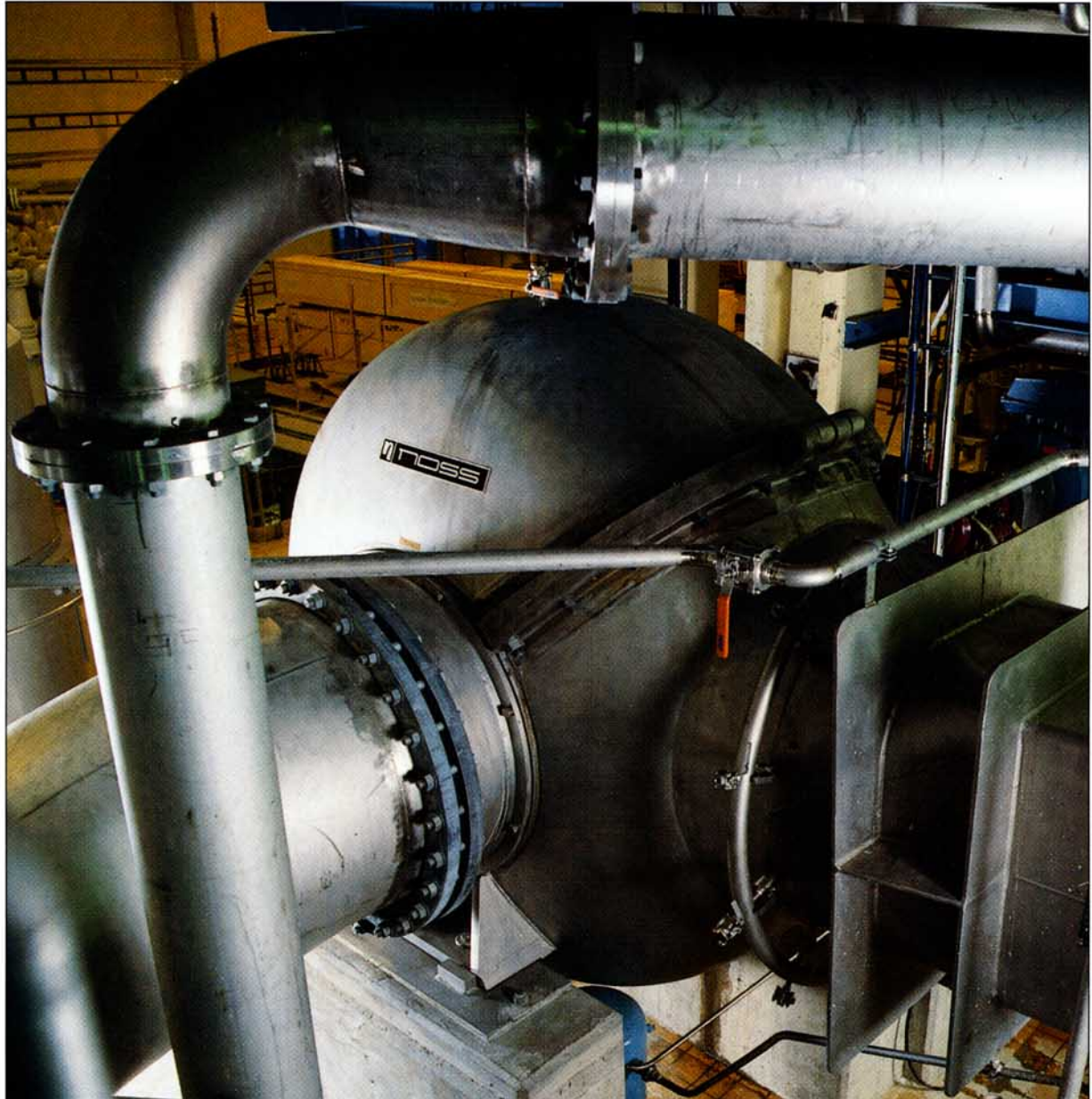


Paper Machine Approach Flow System

RADISCREEN PERIVAC RADICLONE



Noss unique screening systems for paper manufacturing processes give quality benefits.



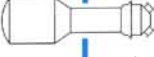


RADISCREEN-C coarse screening

RADISCREEN-C has proven to be a valuable addition in many areas of an approach flow system by eliminating large, heavy debris ahead of several types of machines and equipment.

Some advantages with the unique design of the RADISCREEN-C

- Screening at stock consistencies up to 5% is possible
- Excellent return on investment due to fewer breakdowns and less wear of protected equipment and machines
- Timer controlled intermittent rejecting of debris with virtually no loss of fiber
- An easily installed, compact design with low headroom requirements

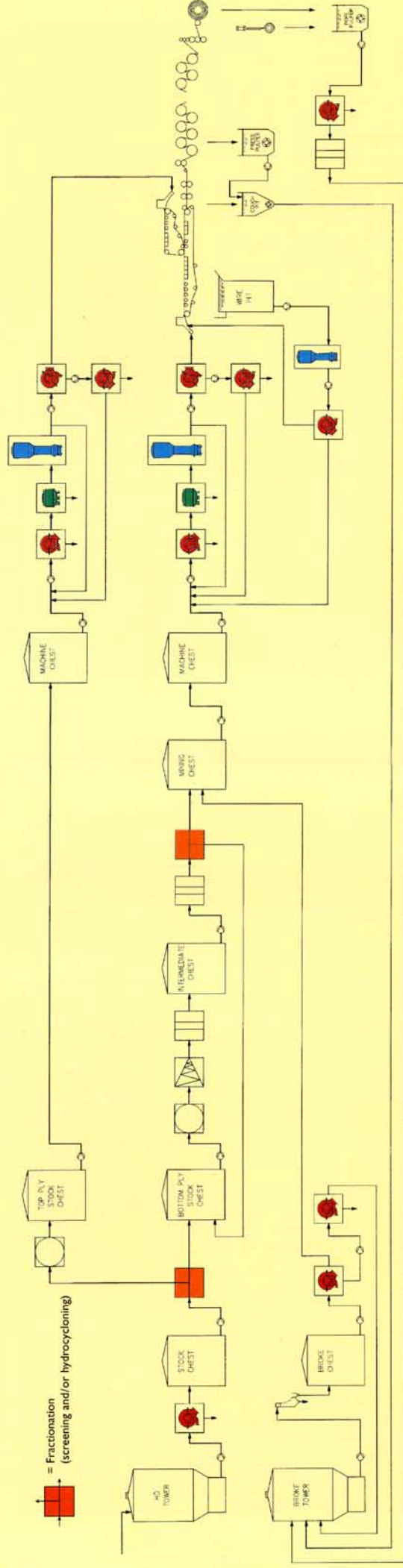


PERIVAC deaeration

For many years, Noss PERIVACs have been installed to ensure complete deaeration of the paper stock. New machines with headbox dilution for profile control can also benefit from deaeration of the dilution water with a PERIVAC.

Some advantages with the unique design of the PERIVAC

- Ease of installation. The PERIVAC is a self-supporting stainless steel tower that can be installed on the machine floor or on a mezzanine either indoors or outdoors
- Vertical design and incorporated piping result in low installation costs
- The PERIVAC requires no regular maintenance



RADICLONE hydrocycloning

RADICLONE systems are installed worldwide cleaning pulp and paper stocks with high efficiency at low production costs.

Some advantages with the unique design of the RADICLONE

- Compact canister design allows installation of high capacity systems in small spaces
- Automated reject flow control for:
 - increased operation reliability
 - prolonged lifetime of individual hydrocyclones
 - faster and easier adjustments of the RADICLONE system
- A decrease of approximately 50% of free air through canister air bleeds and a closed system design



RADISCREEN-M machine screening

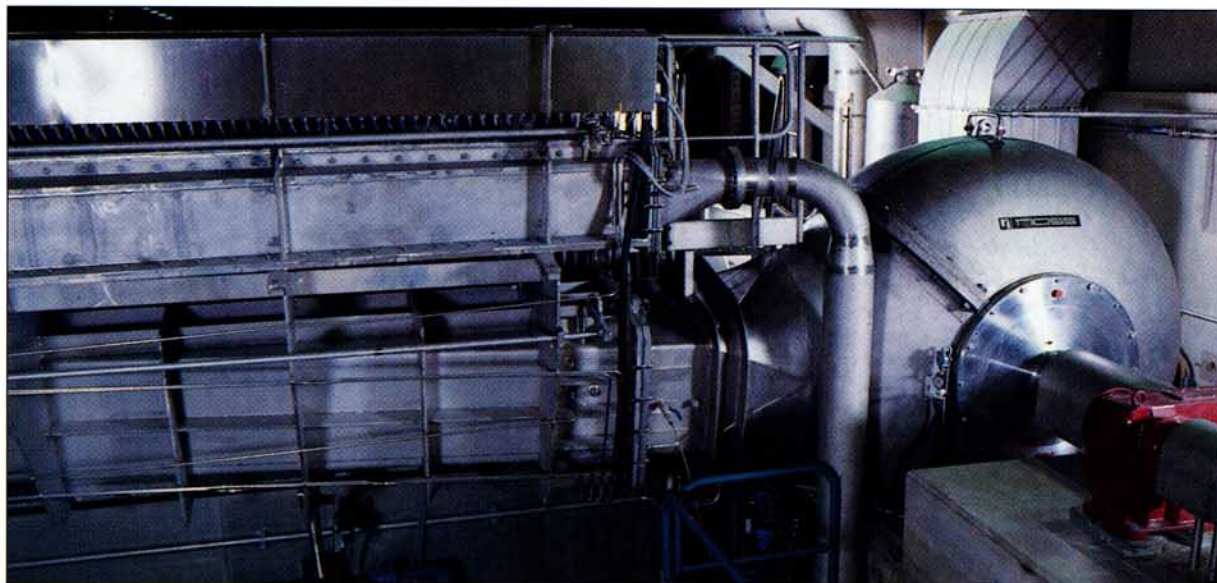
A RADISCREEN-M installed on or close to the headbox manifold promotes excellent sheet formation, efficient mixing of chemicals and very low basis weight variations.

Some advantages with the unique design of the RADISCREEN-M

- Only one compact RADISCREEN-M is required for flows up to 300 m³/min (80,000 USGPM)
- Improved stability when the RADISCREEN-M is close-coupled to the headbox
- Some machine screen applications require only one Radiscreen-M stage. In that case, and for those systems which do require additional stages, a Radiscreen-M with intermittent reject discharge eliminates the need for open vibratory screens that can cause disturbances in the approach flow system.
- Effective fractionation of white water for the new profile controlled machine headboxes

Headbox approach flow stability

Through many years of field experience as well as theoretical studies Noss has gained expertise in minimizing pressure pulsations. With particular attention to flow stability Noss recommends that the RADISCREEN-M machine screen should be installed flange-to-flange with the headbox manifold.



The Noss approach flow design thereby:

- Minimizes the number of natural resonances in the system
- Avoids resonance problems
- Chooses appropriate frequencies interfering neither with the natural frequencies of the system nor with the frequencies of other devices

Noss advantages and services

Noss equipment and customer service is called the best in the industry.

- All equipment is manufactured to high standards in our own facilities
- Our research, development, design and laboratory departments are continuously improving our products and processes
- Our engineering department designs and installs complete systems and is responsible for start-up services
- Noss service engineers visit our customers frequently providing help and advice



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