

Martin Lishman

PRODUCT OVERVIEW



CROP
CONDITIONING



CONTROL &
MONITORING



POTATO
QUALITY



COMPACT
SPRAYERS



SOIL
TESTING

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 (2380m³/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 (3190m³/h), max pressure 6¼"wg (1670PA)

Single Phase

F3/1/B

2.2kW, 3 HP, max air flow 2225cfm (3780m³/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 (470m³/h), 1¼"wg (436PA), 2m cable

FTDS

Trouble-Dry Extra Fan - 130W, 400cfm (680m³/h), 2"wg (500PA), 2m cable, 13A plug

FTDEB

Trouble-Dry Ultra Fan - 1.1kW, 1.5 HP, 1400cfm (2380m³/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:

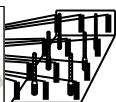
- 2m rigid stainless steel sensor

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



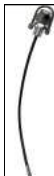
Rigid crop temperature sensor - battery powered transmitter

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

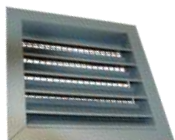
Crop store air extraction system to maximise the efficiency of crop cooling and drying systems

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 ³ /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 ³ /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 ³ /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



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



Airflow (m ³ /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

GRN6175

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.

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

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



BeetLog PTR600

- Data Logger, PC Software + Android App

POT/PTR600

BeetLog PTR700

- as above plus Android 7" Tablet

POT/PTR700

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

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

- 2m

CQ/MTM/PS600

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.

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