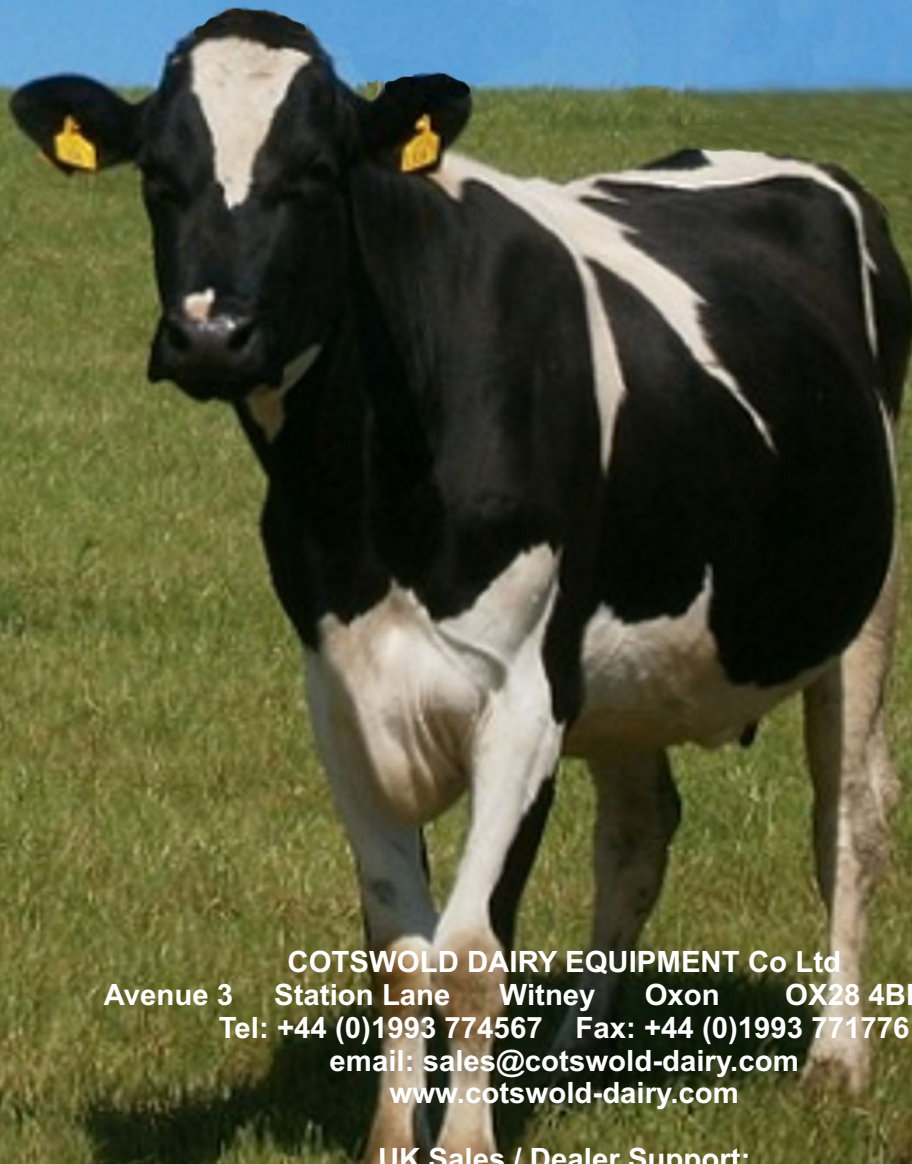


COTSWOLD

Dairy Equipment Co Ltd

DEALER CATALOGUE
OCTOBER 2017



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DAIRY WATER HEATERS

HEAT RECOVERY SYSTEMS

DAIRY WATER HEATERS

Water Heater Specification

- Space-saving, square, open-top heaters with full all-round insulation including lid and base
- Standard inlets and outlets are on the right side of the heaters as you look at them, if you need inlets or outlets elsewhere, please advise when ordering
- Long life, corrosion resistant, stainless-steel outer skin.
- Rigid stainless-steel inner vessel
- Stainless-steel elements*
- Separate control box allows remote mounting
- High quality polyurethane insulation
- Water temperature is controlled by a rod thermostat, water temperature is shown on a front-mounted dial thermometer. An indicator light in the control box shows when heater is working
- Fast-draining 1¼" BSP water outlets up to 150 gallon (1½" BSP outlets on 200 gallons and above)
- All models have stainless-steel float switch under full timer control
- Each controller has 2 x easy-to-set analogue time clocks with battery back up:-
One clock controls the heating element(s) and another the water inlet solenoid, so that water for both washes can be heated overnight using off-peak electricity. This gives appreciable savings. It also allows prevention of dilution of any remaining hot water in the tank by the ingress of cold water.
- Heaters over 70 gallons have dual-outlets, allowing the heater to be half-emptied without refilling and chilling the remaining hot water (to easily cope with 2 washes per day)
- Dual Outlets 70 Gallons and above: dual-outlets, one at base and one at mid-height -1¼" BSP Male.
(200 Gals and above has two x 1½" BSP outlets)

Heater Options:

- **Side Mounted Header Tank:** (use standard prices - page 6)
- **Heat Recovery Coil(s)** see page 12
- **Variable Height Float,** don't heat water you do not need (P6)
- **Digital Thermostat-** highly accurate, extremely versatile.(P7)
- **Pre-wired Option** 3 metres cable to controller (£50.00)

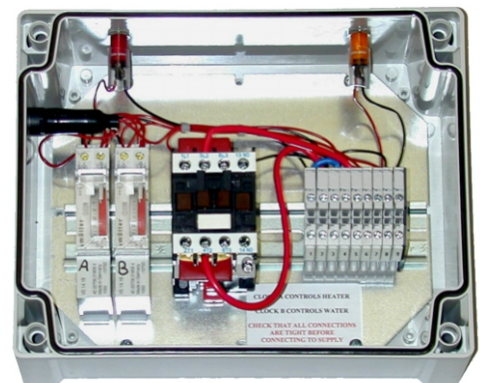
*Stainless-steel elements are not immune to the build-up of lime-scale or attack by water-borne acids. In some areas local water-treatment may be necessary. See page 9 for a selection of such devices



standard version
(solenoid fill)

DO NOT BE MISLED! OUR HEATERS COME COMPLETE!

Unlike most of our competitors' products, where expensive "extras" may be required to make them function, a Cotswold Dairy Heater is supplied with all necessary components included. All the user needs to provide is the electrical supply and the external plumbing.



Wall-Mounted External Controller

Provides independent timed control of water inlet solenoid and heating element(s).

(The remote controller allows for mounting in a separate or remote location).

DX WATER HEATER



DX WATER HEATER:

- 24 Hour Time Clock (48 Hour time clock option).
- Brass ½ Hp hot water pump included
- Water supplied to tank washer at 20 Ltrs/min at 20psi

WH-DXP £215



Hot Water Pump for DX tanks (included with DX Heaters)

- 230v 50HZ
- 36 Litres/min
- 0.37kw
- 2.5 amps
- 2850 rpm
- Connections: 1" BSP Female

OPTION Auto Pump Controller With Gauge. **WH-PRESSKIT £100.45**



- Max Current 12amp
- Operating Pressure: 1-3.5bar / 14.5 - 50psi
- Maximum Pressure: 10 bar / 145psi
- Max Flow Rate: 80L/min
- Connections: 1" GSA male
- Protection: IP65
- 40mm Standard Pressure Gauge: 12bar/ 0 - 170 psi

WATER HEATER STANDS

Our range of "Assemble-On-Site" Water Heater Stands

High-Quality Heavy Gauge Stainless Steel Construction.

Stainless-Steel Nuts & Bolts.

Supplied "flat-packed"

Very easy to assemble.

Height 860mm or 1100mm.

Ask about non-standard sizes

Ask for prices for stands over 200 gallons



Free Delivery When Ordered and Delivered With A Water Heater
(no additional shipping charge if you order your stand with your heater)

Part	For Heaters	For Heaters	Heights
WHS1	30 - 60 Gals	135 -270 Ltr	860 mm & 1100 mm
WHS2	70 - 80 Gals	315 - 360 Ltr	860 mm & 1100 mm
WHS3	100 - 120 Gals	450 - 540 Ltr	860 mm & 1100 mm
WHS4	150 Gals	675 Ltr	860 mm & 1100 mm

Prices Overleaf
(with heater prices)

Call Office For Larger Sizes (200gal, 240 gal, 300 gal)

WATER HEATERS

Model	Capacity		Heater with Dual Timer Controller	DX Heater inc Controller & Pump	Delivery	Stand (page 5)
	Gallons	Litres				
WH 30	30	135	£1,399	£1,560	£55	£375
WH 40	40	180	£1,465	£1,620	£60	£375
WH 50	50	225	£1,670	£1,835	£60	£375
WH 60	60	270	£1,815	£1,990	£70	£375
WH 70	70	315	£1,963	£2,125	£70	£375
WH 80	80	360	£2,090	£2,250	£75	£375
WH 100	100	450	£2,265	£2,420	£95	£399
WH 120	120	540	£2,460	£2,610	£95	£399
WH 150	150	675	£2,825		£96	£399
WH 200	200	900	£3,515	IMPORTANT All Cotswold Heaters are COMPLETE, including Remote- Mounted Controller	£120	POA
WH 240	240	1080	£4,055		£140	POA
WH300	300	1350	£5,050		£170	POA

- **VARIABLE FLOAT:** only heat the water you need. Increase the capacity when you need to! **Extra: £225.00**
- **HEAT RECOVERY COIL.** Stainless steel coil with external tails for attachment to external heat sources **£190 each**
- **HEATER WITH SIDE-MOUNTED HEADER TANK** - standard heater prices above
- **DIGITAL THERMOSTAT** add **£79.38**
- **PRE-WIRED CONTROLLER OPTION** 3 metres cable to controller (**£50.00**)

WATER HEATER PROTECTION

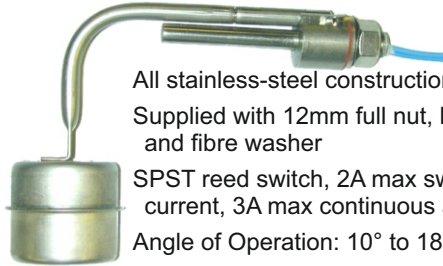
MODEL	DESCRIPTION	PRICE
ESP1	Electronic Water Softener	£ 214.92
ESP2	High Capacity Electronic Water Softener	£ 469.80
WH21	Salt Dispensing Water Softener Complete	£ 113.40
WH21C	Water Softener Salt Refill	£ 52.39
WH20	Combimate Crystall Balls - refill	£ 37.00
WH21A	Carbon Filter Complete	£ 112.00
WH21B	Refill for Carbon Filter	£ 52.92
	<i>(For pictures /details of these items, see page 9)</i>	

STANDARD WATER HEATER SPECIFICATIONS / SIZES

Model	Gallons	Litres	1-Phase	3-Phase	Width x Depth x Height	Width x Depth x Height
WH 30	30	135	3 Kw		24" x 24" x 30"	610 x 610 x 762
WH 40	40	180	3 Kw		24" x 24" x 36"	610 x 610 x 915
WH 50	50	225	4.8 Kw	6 Kw	24" x 24" x 42"	610 x 610 x 1067
WH 60	60	270	4.8 or 6 Kw	6 Kw	24" x 24" x 48"	610 x 610 x 1220
WH 70	70	315	6 Kw	6 kw	27" x 27" x 43"	686 x 686 x 1093
WH 80	80	360	6 Kw	6 Kw	27" x 27" x 48"	686 x 686 x 1220
WH 100	100	450	6 Kw	6 or 9 Kw	32" x 32" x 45"	813 x 813 x 1143
WH120	120	540		9 Kw	32" x 32" x 50"	813 x 813 x 1270
WH 150	150	675		2 x 6 Kw	38" x 38" x 50"	966 x 966 x 1270
WH 200	200	900		2 x 6 Kw	47" x 40" x 50"	1194 x 1016 x 1270
WH 240	240	1080		3 x 6 Kw	56" x 40" x 50"	1423 x 1016 x 1270
WH300	300	1350		3 x 9 Kw	66" x 40" x 50"	1670 x 1016 x 1270

SPARES AND ACCESSORIES - DAIRY WATER HEATERS

Float Switch



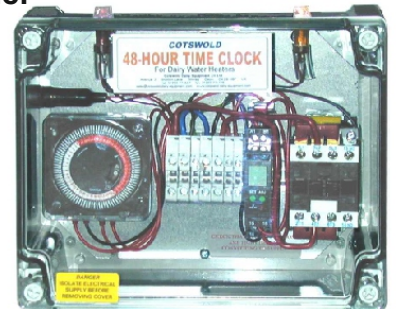
All stainless-steel construction
Supplied with 12mm full nut, lock washer and fibre washer
SPST reed switch, 2A max switching current, 3A max continuous at 230v AC
Angle of Operation: 10° to 18°

All Stainless Float Switch **FS1 £113.40**
Float and Pivot-arm only **FS1B £55.60**

48 Hour Timer

A 48-hour 32 amp time clock suitable for heating water on alternate days to coincide with tanker collections

State single phase version or 3 phase version when ordering



WH48B £220

High-Range Thermostat

Range 40 - 120°C
WH13 £38.29



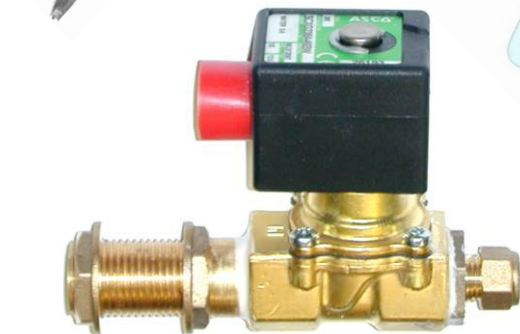
Probe Thermometer

Digital Thermometer with Stainless Steel Probe
WH23B £44.26

Button Battery for above
WH23C £ 4.25



A useful and inexpensive waterproof pocket thermometer.
125mm Stainless Steel Quick-Acting Probe
Pointed probe allows insertion into semi-solid materials.
Clip-on cover provides protection in pocket or tool bag.
Pen-style pocket clip, also hook loop.
Centigrade range: -50°C to 150°C.
"Hold" button to read from inaccessible places.
Complete with battery.



Water Heater Solenoid Valve **WH15E £104.76**
Solenoid Coil Only **WH15A £44.01**

In Line Water Strainer

In-line strainer with stainless-steel washable screen inside a nylon housing. Easily removed for cleaning or replacement.

Size: 90 x 137mm (but leave another 80mm under pot to allow for unscrewing and lowering access filter screen).

(3/4" BSP Connections) **WH19 £49.95**
1" BSP Connections) **WH19A £52.95**



Digital Thermostat -50°C to 150°C

A highly accurate 'stat with large red display, 1° accuracy, centigrade or fahrenheit scales. Features include undershoot or overshoot correction, offset, proportional control, serial port for PC connection. 240v input. Max switching 5A 240v. Cut-out 71x29mm, depth 77mm. With sensor & 2metre lead.

WH23D £79.38

SPARE PROBES / SENSORS

From early 2016 a new but visually similar version was introduced. Always check old probe lead before ordering a new one.



WH23E £10.79
(round lead, red/wht wires)

WH23F £10.79 from 2016
(flat lead, grey wires)



In Line Tap



1/4" and 1/2" BSP
Outlet /In-Line Tap,
plated brass construction
WH14A 1/4" £32.94
WH14B 1/2" £37.42

SPARES AND ACCESSORIES - DAIRY WATER HEATERS

WH/1A	Amber Neon Indicator For Heater Controller	£6.21
WH/1G	Green Neon Indicator For Heater Controller	£6.21
WH/1R	Red Neon Indicator For Heater Controller	£6.21
WH17	Control Box for Water Heater - (state model & serial number)	£266.76
WH4V	35mm Slim Clock for Water Heater Controller	£63.72
WH17A	Control Box With Digital Stat for Water Heater - (state model)	£340.20
WH48B	48 Hour Timer/Controller - with contactor (state heater)	£220.00
WH48A	Analogue Round Time Clock for 48 Hour Timer	£63.72
WH4C	Grasslin Round Analogue Time Clock (for Water Heater)	£63.72
WH31	Vacuum Switch - for early types of water heater controller	£75.00
WH8	2 Amp Fuse - pack of 3 for heater controllers	£4.36
WH22	24 Amp Contactor (for up to 6kw elements)	£64.20
WH22B	62 Amp Contactor (for 9kw elements)	£82.62
WH23A	Dial Thermometer 52mm capillary type with bulb	£39.96
WH23B	Probe Thermometer in Pocket Case (battery included)	£44.26
WH23C	Button Battery (for Probe Thermometer)	£4.25
WH23E	Sensor/Probe for Digital 'Stat (red & white wires)	£10.79
WH23D	Digital Thermostat & probe 2016-on (grey probe lead-colours)	£79.32
WH23F	Probe/Sensor for Digital Stat 2016-on (grey wire/grey inners)	£20.36
FS1	Float Switch - all stainless steel for Cotswold Water Heaters	£113.40
FS1B	Float Arm And Pivot Pin for Stainless Float Switch FS1	£55.60
WH15E	Solenoid Valve 0-135 lbs/sq ins (0-8 bar) & fittings (state make)	£104.76
WH15A	Coil for heater inlet Solenoid (state make of solenoid)	£44.01
WH15F	Diaphragm for heater inlet solenoid (state make of solenoid)	£43.16
WHDXP	Brass Pump for DX tank washer (1" BSP female connections)	£210.60
WH14A	1 1/4" BSP Outlet Tap	£31.32
WH14B	1 1/2" BSP Outlet Tap	£37.33
WH25	15mm Outlet Tap Assembly, for 25 litre water heater	£21.60
WH81	Stainless Steel Element Ring	£40.98
WH5	Immersion Heater Spanner	£30.61
WH27	Brass Element Ring for 15 or 25 litre water heater	£9.18
WH28	Boiler Lid Seal 24" square (for 30/40/50/60 gals)	£41.41
WH28A	Boiler Lid Seal 27" square (for 70 & 80 gals)	£44.22
WH28C	Boiler Lid Seal 32" Square (for 100 & 120 gals)	£59.56
WH28D	Boiler Lid Seal 38" Square (for 150 gals)	£77.76
WH28E	Boiler Lid Seal 40" x 47" (for 200 gals)	£82.76
WH28F	Boiler Lid Seal 40" x 56" (for 240 gals)	£86.76
WH28G	Boiler Lid Seal 40" x 66" (for 300 gals)	£89.00
WH28H	Lid Seal 15"x15" (for 10 gal heater P33 & Coil Washer P35)	£39.50
WH32A	Boiler Element Cover/Window complete with frame etc...	£31.32
WH32	Boiler Element Cover / Window only	£12.42
WH33	Metal Frame only for Element Cover / Window	£17.28
WH21	Water Softener - Polyphosphates Salts Dispenser	£113.40
WH21C	Refill Salts Cartridge for Polyphosphate Salts Dispenser	£52.39
WH21A	Water Filter - In-Line Carbon Filter	£112.00
WH21B	Refill Cartridge for Carbon Filter	£52.92
WH19	In-Line Water Strainer (3/4" BSP Connections)	£49.95
WH19A	In Line Water Strainer (1" BSP Connections)	£52.95



WH4V
£63.72
Slim (35mm) Time Clock



WH48A
£63.72
Time Clock



WH/37 **£18.25**
Heater Fill
Tube Assembly
from inlet solenoid
to inside of tank



WH23A
£39.96
Dial
Thermometer



WH22 **£64.26 /**
WH22B **£82.62**
Contactor

PROTECT YOUR WATER HEATER



SCALE REDUCER

- Reduces lime scale problems in hard water areas.
- No maintenance, costs about £4.25 per annum to run.
- Easy installation - wind the two aerials around the water feed pipe, switch on, and forget it!
- Fit to all types of water pipe except lead.
- Treats up to 35 litres per minute.

ESP1 £214.92



HIGH-CAPACITY SCALE REDUCER

- Powerful "full system" scale reducer for entire houses (heating and domestic hot water) and entire dairies where multiple units need to be protected.
- 2 independent pairs of aerials attach to 2 independent water circuits (or "doubled up" on a single pipe).
- Controls to vary the intensity / frequency of scan.
- No maintenance, around £5 per year to run.
- Simple Installation, wind the two/four aerials around the water feed pipe, switch on, forget!
- Fit to all types of water pipe except lead.
- Treats up to 250 litres per minute.

ESP 2 £469.80

Activated Carbon Filter (In-Line Water Filter)

Effective activated-carbon filter, can be used alone or in tandem with other filters (connector available)

- removes chlorine and other unpleasant odours.
- removes atrazine, mercury, zinc, solvents and oils.
- removes many bugs and bacteria.
- complete with plastic spanner (to open unit) and first filter cartridge.

This device is particularly useful where borehole water is in use and farm run-off may lead to waterborne bugs/bacteria and other noxious substances entering the supply.

Carbon Filter: **WH21A £112.00**
Carbon Refill: **WH21B £52.92**



Polyphosphate Salts Dispenser (In-Line Water Softener)

Tackle scale with the same technology as high-priced water softeners.

- dispenses polyphosphate salts into the incoming water supply.
- holds limescale in suspension, preventing it from causing limescale build-up.
- Replace cartridges (typically 6 to 12 months).
- Complete with plastic spanner (to open unit) and first salts cartridge.

Salts Dispenser: **WH21 £113.40**
Salts Refill: **WH21C £52.39**



STAINLESS STEEL ELEMENTS

WH9	3 Kw Incoloy Element 1-phase 18"	£55.51
WH9A	3 Kw Incoloy Element 1-phase 14"	£55.51
WH9C	4 Kw Incoloy Element 1-phase 14"	£55.51
WH9F	3 Kw Incoloy Element 1-phase 11"	£55.51
WH10	4.8 Kw Incoloy Element 1-phase 14"	£64.80
WH11	6 Kw Incoloy Element 1-phase 18"	£78.00
WH12	6 Kw Incoloy Element 3-phase 18"	£107.75
WH12A	9 Kw Incoloy Element 3 phase 18"	£122.20
WH13	Thermostat - High Range 30 - 120 °C	£38.29

We use the best available elements, but even these cannot be guaranteed against failure due to heavy lime scale deposits or highly acidic bore-hole water. To maintain their 6 month warranty, end-users must take responsibility for their water quality, and if necessary install adequate water filtering / softening devices (page 9).

Sizing Water Heaters (Guide only - check parlour manufacturer's recommendations)

Allow 16 litres (3.5 gallons per milking point for:-
 - Doubled up parlours
 - Simple parlours with small milk meters
 - Parlours without warm pre-rinse

Allow 18 litres (4.0 - 5.0 gallons) per milking point for:-
 - Complex parlours with automatic plant washers
 - Swing-over parlours with ringed lines
 - Tandem parlours
 - Parlours with warm pre-rinse

Approximate Heating Times

Heater Capacity Gals	Heater Capacity Litres	Element Size Kw	Time to Raise Temp From 12° to 85° (Hours)
30	135	3.0 Kw	4.1
40	180	3.0 Kw	5.5
50	225	4.8 Kw	4.2
50	225	6.0 Kw	3.4
60	270	4.8 Kw	5.2
60	270	6.0 Kw	4.1
70	315	6.0 Kw	4.8
80	360	6.0 Kw	5.5
100	450	6.0 Kw	7.0
100	450	9.0 Kw	4.5
120	540	9.0 Kw	5.7
150	675	12.0 Kw	5.1
200	900	12.0 Kw	7.0
240	1080	18.0 Kw	5.5
300	1350	27.0 Kw	4.7

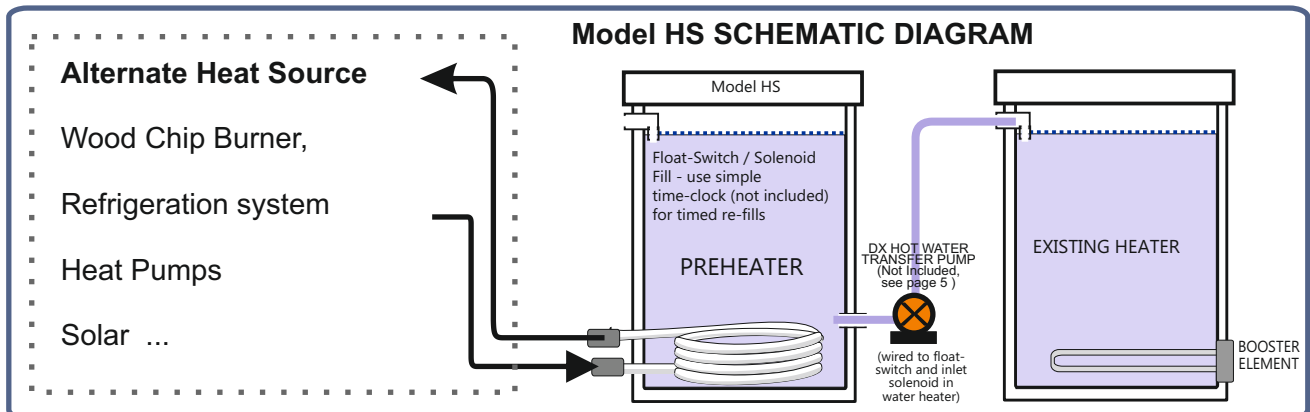
Times are for guidance only. There are many variables that may affect actual heating times

COIL HEAT EXCHANGER

VERSATILE, COST-EFFECTIVE HEAT RECOVERY SYSTEM

Heat Recovery Unit / Vessel

- Simple and robust
- Use to pre-heat water for water heaters
- Cost-saving heat recovery - see figures on next page
- Recovers heat from:
 - Refrigeration Units
 - Heat Pumps
 - Solar Panels
- All stainless-steel construction
- Robust 22mm stainless-steel heat-exchanger coils
- Substantially reduces your overall water heating costs
- Is available in sizes from 40 gallons (135 litres) to 300 gallons (1350 litres)
- Pump is not included (see page 5 for suitable pump)



Nominal Capacity		HS MODEL - With 1 or 2 Coils (no element, no controller, no pump)		Coils	Delivery Cost
Gallons	Litres	Model	Price		
30	135	HS30	£1,400	1	£55
40	180	HS 40	£1,465	1	£60
50	225	HS 50	£1,670	1	£60
60	270	HS60	£1,815	1	£70
70	315	HS70	£1,963	1	£70
80	360	HS80	£2,090	1	£75
100	450	HS 100	£2,265	2	£95
120	540	HS 120	£2,460	2	£95
150	675	HS 150	£2,825	2	£95
200	900	HS 200	£3,515	2	£120
240	1080	HS 240	£4,055	2	£140
300	1350	HS 300	£5,050	2	£170

Transfer Pump (not included) WH-DXP: £210.00 see page 5
 Additional heat-recovery coils: £190
 Coil Heat Exchangers of 120 gallons and over are available with up to 4 coils.

COIL HEAT EXCHANGER

VERSATILE, COST-EFFECTIVE HEAT RECOVERY SYSTEM



Inside of
2-coil version

SAVINGS AND PERFORMANCE CHART

This table provides a guide to the savings that can be achieved using the Cotswold Coil Heat Exchanger.

(These figures are conservative, in most cases better results can be anticipated.)

PROBABLE ANNUAL SAVINGS USING THE COIL HEAT EXCHANGER

GALLONS (Water Heater Exchanger Capacity)	LITRES	2 x Hot Washes, heating at PEAK rate and at OFF-Peak rate	2 x Hot Washes, both Heating OFF Peak	1 x Hot Wash, All Heating OFF Peak
30	135	£440	£320	£160
40	180	£590	£430	£220
50	225	£740	£540	£270
60	270	£880	£640	£320
70	315	£1,030	£750	£380
80	360	£1,179	£860	£430
100	450	£1,470	£1,070	£540
120	540	£1,770	£1,290	£640
150	675	£2,210	£1,610	£810
200	900	£2,950	£2,140	£1,070
240	1080	£3,540	£2,670	£1,290
300	1350	£4,425	£3,312	£1,612

Assumptions on which this table is based...

COSTS

Off-Peak charges: 8p (£0.08) per unit (1 kw/hour)
Standard charges: 14p (£0.14) per unit (1 kw/hour)

PERFORMANCE

Initial water temperature: 10°C
Min target temp of Recovery System: 45°C
(reasonable target in all conditions,
more is usually achieved)
Target water temperature 85°C (thermostat setting)

UDDER HEALTH

Supaspray
Vacuum-Operated
Teat Sprayer

Moojet
Walk-Over Automatic
Teat-Sprayer

Teatwand Exact
Automatic Teat Spray
For Rotary Parlours

Hand Held Teat Sprayers

SUPASPRAY VACUUM-OPERATED TEATSPRAY



- Vacuum Operated:
- Fits to existing vacuum line. Supplied with vacuum connection, 10mm vacuum supply line and a moisture trap.
- Fits to competitors' systems:
- The SupaSpray is supplied with an adaptor to fit directly to existing Ambic teat spray installations.
- High Performance:
60psi at 50kpa and 50psi at 44kpa.
- Excellent teat coverage.
- Fast application.
- Simple Design:
- Quick and easy to install.
- Wall mount or fit directly in the drum.
- Only two moving parts!
- Reliable.
- Simple and quick to repair and maintain.
- Service and repair on site in minutes.
- Pump only works when spraying:

USING THE SUPASPRAY

Post-Milking Teat Disinfection

The SupaSpray is used successfully with most post milking teat spray chemicals. The high pressure produced by the Supaspray makes it especially useful when spraying thicker chemicals, even works well on low vacuum systems.

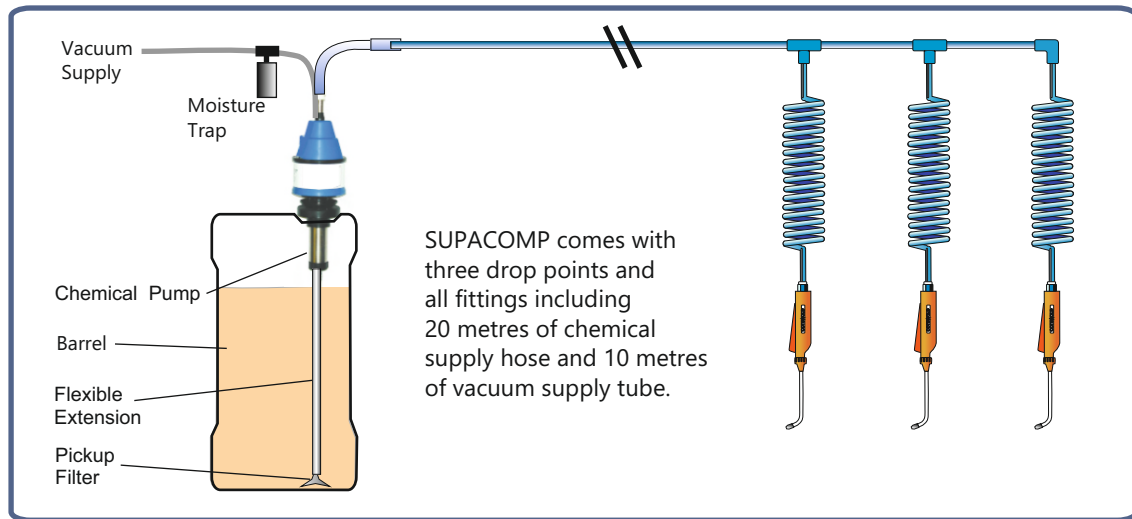
Pre-Milking Teat Sanitation

More and more SupaSsprays are used as a Pre-Milking teat spray, using either propriety products or a disinfectant solution to combat Environmental Mastitis organisms such as Strep. Uberis.

Inter Cow Cluster Disinfection

Cluster disinfection is becoming a more common practice for whole herd disinfection or to disinfect clusters after high cell-count cows. Usually a peracetic acid solution is sprayed into the cluster between cows to control Contagious Mastitis organisms such as Staph. Aureus.

SUPASPRAY VACUUM-OPERATED TEAT SPRAY SCHEMATIC OF TYPICAL 3-DROP INSTALLATION



SINGLE LINE TEAT SPRAY KITS

Cotswold Teat Spray Kits - Contents					Extra 8mm Tube		Pressure Vessel	
Cows Per Side	Number of Guns	Part Number	Supa	Dropper with Gun VS2	20 Metre Coil VS21	30 Metre Coil VS21B	Single Operator MJ6	Multiple Operators MJ6
Up to 9	3	SupaComp	1	3	1	0	0	1
10 - 12	4	VS304	1	4	0	1	0	1
13 - 15	5	VS305	1	5	0	1	0	1
16 - 18	6	VS306	1	6	0	1	0	1
19 - 21	7	VS307	1	7	0	1	0	1
22 - 24	8	VS308	1	8	1	1	1	1
25 - 27	9	VS309	1	9	1	1	1	1
28 - 30	10	VS310	1	10	1	1	1	1

PUSH-IN TUBE CONNECTORS



Push-Fit Tee



Plug

PUSH-FIT TUBE CONNECTORS - BLACK		2017 Each
VS7APF	8mm : 8mm Straight Connector	6.90
VS7DPF	10mm : 10mm Straight Connector	6.90
VS7CPF	10mm : 8mm Straight Adaptor	6.90
VS5CPF	8mm Male Plug	2.50
VS5DPF	10mm Male Plug	2.50
V/5PF	8mm x 8mm x 8mm Tee (use matching plug to create elbow)	6.90
VS10TPF	10mm : 10mm : 10mm Tee (use matching plug to create elbow)	6.90
VS10PF	8mm : 1/8 bsp conector (gun stud)	6.90
VS7PF	8mm : 1/4" bsp male connector	6.90
VS10PF	10mm : 1/4" bsp male connector	6.90



Straight Push-Fit Connector



Straight Push-Fit to Male Threaded Connector

SUPASPRAY

The Contents of these kits should cover the necessary parts for most standard installations.
Allow for 1 gun per 3 standings

Part No	Description	Retail Price
Supa	SupaSPray pump only	£315.00
SupaComp	SupaSPray pump installation with 3 Guns	£488.00
VS304	Pump with 4 Gun Kit	£585.00
VS305	Pump with 5 Gun Kit	£653.00
VS306	Pump with 6 Gun Kit	£723.00
VS307	Pump with 7 Gun Kit	£783.00
VS308	Pump with 8 Gun Kit & Pressure Cylinder	£940.00
VS309	Pump with 9 Gun Kit & Pressure Cylinder	£1,010.00
VS310	Pump with 10 Gun Kit & Pressure Cylinder	£1,075.00

SupaSPray Installation Components

VS2	1 x Drop Point with Spray Gun and Connectors	£69.90
VS21	20 Metres x 8mm Blue Nylon Flexible Tubing	£33.33
VS21B	30 Metres x 8mm Blue Nylon Flexible Tubing	£51.50
VS7A	Straight Connector 8mm to 8mm	£6.90
VS26F	Multi-Adaptor 8mm Elbow, Tee, Straight Connector, all in one	£8.10
MJ6	Pressure Cylinder	£64.26
VS501	Supaspray Stainless Steel Wall Bracket	£15.39

Order Information:

Supa: (contains the following)
1 X Adaptor to fit directly to Competitors' systems.
1 x Vacuum line connection kit and moisture trap.
10 Metres of 10mm PVC vacuum supply line
1 x Wall-mounting bracket
1 x SupaSPray vacuum operated teat spray pump.

SupaComp: (Contains the following)
1 x Supa (As above).
20 Metres of 8mm, blue nylon chemical supply tube.
3 Dropper coils and connectors.
3 x VS26 Teat spray guns and connectors.

VS21 & VS21B: 8mm Tube can be ordered in **Blue**, **Black** and **Red**.

VS2 & VS4: Drop Coils can be ordered in **Blue**, **Green** and **Red**.

MJ6: Pressure Vessel for use on large installations (+7 guns) or when more than one operator. - maintains stable pressure.

SUPASPRAY INSTALLATION SPARE PARTS

VS26BF Spray Gun £39.69
with Sprayback Protector, for
Liner Disinfection
(see page 25)



**SPRAY GUN with
150mm / 6" Lance
VS26 - £39.69**

**SPRAY GUN with
225mm / 9" lance
VS26-9 - £43.74**

**SPRAY GUN with
300mm / 12" Lance
VS26-12 - £47.79**

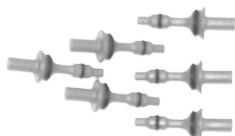


VS2



AMBIC ADAPTOR
Now included with each of
our VS26 spray guns is a
useful adaptor allowing
direct fitting to Ambic's
system
VS26E £2.76

MULTI-ADAPTOR
(makes elbow, tee or
straight connectors,
plus Ambic adaptor
and blind-cap)
VS26F £8.10



SPRAY GUN SPINDLES
6 x Valves, Spindles and O Rings **VS37 £13.98**
Dealer Pack, 10 x VS37 **VS37-10 £124.75**



VS32 £10.96
Service Kit for VS26
(O rings, Spindle, Trigger, Button)

VS4
Available in
Blue, Red & Green

VS2	Spray drop-point (blue) with VS26 spray gun	£69.90
VS2R	Spray drop-point (red) with VS26 spray gun	£69.90
VS2G	Spray drop-point (green) with VS26 spray gun	£69.90
VS4	Retractable coil - no fittings (blue)	£23.00
VS4R	Retractable coil - no fittings (red)	£23.00
VS4G	Retractable coil - no fittings (green)	£23.00
VS21	20 Metres 8mm Nylon Tubing - no fittings (blue)	£33.33
VS21B	30 Metres 8mm Nylon Tubing - no fittings (blue)	£51.50
VS26B	HandiSpray Gun - body only with valves	£21.00
VS27	HandiSpray 6" (150mm) stainless steel lance	£26.00
VS27-9	HandiSpray 9" (225mm) stainless steel lance	£31.27
VS27-12	HandiSpray 12" (300mm) stainless steel lance	£35.15
VS7	White Nylon Connector stud (connects gun to 8mm line)	£7.00
VS7A	Straight Connector 8mm : 8mm	£7.00

SUPASPRAY PUMP REPLACEMENT PARTS



SUP4 £16.96
Cover Assembly

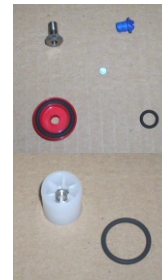
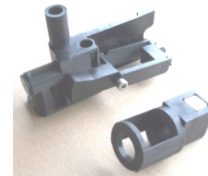
SUP3 £6.65
Stainless Steel Circlip (pack 2)

SUP8 £84.21
Upper Magnetic Valve Assembly

SUP22 £42.28
Chemical Seal Kit,
Upper Non Return Valve,
and Non-Return
Valve assembly

SUP10 £15.83
Bottom Hose Tail

SUP11 £37.15
Bottom Hose &
Foot Filter Assembly



HAND HELD SPRAYERS



TRIGGER SPRAY

600mL graduated container,
upward-spraying stainless steel
spray nozzle

CS1 - £7.70



EXTENDED TRIGGER SPRAY

600mL graduated container, long reach
upward-spraying stainless steel nozzle.

CS3 - £7.70



HOLSTER SPRAY

Slim 500mL jar suitable for pocket or
holster use, upward spraying
stainless steel spray nozzle.

CS1A - £7.70

PAPER ROLL DISPENSER

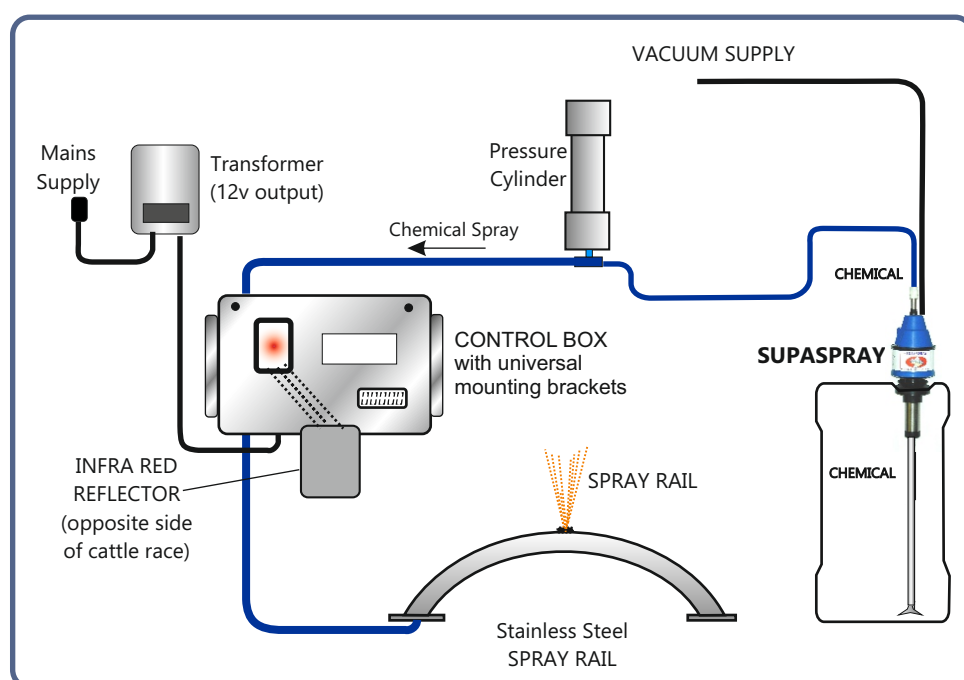
- Dispenser for common paper towel rolls
- Made entirely of stainless steel
- Accepts all standard sizes of paper rolls
- Multi level rear mounting brackets
- Pricing compares very favourably with commonly-available plastic versions
- Rugged and Strong: many times the active life of plastic versions



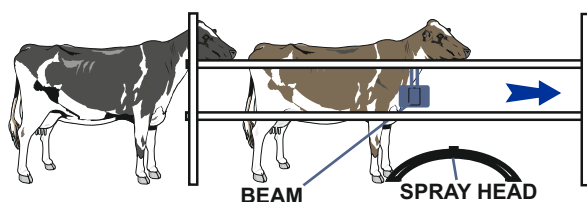
WS12
£63.75

MOOJET FULLY AUTOMATIC WALK-OVER TEAT SPRAYER

- Stainless Steel spray rail with dual stainless spray heads.
- Controller/Infra-red detector system in stainless-steel box.
- Reflector on stainless-steel mounting panel.
- Mains powered low-voltage transformer.
- SupaSpray hi-performance vacuum-operated teat sprayer pump.
- 30 metres (100 feet) nylon chemical tubing and all necessary

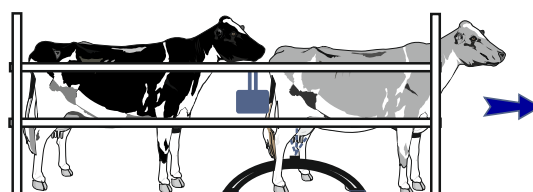


SPRAY RAIL
(Dual spray nozzles)



How The System Works

Cows enter cattle race in single file.
The animal breaks infra-red beam
and primes pump.



As she exits infra-red beam
the sprayer is activated.

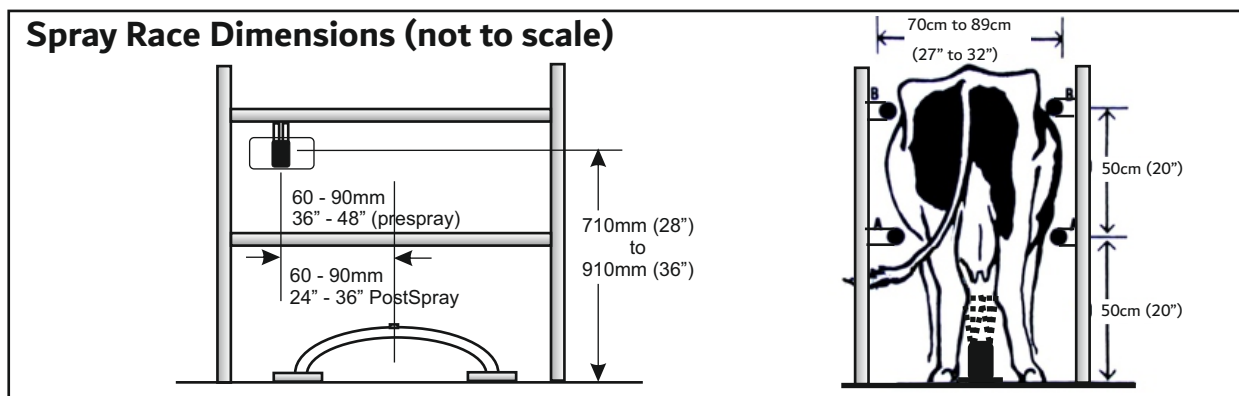
The MooJet may not always achieve sufficient coverage of an animal's teats to effectively disinfect them every time she passes through (especially if the animal has misplaced or misshapen udders).

Regular monitoring of somatic cell counts is essential during use of the MooJet, reversion to manual dipping is advised to control any infections which do occur. We give no guarantee that the MooJet will totally prevent mastitis outbreaks from occurring.

MOOJET SPARES AND ACCESSORIES

MOOJET SYSTEM and Moojet Spare Parts Prices
(for unlisted items, call office or see web site)

Part No	Part	Price
MJ1	Moojet system complete	£2,450.00
AJ2	Twin Nozzle Spray Rail	£999.00
MJ2B	Stainless Steel Spray Nozzle – State Size / model	£44.28
MJ2D	Swivel Elbow Assembly.	£67.88
VS21B	30 Metres of 8mm blue chemical delivery tube.	£51.50
VS21	20 Metres of 8mm blue chemical delivery tube.	£33.33
MJ5A	12 Volt Chemical Solenoid – without box.	£265.00
MJ6	Pressure Cylinder.	£64.26
MJ7	12 Volt Transmitter and reflector	£316.45
MJ8	Reflector and Stainless Steel mounting	£48.76
MJ9	Printed circuit Board	£301.35

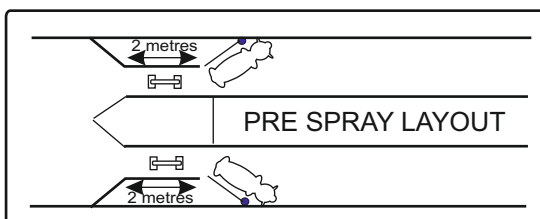


The Race

No Spray Race is supplied with the Spray Rail.

The Dimensions of the Spray Race are important. Dimensions will vary with size and breed of animal.

Cows must pass over the centre of the spray rail in a controlled and steady flow.

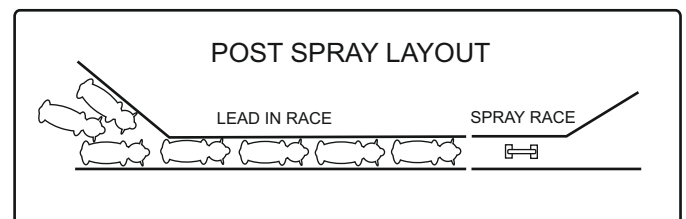


Position of the Spray Race

The lead-in to the spray race should be of sufficient length to allow the animals to settle into a steady single file (ideally 10 metres plus).

The race should be away from areas that can affect cow flow, such as corners, doorways, footbaths, calf boxes, sort systems etc...

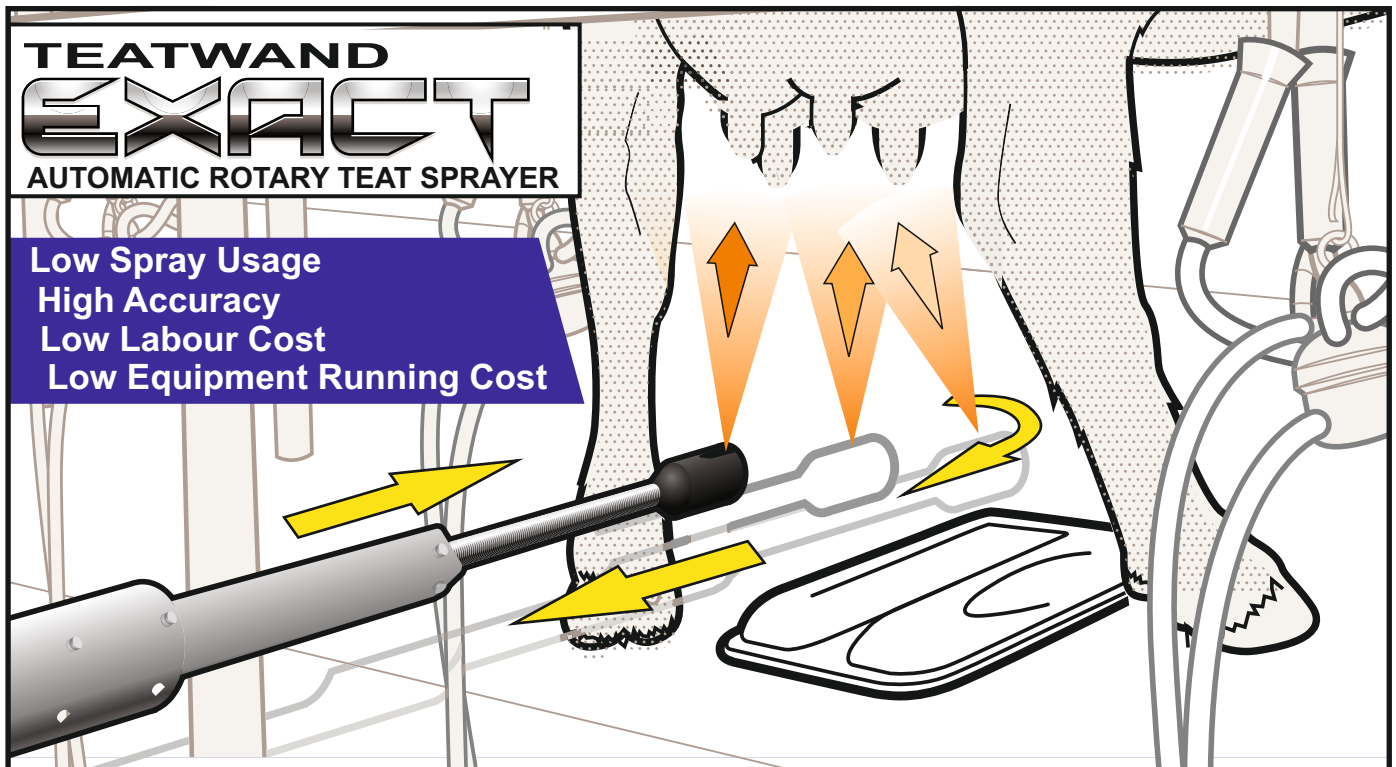
Do not site the spray race where wind can affect the teat spray pattern.



MooJet is not a substitute for good husbandry. Even when using the MooJet, it is essential that normal standards of hygiene are maintained at all times. As with manual spraying, if any infection enters the herd, additional or supplementary spraying or dipping may be required until it subsides.

Teatwand EXACT

Automatic Teat Spray System for Rotary Milking Parlours



Higher Accuracy, Better Coverage
Better results Reduced Costs

Computer Contolled
Precision Spraying

Dual Angled Spray Heads
& Triple Spray Pattern
for Great all-round coverage



TEAT WAND EXACT SYSTEM: Guide Price £25,000.00
FOOT SPREADERS - EACH £60.00

SEE TEAT WAND IN
ACTION ON OUR WEB SITE

TEAT WAND EXACT

How it works - Why it Works So Well



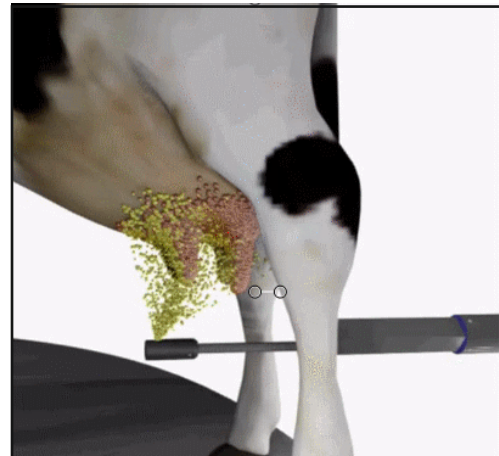
Wand Advances: First Spray

*"We rate the Teatwand as one of the most valuable parts of our dairy...
... it is more consistent and effective than having someone standing there spraying."
Anderslea Dairies, Denison, Victoria, Australia.*

The combination of the highly accurate cow position sensor and the new intelligent control system minimizes spray usage yet provides excellent coverage of all sides of all four teats.

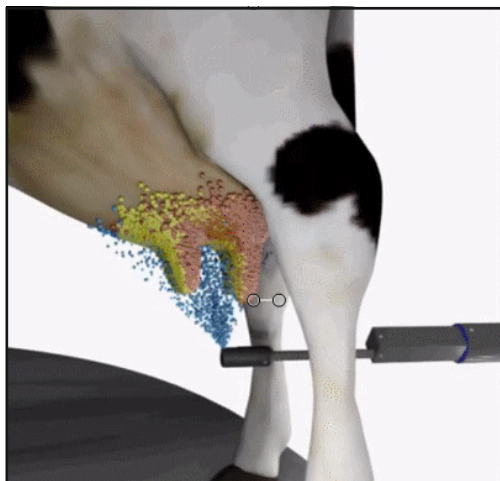
Typical Spray usage is only 20mL per cow.

The increased spray savings and better coverage will soon pay the cost of the **TEATWAND EXACT** in reduced teat spray usage, less clinical mastitis, and lower SCC.

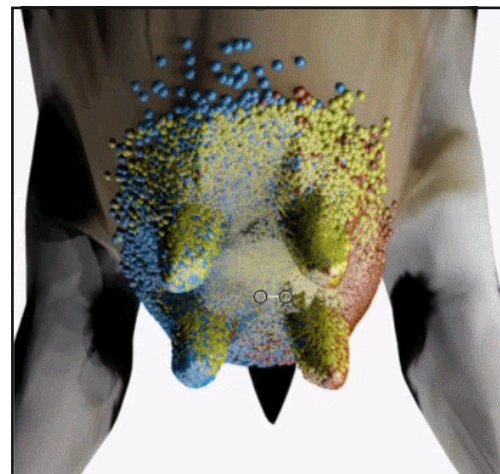


Wand Stops: Second Spray

*"...The Teatwand system consistently delivers a teat spray that provides full coverage of the udder of every cow on the platform..."
Prospect Farm Ltd, Haupiri, New Zealand*



Wand Reverses: Third Spray



Great Overall Coverage

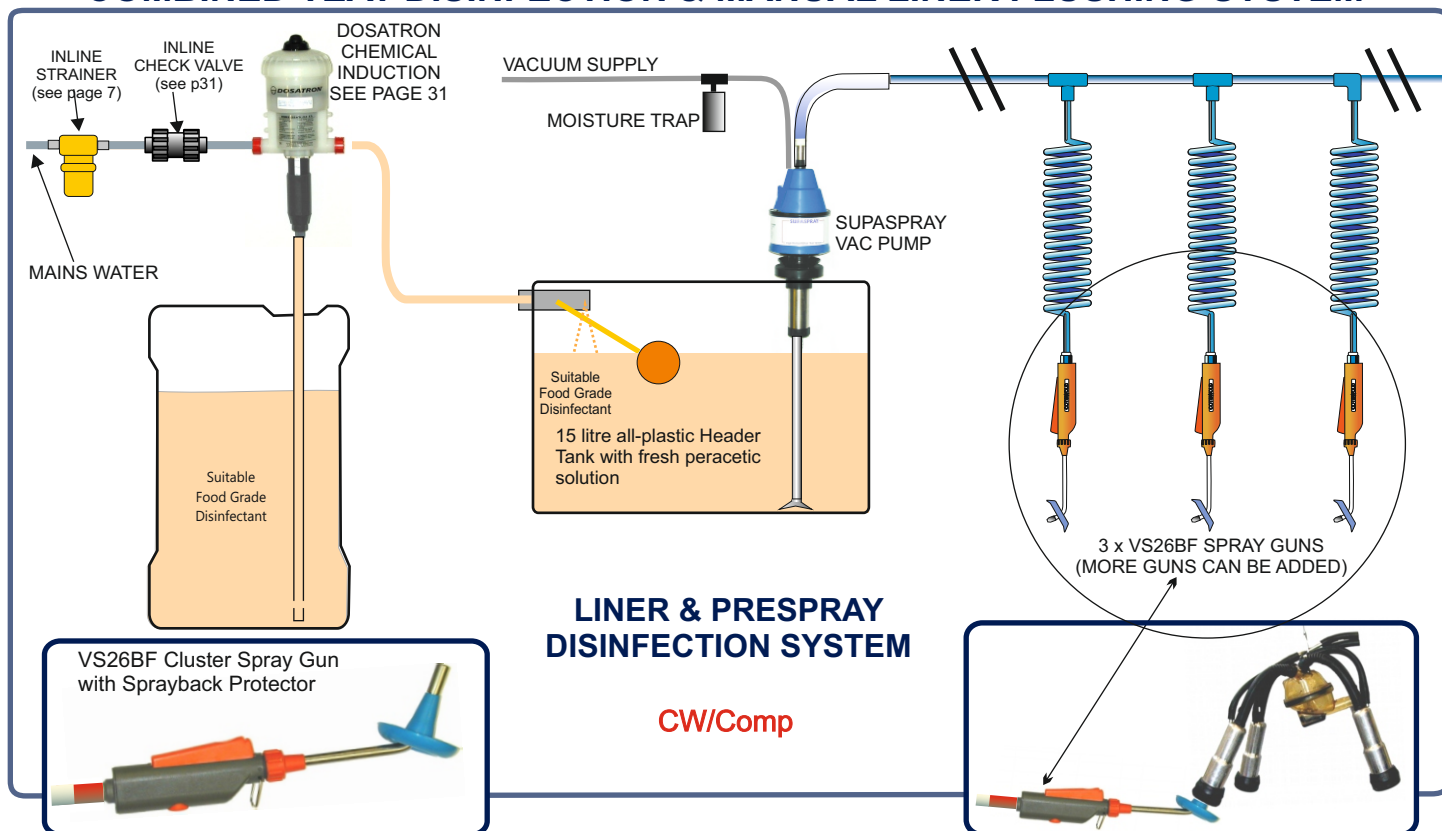
The TEATWAND by numbers:

Length Extended	1700mm
Length Retracted	1200mm
Spray Duration	3 Variable Patterns
Spray Volume	16ml to 30ml (settable)

MANUAL UDDER WASHING & CLUSTER DISINFECTION

FULLY AUTOMATIC CLUSTER FLUSHING SYSTEMS

COMBINED TEAT DISINFECTION & MANUAL LINER FLUSHING SYSTEM



Manual Line Flushing System!

the system washes and disinfects at the same time
disinfects using a safe low level peracetic acid solution - check exact amount with chemical supplier

Dirty Teats and Udders:

washing only with water removes dirt but leaves bacteria
washing dirty cows with a disinfectant solution removes dirt and disinfects at the same time
use as a pre-milking wash to control environmental mastitis bacteria such as Strep. Uberis

Clusters: Disinfect Clusters and Wipe Dry Between Cows

wash and disinfect dirty clusters
wash and disinfect clusters after milking cows with known high cell counts, to control contagious mastitis bacteria such as Staph. Aureus

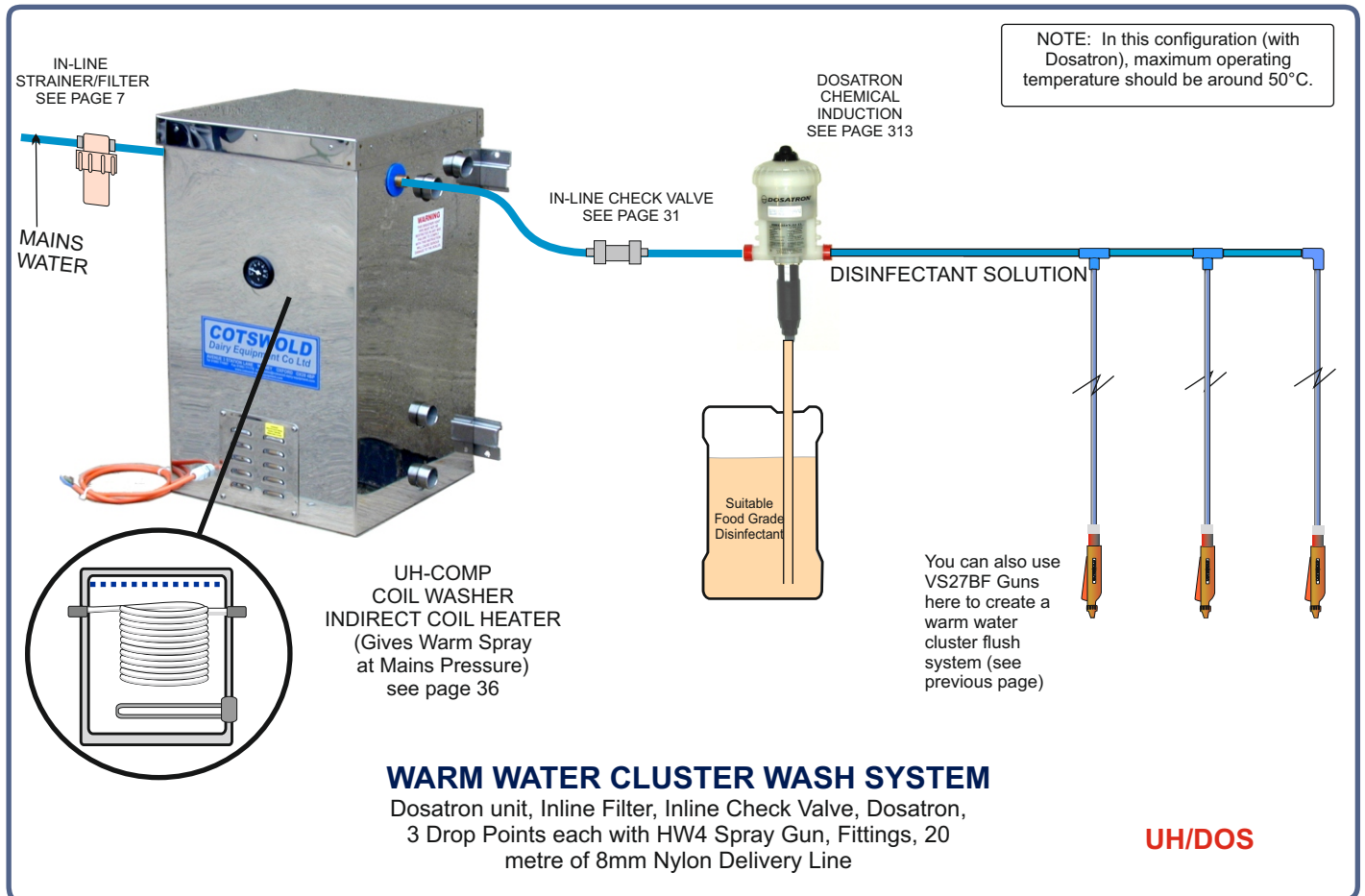
Hands & Gloves:

use to sanitise hands and gloves to reduce bacteria transfer from cow to cow at milking time.

CW/Comp	Complete 3-Gun System with Supaspray, Peracetic Tank, Dosatron, Check Valve, 3 x Guns, Fittings & 30 metres horizontal tubing	£1,100.00
VS2BF	Drop Point complete with fittings and VS26BF spray gun	£69.90
CW11	Header Tank(15 Litre / Float Valve etc) for Peracetic acid	£150.66
VS26BF	Cluster Spray Gun with 6.5" Lance & Backspray Protector	£39.69
VS26BF-9	Cluster Spray Gun with 9" Lance & Backspray Protector	£43.74
VS26BF-12	Cluster Spray Gun with 12" Lance & Backspray Protector	£47.79
WH19	In-Line Water Strainer ¾" connections (full details page 8)	£49.95
WH19A	In-Line Water Strainer 1" connections (full details page 8)	£52.95
CF46	In-Line Check Valve ¾" connections (full details page 8)	£50.50
VS21B	30 metres 8mm blue nylon delivery tubing	£51.50
VS21	20 metres 8mm blue nylon delivery tubing	£33.33
	For more details of Dosatron see page: 31	
	For more details of Supaspray see page: 14	
	For fully automatic cluster flush see page: 27	

WARM WATER WASHING SYSTEM

(With Added Disinfectant)



Use the Cotswold Warm Water Disinfection System to clean and sanitise:

- Udders
- Teats
- Clusters
- Hands & Gloves

Warm Water Cluster Washer System Prices of Component Parts

Part No	Part Description	Retail
UH/DOS	Warm Cluster Washer - with 3 spray guns, Dosatron, Filter, Check-Valve fittings, Tubing	£1,539.00
UH5	Coil Washer - main unit only - see page 36 for extended details	£827.00
DOS250	Dosatron Chemical Injector - see page 31 for extended details	£510.00
CF46	One Way In Line Check Valve - see page 31 for additional details	£49.95
WH19	Inline Water Strainer - see page 7 for additional details	£49.95

COTSWOLD CLUSTER FLUSH

Fully-Automatic Cluster Flushing

ROTARY PARLOURS
A Version for Rotary Parlours
is Now Available. For Videos
see Our Web Site



"... since the installation our cell counts have more than halved and continue to fall. The Cluster Flush has been a sound investment and has worked faultlessly since it went in."

Andrew Blaney, 200-plus cows - N Ireland.



The Cotswold Dairy Cluster-Flush System:

- Quick and Easy To Install
- Adapts to Most Manufacturers' Systems
- Vigorous Flushing Action Effectively Sanitises Milk Tube, Claw and Liners
- High Flushing Volume
- Unique Pressure-Cylinder System, giving Consistent Volumes of Water & Pressure over the Entire Installation
- Unique Anti-Syphon Valve System - effectively preventing water / chemical mixture being sucked into milk-line
- Versions for Swing-Over Parlours, Hi-Level and Low Level Double-Up Parlours, and Rotary Parlours.

See it in action on our web site (videos)

Why Install A Cotswold Cluster Flush

The milking cluster is a known reservoir of bacteria responsible for mastitis being passed from cow to cow during milking.

With a typical milking routine, dirty or contaminated clusters are often attached to clean sanitised teats!

Sanitising clusters between cows is a recognised method of reducing the transfer of mastitis from cow to cow during milking.

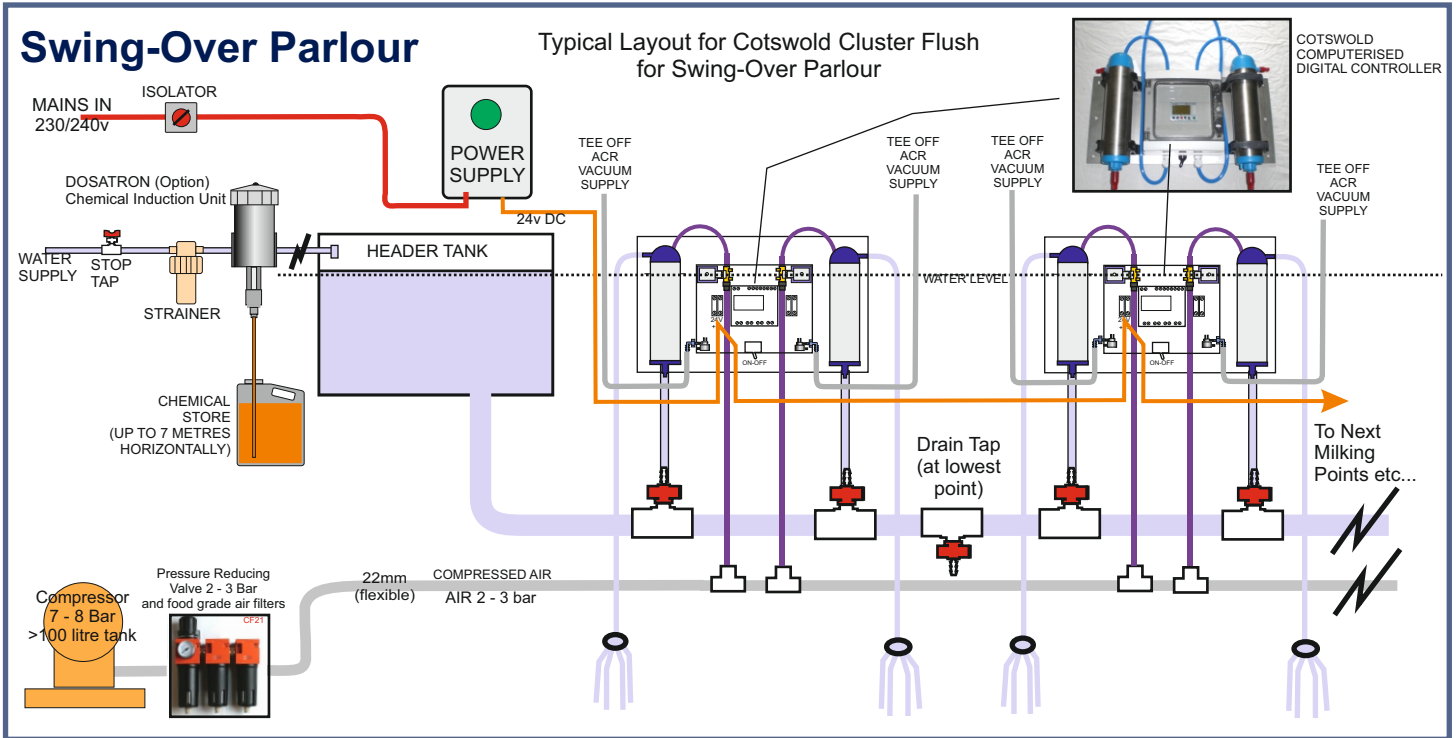
Benefits of Automatic Cluster Flushing...

- Quality of application independent of operator skill
- Exact amount of solution is dispensed every time
- No additional labour is required
- Both cluster and liners are sanitised

COTSWOLD CLUSTER FLUSH

Fully-Automatic Cluster Flushing

INSTALLATION - LAYOUT SCHEMATICS

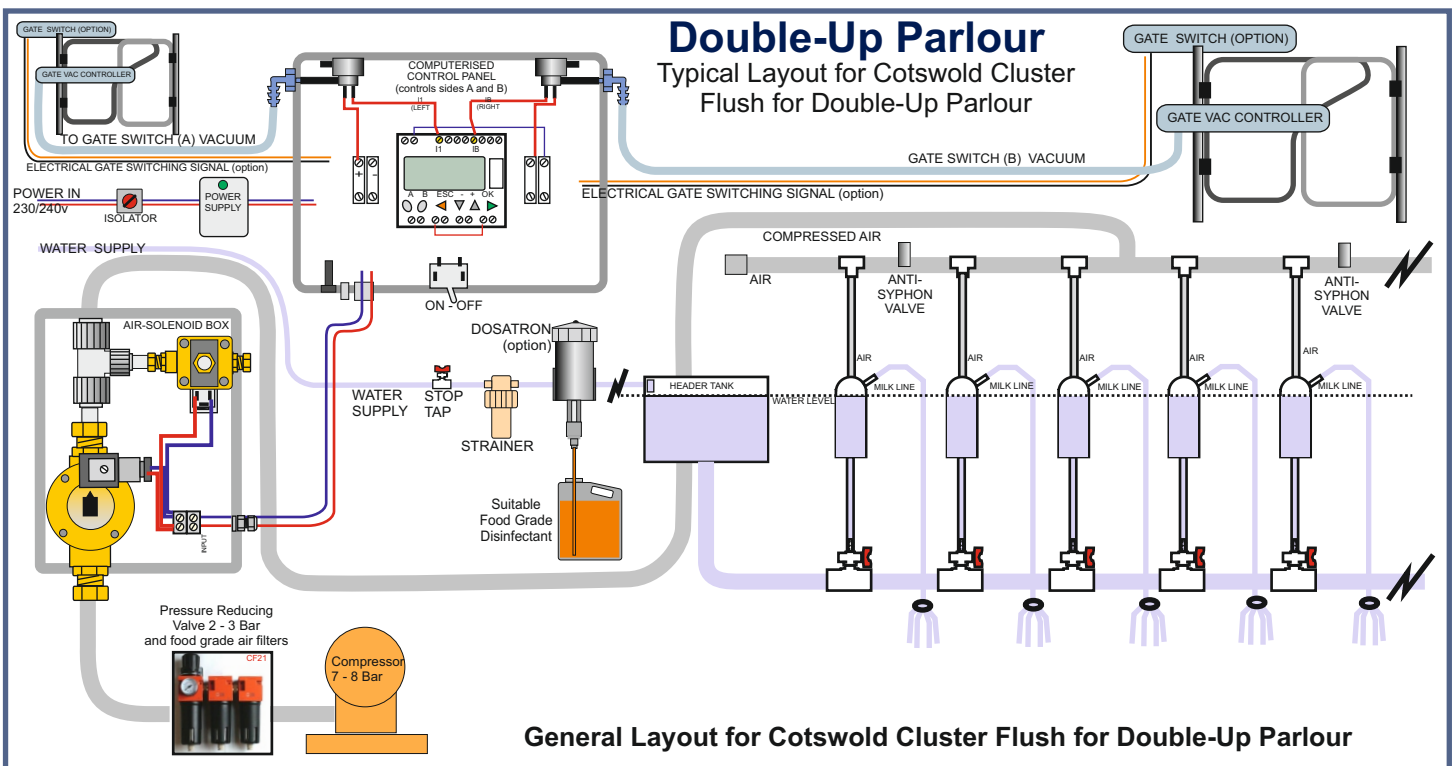


These Schematic drawings will help you to visualize your probable installation. Typically, in addition to the comprehensive kit of parts provided by Cotswold, you will need the following items:

COMPRESSOR: 100-plus litres, > 6 Bar

DOSATRON OR ALTERNATIVE to accurately add chemical to the system

MAIN POWER ON/OFF SWITCH (Should be easily accessible as we recommend the system be turned off after use)



COTSWOLD CLUSTER FLUSH

CF001	per point (Swingover & Rotary Parlours) inc Header Tank(s) Power Supply etc...	£520.00
CG002	per point (for Double-Up Parlours) inc Header Tank(s) Power Supply etc...	£460.00
DOS250	Dosatron Chemical Dispenser (full description page 31)	£510.00
CF46	One-Way Check Valve (pic page 31, position on input side of Dosatron)	£49.95
WH20	In-Line Water Strainer (fposition on input side of Dosatron) - see page 31, 3/4" BSP	£49.95
CF35	3-Stage Food-Grade Air Filter Set with regulator and gauge	£351.00
CF48	Cluster Hanger Assembly (inverts cluster) state make and model	£14.00
ACR100	Claw Drop System (per point)	£62.37

A Standard Installation Kit will include:

- Power Supply Unit 230v 50hz : 24v dc
- Timer control boxes and solenoids
- Header tanks, water lines, pressure vessels
- Compressed air lines
- Brackets

The above basic cluster flush unit prices do NOT include:-

- A suitable compressor
- Mounting Rails if needed in the parlour
- Wire, Cable, Fixing Screws etc ...
- Provision of a water supply to the header tank(s)

Some systems may also require vacuum-clamp shut-off valves to be fitted to the long milk tubes.

SERVICE / MAINTENANCE PERIODS.

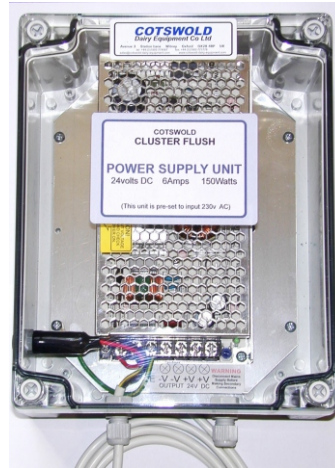
Servicing should be carried out in proportion to the usage of the system.
 Service the cylinders **at least** every 22,000 flushes

Part Num	SPARES AND ACCESSORIES	Retail
CF38	Stainless Cylinder Assembly Complete	£208.22
CF40	Header Tank Assembly Including Internal Float Valve etc...	£150.66
CF21	Set of 3 replacement Food Grade Filter Elements (change every 3 - 6 months)	£142.56
CF91	Non-Return-Valve (Milk Valve)	£13.60
CF99	Cylinder Service Kit (complete insides - replace at least every 22,000 flushings)	£80.00
CF99B	Mini Spares Kit: (Valves Only)	£35.00
CF24	3-Way ¼" Solenoid Valve 24V DC EPDM inc plug (swingover/rotary parlours)	£84.00
CF24A	Spare Plunger/Diaphragm for CF24 Solenoid	£48.60
CF25	1" BSP Large Air Solenoid Valve 24v DC (Double Up Parlours)	£175.88
CF25A	Spare Diaphragm for CF25 Solenoid	£37.80
CF26	½" BSP Normally Open Solenoid Valve 24v DC (Air Exhaust Valve) Double-Up	£148.00
CF26A	Spare Diaphragm for CF26 ½" Solenoid	£42.12
CF27	Vacuum Switch - Round with Metal Band	£41.04
CF28	Power Supply Unit 230v : 24v 150 watt	£237.60
CF29	Digital Programmable Controller Crouzet (programmed, state model)	£233.28
CF29B	Digital Controller Complete (See-thru box, solenoids etc...) state model	£669.60
CF30	Y Piece - White Connector (Connection into milk hose)	£10.53
CF31	Side Entry Valve for Header Tank - No Float	£18.68
CF37	½" Tap	£7.67
CF39	Clear Outlet Tubing 10mm x 20mm x 30m roll (you may need 20mm Easzy Clips - see below)	£53.37
CF91	External Non-Return Milk Valve	£13.60
CF69	Inlet Tubing 13 x 19mm Clear Soft Tubing - 30 metre roll	£73.71
CF112	Easzy Clip 20mm, Stainless, Can be re-used using Easzy Hand Tool (CF110)	£0.50
CF110	Easzy Hand Tool (for setting, removing & re-setting easzy clips)	£45.36
CF27	Pressure Switch (in controller)	£41.04

COTSWOLD CLUSTER FLUSH - Major Parts



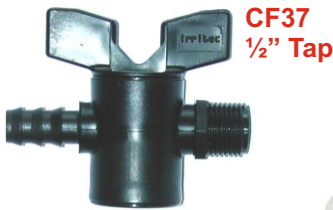
CF31
Side Entry Valve for
Header Tank -
(No Float)



CF28
Power
Supply



CF35
Food Grade
Air Filter Set



CF37
1/2" Tap



CF91
Milk Valve



CF30
Swept Tee



C99B
Mini
Service
Kit



CF29
Digital Controller
(programmed)

PRICES ON
PREVIOUS
PAGE



CF99
Cylinder
Service Kit



CF110
Eazy Clip Tool

CF112
20mm Eazy Clip



CF48
Cluster Hanger



CF27
Vac Switch



CF24
Solenoid



CF25
Solenoid



CF26
Solenoid

DOSATRON Proportional Entrainment Pump

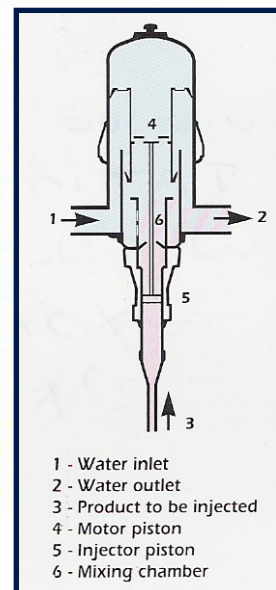
Chemical dosing pump.
Suitable for pressurised water supplies (0.3 – 6.0 Bar).
Not suitable for using with gravity-fed water from a tank.
Very accurate even at low dosing rates.
Dosing remains accurate during fluctuations of water flow.
Dosage rate between 0.2% and 2.0%.
Capable of working at 10 litres to 2,500 Litres per Hour.
Powered by water pressure – No electrical connections.
Strong chemical resistant construction.
Suitable for use with Hypochlorite and Peracetic acid.
Will work accurately up to Max 40° C.
Can be used with Coil Udder Washer for a warm disinfectant pre-milking wash system.



DOS-250
£510.00

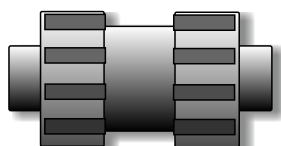
SPECIFICATION

Dosage Rate	0.2% - 2.0%
Flow Rate	10 - 2500 Ltr/Hr
Operating Pressure	0.3 - 6 bar (4.3 - 85 psi)
Max Temperature	40°C
Pipe connection size	3/4" BSP male
Extremely quiet in operation	
PVDF housing is resistant to dairy chemicals	



IN-LINE WATER STRAINER

IN-LINE NON-RETURN-VALVE



CF46 **£49.95**
In-line check-valve
(recommended for use
with Dosatron),
3/4" BSP female connections



WH19 **£49.95**
In-line water strainer with stainless steel
filter, 60-mesh 300 micron
(recommended for use with Dosatron),
3/4" BSP female connections.
For Full Details see page 7



DOS/KIT
Full set of seals
and mouldings
to service your
Dosatron
£68.05

UDDER WASHING SYSTEMS

Recirculating Udder Washer
Mini-Boiler
Coil Udder Washer
Wall Mounted 25 litre Heater
Wash Guns

WASH STATION

MINI BOILER

(10 gallon mini heater)

All-stainless-steel mini dairy water heater
10 gallon / 45 Litre capacity, up to 95°C
Thermostatically controlled temperature.
Floor standing / wall mounted fully insulated
stainless steel cabinet.
3 KW stainless steel heating element.
Warm/hot water available for calf feeding,
calvings, general dairy use...
Needs only a 13 amp electricity supply.



SIZE
16.5" x 16.5" x (H) 27.5"
420mm x 420mm x (H) 700mm

Mini Boiler - 10 Gallon Water Heater

Part No	Part	Retail
MB10	Stainless Steel Water Heater, Floor Standing 10 Gallons/45 Litres	788.00

RE-CIRCULATING UDDER WASHER



Re-Circulating Udder Washer:

Premium Udder Wash product.

Wall mounted stainless steel cabinet.

Built-in chemical dispenser.

Suitable for large and small parlours.

Capacity to wash every cow or selected cows.

Gravity-fed pumped system. Not dependent on local water pressure.

Automatic chemical entrainment into incoming supply - stored water is sanitized.

Hot water is continuously circulated around the system.

Instant hot water at every wash point.

"Frost mode" - prevents freezing, even in the coldest weather.

15 Litre hot water tank with 3 KW heating element.

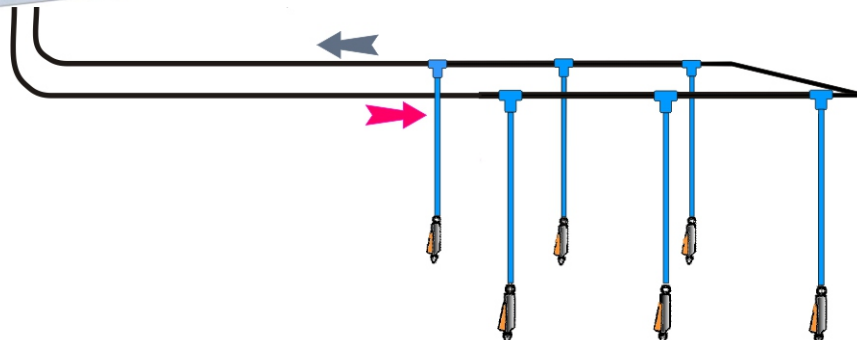
Needs only 13 amp electricity supply.

Will work on sites with poor water supply.

Thermostatically controlled temperature – Max 40 degrees C.



Typical Installation



RECIRCULATING UDDER WASHER PRICES

Prices - Udder Washer

Part No	Part	Retail
UWCOMP	Udder Washer - With 3 Guns, Droppers and Fittings. (Tubing not included)	£870.00
UW	Udder Washer Unit - No Guns Or Fittings	£783.00

Prices - Udder Washer Spares and Accessories

Part No	Part	Retail
UW2	Chemical Entrainment Pick-Up-Tube & non return valve	£26.68
UW3A	15mm BSP Adaptor Flow	£7.67
UW3B	15mm BSP Adaptor Return	£7.67
UW3C	Bartol Fitting 15mm	£9.40
UW7	Magnetic Drive Recirculating Pump	£225.00
UW9	Water Tank	£78.30
UW10	Return Pipe with Fittings (exterior)	£29.70
UW11	Water Solenoid 230v	£107.75
UW11A	Water Solenoid Coil only (state type/voltage)	£55.50
UW13	Thermostat 15 amp	£59.95
UW13A	Stainless Steel Capillary Protective Tube (for thermostat)	£12.59
UW14	16 amp 3-position Toggle Switch	£25.92
UW15	15 amp Level Switch (2 levels)	£74.84
UW16	Venturi Assembly	£53.45
UW17	Control Box Complete	£261.00
UW21	Air Bell c/w pipe gland tube and clip	£28.35
UW22	3 Kw 9" Immersion Heater- Incoloy	£55.56
UW24	Return Pipe with end fitting (interior)	£20.75
UW26	Extra Drop Point	£26.20
UW27	Udder Wash Gun	£14.75
UW29	3/8" PVC Tube - 30 metre coil	£42.45
UW30	Manifold Tee Piece	£87.32
UW31	Udder Washer Kit (3 Guns, 2 Tees, 1 Elbow, 3 Hose tails, 1 Manifold T)	£87.32
UW33	Combined Hose Tail and Bush (To be glued into Elbow or T)	£15.00
UW37	Brass Nozzle for small udderwash gun (Pack 3)	£11.99
UW39	Handi-Wash Gun for 1/2" hose	£12.42

COIL UDDER WASHER (Combi Heater)

Versatile water heater

A ready supply of fresh clean warm water at mains pressure.

Floor-standing or wall-mounted stainless steel cabinet with stainless-steel fully-insulated inner vessel.

10 Gallon / 45 Litre capacity Heater

Thermostatically controlled 3 KW heating element.

A copper heat-exchanger coil runs through the hot water in the heater.

Fresh warm water supplied at mains pressure via the coil, (good water pressure required)

Suitable for udder washing in large and small parlours.

Capacity to wash every cow or selected cows.

Maximum flow is dependent on mains water pressure.

Warm water available for calf feeding, calvings etc.

Needs only a 13 amp electricity supply.



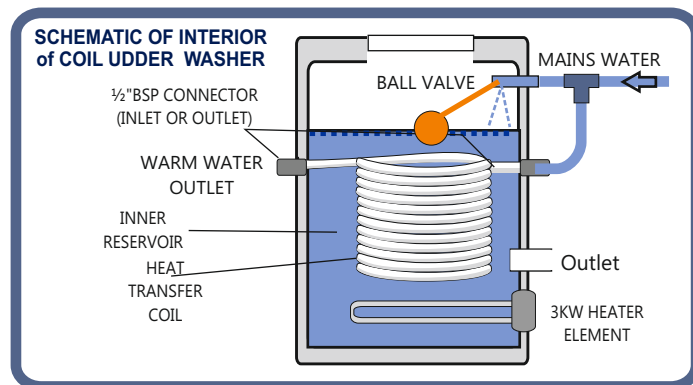
Chemical entrainment is possible using a Dosatron (see page 31)

SIZE

16.5" x 16.5" x (H) 27.5"
420mm x 420mm x (H) 700mm

10 Gallon / 45 Litre Water Heater

This unit is available WITHOUT the internal heat exchanger, providing a water heater with ball-valve fill offering 10 gallons / 45 litres at up to 95°C. (see next page)



UHCOMP	Coil Washer - With 3 ,Guns, Droppers & Fittings. (Tubing Included)	£906.00
UH10	Coil Washer Unit only - No Guns or Fittings	£830.00

HW1A	Copper Coil Assembly (earlier coil washer)	£165.00
VS21	Nylon Installation Tube - 8mm x 5.5mm x 20m coil	£33.33
VS21B	Nylon Installation Tube - 8mm x 5.5mm x 30m continuous coil	£51.50
HW4	Udder Wash Wash Gun with Fan Jet	£12.45
HW4A	Nozzle Assembly Kit	£7.39
HW5	3-Gun Installation Kit	£94.25
VS6	90 degree Elbow	£6.90
VS7	Straight Connector for gun (8mm to 1/8" BSP)	£6.90
VS7A	Straight Connector 8mm to 8mm	£6.90
VS5	Tee Piece	£6.90
CS8	8mm nylon to 1/2" BSP Female adaptor	£18.10
WH9A	Stainless Steel Element 3kw 14"	£55.51
WH13	Rod Thermostat	£38.30

25 LITRE WATER HEATER / UDDER WASHER



Wall mounted Water Heater / Udder Washer

- Stainless-steel cabinet.
- 25 Litre capacity Water Heater– Max temp 50 Degrees C.
- Will work on sites with poor water supply.
- 3 KW heating element.
- An ever-ready source of warm water for jobs on the farm.
- Can be used to udder-wash all cows in a small milking parlour.
- Use to wash occasional selected cows in a large milking parlour.
- Needs only a 13 amp electricity supply.

System Prices

Part No	Part	Retail
WH2	25 Litre Wall Mounted Water Heater	£485.00

WASH GUNS



WASH GUN
UW27 £14.75



AQUA SPRAY GUN
CS4 £13.55



COIL WASH GUN
with Fan Jet, fits Nylon Tube
HW4 £12.42



HANDI WASH GUN
with Fan Jet, fits Rubber or
Plastic Hose
UW39 £12.42

The COTSWOLD WASH STATION

NEW MODEL

Quickly and Easily Installed
Very Low Running Costs

Now Fitted With:

- **UK-Made Instantaneous Heater with Hands-Free and Auto-Shut-Off Features**
- **New High Quality Soap Dispenser (with Soap)**
- **Deeper Wider Bowl.**

SIZE (ins/mm):

WIDTH: 20.5" 520mm
HEIGHT: 30.0" 760mm
DEPTH: 18.5" 470mm

CONNECTIONS

COLD WATER: 15mm connection (push-fit)
(important) Maximum Pressure: 60psi / 4 bar
Minimum Pressure: 14.5psi / 1 bar

ELECTRICITY: 3Kw 230v (13 amp single phase supply)

WASTE: 1½" BSP

- Hygienic hands-free operation via infra-red detector and auto-shut-off valve.
- Easy-clean stainless steel construction.
- Now with deeper wider bowl, plenty of space to wash lots more than hands...
- Only cold water & electrical connections (only 13amps).
- Safe pre-set (adjustable) washing temperature.
- Easily copes with variations in supply pressure, supply temperature & ambient temperature.
- Includes soap dispenser with easy-change anti-bacterial soap cartridge.
- Eco-friendly & energy efficient, shuts off after 30 seconds unless re-activated.
- Suitable for all industries, particularly farming, food & brewing, workshops, catering etc...

PERFECT FOR DAIRY, POULTRY and MOST INDUSTRIES

New Instant Heater
New Soap Dispenser
Wider Deeper Bowl



WS/1



EXCESS WATER PRESSURE
High water pressure (in excess of 60psi)

We can now supply an efficient and extremely inexpensive pressure reducing valve to handle this.

Pressure Reducing Valve
with 15mm Adaptors

WS 10 £49.95

WS1	Wash Station Complete (inc soap cartridge and waste fittings)	£470.00
WS2	Spare Autosensing Water Heater with auto shut-off	£138.00
WS3	Soap Dispenser Unit	£28.90
WS4	Soap Re-fill (anti-bacterial) (each)	£19.60
WS5	Soap Re-fill (PACK 6)	£110.40

TANK WASHERS

ACCESSORIES

Solenoid Valves,
Pressure Control Valve,

AUTODOSER

Hands-Free Chemical
Dispensing

BULK MILK-TANK WASHERS

Specification

Floor Standing
All-Stainless Steel cabinet.
Easy to install.
Requires only a 13 amp Power supply.
Built in water tank.
Will work with poor water pressure.
Single chemical entrainment.
A variety of wash settings to suit every installation.

Single Pump Models:

Supplied as standard with Two spray heads.
Will operate up to three spray heads.
68 Litre water tank.
To wash tanks up to 2270 Litres (500 Gallons).

Twin Pump Models:

Supplied as standard with Four spray heads.
Will operate up to six spray heads.
100 Litre water vessel.
Will wash tanks up to 4500 Litres (1000 Gallons).

Hot Wash Models:

Max temperature 50 degrees C.
3 KW Stainless steel heating elements.
Stainless Steel spray heads recommended.
Recommended for DX Tanks.

Disinfectant Final-Rinse Models:

Additional chemical entrainment solenoid.
Sanitising chemical added to final rinse water.
Mandatory in some areas.
Recommended where bore-hole water is used.



Part No	Part	Retail
TW500A	Single Pump Tank Washer	£1,158.00
TW500A HY	Single Pump Tank Washer with Hypo	£1,228.00
TW500HW	Single Pump Tank Washer, Hot Wash	£1,348.00
TW500HW HY	Single Pump Tank Washer, Hot Wash, & Hypo	£1,446.00
TW1000A	Twin Pump Tank Washer	£1,390.00
TW1000A HY	Twin Pump Tank Washer with Hypo	£1,532.00
TW1000HW	Twin Pump Tank Washer, Hot Wash	£1,585.00
TW1000HW HY	Twin Pump Tank Washer, Hot Wash, & Hypo	£1,712.00
TWSW1000	Switched Pump Tank Washer	£1,442.00
TWSW1000HY	Switched Pump Tank Washer with Hypo	£1,582.00
TWSW1000HW	Switched Pump Tank Washer, Hot Wash	£1,647.00
TWSW1000HW HY	Switched Pump Tank Washer, Hot Wash, & Hypo	£1,705.00

BULK MILK TANK WASHER - SPARE PARTS

Most commonly Used Tank Washer Spare Parts

Part No	Part	Retail Price
TW8	Chemical Entrainment Ass'ly, & Non-Return Valve - for Iodophor	£30.35
TW8A	Chemical Entrainment Ass'ly & Non-Return Valve for Hypo	£30.35
TW9	Motor & Pump Unit , waterproof Bearing & Long Life Brushes	£215.00
TW11A	Pump Brushes (new type - Cotswold) per pair *fit all versions of TW9	£15.87
TW17	Solenoid Assembly Complete	£97.75
	(TW17A is no longer available, use TW17 to replace it)	
TW34	Micro-Control - for floor standing single/twin pump - state model	£267.00
TW35	Micro-Control - for switched floor standing single/twin pump - state model	£299.00
TW55A	Multi-Way Changeover Valve (for 2 tanks)	£96.40
TW56	Standard Mexican Hat SprayHead (12½" / 317mm)	£30.78
TW57	Extra Long Mexican Hat SprayHead (19½" / 495mm)	£37.70
TW64	Woskol Spinner- Stainless Steel (13½" / 343mm)	£66.90

We can no longer supply PCBs or chips for wall mounted tank washers.

More spare parts on next page...



Chemical Suction Tube
with Non Return Valve
TW8 £30.35

Tank Washer Solenoid
TW17 £97.75



Standard "Mexican Hat" Spray Head
TW56 £30.78



Plastic Spray Head (long)
TW57 £37.70

Stainless Steel "Woskol" Spray Head
TW64 £66.90



BULK MILK TANK WASHER - SPARE PARTS

...continued



WATER PUMP

Cotswold plastic and stainless steel pump equivalent to the Carter pump, suitable for water / dilute chemicals up to 80°C

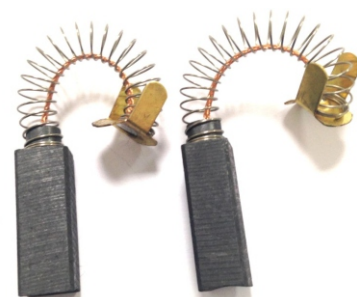
(brushes for this pump do NOT fit the Carter pump)

Water Pump **TW9 £215.00**

8.5 gals / min (38 Litres / min)
(as pictured - with clip-on connection)

Pump with 3/4" BSP threaded connection)

TW9A £222



TW11A BRUSHES £15.87

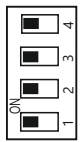
PRICES - Tank Washer Spare Parts and Fitting Accessories

TW3	Tank Non-Return Valve for TW500A floor standing	£29.95
TW3A	Tank Non-Return Valve, for wall mounted tank washer	£29.95
TW3B	Non-Return Valve & Down Pipe Assembly (for Twin Pump Machines)	£29.95
TW4	Bulkhead Outlet Assembly, 500 model	£29.00
TW4A	Bulkhead Outlet Assembly, 1000 model (state left or right hand pump)	£52.95
TW6	Rubber Elbow	£14.75
TW10	Pump Seal Kit - Rotary and Stationary seals	£34.00
TW10A	Plastic Pump Kit - Volute, Backplate and Impeller (no seals)	£32.00
TW10B	Complete Pump Head Assembly including all seals	£99.35
TW12A	Flexible 1/4" PVC Tubing (per metre)	£1.85
TW15	Solenoid Coil and Plunger (TW17 Type)	£45.10
TW17C	Black Solenoid Coil (fits TW17a and TW17e)	£63.56
TW24	Pressure outlet - State if pre-microcontroller type	£27.27
TW25	3/4" Wash outlet	£10.20
TW26A	Push-Button Switch and Shroud, current type	£18.47
TW27	Small Clips for 1/4" Tubing - pack of 4	£4.10
TW39	External Wall-Mounted Control Box - (suits most makes tank washer)	£379.90
TW45	Internal Control Box for Wall Mounted Machines - no longer available	£279.00
TW47	Blue PVC Tee Piece (pack of 5)	£53.15
TW48	Blue PVC 90° elbow (pack of 5)	£38.00
TW49	Blue PVC 45° bend (pack of 5)	£13.12
TW50	Blue PVC Straight Socket (pack of 5)	£13.12
TW51	Blue PVC Anti-Syphon Valve and Tee	£24.57
TW52	Plastic Wall Clips for Blue PVC Pipe, (pack of 10)	£11.40
TW53	Flexible 3/4" PVC tubing - 30 metre coil	£81.00

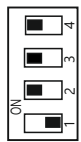
FLOOR STANDING TANK WASHER - DIP-SWITCH SETTINGS

Our wide selection of programs allows the Tank Washer to cope with almost any condition, including poor water supply, difficult-to-remove residues, and large or small tanks. A program should be selected and set by the installation engineer when commissioning the unit. In these layouts, the black rectangle represents the switch dolly, and the black under-line is the pcb. The controller is completely self-contained, and does not rely on any external input to complete its cycle.

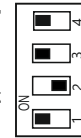
- 1 - STANDARD WASH**
1 PRE RINSE 1 WASH
3 AFTER RINSES
 30 second rinse
 45 second wash
 15 minute dwell
 45 second rinse
 1 minute dwell
 30 second rinse
 (with hypo if fitted)



- 2 - STANDARD WASH WITH EXTENDED DWELL**
1 PRE RINSE 1 WASH
2 AFTER RINSES
 allows for poor water supply refilling the water tank.
 30 second rinse
 45 second wash
 29 minute dwell
 45 second rinse
 3 minute dwell
 30 second rinse
 (with hypo if fitted)



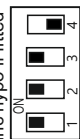
- 3-Engineer's TEST PROGRAM**
1 PRE RINSE 1 WASH
1 AFTER RINSE
1 AFTER RINSE with hypo without a long delay.
 15 second rinse
 15 second wash
 45 second dwell
 15 second rinse
 15 sec rinse
 (inc hypo if fitted)



- 4. ECONOMY WASH**
1 PRE RINSE 1 WASH
3 AFTER RINSES
 30 second rinse
 1 minute dwell
 30 second wash
 10 minute dwell
 30 second rinse
 1 minute dwell
 30 second rinse
 1 minute dwell
 30sec rinse
 inc hypo if fitted



- 5 - SUPER WASH**
1 PRE RINSE 2 WASHES
3 AFTER RINSES
 To allow "pulse" washing for improved cleaning.
 30 second rinse
 1 minute dwell
 30 seconds wash
 5 minute-dwell
 30 second wash
 5 minute dwell
 30 second rinse
 1 minute dwell
 30 second rinse
 1 minute dwell
 30 sec rinse
 inc hypo if fitted



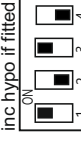
- 6- SUPER WASH Extra prog**
1 PRE RINSE 3 WASHES
4 AFTER RINSES
 To allow additional pulse washing and extra rinsing
 30 second rinse
 1 minute dwell
 30 second wash
 5 minute dwell
 30 second wash
 5 minute dwell....

continues in next column

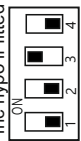
- ... 30 second wash
 5 minute dwell
 30 second rinse
 1 minute dwell
 30 second rinse
 1 minute dwell
 30 second rinse
 1 minute dwell
 30sec rinse
 inc hypo if fitted



- 7- WASH WITH ADDITIONAL & EXTENDED DWELL**
1 PRE RINSE 1 WASH
2 AFTER RINSES
 for delivery pipework of 1" dia (or 3 sprayheads)
 30 second rinse
 1 minute dwell
 45 second wash
 13 minute dwell
 45 second rinse
 1 minute dwell
 30 sec rinse
 inc hypo if fitted



- 8 - WASH WITH ADDITIONAL & EXTENDED DWELL**
1 PRE RINSE 1 WASH
2 AFTER RINSES
 Similar to program 7 but to allow for poor water supply
 30 second rinse
 3 minute dwell
 45 second wash
 22 minute dwell
 45 second rinse
 3 minute dwell
 30 sec rinse
 inc hypo if fitted



DAIRY ACCESSORIES
WATER PRESSURE CONTROL VALVE



Diaphragm
CS6B £13.90

Pressure Control Valve - Brass (3/4" BSP 240v)

CS6 £112.30

230volt SOLENOID VALVES

CEME Valves

3/4" and 1" Solenoid Valves

0.3 - 10 bar

(for coolers, chillers and other large bore requirements)



High Pressure 230v Solenoid Valves 0.3 - 10 bar	Part No	Retail
3/4" Solenoid valve Complete	SVC075	£135.00
3/4" Coil Only	SVC075C	£45.00
3/4" Diaphragm kit	SVC075D	£28.00
1" Solenoid Valve complete	SVC100	£135.00
1" Coil only	SVC100C	£45.00
1" Diaphragm kit	SVC100D	£28.00



Diaphragm kit

Low Voltage Coils/Solenoids Available If Required

ASCO Valves

Low Pressure Hi-Temperature

Direct Acting 1" and 1½" Solenoid Valves

Zero pressure (0-10bar), High-Flow, Hot-Water

(for coolers, chillers and other large bore requirements)

Made in England



Low Pressure 230v Solenoid Valves 0.0 - 10 bar	Part No	Retail
1" Solenoid Valve complete	SVA100	£150.00
1" Coil only	SVA100C	£26.00
1" Plunger & Diaphragm kit AC	SVA100D	£78.00
1½" Solenoid valve complete	SVA150	£280.00
1½" Coil only	SVA150C	£26.00
1½" Plunger & Diaphragm kit AC	SVA150D	£90.00



Diaphragm and Plunger Kit

Low Voltage Coils/Solenoids Available If Required

AUTODOSER

Safe "Hands-Free" Dispensing of Hazardous Chemicals



- Encourages safe handling of hazardous chemicals as required by EU regulations - no manual pouring.
- Now chemical drums need not be kept in the dairy.
- Suitable for all liquid chemicals.
- Accurate dosage between 90ml and 2.4 litres (more by request).
- Accurate easily-set timers.
- Press large front button to dispense accurately measured dose, repeatable time after time, or
- Triggering by remote equipment such as pumps, compressors or switches.
- All stainless-steel construction 1, 2 and 3 pump versions.

Autodoser Prices

Part No.	Part	Retail
CAD1	Autodoser in stainless steel case - single pump	£416.00
CAD2	Autodoser in stainless steel case - dual pump	£518.00
CAD3	Autodoser in stainless steel case - triple pump	£647.00

Autodoser Parts and Accessories

Part No.	Part	Retail
CAD10	Stainless Steel Case (state number of pumps)	£102.50
CAD11	Peristaltic Pump Complete	£155.00
CAD12	Autodoser Pump Housing Complete	£101.25
CAD12A	Pump Tube Assembly including end mouldings	£23.76
CAD13	Pump Housing and Roller Assembly	£38.90
CAD14	Pump Roller Assembly	£31.35
CAD21	Timer / Controller Module - one for each pump	£82.10

WARRANTY / GUARANTEE

We will replace free of charge, any parts other than consumables* which fail in normal use up to 12 months from the date of shipment from the factory. Faulty parts must be returned - carriage paid - within 7 days, together with a full explanation of the fault, and details of when and from whom the item was purchased. Upon receipt we will inspect the returned product and decide whether free repair / replacement should be carried out or if the work will be chargeable. In the event that a charge is to be made, we would normally advise you by telephone, fax or email before proceeding.

*Consumables include elements, thermostats, wiping seals, bearings etc... where warranty is six months. Damage to elements, float switches and thermostats caused by water-borne contaminants such as grit, lime-scale, acids, alkalis, metals and minerals is specifically excluded.

Exclusions. This warranty excludes any item used for a purpose for which it was not designed, or in a way which exceeds the intended parameters of use for that item. Our Warranty does not cover damage or failure due to faulty installation, damage, misuse, or fair wear-and-tear, nor does it apply to freight damage, frost damage, misapplication or misuse, chemical damage (unless the product is specifically designed to work with that chemical), water damage where the water is clearly carrying excess salts or minerals (eg lime-scale, acids, iron...). Labour and Transport costs are not included and consequential loss is specifically excluded. Faulty goods should be returned via the original supplier unless other arrangements have been agreed in advance.

Advance Replacements. To save a dealer excess travelling and repeated service visits, or for emergency repairs, we may forward urgent spares parts and replacements in advance of the return of warranted items. These "advance replacement" items will be invoiced. On return of a claimed defective item, we will inspect it and if it is indeed faulty and under warranty, issue a credit note to cover the original supply. We cannot credit where no evidence of supply date is available, the faulty goods are not returned, they are out of warranty or have been subject to misuse.

Transit Damage. We cannot entertain claims for transit damage unless goods received damaged are signed for as "damaged", and both the carrier and Cotswold are advised in writing within three days. Wrapped or boxed items should be signed for as "unexamined", and checked as soon as is practical.

Routine servicing / maintenance. Routine servicing, either in or out of warranty, is normally undertaken by the Agent, Distributor, Importer or Dealer from whom the product was purchased by the end-user. Failure to carry out recommended routine servicing and maintenance of any part may exclude that item from warranty-cover.

All goods and services remain the property of Cotswold until paid for in full. We retain the right to

Full Terms and Conditions of supply are available from our office on request ,
or can be read on our web site.

COTSWOLD

Dairy Equipment Co Ltd



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Tel: +44 (0)1993 774567 Fax: +44 (0)1993 771776
email: sales@cotswold-dairy.com www.cotswold-dairy.com