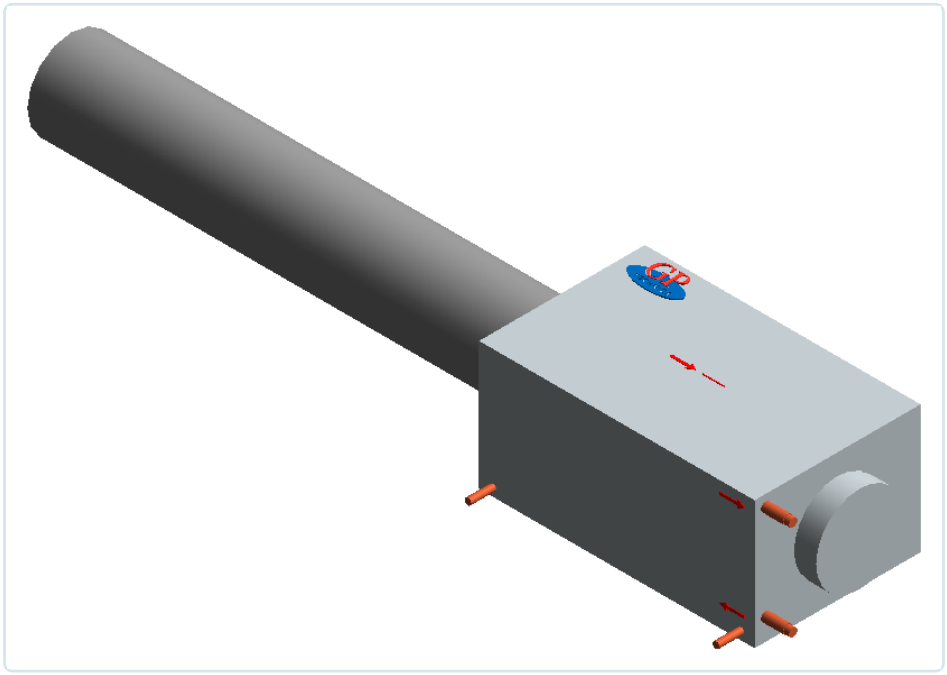
Check the direction and both air connections. Then click **Place another coil** to add the next unit. The first coil is retained. For a downstream coil in the same air path, use the inlet air conditions after upstream components.

Requirements and cancellation

Use a floor plan or orthographic 3D view without perspective. Do not look directly into the duct opening. Use an editable, straight, horizontal rigid duct without branches, with matching size and enough length. The tool creates no reducers or elbows. **Esc** cancels without changing the model.

Open end and free placement

Connect to one open duct end, or choose a free insertion point.



At an open end, one air port is connected. The other air port remains available for further modelling.

1 Click near the free end

Choose **At open duct end**. If needed, select **Reverse airflow direction** before placement. Click the placement button, move the preview to the intended end and click to confirm. In **Automatic** mode, this also works close to an open end. If both ends are open, the nearest free end is used.

2 Check the direction and connection side

The tool follows an unambiguous system direction or automatically uses a fixed default direction along the duct. After placement, check the orientation, connection side and air connection in the model.

Free placement

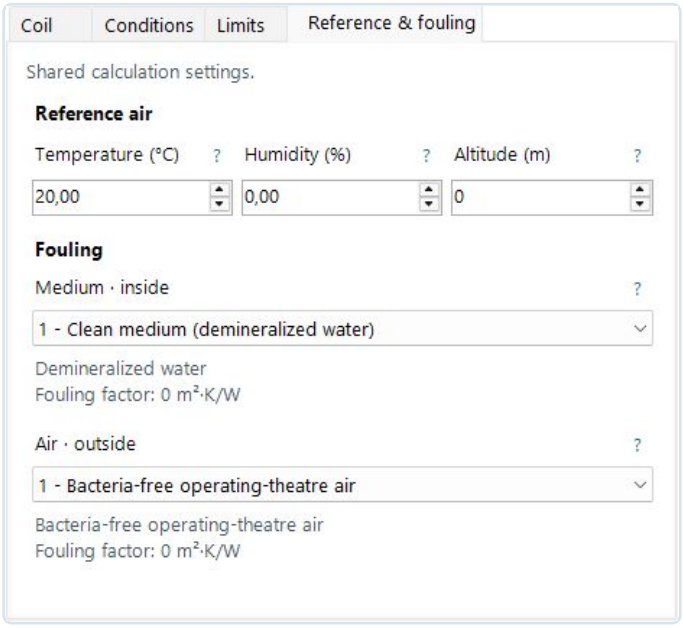
Choose **Free placement** and select an insertion point in Revit. This option has no duct-following preview and makes no duct connection. Complete the connection manually. Press **Esc** to cancel.

Other connections

Connect the water pipes and condensate drain manually. Check clearances, pipe routing, drainage and product orientation. Automatic connection covers the air side of matching straight, horizontal ducts.

Project conditions and fouling

Use the appropriate project sources and distinguish reference air from actual operating conditions.



The **Reference & fouling** tab groups reference air and the medium-side and air-side fouling classes.

Conditions from existing coils

Project conditions offers saved conditions from GP coils with the same application. One matching group is selected automatically; choose the intended source if several groups are available. Duct size and local airflow remain your own inputs. Choose **Own conditions** for manual input, or refresh project conditions after a source changes.

Reference air	Temperature, humidity and altitude for the density basis of the specified airflow. This is not the actual inlet air condition.
Fouling - medium	Fouling inside the tubes. Choose a class appropriate for medium quality and maintenance.
Fouling - air	Fouling on the fins. Choose a class appropriate for filtration, air quality and maintenance.

Check the source

The tool does not independently determine all upstream conditions. Check the source conditions. The medium outlet temperature can be calculated when you choose that option. Fouling choices correspond to the online selector.

Recalculate existing coils

Update one coil or recalculate several coils using shared air and medium sources.

Apply	Revit-ID	Mark	Existing product
☐	8161	1	CC-W-160-5-25-2-1-G5-AA-AAB
☐	8167	2	CC-W-160-5-25-2-1-G5-AA-AAB

Left side of the table: select the coil rows and check the existing product code.

Status	Current capacity	New capacity
Existing configuration confirmed	1.830 W	1.830 W
Existing configuration confirmed	1.830 W	1.830 W

Right side of the same table: review the status and existing/new capacity before applying.

1 Update one coil

Click **Read existing coil** and select the intended GP coil. Check the element number and product code beside **Update**, edit the conditions and calculate again. Click **Update coil** and review the proposal. **New coil** leaves update mode.

2 Collect units and link sources

Open **Add-Ins > GP Technics > Recalculate coils**. Collect all or selected coils. Define shared air and water conditions and link the appropriate sources to each row. Save the source settings.

3 Calculate, review and apply

Calculate the batch and review the status and details. Select only the intended, confirmed results and apply them. A different product requires separate review. Calculation alone does not change the model.

A source change does not automatically start a new selection. Run the batch again after the change. Check the coils and connections after applying the results.

Results and documents

Check the full operating condition and keep the selected product documentation with the project.

Review more than capacity

Check the product code, configuration, air and medium temperatures, flow rates, pressure losses and warnings. For cooling, review condensate and sensible and latent capacity. The dimension order is **crosswise × airflow direction × height**. Also check weight and installation clearances.

Keep the datasheet

Keep the datasheet with the project. After a change, use the datasheet for the new selection.

Open / save datasheet

Open the selected calculation's datasheet or save it with your project. Document language is separate from interface language.

View in Mollier

Open the available Mollier view in the browser. For changeover, first select the intended cooling or heating operating condition.

Open saved selection

First use Read existing coil. Open saved selection retrieves its exact saved selection without recalculating or placing a new coil.

Save batch overview

Export the recalculation table as CSV for review and project documentation.

The included families are backup files: use **Modellen/2024** in Revit 2024, 2025 or 2026, and **Modellen/2027** in Revit 2027. Calculations and current documents remain online.

Updates and troubleshooting

Keep the installer and this guide with your project documentation.

Update or uninstall

The plugin checks for a newer compatible version when it starts. If an update is offered, download it, close all Revit versions and open the new installer. Choose **Update**. The install button is hidden when the installation is current.

To uninstall, close Revit, open the installer and choose **Uninstall**. Saved selections and settings are retained.

No ribbon buttons or connection

Check the selected Revit version in the installer. Restart Revit and review any add-in prompt. Check internet access and the selector connection.

Wrong size or insufficient space

A size mismatch shows both sizes. Source changed means previously read duct data has since changed. Click Use duct size and recalculate to read the current size and available airflow and calculate again. If space is insufficient, choose another position; the tool does not create reducers.

No free end

Choose a genuinely open end. A fitting, end cap or existing connection occupies the end. Choose In duct or Free placement if appropriate.

Working in a LUKA/NLRS project

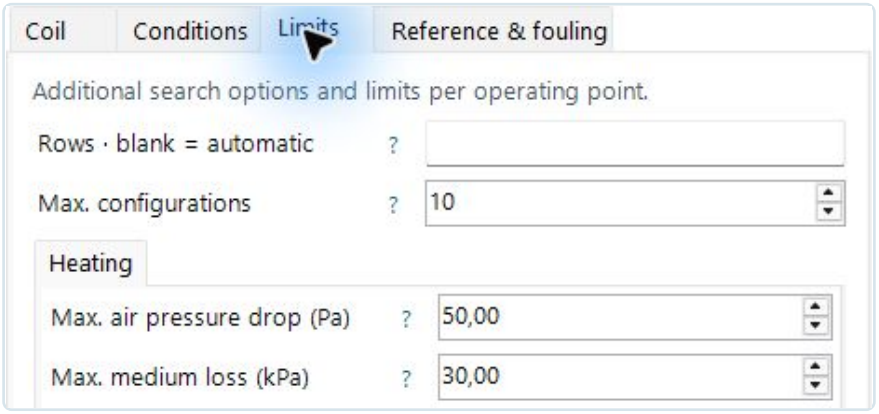
Use the same workflow: read the intended duct and calculate the coil. Choose a matching straight duct segment. You do not need to rename project parameters.

Contact GP Technics

Include plugin version **1.8.0**, Revit version, product code, operating conditions and the exact message. A screenshot of the inputs, message and duct situation helps diagnosis.

Fields and units

A quick reference. Use the question mark beside a field for further explanation.



The **Limits** tab contains the additional selection criteria. Keep an optional limit at its default when no extra requirement applies.

Duct size (mm)	Round: diameter. Rectangular: connection width and height.
Airflow (m^3/h)	Local design airflow through this coil. Check the value read from Revit.
Inlet air (°C)	Actual air temperature immediately before the coil.
Relative humidity (%)	Air humidity at the specified inlet temperature.
Medium inlet/outlet (°C)	Medium temperatures; outlet temperature can be calculated when deliberately selected.
Target value (°C or kW)	The unit follows the chosen temperature or capacity target.
Connection side	Left or right, viewed in the selected airflow direction.
Maximum pressure loss (Pa / kPa)	Air side in Pa; medium side in kPa. Set limits to suit the installation.
Air velocity (m/s)	Minimum/maximum across the coil face, rather than only the duct velocity.
Minimum Reynolds number	Medium flow criterion. 0 means no additional minimum requirement.
Surface reserve (%)	Requested additional surface reserve above the calculated requirement.

Use the question marks in the selector for help with a field.