

Compressed air treatment units

This module in the Easy Sizer programme can be used for sizing and choosing a compressed air treatment unit that guarantees the required flow rate and pressure at the pipe outlet downstream. During the assembly sequence the user specifies the modules making up the unit and other details.

It is worth noting that the programme can also be used to **size a pipe**, without an air treatment unit. In this case you only need to enter the pipe length and other data, without selecting any air treatment module.

Mains supply pressure P_a : the input pressure available

Downstream pressure P_v : the desired pressure at the pipe outlet.

Connecting pipe length L : the total length of the pipe connecting the unit to the utilities (e.g. valves). If there is no pipes, this field must be left blank or you can enter zero.

Number of elbow connectors: enter the elbow connectors installed along the connecting pipe, if any. The programme calculates any localized load leaks and takes them into account. Straight connectors are not taken into account as the load leak is negligible.

Flow rate supplied Q : the amount of compressed air flowing through the unit and pipe.

Modules in the unit: Filter, filter-regulator, etc.: enter all the modules provided for the application following the installation sequence. By pressing “erase the last one”, you can remove the modules entered to modify the unit. No more than one regulator or filter/regulator are allowed. The programme accepts maximum 10 modules per unit.

Calculation/check: enter the results obtained.

Output: families of Metal Work products meeting the requirements are proposed as well as the minimum inside diameter of the pipe.

When you enter “select unit”, a window appears in which you can select the modules of the selected family of products.

When you click the single module box, e.g. FIL or LUB, access is given to the list of codes, and product descriptions and data sheet. If it is a configurable product (Syntesi or ONE), you can configure the product directly.

If you are in an on-line session, you can also access 2D and 3D drawings.

Applications: when you click this field, a drop-down menu appears, where you can either save or print the work done. All input data and the results of the calculation and selection will be printed.