

APPENDIX NO. 1

TECHNICAL SPECIFICATIONS

CHAMPION INTERNATIONAL CORP.

HEDEMORA VACUUM DISC SAVEALL

Units	1	
Disc Diameter, ft	12 ft	
Number of Discs Installed/Space For	16/18	
Disc Area, sq ft	2800/3150	
Material for Wetted Parts	316L S.S.	
Number of Filtrate Outlets	2	
Height of Vertical Drop Leg Min.	23 ft	
Disc Speed, RPM	0.3-1.8	
Conveyor-Repulper Speed, Approx. RPM	90	
<u>Shower Water Requirement LPM (per unit)</u>	<u>16 Discs</u>	<u>18 Discs</u>
Cloth Cleaning (clear filtrate) GPM	317	357
Sheet Discharge (clear filtrate) GPM	148	166
Sluicing Water (feed slurry) GPM Min.	85	95
<u>Motor Sizes</u>	<u>16 Discs</u>	<u>18 Discs</u>
Disc. Drive, HP/RPM	15	15/300-800
Conveyor-Repulper Drive, HP/RPM	15	15/1200
Cloth Cleaning Shower Drive, HP/RPM	2	2/1200
<u>Weights</u>		<u>18 Discs</u>
Filter, Net Without Pulp (Est)		25 sh. tons

NO 4 PM REBUILD
HEDEMORA SAVE ALL SPECIFICATIONS.

5-540-627-745-03

APPENDIX NO. 1

TECHNICAL SPECIFICATIONS

CHAMPION INTERNATIONAL CORP.

HEDEMORA VACUUM DISC SAVEALL (cont)Filter Vat

The vat is welded in stainless steel and reinforced on the outside on all four sides with closed beams made of painted carbon steel. The beams are tight welded on the vat.

The pulp is discharged through chutes between the discs leading to a rectangular opening for flanged connection to the conveyor-repulper or a manifold chute.

The vat ends have bolted tightening shields for the shaft lead through. The shaft seal consists of a stuffing box with attachable gland.

The bottom of the vat includes connection for level transmitter and drainage.

Feed Box

The feed box is manufactured in stainless steel and is welded on to the vat. The box is made with hinged covers. The inlet to the vat from the feed box is arranged as weirs giving an even distribution of incoming pulp along the filter length.

Center Shaft

Fabricated stainless steel construction including internal channels with conical cross-sections. Blind flanges will be supplied for discs not in use.

Bearings

On the valve end the bearing consists of a plain bearing with housing of cast iron and liner type Glacier. At the drive end the stub shaft rotates in an antifriction bearing.

Filter Discs

Each disc consists of twenty sectors. The sectors are manufactured of stainless steel comprising a frame of U-profiles and a deck of projection welded wire screen.

The filter cloth is stainless steel plain weave 35 mesh.

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TECHNICAL SPECIFICATIONS

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HEDEMORA VACUUM DISC SAVEALL (cont)

Filter Discs

The sectors are fixed on to the center shaft with two stainless steel bolts. An extended socket wrench for this purpose is delivered with the filter. At the periphery the sectors are connected by means of screwed-on stainless steel profiles.

Automatic Valve

The three-point suspension stainless steel valve has no internal bearings. Between the rotating shaft and the fixed valve is a replaceable wear plate made of HD polyethylene.

The valve is pressed against the wear plate by three springs. A sealing arrangement around the wear plate is connected to the barometric leg which prevents leakage between the shaft and the valve.

The valve is normally made with two filtrate outlets: one for cloudy and one for clear filtrate with an adjustable filtrate split. The valve is equipped with vacuum gauge and flexible vacuum connection.

Sheet Discharge

The discharge system consists of a header with branch pipe and shut-off valve for each disc. The nozzles for water jet discharge are spoon nozzles with conical inlet, which minimizes clogging.

Cover Cleaning

The cover shower consists of a header with branch pipes oscillating between the discs. The header is driven by a gear motor and a crank. The motor is equipped with a brake, which means that the oscillation can be stopped in any position. The nozzles are of the same type as the stock discharge nozzles.

Sluicing

The sluicing consists of a header with branch pipes to every chute for pulp discharge.

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HEDEMORA VACUUM DISC SAVEALL (cont)

Conveyor-Repulper

The vat is a welded stainless steel construction with a flanged connection for bolting to the vat. The screw is built from a hollow steel bar lined with stainless steel. The screw is mounted in antifriction bearings. The drive consists of reduction gear, motor and V-belt transmission. The motor is not included

The stock discharge connection is placed to suit local requirements.

Filter Hood

The heads are stainless steel connected by a special welded I-beam of stainless steel and equipped with flanged exhaust connections.

The hood is divided into sections which can easily be lifted by hand. Every section is equipped with an inspection door.

Disc Drive

The disc drive consists of a shaft-mounted reduction gear and a V-belt transmission between gear and motor. The motor is not included

For control of the variable speed, we recommend a DC motor or an AC motor with frequency converter.

Lubrication

The filter includes five points for grease lubrication. Upon request these points can be connected to a central lubricator.

Painting

Non-stainless parts in contact with the atmosphere are sandblasted and painted in accordance with customer requirements.

Vacuum

Vacuum required for the function of the filter may be produced with a barometric leg or a vacuum pump. A combination of a barometric leg and a vacuum pump can be used when the available height is too short.



IPAS 846A/9741a

SPECIFICATIONS FOR

SHEET 7 of 10

520-70-003

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ITEM Disc Saveall - No. 4 Paper Machine

EQUIPMENT NO.

CUSTOMER Champion International Corporation

PROJECT NO. 3137

PLANT LOCATION Bucksport, Maine

5.3 SAVEALL INFORMATION

14 D16 D

5.3.1 Vendor's Name

Hedemora, Inc.

5.3.2 Saveall Model No.

High submergence

5.3.3 Number of Discs and Diameter

12 ft dia x 16/18 D

5.3.4 Number of Sectors/Disc

20

5.3.5 Maximum Saveall Capacity

Appr. 5300 GPM incl. broke

5.3.6 Sweetener Required (Norm/Max)

Appr. 517 GPM (norm)5.3.7 Suggested Saveall Feed Consistency
(Normal Operation)0.5% BD

5.3.8 Feed Consistency on Machine Break (Maximum)

1.60% BD5.3.9 Expected Consistency of Stock Discharge
From Discs
From Repulper10% BD

5.3.10 Suggested Cloudy/Clear Split

4% BD

5.3.11 Expected Consistency of Clear Filtrate

Appr. 25%/75%

5.3.12 Expected Consistency of Cloudy Filtrate

Appr. 100 ppmAppr. 700 ppm

5.3.13 Vacuum Drop-Leg Requirements

Min. 23 ft. (str vertical)

Showers

Location

Sheet Knock Off

Descending side of discs

Face Cleaning

"

Sluicing

"

5.3.14 -- Quantity and Quality of Water (Fresh or White)

16 D18 D

Sheet Knock Off

148 GPM166 GPM

Face Cleaning

317 GPM357 GPM

Sluicing

Min. 85 GPM95 GPM



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ITEM Disc Saveall - No. 4 Paper Machine

EQUIPMENT NO.

CUSTOMER Champion International Corporation

PROJECT NO. 3137

PLANT LOCATION Bucksport, Maine

— Pressure Required

Sheet Knock Off

100 psi

Face Cleaning

100 psi

Sluicing

30 psi

5.3.15 Sector Face Clothing Material

SS 316 35 mesh

5.3.16 Metallurgy of Wetted Parts

SS 316 L

5.3.17 Metallurgy of Discs

"

5.3.18 Metallurgy of Shower Pipes

"

5.3.19 Metallurgy/Material of Hood

"

5.3.20 Type of Nozzles

Spoon type flat spray

5.3.21 Disc Operating, RPM

0.3-1.8 RPM

5.3.22 Motor HP and RPM

16 D 18 D

— Main Drive

-- Repulper

15 HP 20HP/300-1800
15 HP 15HP/1200

5.3.23 Type of Main Drive

Shaft-mounted gear

5.3.24 Type of Repulper Drive

"

5.3.25 Assembled Weight (Dry)

"

5.3.26 Shipping Point

Est 25 sh tons (18 discs)

5.3.27 Price for Saveall Complete (FOB Bucksport, ME)

See quotation

5.3.28 Estimated Freight to Mill Site

See quotation

5.3.29 Delivery

See quotation

6. OPTIONS (PRICE SEPARATELY)6.1 Controls to adjust the Clean and Cloudy
Split on the Run

Included in std.



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SPECIFICATIONS FOR

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520-70-003

REV 0

ITEM Disc Saveall - No. 4 Paper Machine

EQUIPMENT NO.

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PROJECT NO. 3137

PLANT LOCATION Bucksport, Maine

6.2 One Full Disc Complete With Face Cloth, Etc.

USD 8,000:-

6.3 Self-Washing Face Cleaning Nozzles

N/A x)

6.4 Fiberglass Sectionalized Hood Instead of S.S.

No price diff.

6.5 Additional Two Disc Locations Added to Saveall

R0

x) Possible addition of strainer battery (S elements)