

# Martin Lishman

## PRODUCT OVERVIEW



CROP  
CONDITIONING



CONTROL &  
MONITORING



POTATO  
QUALITY



COMPACT  
SPRAYERS



SOIL  
TESTING

[www.martinlishman.com](http://www.martinlishman.com)



# Pile-Dry Pedestals & Fans

**The fastest low volume cooling and drying system for all bulk stored crops in all storage situations**



## P2 Pile-Dry Pedestal

For grain stored at c.3m (10') with surcharging up to c.4.5m. Includes base stand and end cap. Spaced at 6m (20') centres. Basic height 10' (3m).

**P2**

**Standard Pedestal Extensions** - each extension requires a connector

**P2 3' (0.9m) Extension**

**P23T**

**P2 6' (1.8m) Extension**

**P26T**

**P2 Connector 8" (200mm) long**

**P2C**

## P3 Pile-Dry Pedestal

For grain stored at c.4.5m (15') and up to 12m deep. Includes base stand and end cap. Spaced at 10m (30') centres. Basic height 16' (4.8m).

**P3**

**Standard Pedestal Extensions** - each extension requires a connector

**P3 3' (0.9m) Extension**

**P33T**

**P3 6' (1.8m) Extension**

**P36T**

**P3 Connector 16" (400mm) long**

**P3C**

## P4 Pile-Dry Pedestal

For grain stored more than 7m deep in fast-fill stores. Basic height 7m, including all extensions and connectors, end cap and base stand. Spaced at 10m (30') centres.

**P4**

**Standard Pedestal Extensions** - each extension requires a connector

**P4 3' (0.9m) Extension**

**P43T**

**P4 6' (1.8m) Extension**

**P46T**

**P4 Connector 16" (400mm) long**

**P4C**

Versions for bins and silos available. Please enquire.



## P3 FloorVent Pedestal

An alternative to under-floor ducts in deep stores, hopper-bottomed bins & silos. Includes perforated pipe, conical end cap, floor mounting plate and marker pole

**P3/FV**

## Pedestal Rape Sleeves

Ready-made shaped hessian sleeves for use with Pile-Dry Pedestals when cooling rape, linseed & other small seeds.

**For P2 Pedestal**

**P2HESSIAN**

**For P3 Pedestal**

**P3HESSIAN**

**For P4 Pedestal**

**P4HESSIAN**



**Pile-Dry Fans** - aluminium body with carry handles

**For P2 Pedestals**

1.1kW, 1.5 HP, max air flow 1400cfm (2380m<sup>3</sup>/h), max pressure 6¼"wg (1550PA)

**Single Phase**

**F2/1/B**

**Three Phase**

**F2/3/B**

**For P3 Pedestals**

1.5kW, 2 HP, max air flow 1875cfm (3190m<sup>3</sup>/h), max pressure 6¾"wg (1670PA)

**Single Phase**

**F3/1/B**

2.2kW, 3 HP, max air flow 2225cfm (3780m<sup>3</sup>/h), max pressure 7½"wg (1870PA)

**Three Phase**

**F3/3/B**

**Manual Fan Starters** - must be used with all Pile-Dry Fans unless controlled automatically. Please enquire.



## Fan Adapters

**Larger Fan Adapter** - larger fans can be used with an adapter to increase the cooling and drying speeds of Hot Spot Spears and Pedestals

- to fit F2 Fan to Hot Spot Spear

**Ped64Adapter**

- to fit F3 Fan to Hot Spot Spear

**Ped84Adapter**

- to fit F3 Fan to P2 Pedestal

**Ped86Adapter**



**Blowing Adapter** - If Pile-Dry Fans are required to blow

- to fit F2 fans

**Blowing adapter plate**

**F2/BLOWPLATE**

- to fit F3/3/B fans

**Blowing adapter plate**

**F3/BLOWPLATE**

# Trouble-Dry Spears & Fans

A choice of aeration spears and fans to deal with all hot spot problems, provide fast cooling of grain and spot drying



**Trouble-Dry Standard** - for up to 15 tons in one area.  
Includes 2.3m (7'6") aeration spear, handle and 130W fan

with Grain Spear TDS  
with Rape Spear TDSR

**Trouble-Dry Extra** - for up to 35 tons in one area.  
Includes 2.3m (7'6") aeration spear, handle and higher capacity 130W fan

with Grain Spear TDEB  
with Rape Spear TDERB



**Trouble-Dry Ultra** - for spot drying and extra-fast cooling.  
Includes 2.3m (7'6") aeration spear, handle, fan adapter and 1.1kW fan

1ph with Grain Spear TDU/1  
with Rape Spear TDUR/1  
3ph with Grain Spear TDU/3  
with Rape Spear TDUR/3

## Trouble-Dry components:

**Trouble-Dry Standard Fan** - 130W, 275cfm (470m<sup>3</sup>/h), 1¼"wg (436PA), 2m cable FTDS  
**Trouble-Dry Extra Fan** - 130W, 400cfm (680m<sup>3</sup>/h), 2"wg (500PA), 2m cable, 13A plug FTDEB  
**Trouble-Dry Ultra Fan** - 1.1kW, 1.5 HP, 1400cfm (2380m<sup>3</sup>/h), 6¼"wg (1550PA)  
1ph F2/1/B  
3ph F2/3/B  
**Trouble-Dry Grain spear** - 7'6" (2.3m) grain hot spot aeration spear TDG  
**Trouble-Dry Rape spear** - as above, but with smaller perforations for rape ventilation TDR  
**Trouble-Dry spear handle** - strong, extra long handle with single bolt clamp TDH

# Temperature Monitoring Packages

## Portable Monitoring Packages

**MiniTemp** hand held digital temperature monitor with fast response stainless steel sensor



**MiniTemp monitor with** - 600mm sensor, for bales CQ/MTM/PS600  
- 1.5m sensor, for grain CQ/MTM/PS15  
- 2m sensor, for grain CQ/MTM/PS2

## Static Monitoring Packages

**MiniTemp Blue** Bluetooth crop temperature monitor and logger with iOS/Android App and rigid pvc crop temperature sensor

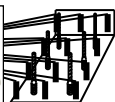


**MiniTemp Blue with:**  
- 2m rigid pvc sensor, for grain CQ/MTM10BLUE/2M  
- 3m rigid pvc sensor, for grain CQ/MTM10BLUE/3M  
**MiniTemp Blue Waterproof for compost with:**  
- 2m rigid stainless steel sensor CQ/MTM10BLUE/CP

## Store Monitoring Packages

Suitable for use with MiniTemp monitor and Temperature Differential Controller. Includes multi-sensor selector, up to 12 rigid pvc sensors with extension cables or flexible cable sensors.

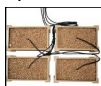
- in bulk crop stores



**Crop Store Packages with multi-sensor selector and:**

- 6 x 2m rigid pvc temperature sensors,  
3 x 20m & 3 x 30m extension cables CQ/MULTIPACK/6  
- 12 x 2m rigid pvc temperature sensors, 4x 20m,  
4 x 30m & 4 x 40m extension cables CQ/MULTIPACK/12

- in potato box stores



**Potato Store Monitoring Packages with multi-sensor selector and:**

- 3 x 20m & 3 x 30m flexible cable sensors CQ/MULTIPACK/FLEX6  
- 4 x 20m, 4 x 30m & 4 x 40m flexible cable sensors CQ/MULTIPACK/FLEX12

All components of monitoring packages are available separately - please ask for details

# Automatic Fan Control

**Temperature Differential Fan Control** - fast, energy-efficient crop cooling.  
Includes ambient & crop temperature displays, frost setting, manual/autoswitch, 2m rigid crop temperature sensor with 20m extension cable, air temperature sensor with 10m extension cable.



**Static controller** - to control any quantity of fans. Add automatic fan starters (see below)

FC049/A



**Portable controller** - to control up to four single or five 3 phase fans. Includes built in starters and timers, fan power plugs and sockets.

Please specify fan quantity, current rating and phase

FCBM...

**Temperature Differential Control with Crop Temperature Monitoring**  
Create a simple logging system by adding up to 12 crop temperature sensors and a multi-sensor switch. See components listed on page 3.

**Thermo-Humidistat Fan Control** - simple control of crop drying and cooling.  
With adjustable temperature & humidity settings, temperature & RH sensors



**Static controller** - to control any quantity of fans. Add automatic fan starters (see below)

FC003



**Portable controller** - to control up to four single or five 3 phase fans. Includes built in starters and timers, fan power plugs and sockets.

Please specify fan quantity, current rating and phase

FCBM/TH...

## Barn Owl Stand-Alone Temperature & Humidity Fan Control

- comprehensive control of crop drying and cooling. With 8 drying & cooling programmes, ambient RH & temperature sensor with 10m extension cable, one or two 2m crop temperature sensors with 20m extension cables



**Static controller** - to control any quantity of fans. Add automatic fan starters (see below)

Single control channel

BARNOWLCONTSA

Dual control channel

BARNOWLCONTSAD



**Portable controller** - to control up to four single or five 3 phase fans. Includes built in starters and timers, fan power plugs and sockets.  
Please specify fan quantity, current rating and phase

Single control channel

FCBM/BO...

Dual control channel

FCBM/BOD...

## Static Controller Automatic Fan Starters

Each fan connected to Static Automatic Fan Controllers requires an automatic starter with overload protection. Multiple fan starters are also fitted with a time delay. Does not include phase drop protection. Please specify fan current rating & voltage or phase.

For first fan

FCSA/... eg. FCSA/1/6.3-10A

With timer for additional fans

FCSA/T/... eg. FCSA/T/1/6.3-10A

# Barn Owl Wireless

**Crop temperature monitoring, automatic fan control, data storage and management**

**Barn Owl Wireless Hub Units** - with 240v power supply



**Gateway gsm-internet link** - handles all sensors and controllers in one location  
**BOW/GATE**



**Wireless bridge** - enhances transmission between buildings  
**BOW/BRIDGE**



**Wireless Booster** - Improves signal strength across the system  
**BOW/BOOST**



**Silo Sensor Transmitter** - Multiple transmission unit for silo sensors  
**BOW/MSU**

## Barn Owl Wireless Temperature & Humidity Sensors



**Rigid crop temperature sensor** - battery powered transmitter

2m **BOW/ST/2**

3m **BOW/ST/3**

**4-way transmitter** - battery powered for cable sensors

**BOW/TR/4**



**Silo multi-temperature sensor** - up to 60m, suspension point, connection cable  
2m sensor spacing; eg.10m **BOW/SS/02/10/05**  
3m sensor spacing; eg.15m **BOW/SS/03/15/05**

**Compost temperature sensor** - waterproof, battery powered transmitter, stainless steel 2m sensor

**BOW/ST/2/COMPOST**



**Wireless ambient temperature & humidity sensor** - waterproof transmitter with 240v power supply and detachable sensor with 3m cable  
**BOW/ST/ATH/A**

**Wireless CO2 sensor** - as above with CO2 sensor

**BOW/CO2**

## Barn Owl Wireless Automatic Fan Control

 - independent control of drying and cooling.

**Static controller** - wired directly to a control panel or automatic fan starters

**Single fan controller for large or portable fans** **BOW/SA/SIO/A**

**Multiple fan controller - For up to 6 fans** **BOW/SA/6/A**

- For up to 12 fans **BOW/SA/12/A**

**Static Controller Automatic Fan Starters**

Fans connected to a Wireless Static Controller require an automatic starter with overload protection. Does not include phase drop protection. Please specify fan current rating & voltage or phase.

For each fan controlled **BOW/SA/...** eg. **BOW/SA/1/6.3-10A**



**Portable controller** - to control up to four single or five 3 phase fans. Includes built in starters, fan power plugs and sockets. Please specify fan quantity, current rating and phase  
**BOW/BM/...**

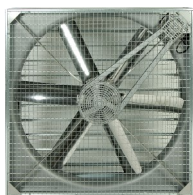
**StoreVent Extractor Fan Control** - these fans can be controlled by:

- the Single or multiple static fan controller and automatic starter
- an output on a portable controller
- a switched output on a portable controller and a remote automatic starter (see Page 6 for more details of the StoreVent system)

# StoreVent

**Crop store air extraction system to maximise the efficiency of crop cooling and drying systems**

**Belt-Drive Fan Units** - substantial airflow and low energy use; galvanised steel housing, stainless steel impeller, fitted with bird mesh and integral backdraught shutter.



Airflow (m <sup>3</sup> /s)	Pressure (Pa)	Watts	Height/width (mm)	
4.6	60	750	960	1ph SV800/1BELT 3ph SV800/3BELT
7.1	100	750	1150	1ph SV1000/1BELT 3ph SV1000/3BELT
12.1	100	1500	1380	1ph SV1250/1BELT 3ph SV1250/3BELT

**Air intake Louvres** - Class B (95-99% rain protection), aluminium construction, 30mm flanged frame, integral drip cill, bird-proof mesh



Size - w x h (mm)	
1000 x 1000	SV1000
1100 x 1100	SV1100
1200 x 1200	SV1200
1250 x 1250	SV1250
1500 x 1500	SV1500

# StockVent

**Stock building ventilation equipment to improve air quality, combat heat stress and enhance productivity**

**Belt-Drive Fan Units** - as StoreVent above, but without weather shutter and with suspension or floor mounting options.



Airflow (m <sup>3</sup> /s)	Pressure (Pa)	Watts	Height/Width (mm)	
4.6	60	750	960	1ph SVK800/1 3ph SVK800/3
7.1	100	750	1150	1ph SVK1000/1 3ph SVK1000/3
12.1	100	1500	1380	1ph SVK1250/1 3ph SVK1250/3

**Manual Speed Controller** - Inverter Speed Controller for StockVent belt-drive fan. Ask for details.

SVK/SC...

**Turbulator Fans** - lightweight, low-cost, 1ph fans, for year-round ventilation and air movement to reduce condensation and improve air quality



Airflow (m <sup>3</sup> /s)	Air throw (m)	Watts	Width (mm)	
1.70	40-45	280	460	SVKT450
1.37	40-45	90	510	SVKT500
2.86	45-50	280	660	SVKT630

**Ventilation Sock System** - fan, polythene duct/sock, gateway kit, air straightener and cowl



450mm x 24m	SVKSV450/S
630mm x 34m	SVKSV630/S
710mm x 34m	SVKSV710/S

**Free-Standing/Wall Fans** - milking parlours **Typhoon Floor Fans** - air circulation



Airflow (m <sup>3</sup> /s)	Watts	
1.83	130	SVKWALL
3.83	170	SVKFLOOR



Airflow (m <sup>3</sup> /s)	Watts	
1.83	180	SVKTY450

# Moisture Meters

**Protimeter Grainmaster** - with the complete service package and Grainmaster i2 App



**Protimeter Grainmaster i2-S**

**GRN3000i2-S**

Includes grinder-compressor, hard carry case, spares package, free first year service voucher and Grainmaster i2 App for iOS and Android to download and record moisture and temperature readings

**Protimeter Grainmaster Optional Sensing Probes**



Grain temperature (1.5m)  
 Bale moisture (600mm)  
 Bale temperature (600mm)

**GRN6046**  
**GRN6138**  
**GRN6155**

**Protimeter Balemaster** - to measure straw and hay bale moisture



**Protimeter Balemaster**  
 - with 600mm bale moisture probe

**GRN6165**

**Optional Balemaster Temperature Probes**

- 600mm  
 - 1.5m

**GRN6154**  
**GRN6153**

**Agrolog Wireless Moisture & Temperature Probe** - remote grain measurement



- with 2m portable sensor and data monitoring App **GRN6200**

**Protimeter Timbermaster** - to measure woodchip moisture



Wood moisture meter & 600mm probe

**GRN6156**

**Field Check** - budget priced moisture meters



**Field Check** - whole grain meter

**Field Check PLUS** - ground grain meter

**CQ/FIELD**  
**CQ/FIELDPLUS**

# Crop Quality & Testing

## Grain Sampling - for lorry or crop store



**Single Head Spear** - 2.6m long, 2-piece, 50g sample

**Solid Core Spear** - 2m long, 290g sample, 8 holes

**Stretch Core Spear** - 2m long, 480g sample, 8 holes

**CQ/SHS**  
**CQ/SCS**  
**CQ/SCSSP**

## Ambient temperature & Relative Humidity measurement



**Jumbo thermo-hygrometer** - for static use

**Panel thermo-hygrometer** - for static use

**Portable thermo-hygrometer** - hand-held

**Tunnel thermo-hygrometer** - remote sensor

**ClimaTrack** - Bluetooth ambient temperature and RH monitor and data logger with iOS/Android App



**CQ/HYGJUMBO**  
**CQ/HYGWALL**  
**CQ/HYGDIG**  
**CQ/HYGTUNNEL**  
**CQ/CLIMATRACK**

## Insect Monitoring - for empty stores or stored grain



**Insect floor trap** (empty stores) - box of 5

**Insect pitfall trap** (stored grain) - box of 10

**CQ/TRAP/FLOOR**  
**CQ/TRAP/PIT**

## Crop Measurement - hectolitre weight of grain



**Hectolitre measure** - with scales, funnel & 1 litre cylinder

**CQ/HTLR**

## Crop Protection - advanced bird scaring



**Scarecrow B.I.R.D. System**

- 10 bird pest distress calls, fully IP rated, low energy consumption, unobtrusive

**BIRDSYSTEM**

## Digital Weigh Scales - compact, lightweight, budget priced, general purpose hanging scales



- 10Kg max, 10g increments, Accuracy +/-0.5%

- 15Kg max, 20g increments, Accuracy +/-0.5%

- 50Kg max, 50g increments, Accuracy +/-0.5%

**CQ/SCALE/10K10**

**CQ/SCALE/15K20**

**CQ/SCALE/50K50**

The above are the most popular models. We can supply from a huge range to suit your requirements. Please contact us for more information.



# Potato Quality

**TuberLog Electronic Potato** - identifies sources of damage and bruising in all types of potato handling machinery



**TuberLog PTR400**

- Data Logger, PC Software + Android App



POT/PTR400

**TuberLog PTR500**

- as above plus Android 7" Tablet

POT/PTR500

**Potato Harvester Mister** - reduces bruising in dry conditions. Delivers a mist of water onto potatoes and harvester webs and rollers.



**Harvester Mister 250** - 250 litre tank, mounting frame, 12 volt pump, pressure regulator, agitation, in-cab switchbox, 1m boom, misting nozzles

SP/HM002

**Potato Hot Box** - overnight assessment of potato bruising. Includes uPVC casing, sample trays, heater, fan, humidity generator



**Hotbox 125** - 125 tuber capacity, 5 trays

POT/HB/125

**Hotbox 250** - 250 tuber capacity, 10 trays

POT/HB/250

**Hotbox 750** - 750 tuber capacity, 30 trays, wheels  
(110v versions also available)

POT/HB/750

**Potato Dry Matter** - field, traditional and digital testing equipment



**Field Kit** - scale, corer, calibration chart

POT/DMK

**Salad Potato Field Kit** - as above, with salad corer & chart

POT/DMKS

**Zeal Potato Hydrometer** - traditional system, with wire basket

**Standard D4500** - 17-25% dry matter

POT/HYDROMETER

**Specialist - D4501** - 14-23% dry matter

POT/HYDROMETER4501

- D4502 - 18-27% dry matter

POT/HYDROMETER4502



**Weltech Digital Hydrometer (PW4)** - instant results of % dry matter, % starch, underwater weight and specific gravity

POT/HYDPW4

Includes wire basket & chain

**Potato Sugar Testing** - potato glucose self-testing kit



**Glucolis Blue Sugar Kit** - including potato juice extractor

POT/GLUCOLISBLUE

**Potato Testing** - quality assessment equipment



16 squares,  
20-90mm,  
plus 42mm

**Sizing Squares**  
POT/SQUARESS



**Chip Colour Chart**  
POT/CHIPCHART



**Chip Fryer**  
POT/FRYER



**Chip Cutter Set**  
POT/CHIPCUT

**Potato Temperature Spikes** - for individual tuber temperatures



**T-Bar spike sensor** - 13cm long, data-hold

- accuracy +/-1°C

- accuracy +/-0.3°C

POT/TBARTHERMO

POT/TBARHIGH

See Page 3 for details of bulk and box store temperature monitoring packages

# Impact Sensing

**ImpactTrack** - real-time monitoring and logging of damage and temperature during handling and transport of fresh produce, with Bluetooth transmitter and iOS/Android App



**ImpactTrack Options** - logger with synthetic carrier shell with the shape, dimensions and weight of many types of fruit or vegetable that replicate the movement characteristics of the real produce being monitored.

	<b>Apple</b>	Diameter 64mm, Height 60mm	CQ/IMP/APP64
		Diameter 68mm, Height 55mm	CQ/IMP/APP68
		Diameter 68mm, Height 68mm	CQ/IMP/APP68-TALL
		Diameter 74mm, Height 60mm	CQ/IMP/APP74
		Diameter 74mm, Height 72mm	CQ/IMP/APP74-TALL
		Diameter 82mm, Height 70mm	CQ/IMP/APP82
		Diameter 85mm, Height 85mm	CQ/IMP/APP85
		Diameter 85mm, Height 68mm	CQ/IMP/APP85X68
		Diameter 90mm, Height 65mm	CQ/IMP/APP90
		Diameter 92mm, Height 86mm	CQ/IMP/APP92
	Diameter 100mm, Height 65mm	CQ/IMP/APP100	
	<b>Avocado (or Pear)</b>	Diameter 60mm, Length 92mm	CQ/IMP/AVOM
		Diameter 73mm, Length 105mm	CQ/IMP/AVOL
		Diameter 76mm, Length 109mm	CQ/IMP/AVOXL
	<b>Carrot</b>	Diameter 54mm, Length 164mm	CQ/IMP/CARROT164
		Diameter 40mm, Length 170mm	CQ/IMP/CARROT170
	<b>Parsnip</b>	Diameter 64mm, Length 165mm	CQ/IMP/PARSNIP165
		Diameter 50mm, Length 180mm	CQ/IMP/PARSNIP180
	<b>Clementine</b>	Diameter 60mm, Height 55mm	CQ/IMP/CLEM
	<b>Peach/Orange</b>	Diameter 63mm, Height 61mm	CQ/IMP/PEACH
	<b>Mango</b>	Diameter 86/67mm, Length 119mm	CQ/IMP/MANGO
	<b>Mussel</b>	Diameter 36/31mm, Length 83mm	CQ/IMP/MUS
	<b>Sweetcorn</b>	Diameter 49mm, Length 165mm	CQ/IMP/CORN
	<b>Coconut</b>	Diameter 94mm, Length 111mm	CQ/IMP/COCO
	<b>Banana</b>	Diameter 42mm, Length 178mm	CQ/IMP/BAN
	<b>Egg (or Kiwi)</b>	Diameter 48mm, Height 67mm	CQ/IMP/EGG
	<b>Golden Kiwi</b>	Diameter 50mm, Height 75mm	CQ/IMP/KIWI
	<b>Pineapple</b>	Diameter 116mm, Height 379mm	CQ/IMP/PINAPP116
		Diameter 123mm, Height 366mm	CQ/IMP/PINAPP123
	<b>Garlic</b>	Diameter 60mm, Height 50mm	CQ/IMP/GAR60
		Diameter 80mm, Height 71mm	CQ/IMP/GAR80
	<b>Strawberry</b>	Diameter 56mm, Height 52mm	CQ/IMP/STRAWL
		Diameter 48mm, Height 44mm	CQ/IMP/STRAWM
	<b>Onion</b>	Diameter 81mm, Height 98mm	CQ/IMP/ONION
		Diameter 70mm, Height 79mm	CQ/IMP/ONIONSM
	<b>Potato</b>	Diameter 62mm, Height 89mm	CQ/IMP/POT
		Diameter 28/35mm, Height 75mm	CQ/IMP/POTSM
	<b>Sweet Potato</b>	Diameter 85mm, Height 275mm	CQ/IMP/SWPOT
		Diameter 70mm, Height 230mm	CQ/IMP/SWPOT23
	<b>Cantaloupe Melon</b>	Diameter 150mm, Height 175mm	CQ/IMP/MEL
	<b>Plum tomato</b>	Diameter 30/37mm, Height 60mm	CQ/IMP/PTOM
	<b>Sweet Pepper</b>	Diameter 77mm, Height 86mm	CQ/IMP/PEP
	<b>Daffodil Bulb</b>	Diameter 66/54mm, Height 79mm	CQ/IMP/DAFF
	<b>Flower</b>	Flower with 50cm stem	CQ/IMP/FLO50
	<b>Data logger only</b>	with iOS/Android App	CQ/IMPACTRACK

**BeetLog Electronic Sugar Beet** - identifies sources of damage and bruising in all types of sugar beet handling machinery



<b>BeetLog PTR600</b>	POT/PTR600
- Data Logger, PC Software + Android App	
<b>BeetLog PTR700</b>	POT/PTR700
- as above plus Android 7" Tablet	

# Compact Sprayers

## ATV MOUNTED

**Mini-Spray** - 70 litre tank, 12 volt pump



- hand lance only
- hand lance & 1m boom
- hand lance, 2m boom, pressure regulator, switchbox
- as above with 2.5m height adjustable boom

**SP/BASIC**  
**SP/MS/001**  
**SP/MS/006**  
**SP/MS/009**

## TRAILED

**Mini-Spray** - 70 or 125 litre tank, 12 volt pump, hand lance



- with 2.5m height adjustable boom
- with 3.5m height adjustable boom
- Options:** 9m hose reel, bout marker

**SP/MST/70 or 125/009**  
**SP/MST/125/009/35**

**Midi-Spray** - 250 litre tank, pressure regulator, 4m boom, manual/electric control



- standard specification with 12 volt pump
- as above with engine drive
- Options:** hose reel & lance, bout marker, 6m or 8m boom, electric control
- PRO specification - engine drive, 9m hose reel, electric control
- Options:** bout marker, 6m or 8m boom

**SP/MDT/250/12V/ME**  
**SP/MDT/250/ME**  
**SP/MDT/250/P/FE**

## DEMOUNT

**Mini-Spray** - 125 litre tank, 12 volt pump, hand lance



- with 2.5m height adjustable boom
- with 3.5m height adjustable boom
- Options:** 9m hose reel, bout marker

**SP/MSD/125/009**  
**SP/MSD/125/009/35**

**Midi-Spray** - 250 or 350 litre tank, pressure regulator, 4m boom, manual/electric control



- standard specification with 12v pump
- as above with engine drive
- Options:** bout marker, 6m boom, electric control, induction hopper, legs
- PRO specification - engine drive, induction hopper, electric control
- Options:** 9m hose reel, 6m, 8m boom

**SP/MDD/250 OR 350/12V/ME**  
**SP/MDD/250 OR 350/ME**  
**SP/MDD/250 OR SP/MDD/350/P/FE**

## TRACTOR MOUNTED

**Mini-Spray** - 70 litre tank, 12 volt pump, 3-point linkage



- hand lance & 1m boom
- hand lance, 2.5m height adjustable boom, pressure regulator, switchbox
- Options:** 2m boom, hose reel, bout marker

**SP/MSM070/001**  
**SP/MSM070/009**

**Mini-Spray** - 125 litre tank, 12 volt pump, 3-point linkage, hand lance



- hand lance & 1m boom
- hand lance, 2.5m height adjustable boom, pressure regulator, switchbox
- as above with 3.5m height adjustable boom
- Options:** 2m boom, hose reel, bout marker

**SP/MSM125/001**  
**SP/MSM125/009**  
**SP/MSM125/009/35**

**Midi-Spray** - standard specification, PTO drive, pressure regulator, 4m boom, manual/electric control



- 200 litre tank
- 300 litre tank
- Options:** hand lance, 9m hose reel, bout marker, 6m boom, electric controls, induction hopper

**SP/MDM/200/ME**  
**SP/MDM/300/ME**

**Midi-Spray** - PRO specification, as above with electric control, 9m hose reel, induction hopper



- 400 litre tank
- 500 litre tank
- 600 litre tank
- Options:** bout marker, 6m or 8m boom

**SP/MDM/400/P/FE**  
**SP/MDM/500/P/FE**  
**SP/MDM/600/P/FE**

## PEDESTRIAN

**Nano-Spray** - 36 litre tank, 24 volt pump, self-propelled, variable speed, lithium battery pack with charger, pressure regulator



- 1.5m folding boom

**SP/NA/36/P/20**

**Micro-Spray** - PRO specification, 150 litre tank, 24 volt pump, self-propelled, variable speed, battery powered with charger, pressure regulator



- 2.5m height adjustable boom
- 3.5m height adjustable boom
- Options:** bout marker, 9m hose reel and hand lance

**SP/MC/150/P/25**  
**SP/MC/150/P/35**

# Soil Testing

## Soil Testing Kits - 'on the spot' soil management tests



**Soil PH Tester** - fast, accurate measurement of soil pH

- handheld reader with consumables to carry out at least 25 tests **SOILPH/PACK**

- handheld wireless reader with Bluetooth and smartphone app and consumables to carry out at least 25 tests **SOILPHW/PACK**

**Options:**

- handheld reader with starter set of consumables **SOILPH**

- handheld wireless reader with App and starter set of consumables **SOILPHW**

- consumables to carry out at least 25 tests with either reader **SOILPH/CONS**



**Soil Conductivity (EC) & Temperature Meter**

Instant readout of conductivity & temperature of soil **SOILECT**

**Option:** consumables pack for the soil EC meter **SOILECT/PACK**



**Soil Testing Kit** - tests for pH, N, P & K (25 tests)

**SOILTEST**

**Option:** replacement reagents for 25 tests **SOILTEST/CONS**

## Soil Samplers - stainless steel with titanium components



**Hand** - 30cm x 10mm sample; total length 35cm

**SOILSMPLR5001**

**Foot rest** - 30cm x 14mm sample; total length 81cm

**SOILSMPLR5006**

**Hammer head** - 60cm x 13mm sample; total length 81cm

**SOILSMPLR5012**

**Other sizes and types available - please enquire**

## Soil Compaction Tester - penetrometer with pressure gauge



**Soil Compaction Tester** - with 2 tips for soft or firm soil

**SOILCOMPACT**



## Compost and Soil Temperature



**Portable monitoring packages**

MiniTemp hand held digital temperature monitor and stainless steel temperature

sensor with T-handle grip. Measures up to 110°C.

- 600mm

**CQ/MTM/PS600**

- 2m

**CQ/MTM/PS2**



**Static monitoring package**

MiniTemp Blue Bluetooth waterproof temperature monitor and data logger with

iOS/Android App and 2m stainless steel temperature sensor with T-handle grip.

Measures up to 110°C.

**CQ/MTM10BLUE/CP**



**All components of monitoring packages are available separately - please ask for details**

(See also Barn Owl Wireless compost temperature monitoring on P.5)

To view the full range of equipment in the Martin Lishman range, information can be viewed and downloaded from [www.martinlishman.com](http://www.martinlishman.com).

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