

Wentyle version 5.0 ENG

AutoCAD application supporting the drawing
and calculations of ventilation installation

Designing specification Using elements from BH-Res database

Ducts and fittings in the BH-Res database are manufactured from hardened mineral wool - CLIMAVER, covered with aluminum foil.

The installations are carried out by assembly technicians trained by the company, who are able to fabricate individual ducts and fittings directly at the construction site (details can be found in the BH-Res offer, on the www.bh-res.pl website and in the windows of inserted elements, in the program, under the "PDF" button).

Generally you can use the CLIMAVER database just as you use the database of rectangular ducts, with one difference however:

Because ducts are constructed from segments the "Adjust duct" and fitting commands work a somewhat different in this system. Of course, during the first step it adjusts the section of specified **PR** duct to the section of the specified fitting; during the next step it lengthens the duct, but only by the multiplicity of following segments. And the rest of the length (gap) between the duct and fitting is filled in by **elongation of fitting outlet**.

In order to obtain a fitting outlet elongation different than the one received during the adjustment you must: maximally shorten the fitting outlet using fitting editing, then move the duct and repeat the duct and fitting adjustment.

The insertion points of elements suggested in the program (installation axis intersection points in an element) prefers the installation constructing technique based on displacement of fittings and filling the sections between them with ducts inserted using the „between two specified points" option.

Individual segments connect to each other with female/male end-pieces. However, in case of an end-piece that connects to a metal plate part (damper, grill...) the duct is cut - adjusted.

Thanks to this, which is important for the designer, a **"PRC" channel cut in such a way can be of any length** (up to the length of one segment) but should be used only for connecting Climaver installation elements with metal elements, not to fill the lacking sections between Climaver fittings – PR channels and the aforesaid "Adjust duct" command, i.e. automatic lengthening of fitting outlets, should be used in this case.

Metal plate elements not from BH-Res database

If you want to enter a metal plate element (e.g. damper, grill...) from database other than the BH-Res database, or an own (user's) element, into the installation, you must insert a frame made of "h" profile, which is designed for such applications, in the connection points.

The „h" profile frame – appropriate icons can be found in the BH-Res database, can be inserted at the duct end or duct side. If the insertion is made on the side, then the duct gains a cut-out for the grill, which is taken into consideration during the calculations.

Note:

The „h" profile frames must not be inserted using the elements (grills) from BH-Resu database. When calculating profile requirement the BH-Res grills are treated by the program as already fitted with an "h" profile frame.

Changing the broken line color

The color of broken line, which describes the inner surfaces of the installation, can be changed by entering KolorClimaver command from the keyboard and entering the color code number (from 0 to 255).

Note: In order for the command to work at least one Climaver element insertion command must be executed previously in the drawing session.