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

## *Model: Single* 16 HERITAGE ParaBone - New!

***Key Features: Rapid*** **Exit - Automatic Indexing - All Stainless**

***Preliminary Proposal Prepared For:*** **WS parlor # 182 - 111015 - 1**

***Tilted RumpRails with Automatics***

***Rump Rails and Brisket Bar***

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **16** | **Stalls** | **Heritage ParaBone Stalls**<br>- All stainless RumpRails; 30" spacing; 4" slant<br>- Brisket Bar will have (2) Support posts - stainless<br>- *Rapid Exit* Brisket Bar - stainless<br>- Auto-Indexing (w/(2) 3" x 10" stainless Cylinders | | | **$ 33,052** |

***Modules to be 66" wide with 10" Indexing System to accommodate 1,800 lbs + Cows***

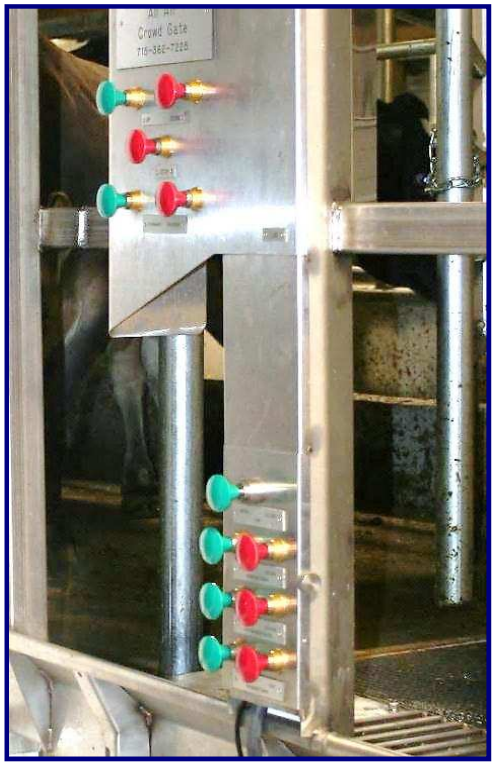
***All-stainless Brisket Bars***

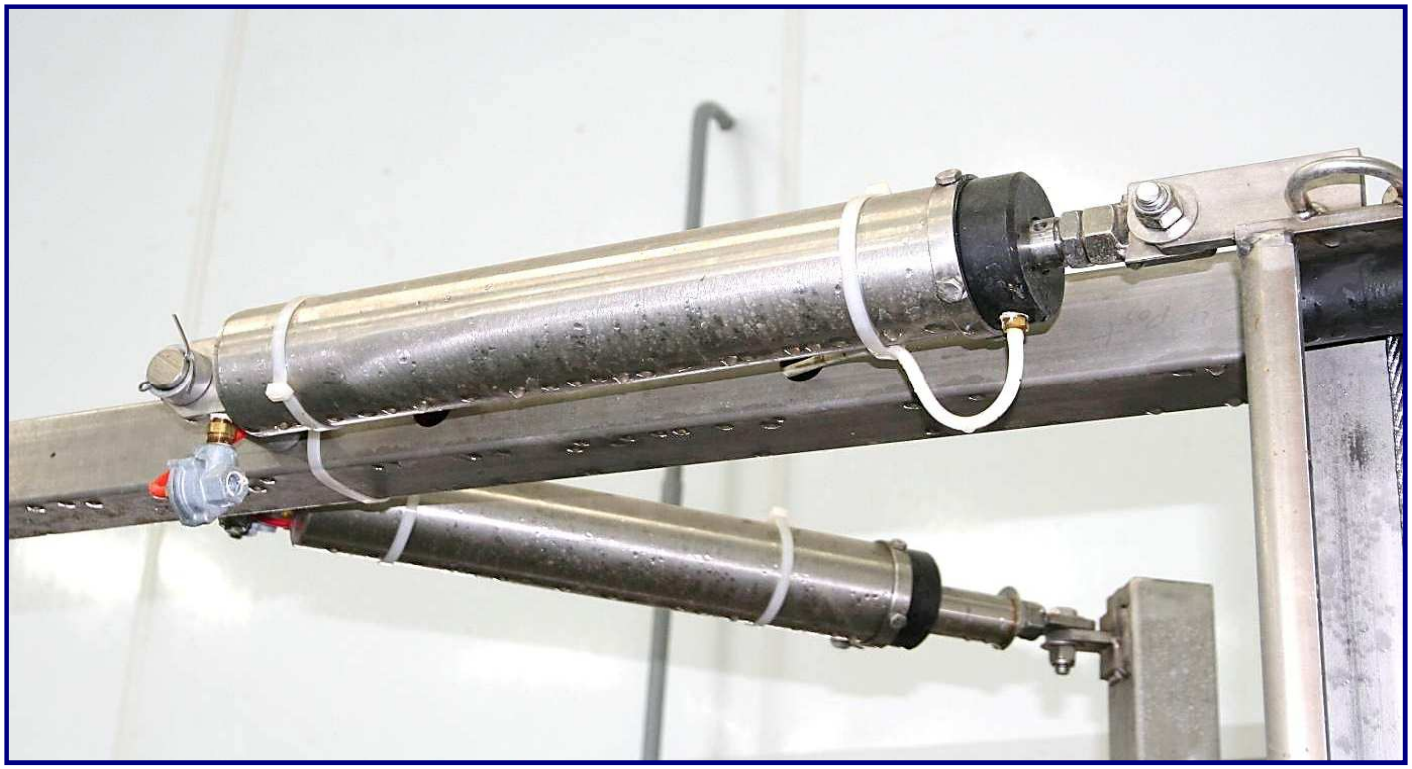
**If one of them goes down from milk fever you can easily get to her with the skid loader**

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

| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 1 | Group | **Automated Cow Traffic Controls - New!**<br>- (2) 3" x 10" stainless Cylinders for Indexing<br>- (2) 3" x 10" stainless Cylinders for Entrance and Exit Gates<br>- Brisket Bar Up - Down<br>- Main Control Panel with (6) Control Buttons<br>- Remote Control Panel in front to reduce walking | | | ***Included in Cost of Stalls*** |

***All-stainless TechForAg cylinders are easy to service. Just remove (4) bolts....***



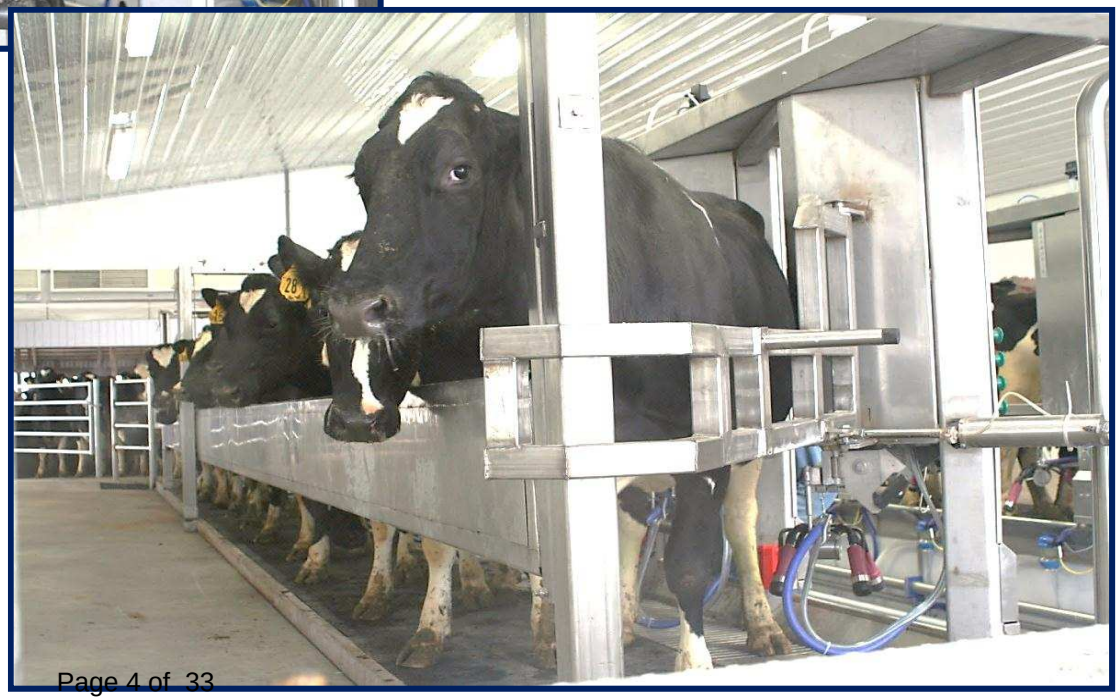


**Cow Traffic Controls at last stalls on either side of parlor. Plus (2) remote panels in front.**
**5-Button Crowd Gate controls on one side only. Stainless cylinders operate all Gates & Automatic Indexing**

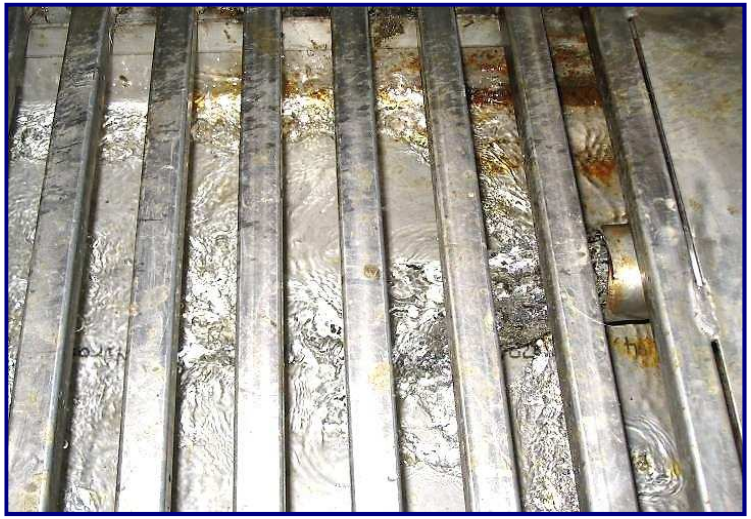
| | | | |
|---|---|---|---|
| **1** | **Group** | **Rapid Exit Lift Groups**<br>**Lift Cylinder (5"x42" aluminum), (3) Pulleys, Cable, (2) Swivels, Hydraulic Hose & fittings, etc.** | ***Included in price of Stalls*** |

## *New Feature*

***Freedom to put her head anywhere she likes….***



| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 16 | Stalls | **Stainless Curbing, Gutter and Grates**<br>***All Stainless;*** All-in One Welded Structure | | | $ 8,286 |



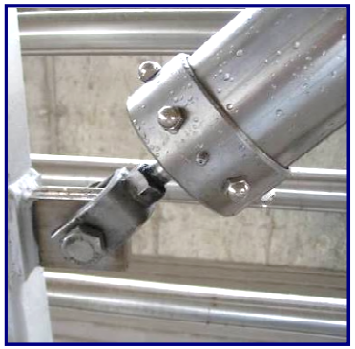
**Stainless Gutter, Curbing and Grates are one welded unit. For utmost Cow Comfort we chose 3/4" x 3/4" bars, the widest in the industry, bar none.**

| | | | | | |
|---|---|---|---|---|---|
| 0 | | **Straight Curbing** | | | $ - |
| 8 | Groups | **Idaho-Style Overhead Support Structure for RumpRails (6"x 5" SST Beam w/ supports at every 2nd stall)** | | | $ 1,357 |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 0 | Units | **Air Powered CIP Jetter Cup Holders**<br>**Single push button operated - "Now you see them - then you don't"**<br>**Match Jetter Cups to Inflation - Brand & Model # _____** | | | **Not available for ParaBone Parlors!** |

| | | | | | |
|---|---|---|---|---|---|
| 16 | Units | **Fold-Up CIP Cup Holders**<br>**(Similar to ProTime I, but manually operated)** | | | **$ 7,200** |
| 0 | Units | **Traditional CIP Cup Holders**<br>**(Slide Rubber Cups into a stainless Rack)** | | | **$ -** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **1** | 25 ft x 75 ft | HERITAGE<br>**Heavy Duty All-Air Operated *Cold Galvanized* Crowd Gate**<br>**(w/o Manure scraper)** | | | **$ 21,395** |
| **0** | **ft** | **C-4 x 6.5 lbs Crowd Gate Channel (Hot-dip galavanized)** | | | **$ -** |



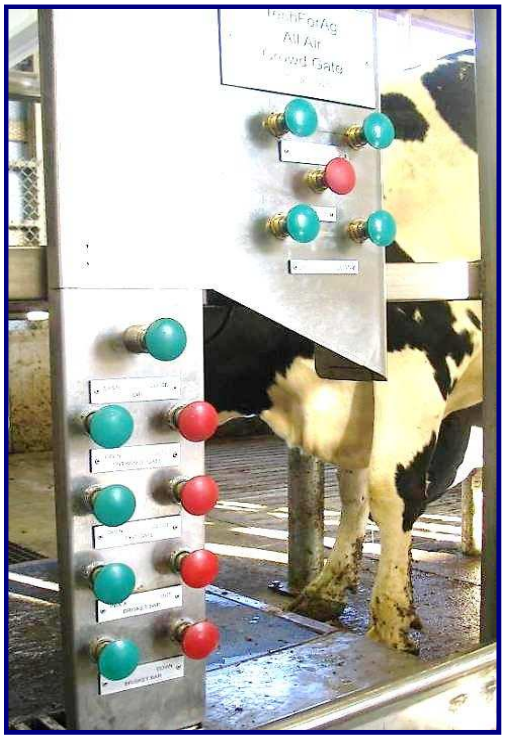
**Heavy Duty, Germania-Style Crowd Gate; Air-Powered Gear Motor - no electric controls what-so-ever. Lifts anywhere in Holding Pen**

**See [www.TechForAg.com](http://www.TechForAg.com) for more information**



***Note: Lift Cylinders operate on full system pressure.***
***A Pressure regulator supplies low pressure to the air motor!***

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 0 | ft | **Holding Pen Fence, galvanized**<br><br>**with 3" verticals @ 5 ft on center per 20 ft section of fence;**<br>**(4) 1 1/2" Pipe Horizontals @ 12" o/c**<br><br>**Normally, your Contractor provides the Holding Pen Fences.**<br>**We'll provide them if he doesn't want to or can't @ $74/ft les** | | | **$ -** |
| 0 | ft | **2 x 10 ft V-Lane Fences from H.P. into Parlor…**<br>**@ $74/ft less 15%** | | | **$ -** |
| | | ***Three Crowd Gate Control Stations:*** | | | **Cost include with Crowd Gate** |



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

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

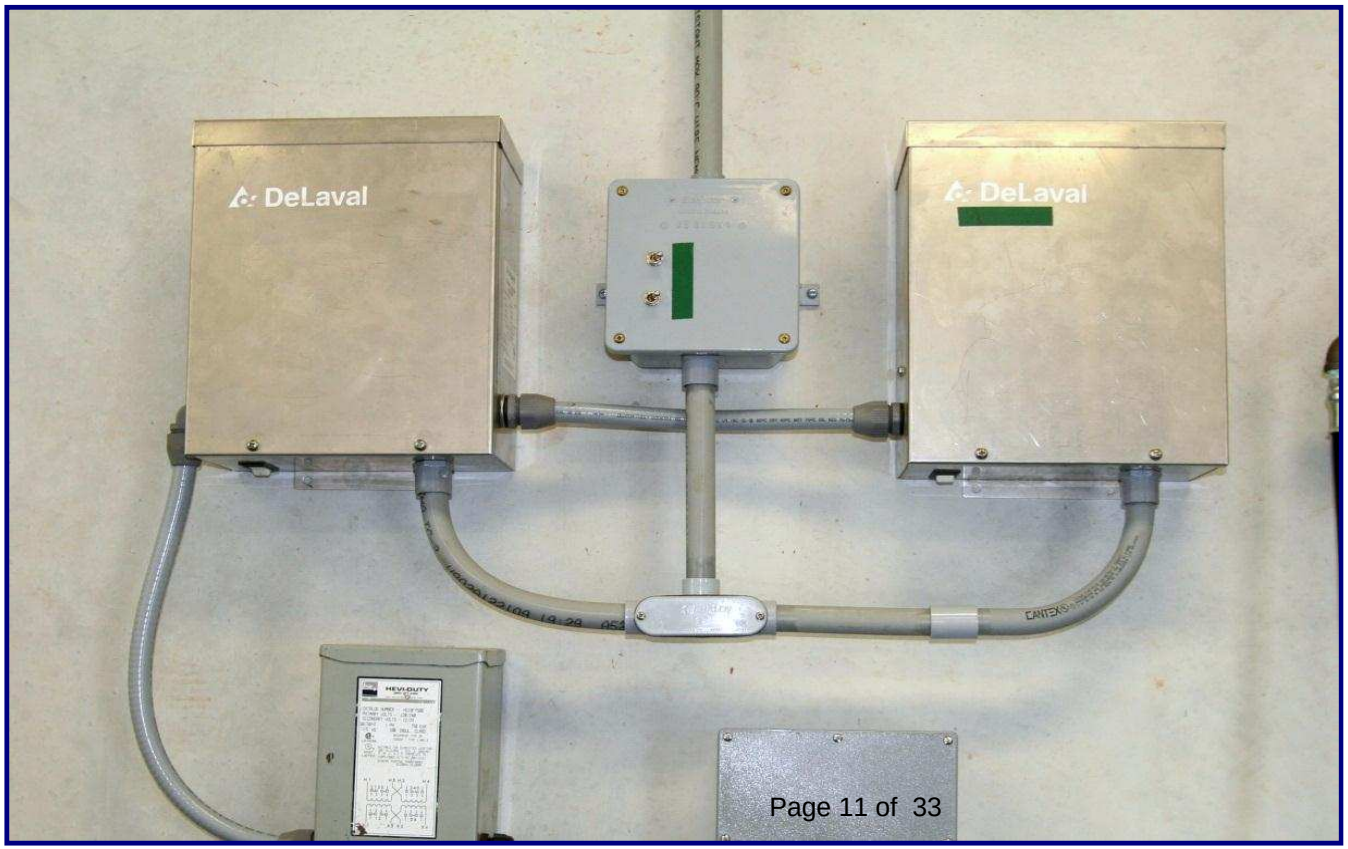
***Right:*** **Two extra buttons in front of parlor to reduce walking**

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **16** | Units | HERITAGE<br>**No-ArmTakeOffs - New!**<br>**All-Air - All-stainless**<br>**(**Germania Model C style) | | | **$ 18,171** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **16** | Units | **Original Germania**<br>**Top Outlet Claw-Clusters - New!**<br>- Air Forks<br>- 06 Shells<br>- 60" Milk Hose<br>- 108" Pulsation Hose<br>- Short air tubes<br>- Liners of your choice: ***Brand & Model -***<br>- Stranko Pulsators - New! | | | **$ 12,767** |
| | | ***New Feature***<br>***- Rubber Goods upgraded to All-Silicon - (Except inflations)*** | | | |

**Germania's Top Outlet Claw hangs well balanced on the arm for milking and equally so in the rest position.**

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **16** | **Stalls** | **PVC Pulsation Lines - New!**<br><br>- 3" PVC Pulsation line with hoses, fittings & wiring harness<br>- 3" PVC FreshAir line with fittings & hoses<br>- (2) FreshAir Filters<br>- (2) 3" PVC Cross-Overs in front & back | | | **$ 1,486** |
| | | **- Pulsators included with Claw-Clusters** | | | |
| **2** | **Units** | **16-Unit Strangko Pulsation Controller - New!**<br>***Electrician provides 120 volt receptacle nearby - bid separately!*** | | | **$ 3,980** |



| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| | | HERITAGE<br>**CIP-Receiver Combination Group** | | | |
| **16** | **Stall Equiv.** | This group combines the traditional Receiver Group and the CIP System into a single pre-assembled aggregate - pre-plumbed, pre-wired and | | | **$ 30,194** |
| | | 24" diam. x 24/34" Receiver - which is also the Wash Vat for the CIP Cycle | | | |
| | | - AW-style Moisture Trap with 3" Vac inlet & 3" U-bend | | | |
| | | '- (1) 4" x 33" Sock Milk Filters with 2" side outlet<br>- (1) 1 1/2 hp Milk Pumps<br>**- (1) Variable Speed Controller for Milk Pump, one for stand-by** | | | |
| | | - (2) LLC Probes for milk and water levels<br>- 1" Input Group with hot and cold water valves + (3) chemical inputs | | | |
| | | ***Water supply lines to Omal valves should be at least 1" 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 (3) peristaltic chemical pumps | | | |
| | | ***Electrician supplies:***<br>***- 220 Volt, __X___single phase to this Group*** | | | |
| | | ***Plumber supplies:***<br>***- Hot & Cold water to the input group***<br>***- Cold Water to the Plate Cooler*** | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | Page 12 of 33 | | | |

**Model 1500 installed at Steve Paul's new dairy Whitewater, WI. November 2009; Dbl. 10 PT-I Expandable to dbl. 16**

| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 0 | Group | **Traditional Receiver Group - New!**<br>**18" Receiver, 1 1/2hp Milk Pumps with Dog House, 4" x 44" Filter, Moisture Trap & U-Bend, Flapper Valve, LL Probes & Controller, Short Plug - Long Plug, Air Blow Valve, etc.** | | | $ - |

| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 0 | Group | **Automatic CIP System - New!**<br>**Horizontal Wash Sink, Water Level Sensor, Hot & Cold Water Valve, Heritage PipeLine Washer, (3) Peristaltic pumps for chemicals, (1) Air Injector installed at the Receiver Groups 2" x 2" Divert/3-Way Valve at sink, Automatic Drains** | | | $ - |

| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 16 | Stalls | **3" Lo- Lines**<br>**Double slope, single loop,** with nipples, fittings, all clamps, gaskets and brackets. Line slopes toward HoldPen | | | **$ 5,008** |

| | | | | | |
|---|---|---|---|---|---|
| 16 | Stalls | **2" CIP Line - New!**<br>- with nipples, fittings, all clamps, gaskets & brackets.<br>- Both lines will be dead-ended at front of parlor | | | **$ 1,189** |
| 50 | ft | **1 1/2" Discharge line - New!**<br>**from CIP-Receiver Group to Milk Tank (Bottom Loading) and back to CIP Rec Group;** | | | **$ 1,357** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| | | **Calf Milk Dispenser** | | | |
| **0** | **Group** | **Collect warm milk at any time** | | | **$ -** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **1** | Group | **7.5 hp Ingersol-Rand T-30 Compressed Air System**<br>**Remanufactured**<br>**incl. a New Twin Tower Drier, dries air to minus 10 dgr** | | | **$ 5,357** |
| | | ***Electrician** provides 120V to this group, single Phase* | | | |

*(2) 5 hp Speedair Compressors , modularized;*

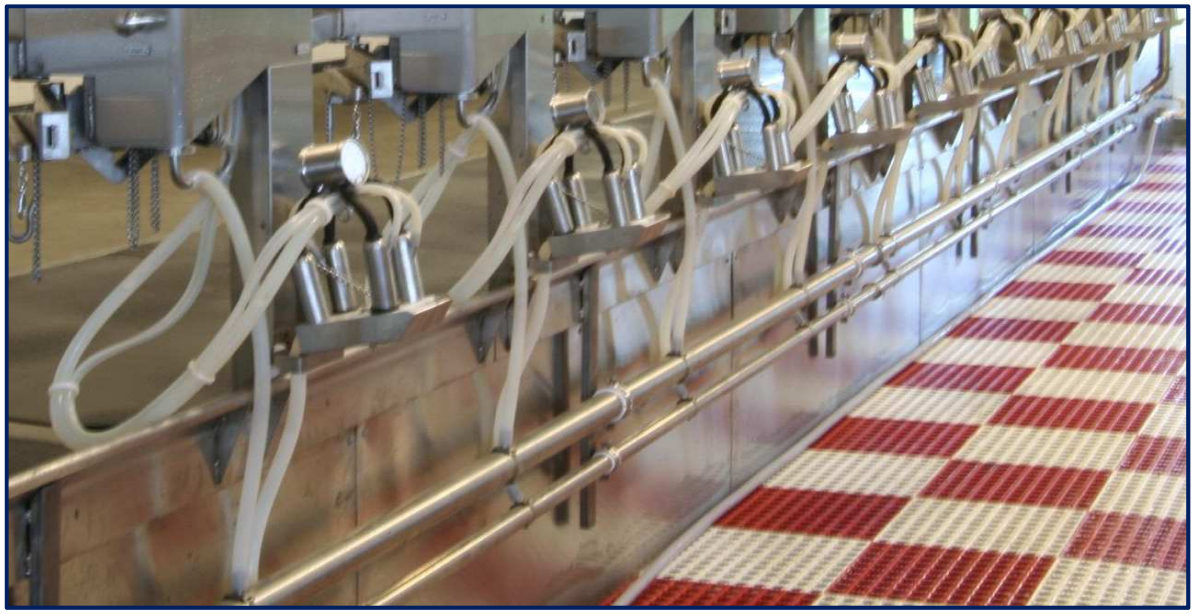
*Twin Tower Drier dries air to minus 10 dgr*

| Qty | Units | Description | | | Cost to End-user |
|---|---|---|---|---|---|
| 1 | Unit | **7.5 Hp Vacuum System with Lobe-Style Pump -**<br>**Remanufactured**<br>**Sutor-Built Lobe-style Blower Pump**<br>**Preassembled for instant installation** | | | $ - |
| 1 | Unit | **Frequency Controller/Variable Speed Drive - New!** | | | $ 2,857 |
| 1 | Group | ***6" PVC Header Lines with 3" lines to Pulsation and Receiver Group; Also includes Pre-Filter, Check Valve, Test Port, Safety Valve, Slide Valve, Drains.*** | | | $ - |
| 1 | Unit | **Sentinel Model 350 Vacuum Regulator** | | | $ 807 |
| | | ***Electrician** provides 220 volt single phase to this Group - Bid separately!___single or _____3 phase?* | | | |

**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**

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **0** | **sqft** | **Stainless Covering for Pit Wall and/or Parlor Walls**<br>**4 ft x 10 ft x 16 ga sheets, # 4 polish** | | | **$ -** |

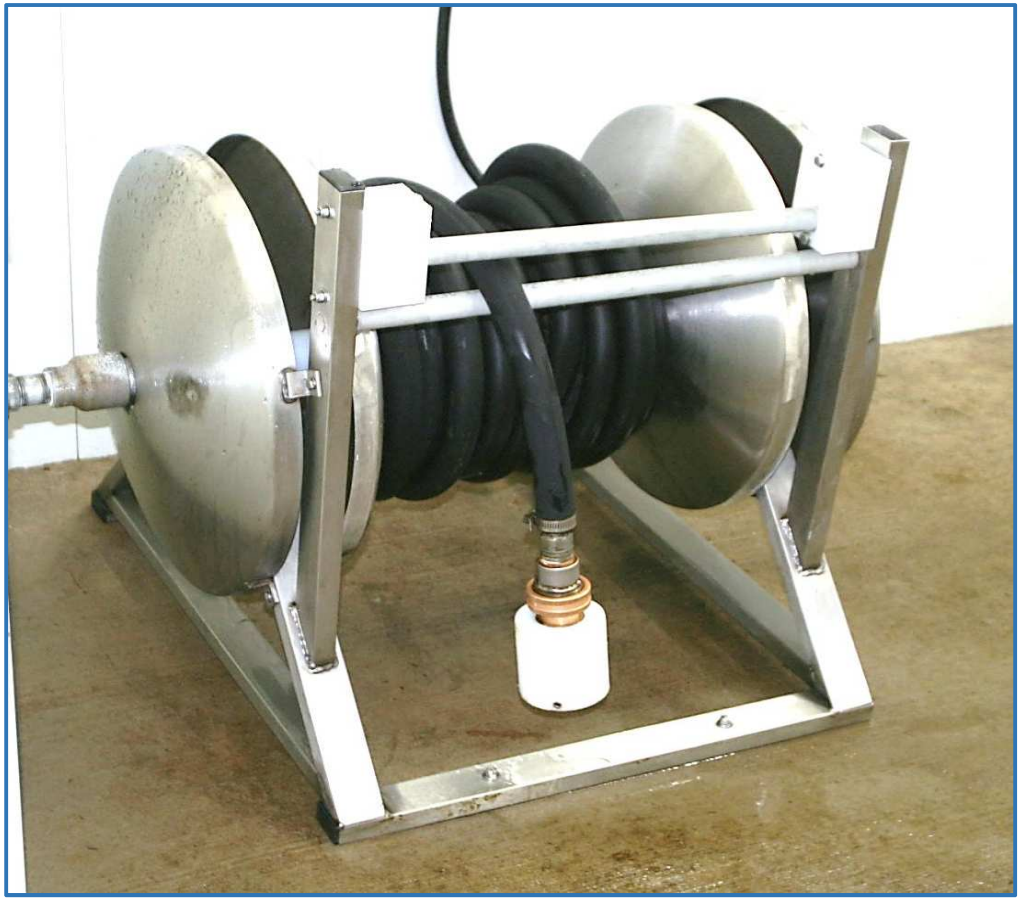


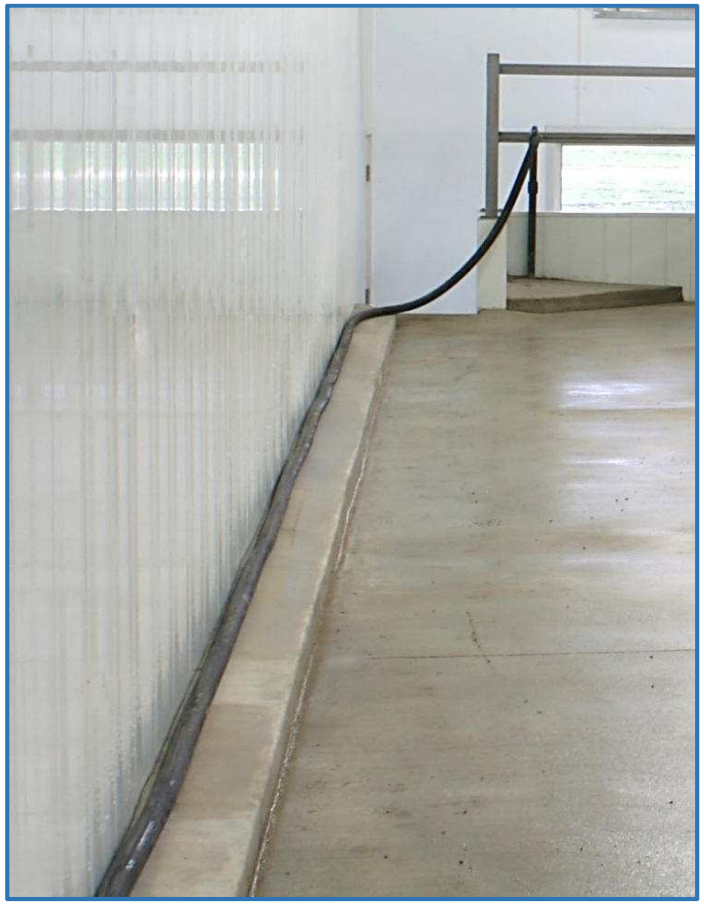
| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 0 | Units | **4 ft x 4 ft stainless Divert Gate**<br>**Built from 2 1/2 x 2 1/2 x 11 ga square tubing**<br>**Divert exiting cows into a catch pen.** | | | **$ -** |
| 0 | Group | **Cylinders for the Divert Gates**<br>**3" x 14" Stainless cylinders w/EV-125 Quick Exhaust Valves**<br>**(4) Versa 'Open' & 'Close' Push Buttons** | | | **$ -** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 1 | Group | **On-Farm Spare Parts Kit**<br>**(Contains only new parts)**<br>**Includes all essential parts for at least (1) year of operation**<br>**(2) sensors, a retract cylinder, at least (1) of each air valves,** | | | **$ 4,985** |
| | | **an extra LLC, seal kit for the milk pump, PC Board for the Pipe Line Washer, several extra Pulsator, an extra Cluster Assy', etc.** | | | |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **1** | **Pcs** | **Double Compartment Sink** | | | **$ 643** |
| **1** | **Group** | **Accessories Group**<br>**Hand Wash Sink, Filter Sock Holder with (1) box of Filters, SST paper towel holder, SST soap dispenser, etc.** | | | **$ 536** |

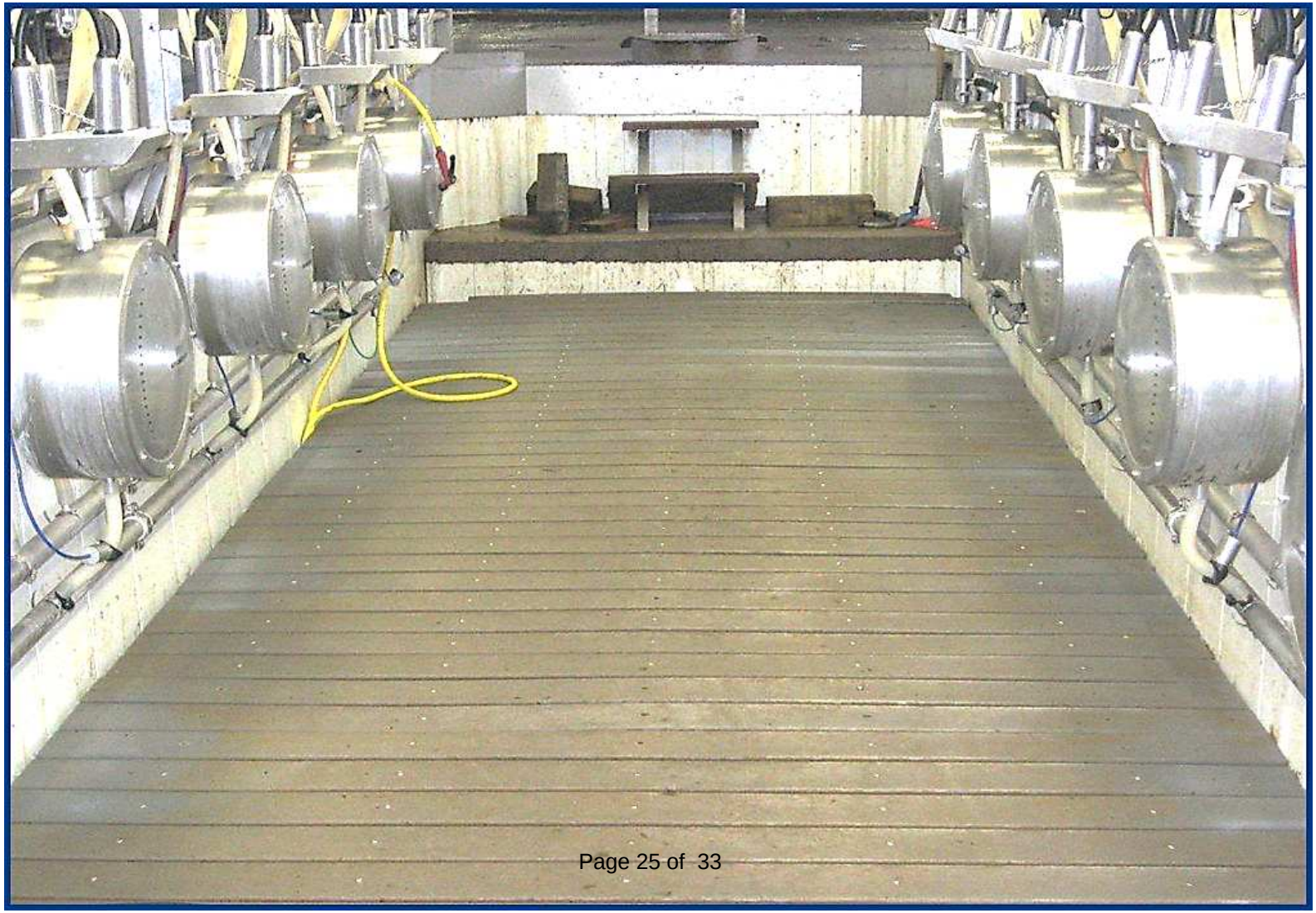
| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 35 | ft | (1) 35 ft long 1" Wash-Down Hose for the pit with Nozzle | | | $ 186 |
| 70 | ft | (1) 70 ft 1" Wash-Down Hose for the Cow Platforms with Nozzle | | | $ 286 |
| 0 | Units | Air-Powered, all-stainless Hose Reel for the (3) Wash-Down Hoses | | | $ - |



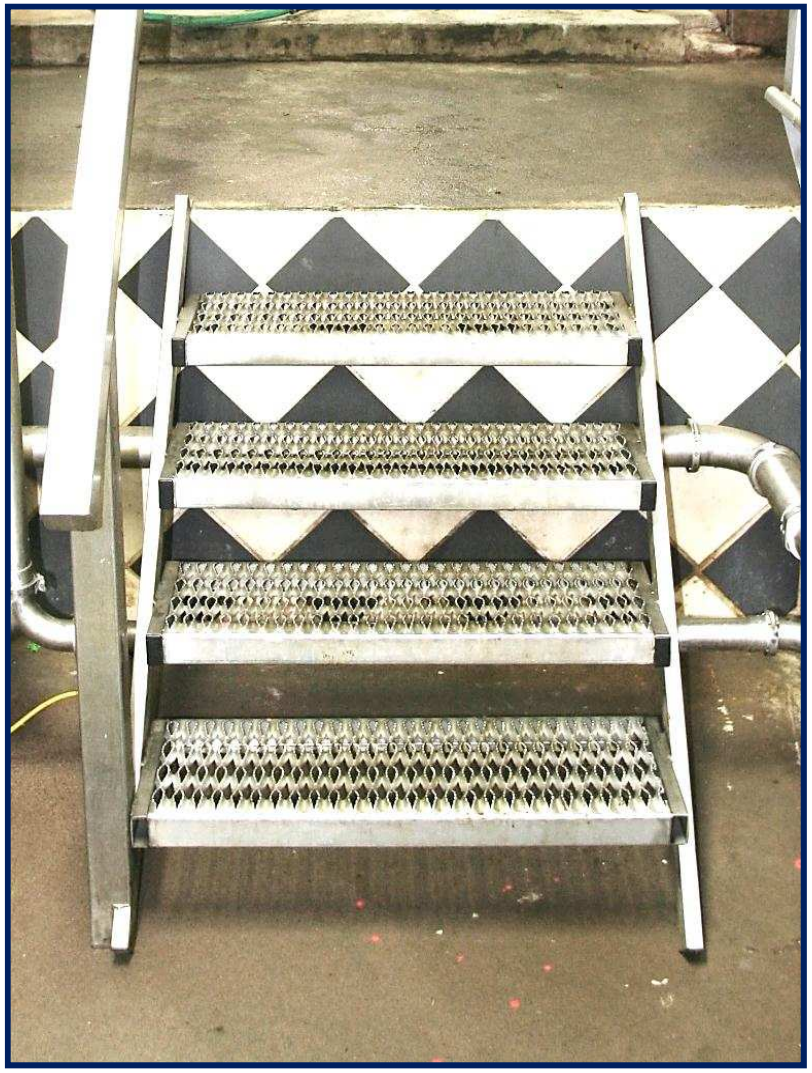


| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **0** | **sqft** | **Pit Mats for the Milkers** | | | **$ -** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| | | **Adjustable Pit Floor**<br>**…adjusts floor height by 8" up or down** | | | |
| **0** | **sqft** | **Floors raises and lowers by air pressure**<br>**no motors, no switches**<br>**Cost - about $55/sqft** | | | **$ -** |



| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **0** | **Unit** | **Stainless Pit Steps**<br>**from breezway up to cow platform**<br>**4 steps, 30" wide, 8" riser , with SST Handrail** | | | **$ -** |



***Whether stainless or concrete steps up to the cow platform is a matter of cost.***
***Concrete might be more expensive than stainless.***
***(Steps on the left are newest model)***

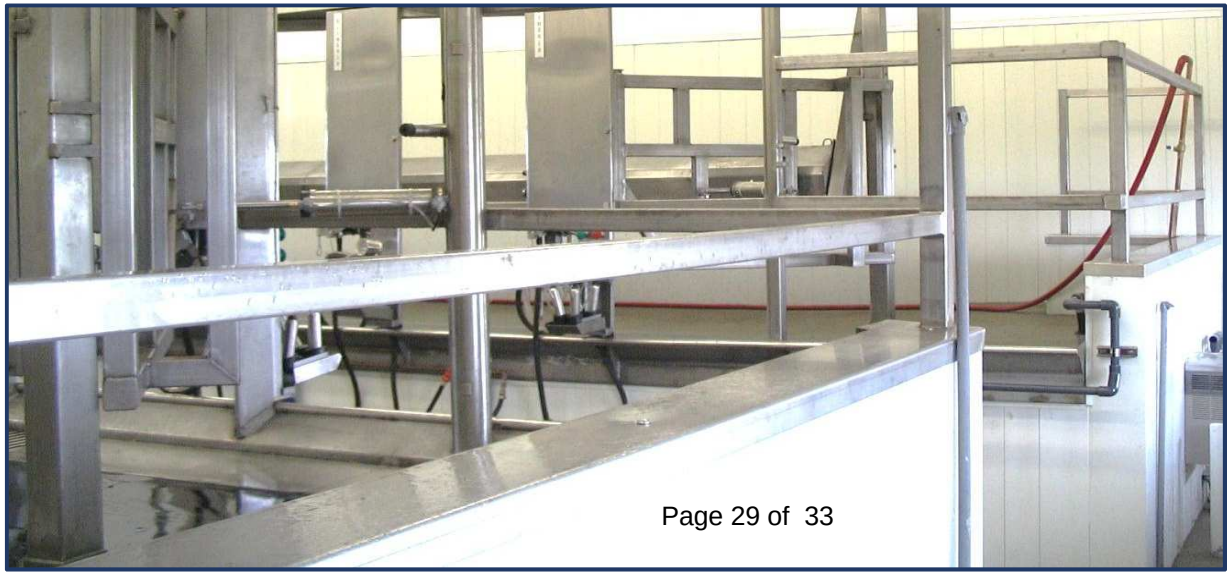
| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **11** | **Sets** | **Stainless Brackets for the light fixtures - see below**<br>**Basically a set of (2) stainless brackets to mount Fluorescent Light Fixtures on the stalls** | | | **$ 754** |
| | | **48" Fluorescent Light Fixtures should be vapor tight and 100% corrosion resistant** | | | |
| | | **We install the brackets on site;**<br>***Electrician supplies and installs the fixtures*** | | | |
| | | **This parlor would need about 44 ft of fixtures per side or (11) 4-foot Fixtures** | | | |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| 0 | Units | **AccuWeigh Milk Measuring System**<br>**Remanufactured**<br>**(Change Low-Line AND Receiver Group!)** | | | $ - |

| | | | | | |
|---|---|---|---|---|---|
| | | **Germania Accuweigh 90 or 65**<br>**- Hold all of the milk for quick check before letting the cows go**<br>**- Drain and re-vacuumize automatically when cows leave**<br>**- Provide great vacuum reserve right next to the cow** | | | |
| 0 | Group | **AW Control Boxes**<br>**Turbo Controller, _____Extra VacShutOff Valves, etc.** | | | $ - |
| 0 | Units | **Butter Fat Testers** | | | $ - |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **0** | Unit | **Stainless Breezeway Fences**<br>**with 3ft 'Side Wing'** | | | **$ -** |

| **0** | ft | **Stainless Cap for Breezeway Wall** | | | **$ -** |
|---|---|---|---|---|---|



| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **0** | **Stalls** | **1" Kraiburn Rubber Mats (Made in Germany)**<br>**For the Cow Platforms** | | | **$ -** |

| *Qty* | *Units* | *Description* | | | *Cost to End-user* |
|---|---|---|---|---|---|
| **1** | **Unit** | **Modular 'Platforms' for 16 stalls** | | | **$ 3,429** |

# *Summary Page*

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Sub-Total Materials** | | | **$** | **162,424** |
| | | **Less: 15% Dairy-Direct Discount** | | | **$** | **(24,364)** |
| | | **Pre-Installation Labor and Supplies**<br>provided by TechForAg at it's factory to convert the above materials into a *Ready-To-Milk* Modular Parlor; ***Calculated at 12% of Cost of Materials*** | | | **$** | **19,491** |
| **150** | **Miles** | **Freight - @ $3.55/mile for (1) Truck within Wisconsin** | | | **$** | **1,065** |
| | | **On-Site Installation Labor, Supplies & Expenses**<br>**Covers several items:** | | | | |
| | | **Time: (10) working days for (2) Parlor Specialists @ 12 hr @ $65/hr** | | | **$** | **15,600** |
| | | **Time: Follow-up visit of (2) Technicians for (2) days @ 10 hrs @ $65, inc. Drive Time** | | | **$** | **-** |
| | | **2. Travel Expenses - Diesel for 3200 miles, (7) Motel nights, meals and misc** | | | **$** | **-** |
| | | **Time Expenses of (2) Installers while travelling - 2 x 2 x 23 hrs/trip @ $35/hr** | | | **$** | **-** |
| | | **2. Three visits to dairy by Rolf, incl. Start-Up of Milking** | | | **$** | **-** |
| | | **5. Rebate to Customer** of $1,000 for prompt payment of last installment | | | **$** | **-** |
| | | **6. Warranty work & follow-up visits** | | | **$** | **-** |
| | | **Grand Total I**<br>**Parlor with Freight & Installation** | | | **$** | **174,216** |
| | | **Per Stall** | | | **$** | **10,889** |
| | | | | | | |
| | | ***Financing available*** | | | | |

# *Terms - I*

*If production at TFA starts several months in the future*

**1) 15% down at signing of contract**

**2) 25% on start of production**

**3) 55% 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 immediately*

**1) 35% at signing of contract, plus**

**2) 60% on delivery 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. 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**