A TechForAg *'Ready-To-Milk'* Modular Parlor

Model: **Dbl. 12 HERITAGE ProTime I HerringBone - Everything New!**

Key Features: **Rapid Exit - Automatic Indexing - All Stainless - Complete AfiMilk Computerized Dairy Management System**

This color indicates equipment you can only get with a Heritage Parlor

Prepared For: **Parlor # 51 -** ***Preliminary*** **Proposal # 101710-1**

HERITAGE ***dbl. 10 ProTime I HerringBone installed at the Armbruster Family Dairy, Muscoda, WI, August 2010***

Qty	Units	Description	Cost to End-user
		HERITAGE ProTime I Stalls - Rapid Exit - All stainless RumpRails; 45" spacing - (2) Support posts per side - stainless - *Rapid Exit* Brisket Bar - stainless	
24	**Stalls**	- Auto-Indexing (w/(4) 3" x 14" stainless Cylinders)	**$ 77,143**

1st Stall Group together with Exit Gate to be removable for easy expansion later on

Modules to be 53" wide with 14" Indexing System to accommodate 1,800 lbs + Cows

All-stainless Germania Brisket Bars. Self-supporting with only a single post in the center. Therefore, no posts for the cows to walk around and no posts for you to clean around.

If one of them goes down from milk fever you can easily get to her with the skid loader.

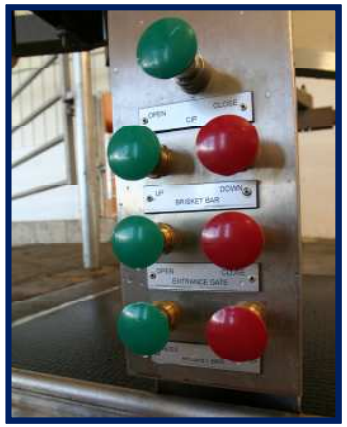
Left: **Dbl. 12 Brisket Bar in indexed position.** ***Right:*** **Brisket Bar in Rapid Exit position**

Automated Cow Traffic Controls - New!

- (4) 3" x 10" stainless Cylinders for Indexing
- (4) 3" x 10" stainless Cylinders for Entrance and Exit Gates
- Exit Gates adjustable for different size cows - ***New Feature! See below***

1 Group

Included with Stalls



Left: **Four Cow Traffic Control Stations, two in front, two in back**

Center : **3" x 10" stainless cylinders operate all gates and auto-indexing**

Right: **Cross bar prevents waiting cows from crowding behind the entrance gate**

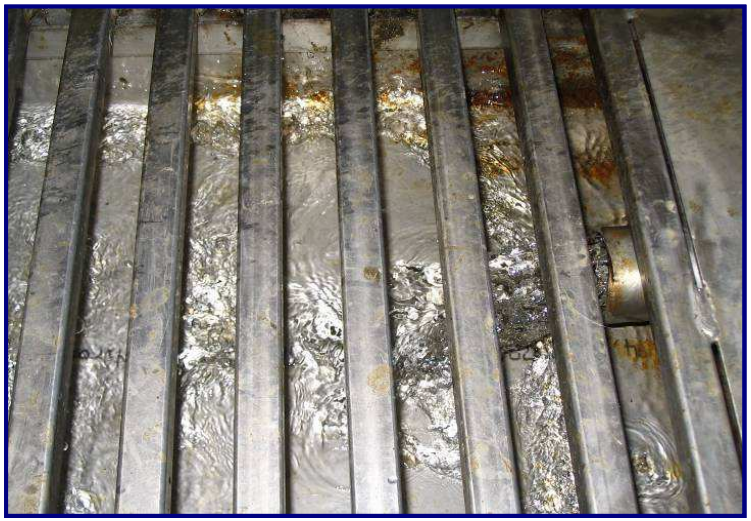
New in 2010: LowProfile Exit Gate - She'll put her head anywhere she likes.
Plus - Gate is adjustable for different size cows

24 *Stalls*

Grates, Gutter and Curb

All Stainless; All-in One Welded Structure

$ 14,229



All-stainless Gutter and Grates - A Heritage exclusive!

Stainless Gutter, Curbing and Grates are one welded unit. For utmost Cow Comfort we chose 3/4" x 3/4" bars, the widest in the industry, bar none. Instead, Galvanized grates with 1/4" wide bars are industry standard.

3 *Units*

15" x 11 ft x *11 ga Extra* Cross-Over Channels

(2) at either end of pit and (2) from Machine Room wall to parlor

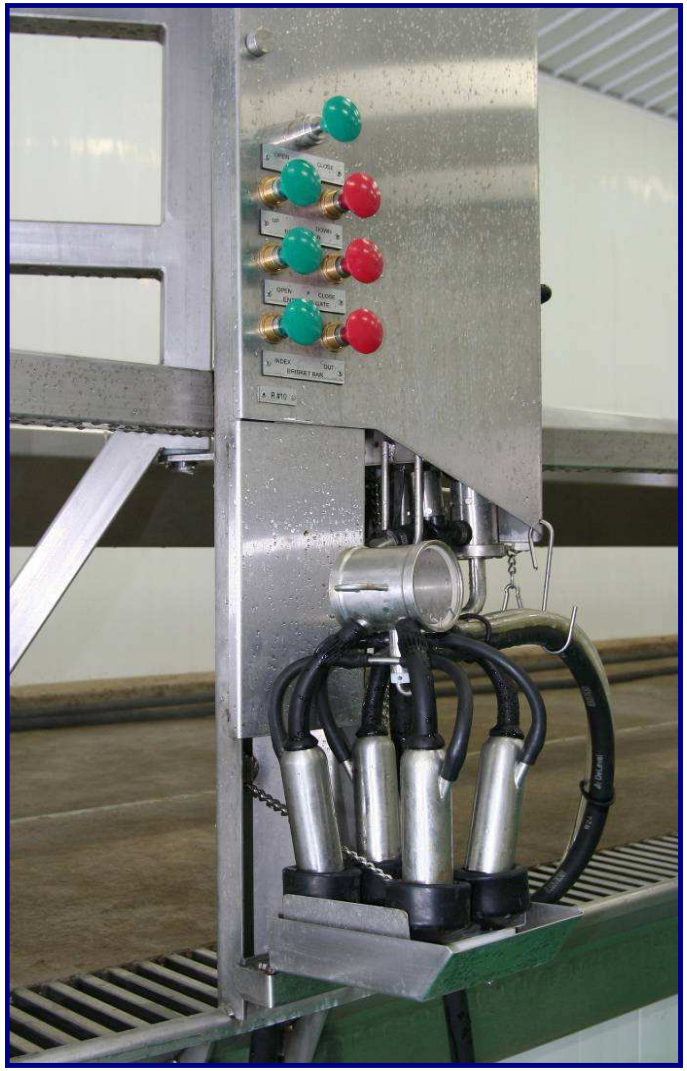
$ 2,621

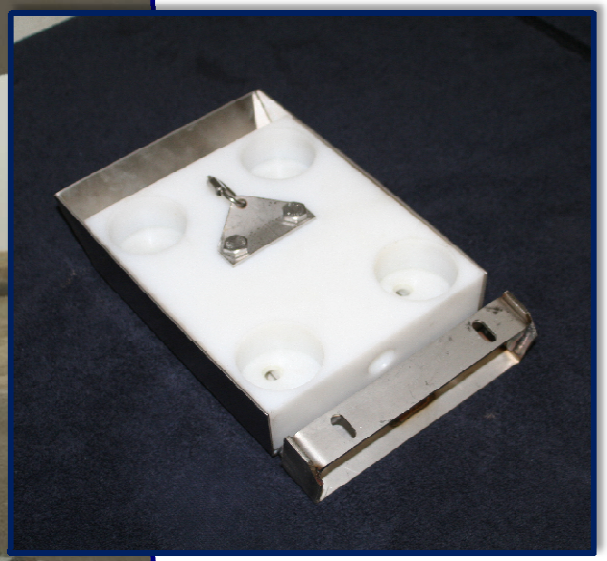
Air Powered CIP Jetter Cup Holders

24 Units

Single push button operated - "Now you see them - then you don't"
Match Jetter Cups to Inflation - *Brand & Model #* _____

Cost included in price of Stalls

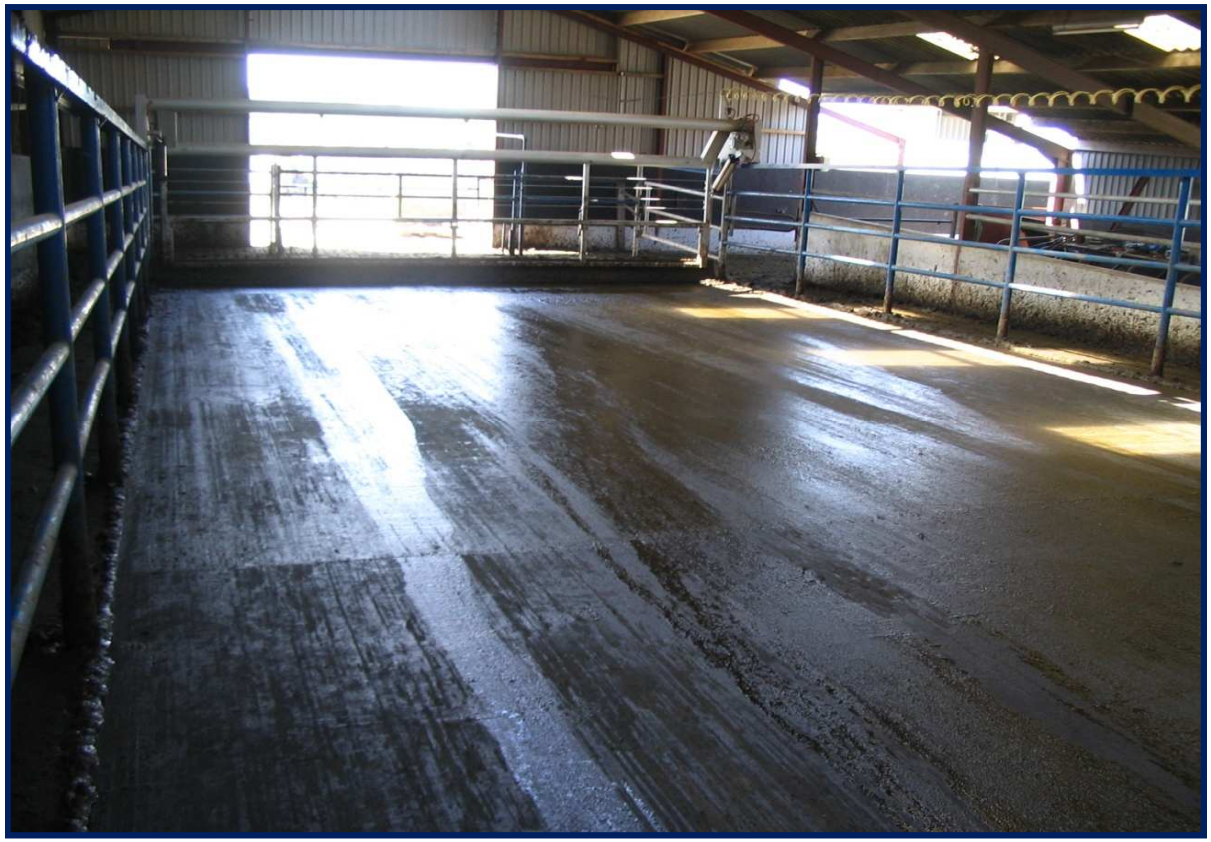




Automated Jetter Cup Holders …open for wash-up ***and closed for milking*** ***New in 2010 - No more Rubber Cups to replace***

If you are milking 3X in a double 12, push-button operated CIP Cup Holders eliminate 144 manual operations per day

		HERITAGE **Heavy Duty *All-Stainless* All-Air Operated Crowd Gate with Automatic Manure Scraper** **- Starts automatically with 'Brisket Bar Up' - stops after 50 sec** **- Stops automatically at top and bottom of Holding Pen**		
1	24 ft x 70 ft	**- 7" instead of 6" diam. wheels**	**$**	**26,250**
		C-4 x *6.5 lbs* Crowd Gate Channel **Welds very straight over 6 ft Span/Distance between Vertical Posts - Does not require any other re-enforcement or support; cold galvanized**		
150	**ft**		**$**	**2,571**



Heavy Duty, Germania-Style Crowd Gate; Air-Powered Gear Motor - no electric controls what-so-ever. Lifts anywhere in Holding Pen and returns overhead cows to rear of pen. Air Motor shuts off automatically, both in front and back.

Holding Pen Fence, galvanized

with 3" verticals @ 5 ft on center per 20 ft section of fence;
(4) 1 1/2" Pipe Horizontals @ 12" o/c

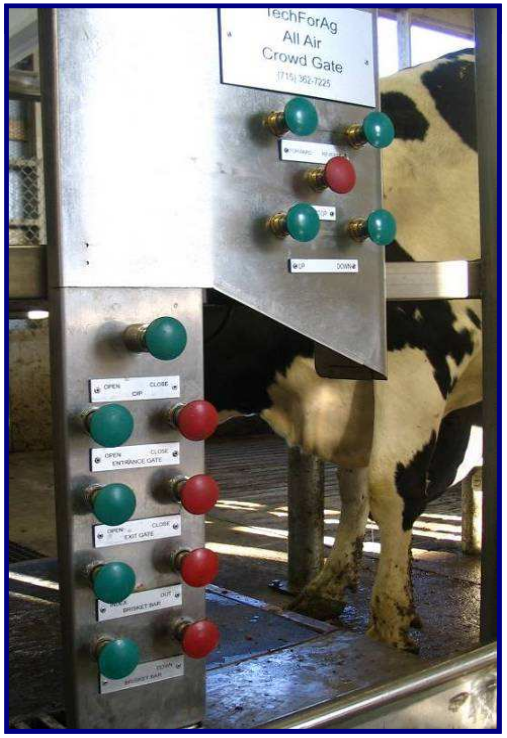
		Normally, your Contractor provides the Holding Pen Fences.		
0	**ft**	**We'll provide them if he doesn't want to or can't @ $74/ft les**	**$**	**-**

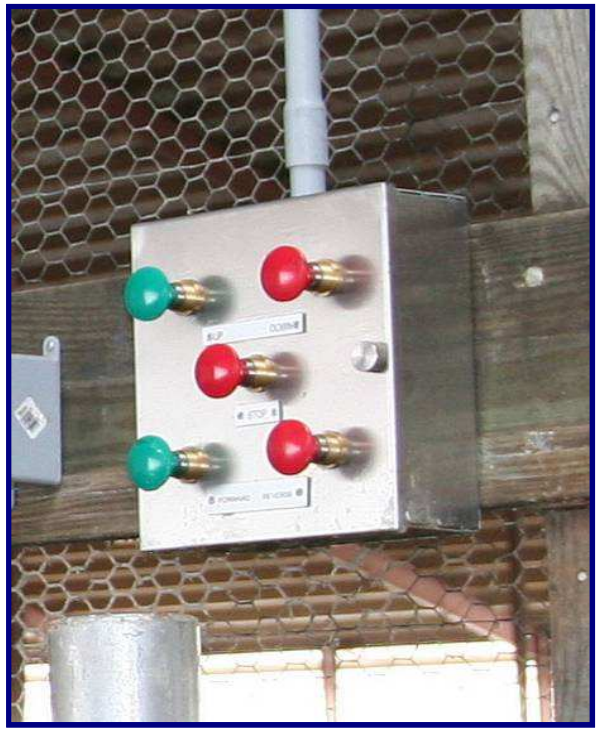
2 x 10 ft V-Lane Fences from H.P. into Parlor…

0	**ft**	**@ $74/ft less 15%**	**$**	**-**

Cost include with Crowd Gate

Three Crowd Gate Control Stations:



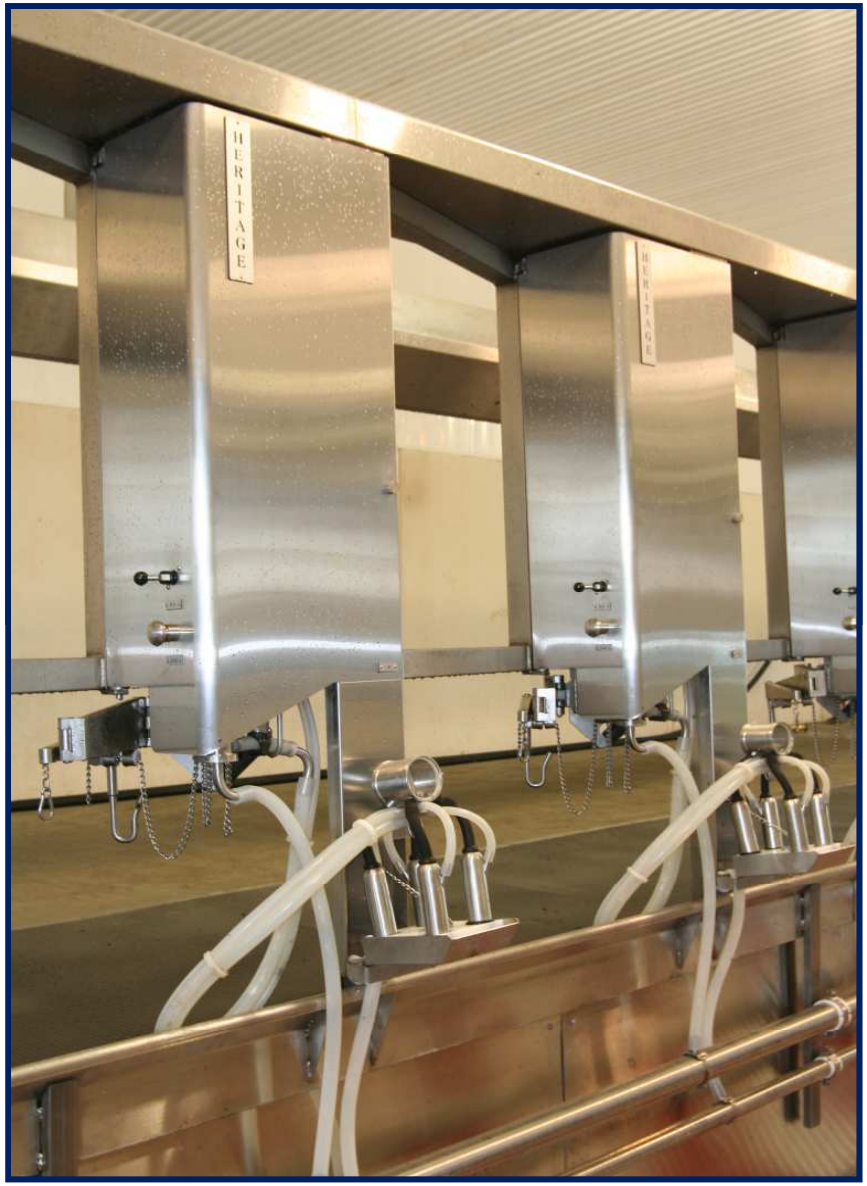


Left: **Main Control station in back of parlor;**

Center: **Remote Controls in back of Holding Pen**

Right: **Two extra buttons in front of parlor to reduce walking**

24 *Units*	**HERITAGE** **Model SB Arm TakeOffs - New!** **All-Air, All-stainless,** with spring-loaded clutch assembly for arm ***New in 2010 - Now with Automatic Pulsation Shut-Off***	**$ 37,543**



Left : **Germania Model SB Arm TakeOffs integrated into ProTime I Stalls.** ***Right:*** **Model SB added onto PT-II Stalls**

HERITAGE

Top Outlet Claw-Clusters

- Air Forks
- 06 Shells
- 60" Milk Hose
- 108" Pulsation Hose
- Short air tubes
- Liners of your choice: ***Brand & Model_____***

24 Units - with **Delatron** Pulsators **$** **15,040**

New Feature in 2010 -

- Rubber Goods upgraded to All-Silicon - (Except inflations)

HERITAGE **Top Outlet Claw hangs well balanced on the arm for milking and equally so in the rest position.**
All-stainless body makes for minimal maintenance - No plastic nipples to break.

Afi 'Essential' Computerized Dairy Management System - New!

24	Units	Afimilk New Style Milk Meters with: Afi Essential Key Boards Butterfat Samplers Water-tight Connection Boxes	$	42,343
24	Units	Afi Individual Stall Antennas	$	15,703
2	Unit	Switch Box for Antennas (Collects wires from up to 16 antennas and forwards signals to Ideal Controller)	$	3,746
1	Unit	Ideal Controller (Supports 48 antennas or three Switch Boxes)	$	3,340
1	Unit	Communications Card (To be insstalled in a dedicated Computer; Communicates with up to 64 Meters; Computer not included)	$	2,539
2	Units	Transformers	$	694
2	Unit	Afi Dairy Software	$	6,306
24	Groups	MAC Valve, Inlet Ellbow, Vacuum ShutOff Valve, 7/8" Pipe Line Inlet, Silicone Hose, etc	$	4,310
1	Set	Wires, Hoses, Conduit and fittings	$	1,786

Pulsation System

- 3" PVC Pulsation line with hoses, fittings & wiring harness
- 3" PVC FreshAir line with fittings & hoses
- (4) FreshAir Filters

24	**Stalls**	- (2) 3" PVC Cross-Overs in front & back	**$**	**2,229**
		- Pulsators included with Claw-Clusters		

20-Unit Delatron Pulsation Controllers

3	**Units**	***Electrician provides 120 volt receptacle nearby - bid separately!***	**$**	**4,500**

3rd Controller prewired with plugs for instant change-over. No tools required.

HERITAGE

CIP-Receiver Combination Group

24	Stall Equiv.	This group combines the traditional Receiver Group and the CIP System into a single pre-assembled aggregate - pre-plumbed, pre-wired and palletized	$	27,257

26" diam. x 24/34" Receiver - which is also the Wash Vat for the CIP Cycle
(Nominal Capacity of 80 gl. - Dbl. 12 estimated to use 60 or 65 gl/fill)

- AW-style Moisture Trap with 3" Vac inlet & 3" U-bend

'- (1) 4" x 33" Sock Milk Filters with 1 1/2" side outlet
- 1 1/2 hp Milk Pump
- Variable Speed Controller for Milk Pump

- (2) LLC Probes for milk and water levels
- 1" Input Group with hot and cold water valves + (3) chemical inputs

Water supply lines to Omal valves should be at least 1 1/4" diameter.
Otherwise takes too long to fill receiver

- 1 1/2" Ball check valve with air blow-out for rest milk

'- HERITAGE C-12.5 **Pipe Line Washer** with automatic Chemical Injection
- All MAC Interface Valves and Relays

Electrician supplies:
- 220 Volt, _____single phase to this Group

Plumber s upplies:
- Hot & Cold water to the input group
- Cold Water to the Plate Cooler

Includes Stand-by Milk Pump with pre-wired Twist-Lock Plugs

Also a Stand-by Variable Speed Controller, prewired as well

1	Unit	***4,500 lbs/hr Dual Pass Plate Cooler***	$	6,264

HERITAGE CIP-Receiver Combination Groups

Model 1500 to be installed at Steve Paul's new dairy near Whitewater, WI. as part of a dbl. 10 ProTime I, exp to dbl. 16

Includes Lock-out Switch at Milk Tank - PipeLine Washer will not switch to 'Milk' until discharge line is connected to Milk Tank

3" Pipeline

166	ft	**Single Loop, double slope Lo-line,** with nipples, fittings, all clamps, gaskets and brackets.	$	5,446

2" CIP Line

125	ft	- with nipples, fittings, all clamps, gaskets & brackets. - Lines will be dead-ended at front of parlor - includes Sweep Y at Culvert	$	2,444

1 1/2" Discharge line

80	ft	**from CIP-Receiver Group to Milk Tank (Bottom Loading) and back to CIP Rec. Group; incl. Special Adapter and Safety Switch at Miulk Tank, i.e. entire parlor is deactivated until you connect the discharge line to the tank**	$	2,286

1 Group

New Feature in 2009

Calf Milk Dispenser - Collect Warm Milk at Any Time
(Can also be installed to collect calf milk outside milk house)

Cost included with Discharge Line

(2) 66" Stainless Curb Extensions in Front

11	ft	from Exit Gate to Breezeway Wall. Prevents manure from running into the pit; Includes concrete guard. These will be a permanent part of the parlor.	$	471

(2) 15-ft Light-Duty Curb Extensions (???)

0	ft	**(These will become obsolete when you expand to dbl. 16)**	$	-

(2) 8 ft Temporary Fences (???)

0	ft	**to keep cows from wandering around the front of the parlor**	$	-

New Feature in 2009

0	*ft*	**Stainless Curbing - Parlor-Pit to Holding Pen**	$	-

1	*Group*	**Compressed Air System** **- (1) 7.5 hp Atlas Copco *Srew-Type* Compressor** **- With Twin Tower Drier, dries air to minus 10 dgr**	**$ 13,393**

This Group large enough for dbl. 16

Eliminate the Middleman! You could possibly save some $4,000 on this Group if you were to buy it directly from our supplier - to be discussed

Electrician ***provides 220V to this group ___single or ___3 Phase?***

10 hp Atlas Copco Srew Compressor ***Twin Tower Drier dries air to minus 10 dgr***

		15 Hp Vacuum System with Sutor-BuiltLobe-Style Pump		
1	**Unit**	**Includes Frequency Controller/Variable Speed Drive (?)**	**$**	**15,306**
80	**ft**	***6" PVC Header Lines with 3" lines and fittings to Pulsation and Receiver Group, plus Pre-filter, Slide Valve, Check Valve, Safety Valve, Test Port, Clean-out Port, etc.***	**$**	**1,150**

Eliminate the Middleman! You could possibly save some $2,500 on this Group if you were to buy it directly from our supplier - to be discussed

Electrician provides 220 volt single phase to this Group - Bid separately!___single or _____3 phase?

6" Header Line supplies CIP Receiver Group and Pulsation System

Customer provides own Stand-by Vacuum Pump

TechForAg moves this pump into Machine Room and provides 3" PVC to connect it into the 6" Header lines - included in price of PVC Vaccum System

		Stainless Wall Panels		
0	ft	4 ft x 10 ft x 16 ga sheets, # 4 polish	$	-
		Divert Gate Actuators & Controls		
0	Groups	3" x 14" Stainless cylinders w/EV-125 Quick Exhaust Valves, Versa 'Open' & 'Close' Push Buttons	$	-
		4 ft x 4 ft stainless Divert Gate		
0	Units	Built from 2 1/2 x 2 1/2 x 11 ga square tubing Divert exiting cows into a catch pen.	$	-
		On-Farm Spare Parts Kit		
1	*Group*	Includes all essential parts for at least (1) year of operation (4) sensors, a retract cylinder, at least (1) of each air valves, an extra LLC, seal kit for the milk pump, PC Board for the PL Washer, an extra Pulsator, etc.	$	4,643
1	Pcs	**Double Compartment Sink**	$	643
		Accessories Group		
1	Group	Hand Wash Sink, Filter Sock Holder with (1) box of Filters, SST paper towel holder, soap dispenser, SST bracket for wash-down hose, etc.	$	536

110	*ft*	**(2) 55 ft long ft long 1 1/4" Wash-Down Hose,** **with original Brass Fire-Hose Nozzles**	**$**	**1,257**
25	**ft**	**(1) 20 ft 1" hose for Milker's Pit**	**$**	**214**
2	*Units*	**Air-Powered, all-stainless Hose Reel** **to wind up (2) Wash-Down Hoses automatically** **(Hose Reel does not work in the Pit)**	**$**	**4,786**
480	**squ ft**	**Pit Mats for 8 ft wide x 60 ft long pit floor** **Color of your choice - Blue or green**	**$**	**3,429**

Eliminate the Middleman! You could possibly save $1,000 on these Mats if you were to buy them directly from our supplier - to be discussed

1	*Unit*	***Stainless*** **Pit Steps** **from parlor into Holding Pen; 4 steps - 30" wide**	**$** **857**

Stainless Breezeway Fence

with 3ft 'Side Wing'

- Made from 2.5" x 2.5" square stainless tubing
- 8 ft + 3 ft long, with
- (2) Horizontals and

2	Unit	**- (4) 3 ft Verticals**	**$**	**3,011**

1" Rubber Mats For the Cow Platforms

24 Stalls **$ 3,429**

Eliminate the Middleman! You could possibly save $1,000 on these Mats if you were to buy them directly from our supplier - to be discussed

2 *Units*	***All-Stainless*** **Modular Platforms for 12 stalls each**

The structural bases of the Modules; Height of your concrete cow platform should be 34" - **if you are comfortable with a 38" working height.**

To be discussed!

$ 4,014

We build our parlor modules on platforms, a frame work made form 2" x 4" steel tubing and usually 53" wide x 50 ft long for the typical dbl. 12. Normally, we slide the Modules into place on this steel frame work, pushed by a Skid Loader.

Parlors up to dbl. 12 come as two Modules, left and right. We have tight control over completion dates and rarley miss agreed-on delivery dates by more than a week.

Summary Page

		Sub-Total Materials	**$**	**359,421**
		Less 15% Factory Direct Discount	**$**	**(53,913)**
		Pre-Installation Labor and Supplies provided by TechForAg at it's factory to convert the above materials into a *Ready-To-Milk* Modular Parlor; ***Calculated at 17% of cost of Materials***	**$**	**61,102**
		Net Cost of Parlor	**$**	**366,609**
2	**Miles**	**Freight - @ 550/truck (within Staet of Wisconsin)** **3** trucks for this project	**$**	**1,100**
		On-Site Installation Labor, Supplies & Expenses **Covers several items:**		
		1. Time (10 working days of 12 hrs) and Expenses of two Parlor Specialists, who will be on-site for both installation and start-up of milking.	**$**	**8,400**
		2. Four trips - driving time at 3 hrs/trip	**$**	**840**
		3. On-Site Installation of Afi System - two Technician, two days	**$**	**2,640**
		3. Afi Specialist Training & Travel Expenses	**$**	**1,500**
		Grand Total **Parlor with Freight & Installation**	**$**	**381,089**
		Per Stall	**$**	**15,879**
0	**Units**	**ID Tags, incl. Straps and Wedges**	**$**	**-**

Optionally Available

Afi 'Essential' Milk Meter System - New!

24	Units	Afimilk New Style Milk Meters with: Afi Essential Key Boards Butterfat Samplers Water-tight Connection Boxes	$	42,343
0	Units	Afi Individual Stall Antennas	$	-
0	Unit	Switch Box for Antennas (Collects wires from up to 16 antennas and forwards signals to Ideal Controller)	$	-
0	Unit	Ideal Controller (Supports 48 antennas or three Switch Boxes)	$	-
0	Unit	Communications Card (To be insstalled in a dedicated Computer; Communicates with up to 64 Meters; Computer not included)	$	-
2	Units	Transformers	$	694
1	Unit	Afi Dairy Software	$	2,957
16	Groups	MAC Valve, 3/4" Ellbow, Vacuum ShutOff Valve, 7/8" Pipe Line Inlet; 7/8" Silicone Hose, etc.	$	2,873
1	Set	Wires, Hoses, Conduit and fittings	$	1,786
		Sub Total Materials	$	50,653

Pre-assembly / Pre-installation in the Factory	**$**	**6,078**
Freight		**N/C**
GrandTotal I	**$**	**56,732**
On-Site Installation, one Technician, two days	**$**	**1,320**
Afi Specialist Training & Travel Expenses	**$**	**1,500**
Grand Total II	**$**	**59,552**
Per Stall	**$**	**2,481**

AW Milk Measuring Containers

Remanufactured

24	**Units**	**with 2" Vacuum Wash Line, (2) AW Control Boxes**	**$**	**23,829**

Germania Accuweigh 90 (65 lbs available)

- Hold all of the milk for quick check before letting the cows go

- Drain and re-vacuumize automatically when cows leave

- Provide great vacuum reserve right next to the cow

		Germania Back Flush System (Remanufactured), incl. - Stainless Turn -Valves - (2) 14 gl.Vacuum Sweep Tanks - (2) Power Manifolds with (3) two-way Valves each - (2) Control Boxes		
24	Stalls	- (1) Iodine Injection Group with B-13 LiquiMatic Pump - (4) Milk-Sweep Relays - 1 1/2" stainless BF lines below curb	**$**	**22,286**
		Plumber supplies ***- Cold water to the Iodine Injection Group.*** ***- The PVC lines from the Iodine Injection Group to the (6) 2-way valves of the (2) Power Manifolds*** ***Bid separately!***		
6	**Units**	**15" x 42" Stainless Grates for front of Cow Platform**	**$**	**1,637.14**
9	**Units**	**18" x 42" Galvanized Manure Grates for Holding Pen**	**$**	**1,247.14**

Terms - I

If production at TFA starts several months in the future

1) 15% down at signing of contract

2) 40% on start of production

3) 40% on delivery of parlor to the dairy

4) 5% on start-up of milking

5) $1,000 Rebate for prompt payment

Terms - II

If production at TFA starts more or less immdiately

1) 35% at signing of contract, plus

2) 60% on delievery of parlor to the dairy

3) 5% on start-up of milking

4) $1,000 Rebate for prompt payment

Please Note

18 Months warranty on all materials. There's no charge for labor nor mileage for 180 days. Does not apply to the Compressed Air Group and the Vacuum Group, for which we pass on the manufacturer's warranty

Warranty starts *after* parlor has been paid for in full.