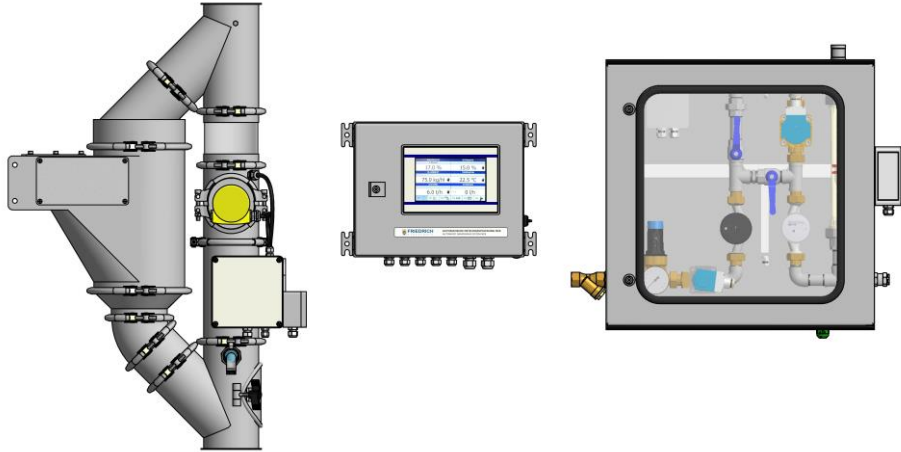




## AUTOMATIC DAMPENING SYSTEM NC8

Exact moisture regulation of all kinds of cereals



### Overview

- Applicable for any intensive dampener
- Exact water dosage dependent on target moisture
- Successfully operating in more than 800 mills worldwide
- Integrated weighing system with modern weighing technology, low-wear
- Evaluation electronic with web server and permanent data storage
- Compatible with predecessor measuring pipes and water dosing units

### Application

The *Automatic Dampening System NC8* is suited for the following applications:

- Continuous measurement of moisture, hl-weight, temperature and weighing of flow capacity
- Exact humidification of grain to attain constant moisture level of the product

The *Automatic Dampening System NC8* measures continuously in free flow. The product moisture content is measured in the bypass pipe.

### Function

By application of the *Automatic Dampening System* a mill can achieve optimal performance by maintaining its grain moisture at a constant level. The required water amount to be given into the grain - in order to achieve target moisture - is calculated of actual moisture and grain flow.

### Applied products

All free flowing grain types can be measured, e.g. wheat, spelt, rye, barley, oat, maize, pepper and malt.



## Construction

The *Automatic Dampening System NC8* consists of three structural components, which may be mounted independently of each other: measuring pipe, computer and water dosage unit.

## Sizes

The housing is supplied in standard steel, powder-coated in color RAL7032; inlet and outlet pipes are round. The following sizes are available:

Type	Pipe diameter	Max. capacity
NC8.120	120 mm	20 m <sup>3</sup> /h
NC8.150	150 mm	35 m <sup>3</sup> /h
NC8.200	200 mm	75 m <sup>3</sup> /h
NC8.250	250 mm	133 m <sup>3</sup> /h
NC8.300	300 mm	175 m <sup>3</sup> /h
NC8.350	350 mm	225 m <sup>3</sup> /h

## Integration

The measuring pipe must be installed vertical and be installed upstream of the conditioning screw. Optional installation can be upstream of the last elevator. Inlet and outlet are connected with flared pipe ends. In case of vibrations the inlet and outlet must be uncoupled with rubber sleeves.

## Evaluation electronic type FE390

- Available for panel mounting (24 V DC) or inside wall housing (230 V AC)
- Can be installed independently from measuring pipe and water dosing unit
- Intuitive colour-touch-screen, display of measuring values and amounts
- Permanent graphic recording of all measuring values with auto-save-function
- 20 type-specific calibrations available, alarm memory and limit value monitoring system
- Dry and constant pre-damp-function
- Webserver/Ethernet, indication on mobile devices possible
- RS232/485-interface with Modbus-RTU protocol, Profibus/Profinet (optionally)

## Water Dosing Unit

The water dosing unit can be installed anywhere along the water supply line of the conditioning screw and can be operated manually with the aid of a needle valve. Pressure fluctuations are compensated automatically. The unit is available on panel board or inside anti-freeze box with thermo-regulated heating system.

*(Due to our policy of continuous development, given specifications and data are subject to change.)*