



DA Cotton and Son Ltd



Email: phil@dacottonandson.co.uk
rogerward@dacottonandson.co.uk



Approved
Maintenance
Plan

INSTALLATIONS : SERVICE : SPARES : SALES : PLANT TESTING
(ISO 6690 : 5707 : 1996)

Hardley Farm, Barton Road, Farndon, Chester, CH3 6NN

Tel . 01829 270456 / 08448 482959

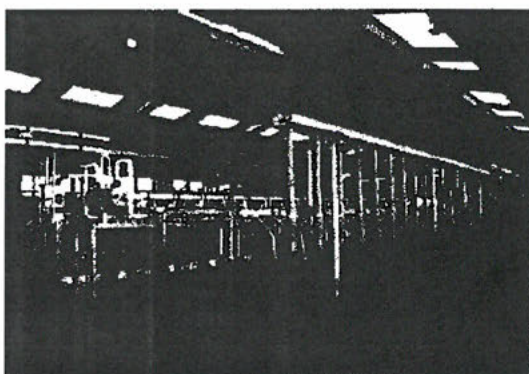
Fax . 01829 270929

Mobile . Phil Cotton 07801 045132 Roger Ward 07974 215164

Vat Reg No. 163 0373 87

Company Reg No. 05407046

20-40 Quick RE parlour with options Guide Price



QPSO Highline Double Up (Feeding Example)

For farmers with more space, the unique Flexible Shoulder Index on the REgo model, allows the parlour breast plate (including feed troughs) to lift completely for faster throughput.

Quote for

██████████
Brook Farm
Ty Broughton
Whitchurch
Shropshire
SY132JT
15.01.2028



1. Stalling :

- 40 - Cow Fullwood Quick RE 90 degree herringbone stalling in two ranks of Twenty , locating cows at 686 mm centres creating the optimum milking position for rear leg milking which incorporates a straight RHS steel rump rail, tubular steel secondary kick rail and vacuum operated front and rear gates
- 40 - Cow heavy duty galvanised steel kerbing for the pit walls.
- 1 - Pair of Air compressed operated entry gates, complete with heavy duty air compressed style cylinders and press button control system
- 1- 4 tread parlour steps
- 1 - Air package kit complete with cylinders, spool valves for quick s exit gate system

2. Vacuum Pumping Equipment:

- 2 Fullwood Q4 vacuum pumping outfits set on a steel base plate incorporating a Servac vacuum controller, gauge, pulley, oiler, exhaust silencer and belt guard.
- 2 4 kw three phase electric motor with starter, pulleys and vee belts.
- 1 Interceptor vessel complete with vacuum pump shut-off device and draining facility.
- 2 Oil Collector installations with galvanised steel tube and all necessary fittings required to remove the waste oil from the atmosphere and comply with environmental regulations.
- 1 Megavac vacuum system with 3" PVC tube from vacuum pump to stabilising vessel; 3" PVC from stabilising vessel to sanitary trap complete with test points, line cleaning and draining facilities.
- 1 Variable speed vacuum pump controller 11 Kw for Twin Q4 vacuum installation
 - Vacuum on demand
 - Energy saving on vacuum upto 55%
 - Reduced noise levels





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3. Milking Equipment:

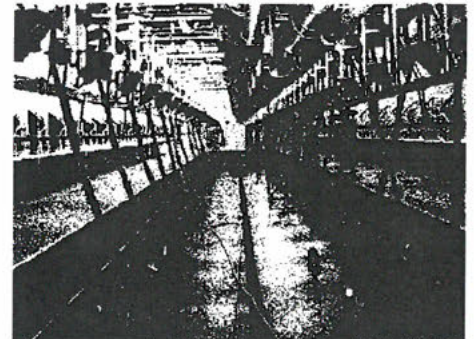
20 - Point 98mm (4") (Internal) single stainless steel milk-line over head with 22mm stainless steel inlet nipples, fittings and clamped connections to ensure minimum maintenance, high level milk quality and reduced risk of bacteria contamination.

20 - Point 50mm stainless steel wash-line set at low level with 16mm stainless steel inlet nipples and silicone fittings.

20-stainless steel swing arms complete with change switches and auto cluster start

20- Clearflow QX teatcup clusters , complete with stainless steel shells, Liners, and short pulse tubes.

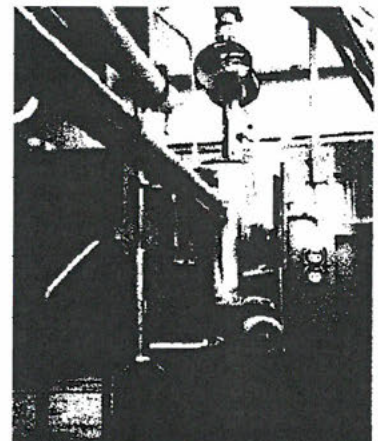
Fullwood blue silicone 15.5nb milk and 7nb twin pulse tube.



4. Milk Pumping Equipment:

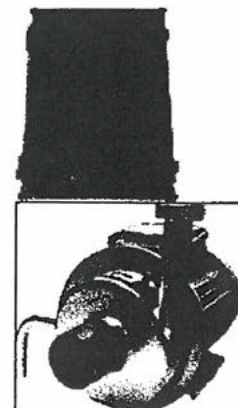
1x FP66 milk pump with 1.5 kW 220/240 motor, integral stainless steel 120 litre milk receiving vessel complete with internal washing system, probes, and 9 litre sanitary trap.

Stainless steel milk delivery line., complete with stainless steel connections from the milk pump to the dairy.



4.1 1 off Variable speed milk pump control

Re use existing



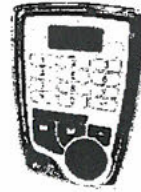


5. Milk Recording and Automatic Cluster Removal:

Milk Recording & ACR

20 – LM1 electronic milk meters with automatic cluster removal facility comprising of: ICAR Approved

- Stainless Steel Vacuum Cylinders
- Digital display of yield
- Milk Sample Device with bottle
- Power Unit and all necessary low voltage wiring and conduit
- Fully adjustable automatic cluster removal system



6. Pulsation Equipment

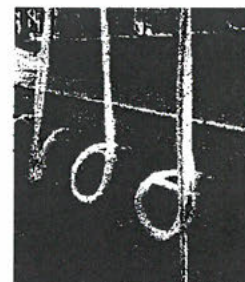
- 20 Fullwood Legato Life direct acting pulsators for alternate milking (2:2) with clean air filtration equipment controlled by Afilite milk meters

- PVC pulsation lines complete with wash points.
- PVC multiple filtered dry air lines complete with wash points.
- Low voltage electrical trunking to carry pulsation control cabling.



7. Plant Cleaning Equipment:

- 1 - Wash Slugger wash device for 4" (100mm) stainless steel milkline.
- 1 - Air injection system complete with control box and power unit .
- 20 - Stainless steel Jets set washing device.





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7.1 Fullwood Plant Cleaning

Plant cleaning:

Fullclean Plus closed circuit automatic plant washer, with programmable control box, stainless steel compressed air operated wash box, power unit and fittings.

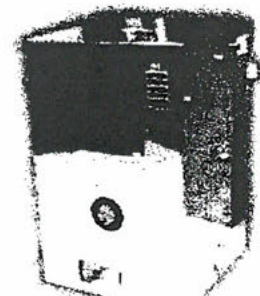
(Note The plant washer will require a suitable cold water storage tank to be supplied by farmer)

1 - 7 cfm air compressor for above application



7.2. Water heater : for parlour wash

1 - Stainless steel water heater, complete with time clock and control box, and complete with plumbing.

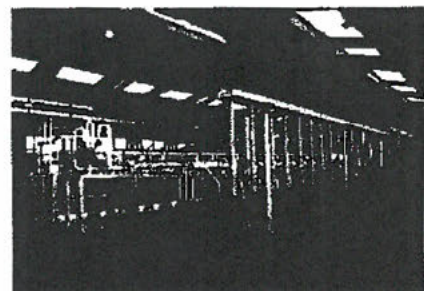


8. Parlour Feeding

Feeding Equipment :

40 Cow Fullwood Auger master II electric feed system comprising:

- 24 volt d.c. electric motors
- Power units
- Plastic feed hoppers with lids.
- Wiring in waterproof PVC conduit
- *Feeding controlled via crystal*
- *Excluding Bin and Augur*





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9. Auto per stall identification with crystal feed to yield linked to feeders.

Fusion Crystal Herd Management System (update existing)
Windows based software for the individual recording of milk and conductivity and feeding per point via the milk meter key pads.

Consisting of:

- Crystal Agenda
- Crystal Yield/conductivity
- Crystal Lactation with Graphs
- Crystal concentrate feed
- Unique Action planner software
- Central Command (all clusters put into milk when one button activated)

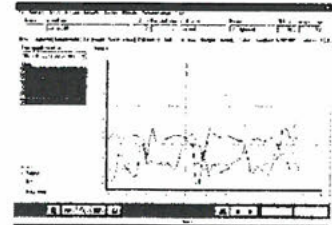
- Fusion data server

(SUITABLE STAND ALONE PC SUPPLIED PRELOADED WITH SOFTWARE/
EXCLUDING PRINTER)

Fusion Crystal Automatic Identification System

Consisting of:

- 40 Per stall aerials
- Instant feeding
- Ear tag operated
- Feed yield controllers
- Power units
- Conduit, cabling etc.



- Complete with 2 dump bucket

11. Supply and install cost

Price of the above detailed equipment

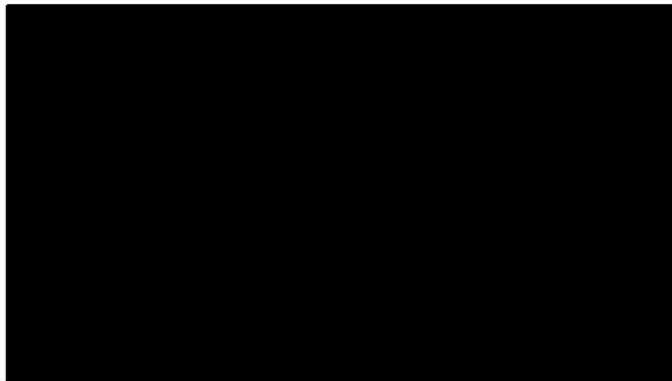
20-40 RE 90 deg parlour and associated equipment
supplied and installed for the sum of:





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13 Parlour building dimensions

Please reference the detailed drawing provided with the parlour for information concerning the layout requirements. Dimensions for installing the stall work refer to the data line. This line is positioned through the centreline of the first rump rail post at the cow exit side.



A 2000 mm	B 1250 mm	C 700 mm x No Stalls	D Cow Entry Length
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14. Standards, Regulations & Directives

Fullwood Equipment is designed and installed to conform to the requirements of:

- Machinery Directive 2006/42/ec
- Low Voltage Directive 2006/95/EC
- Construction Design and Management Regulations 2007
- The *Personal Protective Equipment at Work Regulations* 1992
- European WEEE Directive 2002/96/EC
- The Electromagnetic Compatibility (EMC) Directive 2004/108/EC
- ISO 13849-1:2006 Safety-related parts of control systems
- ISO 12100:2010 Safety of machinery – General principles for design -- Risk assessment and risk reduction
- BS ISO 3918:2007 Milking Machine Installations - Vocabulary