Description

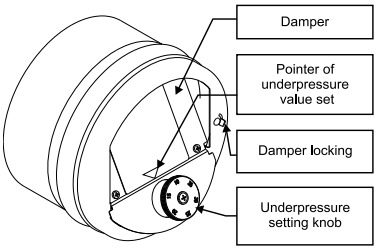
Chimney draught regulator decreases too high pressure in smoek chimney duct, which:

- appears despite correct cross-section of a chimney duct,
- appears if the cross-sectional area of chimney duct is to big,
- is caused by temporary impact of weather conditions for example strong wind.

Device is destined to be mounted:

a) on the connector which connects stove with the chimney,
b) over the connector,
c) under the connector.

Construction



Technical data

Type	RCO / RCO-EX RCW / RCR / RCP		RCO-80	
Group	5		1	
Norm	PN-EN 16475-3		PN-EN 16475-3	
Underpressure range [Pa]	10 ÷ 35		10 ÷ 35	
Max. fumes temp [°C]	400		400	
Max. chimney duct cross-section [cm²]	500 *	750 *	160 *	220 *
Max. diameter of a round chimney duct [cm]	25 *	31 *	14 *	16 *
Insulation clas	I, II	III	I, II	III

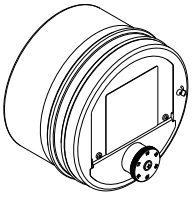
*Chimney parameters (chimney height not bigger than 20m)

Functioning

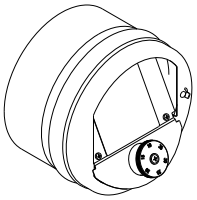
The weight on the damper of draught regulator is balanced. When in a chimney duct the negative pressure rises too high, damper opens and lets fresh air in. Thanks to this, pressure decreases because:

- fumes are cooler and in consequence the draught is smaller
- chimney duct apart from fumes must conduct fresh air supplied by the damper, so there is a substantial increase of the air resistance.

Changing the pressure settings on the draught regulator is made by screwing the damper balance (with its knob). On this knob there is a scale to set the negative pressure value, and on the label on the damper there is a mark showing the actual value set.

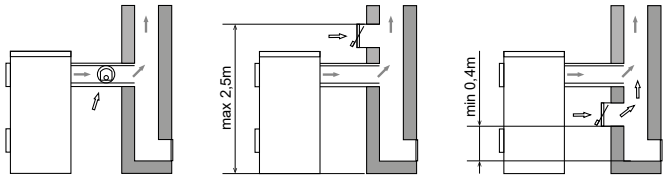


Damper closed



Damper opened

Placing

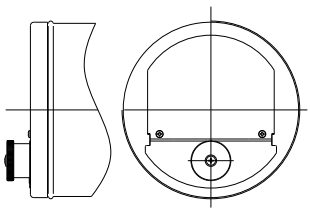


REMARKS

1. Draught regulator must be located in the same room as the heating device.
2. Draught regulator must be mounted in a room where there is a properly functioning natural air supply ventilation (must be an inlet of fresh air).
3. Draught regulator must be at an adequate distance from easy flammable elements:
   - door frames and similar parts made of flammable materials: min. 20 [cm]
   - other parts which are made of or contain flammable materials: min: 40 [cm]
4. It is forbidden to mount the draught regulator in room without natural ventilation!
5. Afterburning in the connector pipe or in chimney ducts is unacceptable!
6. Do not allow to arise a soot fire in the chimney!
7. Draught regulator cannot be installed on the way of the smoke and cannot disturb fumes flow in any other way.

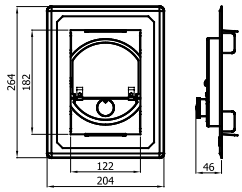
Mounting positions

Regulator will work properly only if placed perfectly horizontal, like shown on the diagram above.



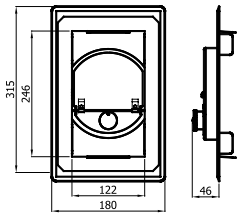
Note! Adjust negative pressure by rotating the knob on the regulator. Knob features "+" and "-" indicators. Turning the knob to the utmost "-" position (until resistance is felt) sets negative pressure at the value of 10 [Pa]. By making a half turn in the opposite direction, negative pressure is increased by 5 [Pa] (so to the value of 15 [Pa]), another half turn gives 20 [Pa] and then 25 [Pa] and 30 [Pa], respectively, up to the value of 35 [Pa], which is achieved by setting the knob to the utmost "+" position.
For reference, see the diagram on the product nameplate.

1. DRAUGHT REGULATOR TO DARCO CLEAN OUT ELEMENT RCW / RCW-S



RCW

draught regulator to DARCO clean out element



RCW-S

draught regulator to clean out element of ceramic chimney

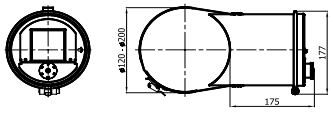
Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

Weight [kg]	RCW	0.80
	RCWS	0.85

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

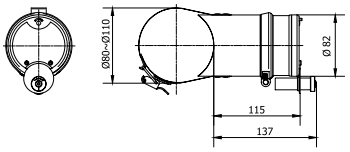
Notice! Mounting of the RCW regulator requires usage of the RM-DW door frame

2. ON PIPE MOUNTED DRAUGHT REGULATOR RCR



RCR

on pipe mounted draught regulator



RCR-80

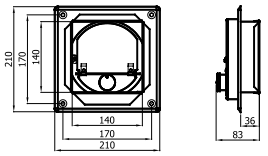
on pipe mounted draught regulator

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

Weight [kg]	RCR	0.85
	RCR-80	0.40

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

3. RECTANGULAR DRAUGHT REGULATOR RCP



RCP

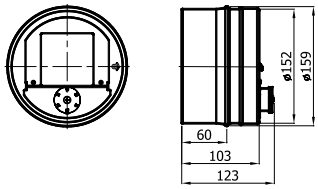
rectangular draught regulator

Weight [kg]	0.75

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp. [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

4. ROUND DRAUGHT REGULATOR RCO



RCO

round draught regulator

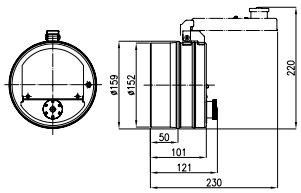
Weight [kg]	0.70

Caution! Mounting clamp included

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp. [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

5. ROUND DRAUGHT REGULATOR WITH ANTI-EXPLOSION SYSTEM RCO-EX



RCO-EX

round draught regulator with anti-explosion system

Weight [kg]	0.70

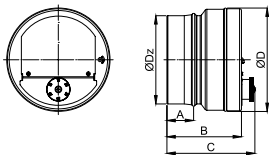
Caution! Mounting clamp included

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp. [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

6. ROUND DRAUGHT REGULATOR WITH REDUCER RCO

DN1/DN1	80/100	150/120	150/130	150/160
DZ	101	123	133	161
D	80	155	155	155
A	60	40	40	45
B	121.5	112	112	102
C	145	132	132	122
Weight [kg]	0.70	1.00	1.00	1.00



RCO x/y

nominal diameter DN2

nominal diameter DN1

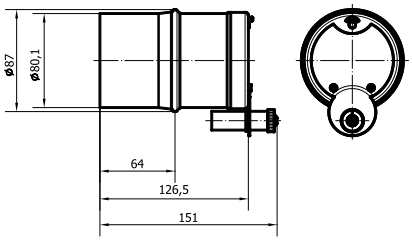
draught regulator

Caution! Mounting clamp included

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

No	Name	Value	
1	Group	5	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp. [°C]	400	
	RCO 80/100		
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	160	14
	III insulation class	220	16
	RCO 150/120, RCO 150/130, RCO 150/160		
5	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	500	25
	III insulation class	750	31

7. ROUND DRAUGHT REGULATOR RCO-80



RCO-80

draught regulator

Weight [kg]	0.55

Caution! Mounting clamp included

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301

No	Name	Value	
1	Group	1	
2	Underpressure range [Pa]	10 ÷ 35	
3	Max fumes temp. [°C]	400	
4	Chimney parameters (chimney height not bigger than 20 m)	Max chimney duct cross-section [cm²]	Max diameter of a round chimney duct [cm]
	I and II insulation class	160	14
	III insulation class	220	16