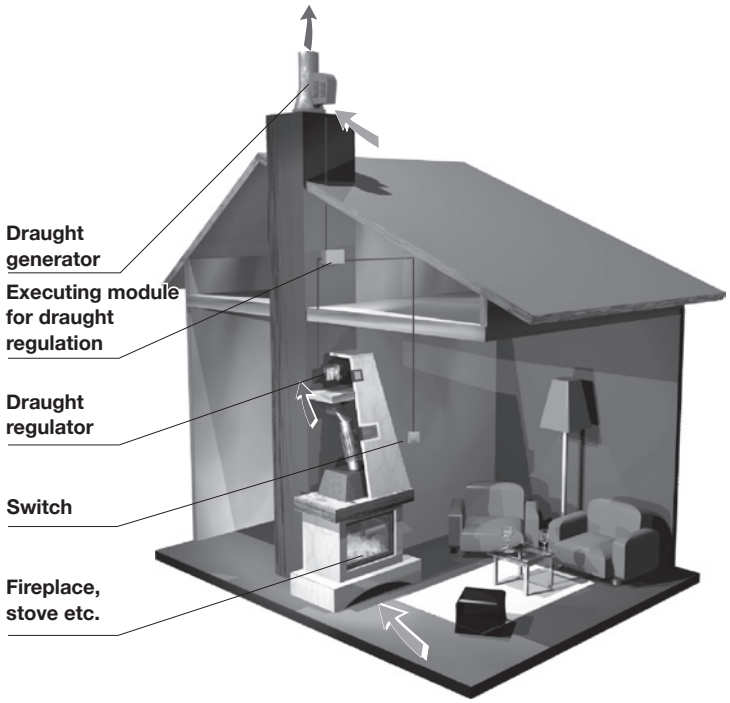
Picture



Description

DRAUGHT CONTROL SYSTEM is a unique solution designed to achieve and maintain the proper draught ratio. It consists of draught generator, draught regulator with pressure measuring device and a steering system.
Working mode is dependent on the value of chimney draught detected by a sensor. The bigger draught demand is recognized, the higher draught generator speed is set. When natural conditions are causing the chimney draught value close to the desired (and set on the controller), device is being turned off or its working speed is being decreased.

It is recommended to set the desired draught level according to the demands of the boiler - draught generator's steering will keep this value with high accuracy. This system can also be implemented to modern "inteligent building" applications.

Destination

- to improve and stabilize chimney draught in flue and smoke ducts
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak (f.e. when the chimney duct is too short)

Caution!
In Chimney Draught Control Systems a special version of Draught Generator is used. Device is equiped with electronically commutated motor which ensures lower energy consumption as well as enables speed control (with output 0-10V).

Denotations / product codes

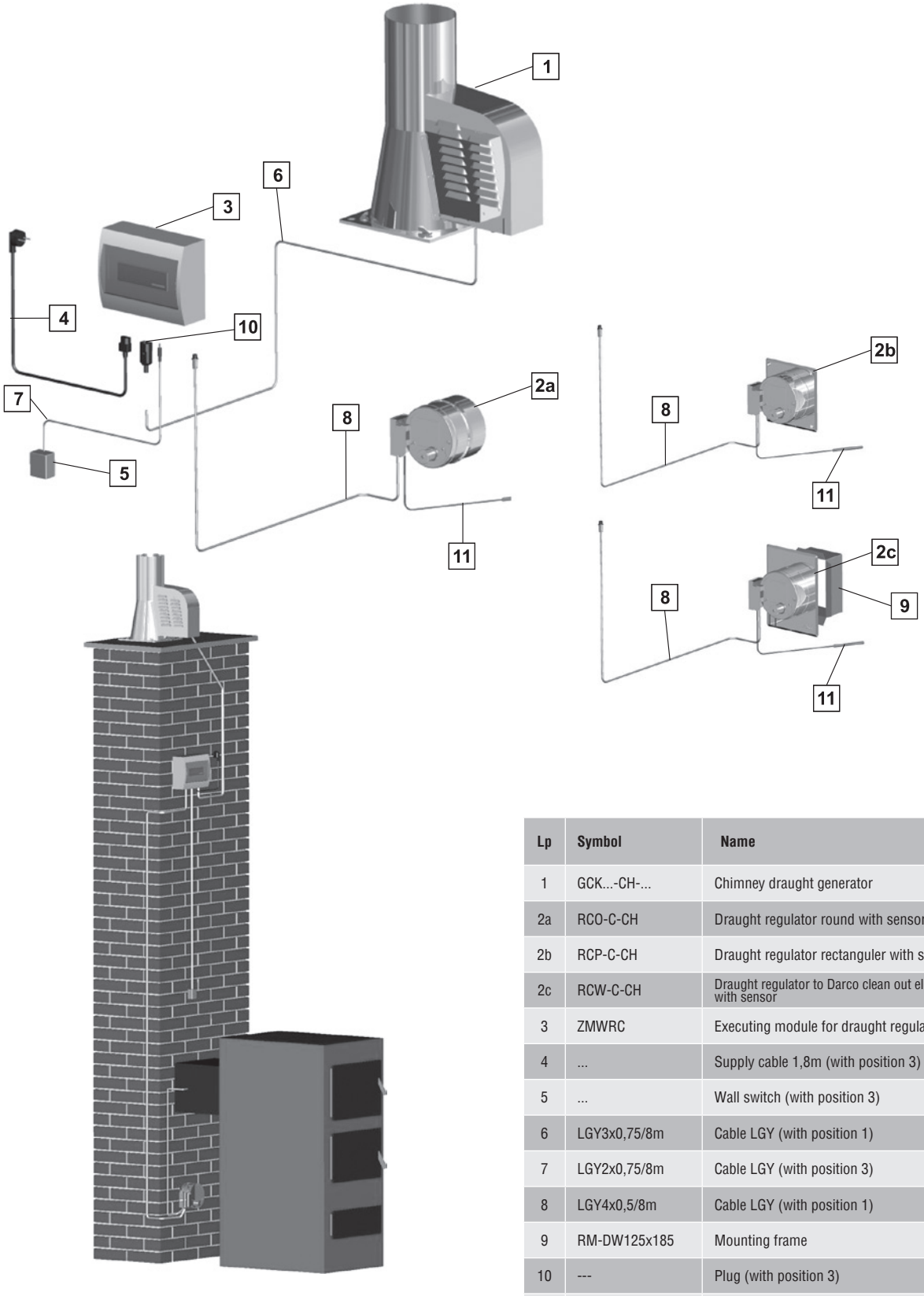
SKC - GCK x - d - RC x - C

- C — version with sensor
- x — regulator version
- RC — draught regulator
- d — base version
- x — diameter
- GCK — draught generator
- SKC — draught control system

Materials / version / composition

Destination	S	S - gas and oil exhaust ducts
	D	D - smoke ducts
Materiał	CH	CH - chrome-nickel sheet 1.4301

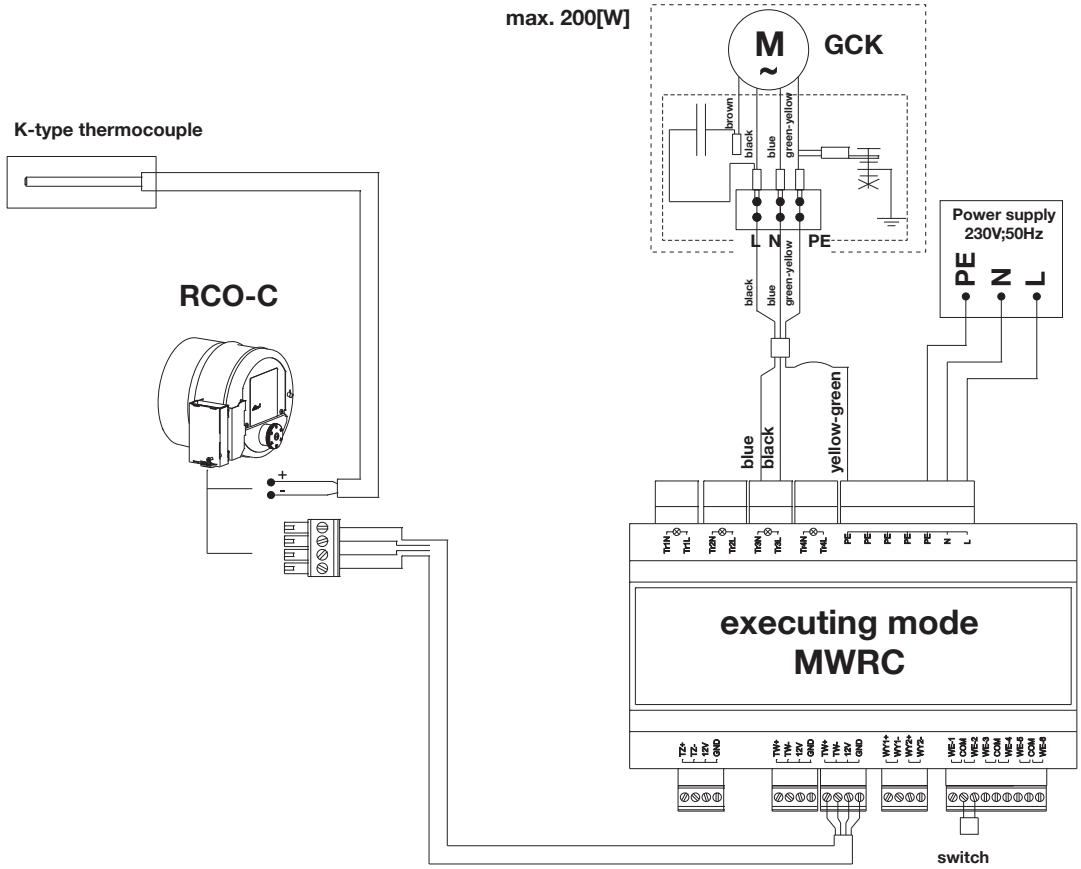
Connectig diagram



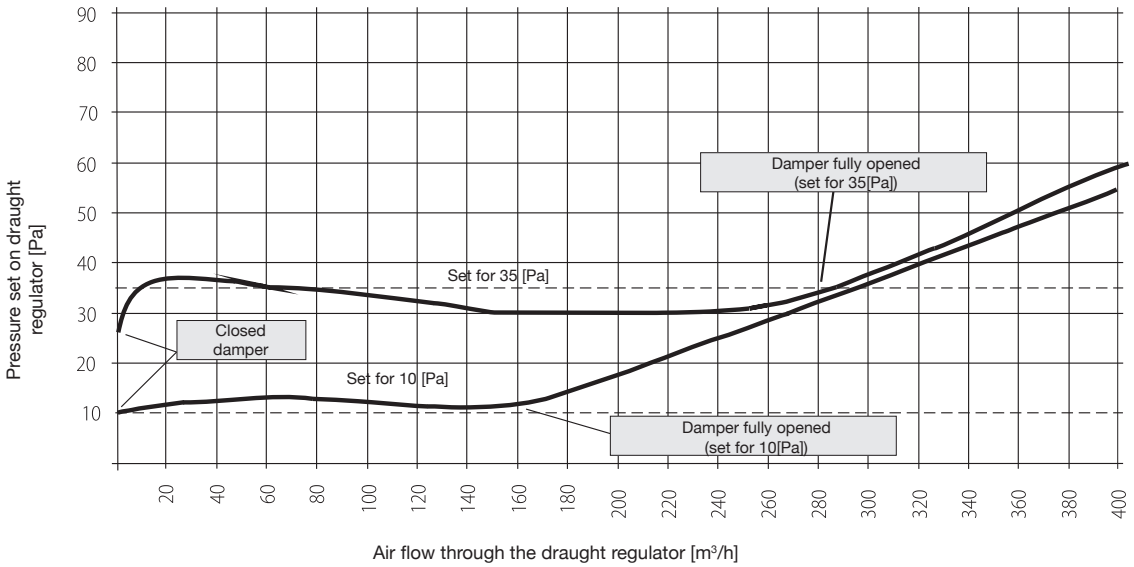
Lp	Symbol	Name
1	GCK...-CH-...	Chimney draught generator
2a	RCO-C-CH	Draught regulator round with sensor
2b	RCP-C-CH	Draught regulator rectanguler with sensor
2c	RCW-C-CH	Draught regulator to Darco clean out element with sensor
3	ZMWRC	Executing module for draught regulation
4	...	Supply cable 1,8m (with position 3)
5	...	Wall switch (with position 3)
6	LGY3x0,75/8m	Cable LGY (with position 1)
7	LGY2x0,75/8m	Cable LGY (with position 3)
8	LGY4x0,5/8m	Cable LGY (with position 1)
9	RM-DW125x185	Mounting frame
10	---	Plug (with position 3)
11	---	Thermocouple type K (with position 2)

* different cable lengths available on customer's request
** cables (position 7 and 8) have properly made connection-endings

Electrical diagram



Airflow charts



Damper in the draught regulator remains closed until the pressure the flue duct reaches the value set on the regulator (for example 10Pa). During time when pressure continues rising, damper in the draught regulator gradually opens, allowing some amount of ambient air to enter the duct, this maintains the pressure in the chimney at the level set on the regulator. Pressure is maintained at a constant level until full opening of the damper.