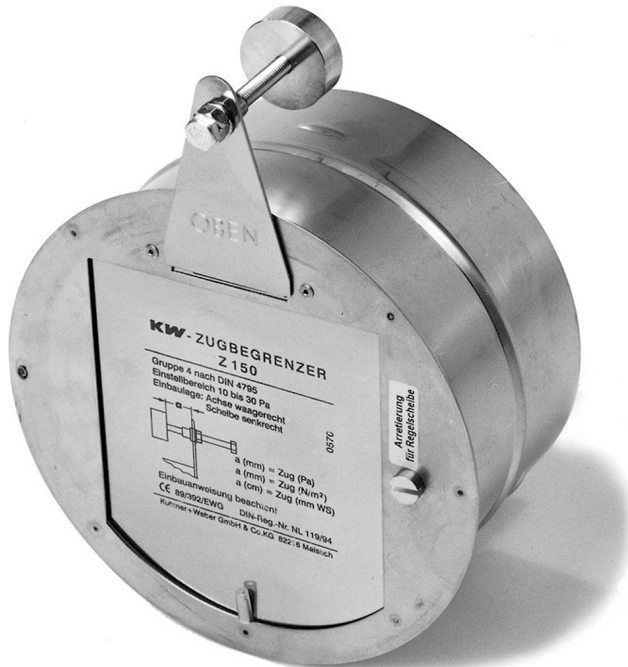


Barometric Dampers

For non-positive pressure appliances

Barometric Dampers

ZUK 130 / ZUK 150 / ZUK 150S / ZUK 180



INSTALLATION INSTRUCTIONS

**Safety**

Barometric dampers should only be connected to non-positive pressure appliances. Non-positive pressure appliances include gas, oil, and solid fuel appliances. Barometric Dampers shall be installed in the same room as the appliance it is serving.

**Warning:**

Install barometric dampers in accordance with local and national codes which may include ANSI Z223.1 (NFPA 54), NFPA 31, NFPA 211

If a flue gas silencer is used, the barometric damper should be installed downstream as there may be positive pressure in the connector pipe upstream of the silencer.

**Installation**

Insert the barometric damper into the connector tee with the control wheel in the vertical axis. Now adjust the barometric damper carefully with an air level (fig. 2, axis of control wheel horizontal, frame and control wheel vertical). Now fasten the barometric damper by tightening the clamping screw (fig. 1).

Setting the Nominal Value (required draft)

The default setting for the KW Barometric Draft Regulator is the highest setting. The required draft for the fireplace is set by turning the control wheel (fig. 3). The measure "a" in inches corresponds to the draft in inches WC. After setting the control wheel, it should be locked in position. Turn the locking nut clockwise to unlock the control wheel (fig. 1).

**Technical Data****Model**

	ZUK 130	ZUK 150	ZUK 150-S	ZUK 180
max. flue gas temperature (DIN 1860)	750 °F	750 °F	750 °F	750 °F
Setting range (required draft in neg. pressure)	0.04–0.10"	0.04–0.14"	0.04–0.14"	0.04–0.24"
Air flow rate at Δp 0.02" wc	45 CFM	80 CFM	80 CFM	110 CFM
Air flow rate at Δp 0.08" wc	75 CFM	130 CFM	130 CFM	160 CFM
Air flow rate at Δp 0.16" wc	95 CFM	175 CFM	175 CFM	210 CFM
Response pressure of pressure relief valve	> 0.40" wc	> 0.40" wc	-----	> 0.40" wc
max. open cross-section pr. relief valve	10 in ²	5.25 in ²	-----	5.25 in ²
Air flow rate as combined sec.-air appliance at Δp 0.08" wc	> 60 CFM	-----	> 130 CFM	> 120 CFM

The air flow rates given for Δp refer to the negative static pressure above the set point of the barometric damper.

Refer to manufacturer's instruction for the required draft for the appliance. If the barometric damper is placed within 3 feet of the appliance outlet, the typical draft setting would be between -0.02"-0.08" wc.

Not following these instructions may prevent the barometric damper from operating properly. This may disrupt the combustion process of the appliance.

Start-Up (functional test)

After installing and setting the barometric draught regulator verify the blade moves easily on the bearings. To do this, pull the control wheel down manually and let it go to verify that the blade swings back into position. After setting the draught regulator, operate the appliance to verify that the draft setting is correct and flue gas does not spill into the occupied space.

If the draught regulator is installed properly and set per appliance manufacturers requirements, it will run flawlessly increasing efficiency and reducing standby losses in firing systems.

Maintenance

The KW Barometric Dampers require virtually no maintenance. Check on a regular basis to ensure dust does not accumulate on the bearing. If necessary (before the heating period begins), the bearings can be lubricated with a drop of non-resinous oil

Do not lubricate or grease the bearings excessively since this only increases the build-up of sediments.

If dirt or soot has set on the control wheel, it needs to be removed carefully to maintain the accuracy of the barometric damper.

Fig. 1

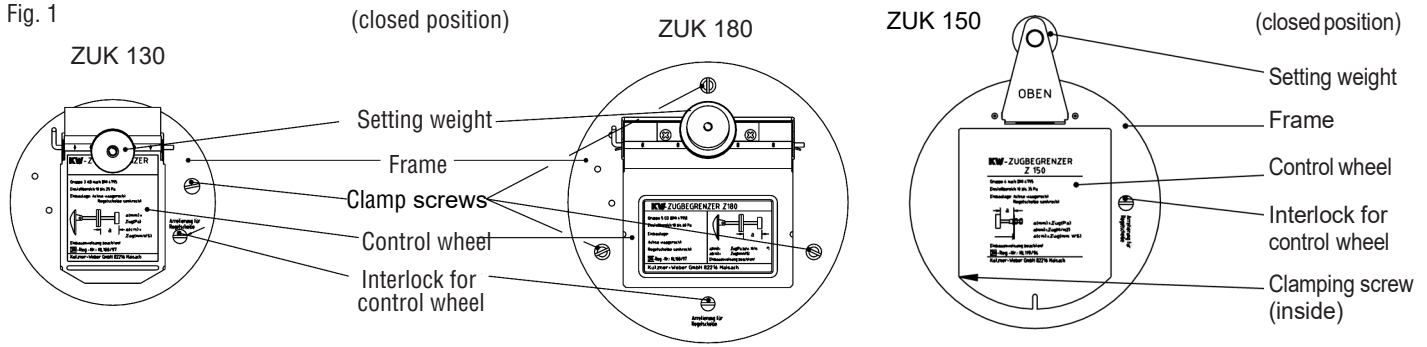


Fig. 2

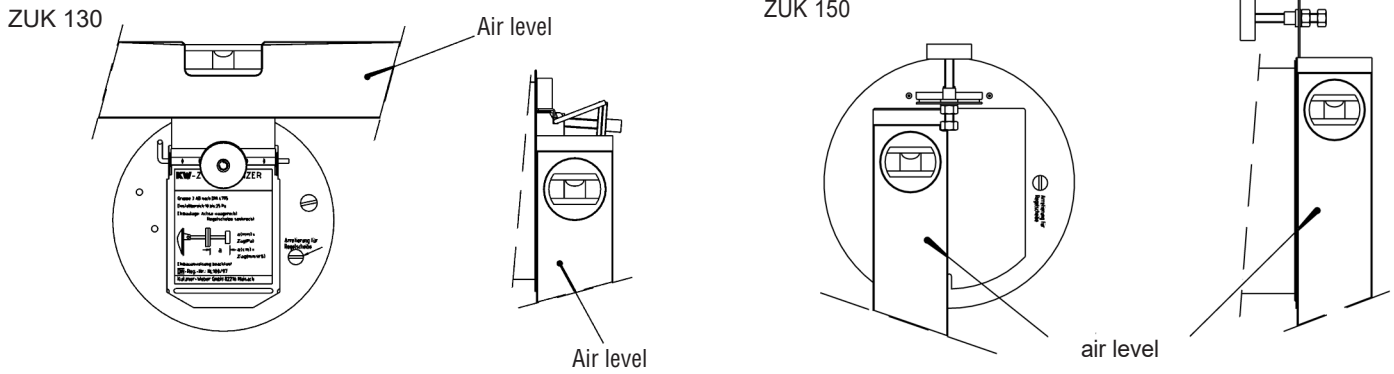
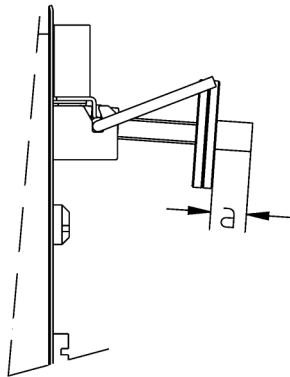
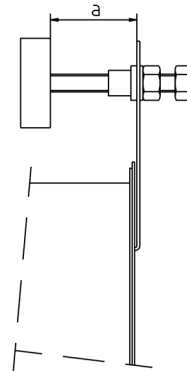


Fig. 3

ZUK 130



ZUK 150



KW
KUTZNER + WEBER

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