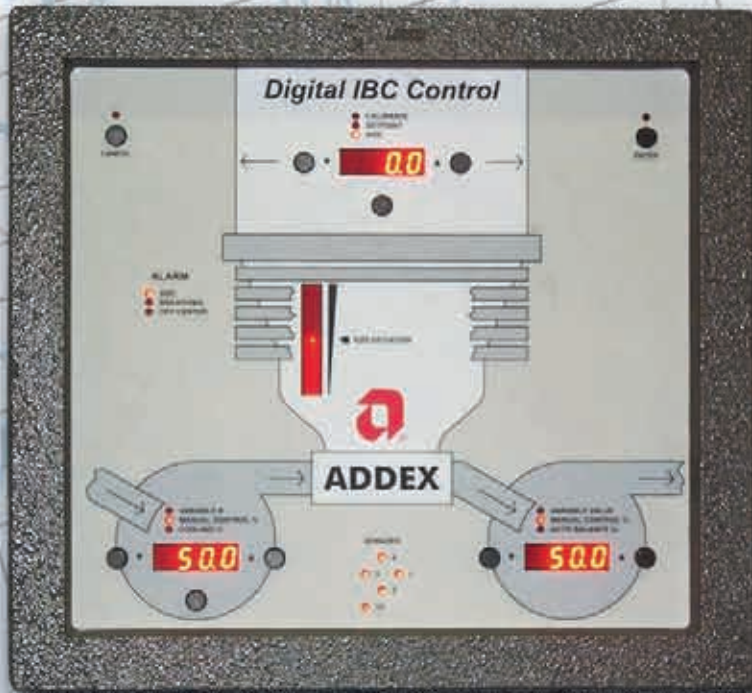
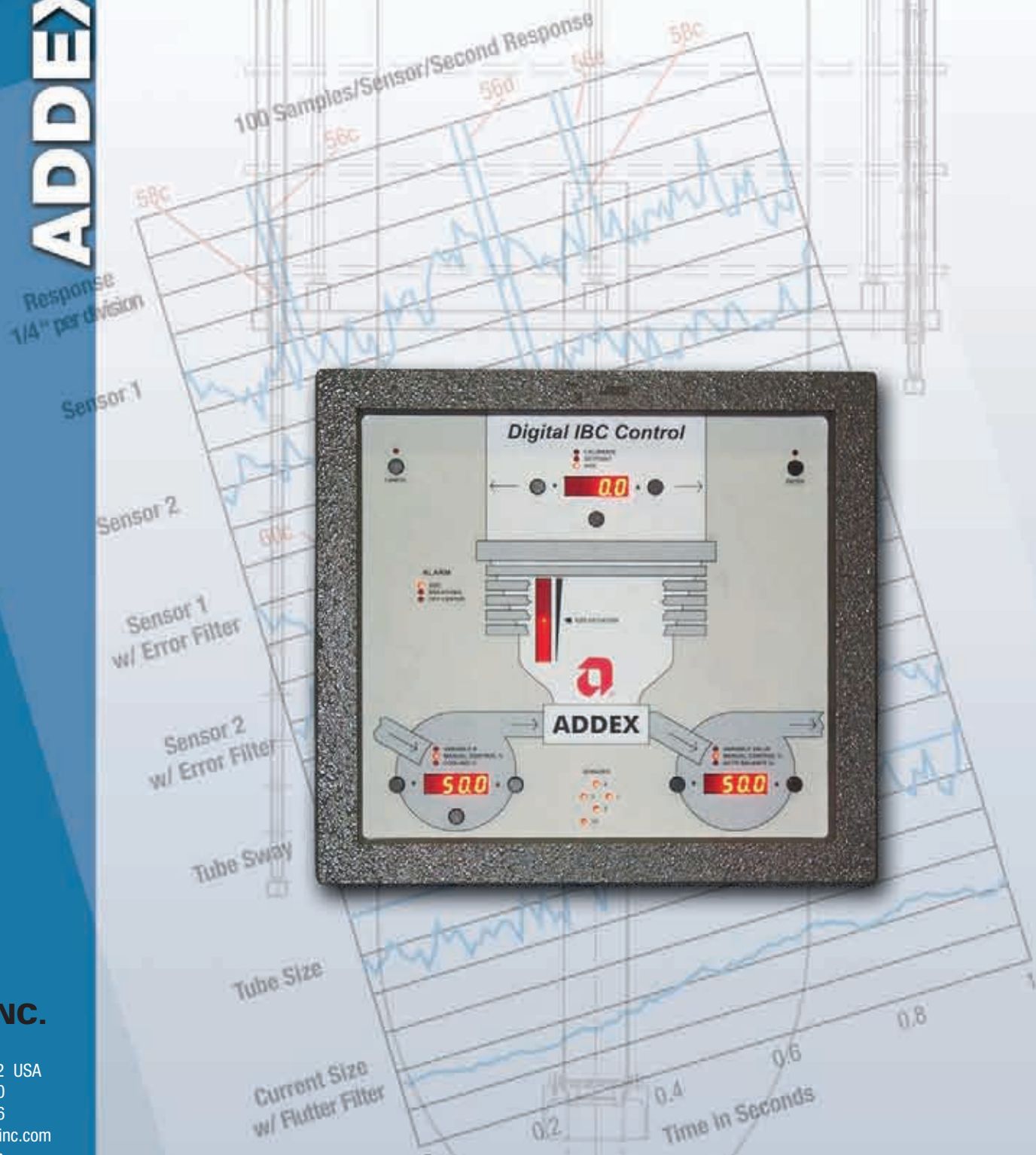




**ADDEX**<sup>®</sup>

# DIBC Digital Internal Bubble Cooling System

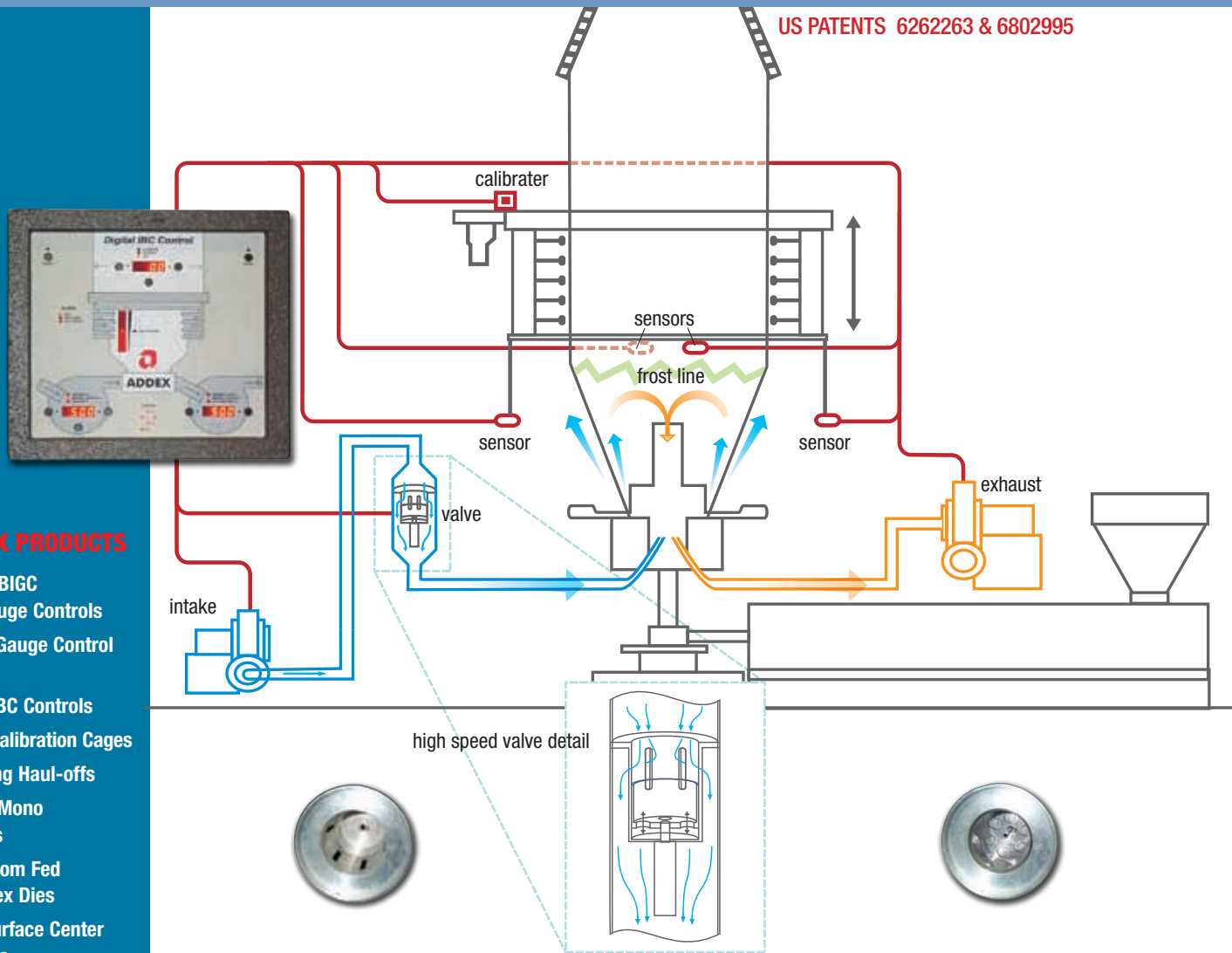


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# DIBC Digital Internal Bubble Cooling System

US PATENTS 6262263 & 6802995



## OTHER ADDEX PRODUCTS

- EGC, IGC and BIGC Automatic Gauge Controls
- MGC Manual Gauge Control Air Rings
- DIBC Digital IBC Controls
- SCC Scissor Calibration Cages
- GBR Oscillating Haul-offs
- REDI Sided Fed Mono and Coex Dies
- Standard Bottom Fed Mono and Coex Dies
- SuperWind Surface Center Assist Winders
- MDO Lite Film Flattening Annealer
- Slim-Line Extruders



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## UNIQUE FEATURES

Patented split sensors enable the air flow intake and exhaust to react to the slightest changes in bubble size at or below the frost line where the bubble size is not yet final.

A set of **two** non-contact ultrasonic **sensors** are aimed at the bubble **below the frost line** where size changes, particularly with the low melt strength materials like **metallocenes** and **LLDPEs**, are quickly noticed. This allows an **immediate correction** by the intake/exhaust blowers via the AC inverter controlled blowers, or, for the more **critical layflats**, via the high speed **servo** reaction **control valve**.

A second set of two ultrasonic sensors are aimed at the bubble way above the frost line where bubble size is stable to **calibrate** the lower sensors to make sure the bubble size is kept constant.

## CALIBRATION

The DIBC system includes also a fifth ultrasonic sensor that is aimed at a fixed target in order to calibrate the other four sensors whose readings can be altered due to changes in air temperature.

## DIGITAL CIRCUITRY

The **100% digital circuitry** eliminates **errors** caused by interferences due to electrical devices like corona treaters or ultrasonic sensor driftings.

The digital circuitry allows three out of the total of four sensors to be incapacitated and automatically, without operator intervention, the system will still work.

## VERSATILITY & INTEGRATION

The system's **VERSATILITY** allows it to be used with:

- **100% blower speed control** (recommended for trimmed films)
- **with air valve control** (for the tightest possible layflat control)

The **operator friendliness** is assured by the limited number of buttons and switches and the **operator alerts** that indicate an off center or "breathing" bubble.

The DIBC system can be integrated into any AdDEX or non-AdDEX complete line control system.