

Farm Of The Future

Riedbow Dairy LTD
Ale & Hiltje Riedstra



Peering into Dairying's Future

- Dairy Farmers need to boost profit, reduce energy costs, labor costs and feed costs



Peering into Dairying's Future

Four key areas will unlock new possibilities for the dairy industry

- Automated milking systems for big farms
- Total Herd Management control
- Smart automated feeding systems
- Low labor, sustainable - Manure Management systems



Riedbow Dairy

- A farm of the future---Our Future



Farm Of The Future

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An aerial photograph of a dairy farm, enclosed in a thick, dark wood frame. The farm features a prominent blue cylindrical silo, a large white barn, and a smaller white house. The surrounding landscape is a mix of green fields, trees, and a dirt road. The text '30 Cows' and '370 Liters Quota' is printed in the upper right corner of the photo. A large, bold, black watermark 'Riedbow Dairy 1987' is slanted across the bottom right of the image.

30 Cows

370 Liters Quota

**Riedbow Dairy
1987**



1995

1998



• FREEDOW DAIRY - 1998 •

TWP. 9

PROPERTY OWNERSHIP MAP



2001

**Riedbow Dairy
LTD
Box 308
Elm Creek
Manitoba Canada**

**Phone 1 204 436 2606
1 204 436 3292
Fax 1 204 436 2606
1 204 436 3292**



Derrick

Ale

F2 SAFIR

F1 MANAGER

2003



11.27.2006





11.21.2006



2008



- Added new 550 free stall barn**
- 243x19 Slurrystore**
- 4- New 25x106 Harvestores**
- 3- XL 400 Unloaders**
- 1- XL -200 Unloader**
- New feed room with smart panel feed batching**

243x19 Slurrystore - 6,048,249 gals

DOCUMENT NUMBER: 5080891 -010 TITLE: TANK CALCULATIONS Page 2

243 18 AQUASTORE STRUCTURE DESIGN SUMMARY (87 SHEETS PER RING/COURSE)

COURSE NUMBER	SHEET	THICK in.	THICK mm	PLACE CODE	GEOM CODE	MAT CODE	LIMITING FACTOR(S)
1	1	.322	8.179	1	1301	2	0
2	2	.322	8.179	1	1301	2	0
3	3	.354	8.992	1	1401	2	0
4	4	.438	11.125	2	1500	2	0
FDN	5	.500	12.700	3	5520	2	0

WIND STIFFENERS REQUIRED:

TOP STIFFENER SECT. MOD. = 26.188 cu in 429143.063 mm³

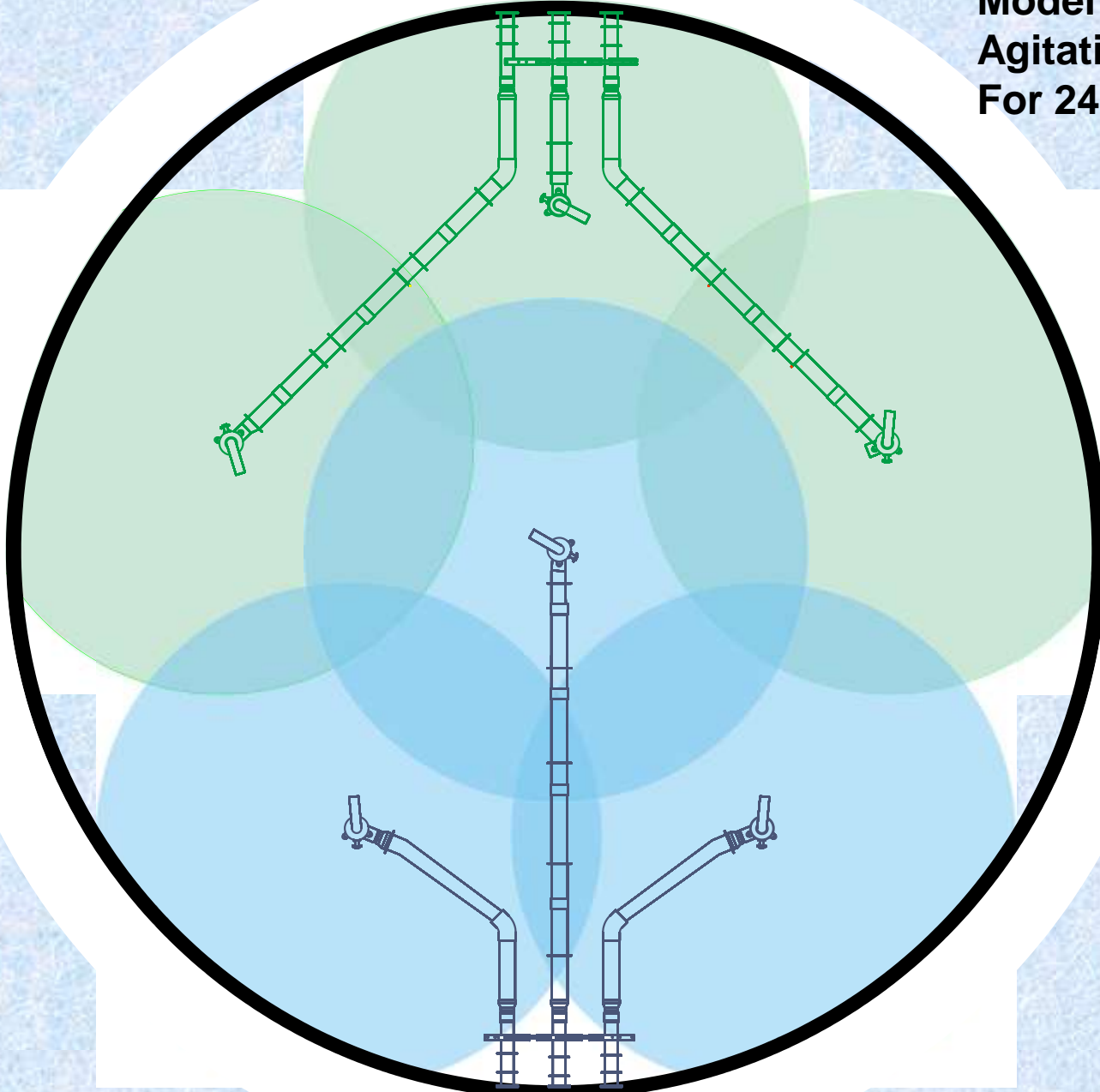
STRUCTURE DIAMETER = 243.38 ft 74182.16 mm
 HEIGHT OF STRUCTURE TO EAVE = 18.38 ft 5602.10 mm
 VOLUME OF STRUCTURE TO EAVE = 855055. cu ft 24212. m³
 VOLUME OF CONTENTS = 808533. cu ft 22895. m³
 VOLUME OF CONTENTS = 6048249. gal 22895114. L
 VOLUME OF CONCRETE FND. = 0. cu ft 0. m³

WEIGHT OF EMPTY CYLINDER ABOVE FLOOR = 248798. lb 112853. kg
 WEIGHT OF ROOF = 0. lb 0. kg
 SNOW (LIVE) LOAD = 0. lb 0. kg
 WEIGHT OF CONTENTS = 50452480. lb 22884842. kg
 FOUNDATION WEIGHT = 0. lb 0. kg
 TOTAL WEIGHT ON FOOTING = 50701276. lb 22997694. kg

WIND SHEAR AT TOP OF FOOTING = 19368. lb 86154. N
 WIND MOMENT AT TOP OF FOOTING = 177990. ft-lb 241. kN-m
 SEISMIC SHEAR AT TOP OF FOOTING = 0. lb 0. N
 SEISMIC MOMENT AT TOP OF FOOTING = 0. ft-lb 0. kN-m



**Model 2400 - Two Tri Nozzle
Agitation System Designed
For 243x19 Slurrystore**



Slurrystore Agitation



- -Model 2400
- -200-250 HP
- -8 inch
- -Dual Tri Nozzle Systems











Feed Room Smart Panel





RE-STORE
XL
UNLOADER

100 VOLTS

MAIN DRIVE CONTROL

STOP	START	STOP	STOP	STOP	STOP
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SPIN DRIVE CONTROL

STOP	STOP	STOP	STOP	STOP	STOP
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59

DANGER

DANGER

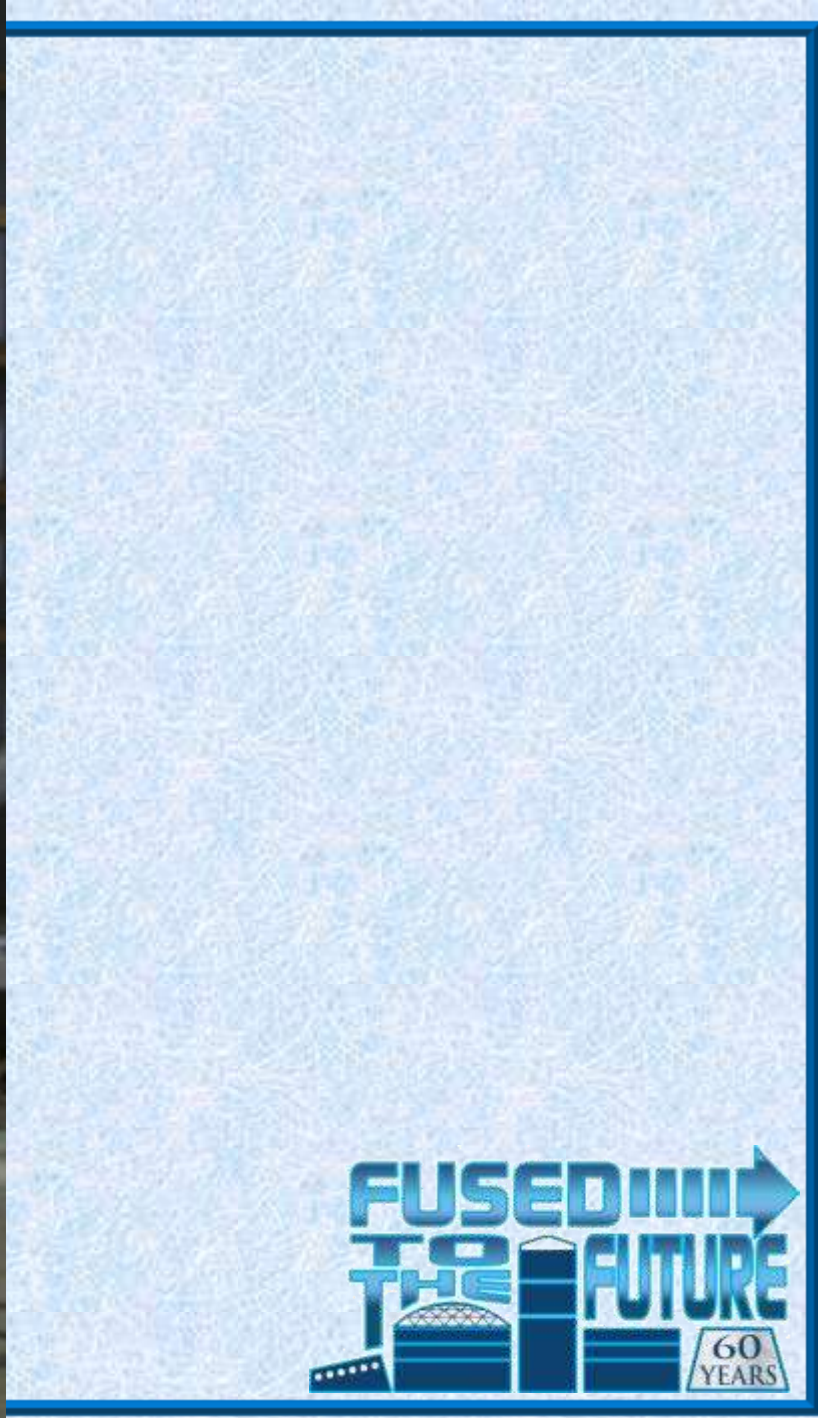
DANGER

XL

A photograph showing a collector box with a scale, positioned between two large white cylindrical tanks. The tanks are suspended from a wooden truss ceiling. The collector box is a dark, rectangular unit with a white label that reads "Collector Box With Scale". The background shows the wooden structure of the building and the corrugated metal walls.

**Collector Box
With Scale**





HM Corn System





www.cumminspower.com

Power Generation

Power Generation





Two Stage Deck System/Unload over 150 tons /hour

