

KitchenShield CATALOG

IT'S ALL ABOUT SIMPLICITY!



EN 17446:2021



sensetech
SPECIALIST SYSTEMS



Fire protection systems since 1949

ADVANCED FIRE PROTECTION SYSTEMS BY LEHAVOT

For over 77 years, Lehavot has been developing and manufacturing advanced fire protection systems for demanding applications worldwide. As an experienced manufacturer with in-house engineering, field-proven technology and extensive application expertise, Lehavot delivers solutions for complex, regulated and high-risk environments.

Lehavot's portfolio includes fire suppression systems for commercial kitchens, transportation, off-road and industrial applications, with a strong focus on installation flexibility, simplified maintenance and long-term performance: from standard applications to complex, tailor-made projects.

Lehavot systems are engineered, tested and manufactured to meet demanding international and local fire protection standards. Developed for regulated markets and high-risk environments, our solutions support compliance with leading standards and approvals, including UL, ULC, LPCB, NFPA, EN, CSIRO, and applicable local standards.

WHY LEHAVOT?



77+ years of
expertise



In-house
Engineering
& Testing



Field-proven
technology



international
Standards
Compliance



Adaptable
Solutions



Tailor-Made
Solutions

AUTOMATIC FIRE PROTECTION SYSTEMS BY LEHAVOT



KitchenShield
Wet chemical fire
suppression for
commercial kitchens
system



FoodTruckShield
Wet chemical fire
suppression for food
trucks



BusShield
Automatic fire
suppression for
buses and coaches



IndustrialShield
Dry chemical
protection for
industrial hazards
and machinery



Off-RoadShield
Automatic fire
suppression for heavy-
duty and off-road
vehicles



Fast & Simple
Installation &
Maintenance



5 Types of Stored
Pressure
Cylinders



Patented
Mechanism
Proven in Fire
Battle



Cost
Effective

FIRE SUPPRESSION SYSTEM FOR COMMERCIAL KITCHENS

Lehavot's UL300, LPCB (LPS1223) and EN:17446:2021 listed KitchenShield, is the most cost-effective solution that meets the difficult challenges found in modern commercial kitchens.

KitchenShield is pre-engineered for high flexibility (2 –200 FP's) and the simplification of installation.

We designed it thinking about the installers.

Nozzles

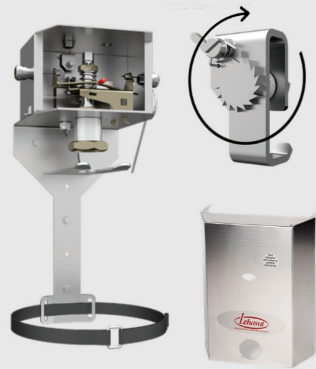
- Easy field selection: **flow-point markings + color-coded rings for quick verification.**
- Built for harsh kitchens: internal filter + protective cap, with a high-temperature cap option when needed.



MRR

Lehavot's Manual Reset Relay (MRR) adds operational safety when power shut-off is needed.





MRM[®] Master & Bracket

- **Patented MRM Master (US 8,746,358 B2)** is the mechanical “brain” of KitchenShield: fast, reliable activation of the cylinder discharge valve—**automatic** (via detection) or **manual** (via pull station).
- **Installer-ready:** delivered assembled with the bracket and can be oriented for clean, flexible on-site routing.
- **Simplified ratchet tensioning mechanism.**

Manual Pull Station

- **Manual Pull Station (standard):** required on every installation; surface-mounted or recessed.
- **Manual Pull Station (oversized):** same function/mounting, with an oversized cover to hide a standard 4" octagonal sheetrock access hole-ideal for retrofits and clean finishes.



Mechanical Gas Valve

- **Automatic shutoff:** the mechanical gas valve closes automatically when the system activates.
- **Flexible install:** can be installed in any direction (after location is approved).

KitchenShield



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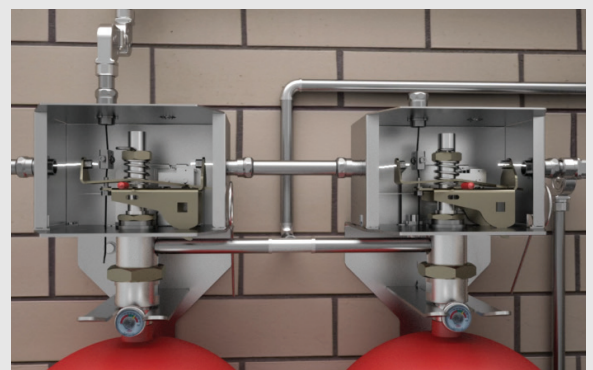


Cost
Effective



Scalable Multi-Cylinder Activation

- **Scalable protection:** link up to 10 cylinders in one KitchenShield system to meet higher agent-demand installations.
- **Built for multi-hood kitchens:** enables simultaneous activation of multiple hoods that share a common duct system—ideal for larger or connected cooking lines.
- **Flexible cylinder linking:** supports any combination of cylinders up to 24 FP, and can link up to 10 cylinders with an option of spare 24 FP across three separate hoods under the same fire detection system.



Fire Extinguishing Agent

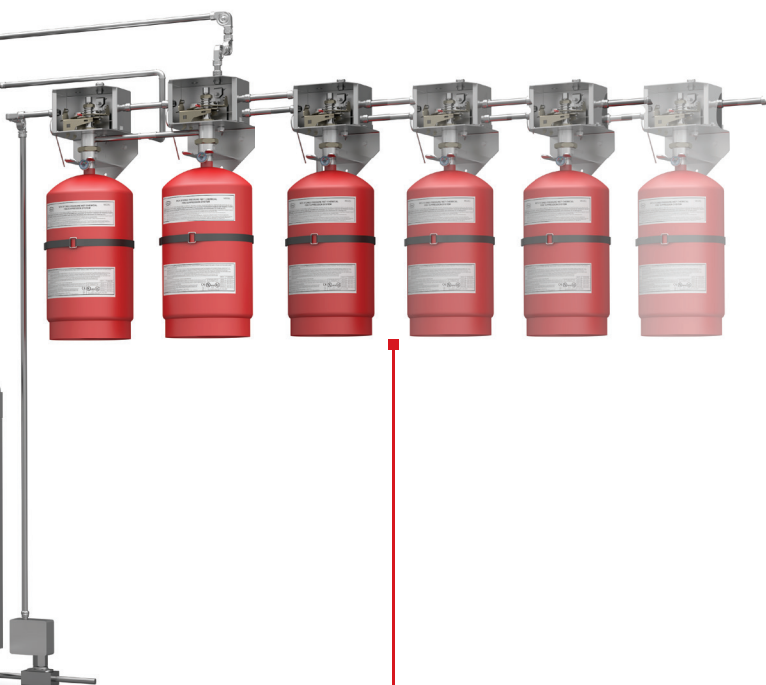
■ Wet chemical agent):

Our kitchen suppression systems available with a choice of wet chemical agents - tailored to meet the exact requirements of any project and any client flames through cooling and saponification.

■ Kitchen-friendly chemistry: PH8, stated not to affect stainless-steel surfaces.

■ Ready supply & traceability: shipped in pre-filled containers with date and batch marking, matched to cylinder capacities (6/9/16/20/26L).

■ 20 years shelf life



Cylinder Assembly

■ Five cylinder sizes: 6L, 9L, 16L, 20L, and 26L-to match different kitchen layouts and hazard loads.

■ Factory-filled, ready-to-install assemblies: shipped filled from the factory and pressurized with dry nitrogen (15.5 bar / 225 psi @ 21°C) for reliable discharge.

■ DOT and UL approved



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Installation &
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Continuous Detection Line with ML

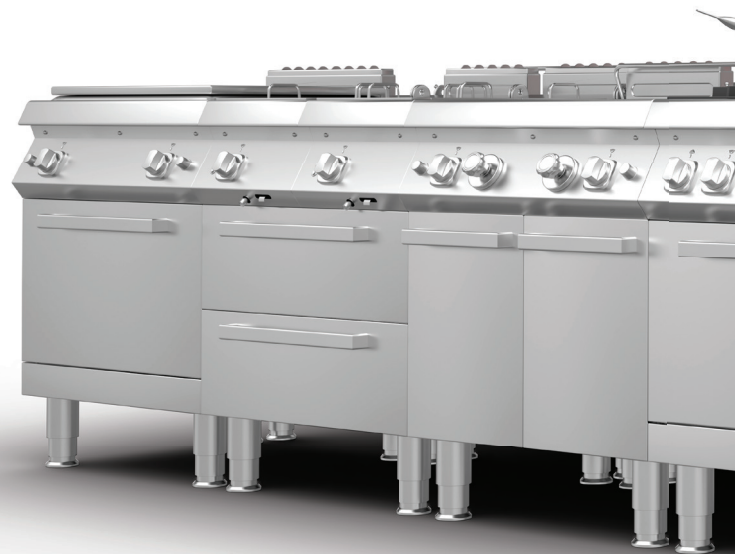
- **Continuous stainless-steel cable** connects the detection devices to the MRM for a simple mechanical detection network.
- Simple installation



Heat-Triggered Release

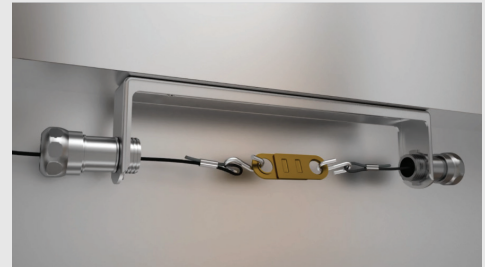


- ✓ Fewer potential failure points
- ✓ Long-term reliability
- ✓ Reduced false activations



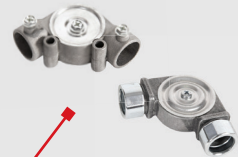
Detection Line with K

- **Simple, field-proven mechanical detection:** a continuous Ø1.6 mm stainless-steel cable connects the detection devices to the MRM.
- **Fast activation** when it matters: heat separates the fusible link, releasing cable tension and triggering system discharge.
- **Smaller footprint**



EMT Corner Pulley and CPL Corner Pulley

Supports smooth cable routing around EMT conduit corners for reliable system activation.



FoodTruckShield



REAL KITCHENS DEMAND FLEXIBLE PROTECTION

COMPACT | RELIABLE | VERSATILE

Lehavot's UL, LPCB and EN:17446:2021 listed FoodTruckShield, is featured for compactivity, easy to adjust & install. FoodTruckShield is pre-engineered for high flexibility and the simplification of installation with: Patented Dual-Directional MRM (Mechanical Release Module).

Flexible Cable Housing. Continuous Detection Line. Ratchet Tightening Assembly.

We designed it thinking about the installers.

Mounting Solutions:

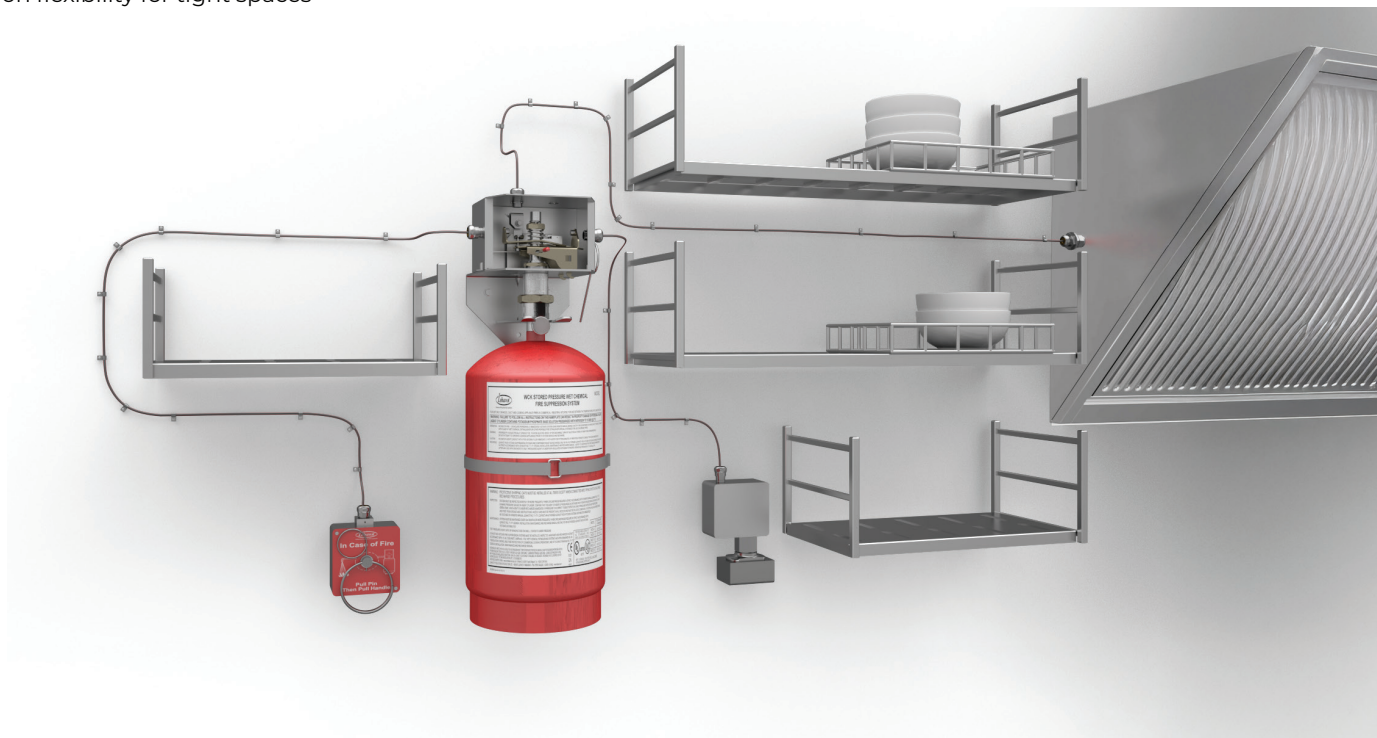
- ✓ Wall /Floor/Under the counter
- ✓ Free up valuable space
- ✓ No heavy lifting



INSTALLATION FLEXIBILITY

Flexible Cable HOUSING

- Clean detection routing in obstacle-heavy kitchens.
- Ideal for complex hood and plenum layouts.
- Installation flexibility for tight spaces



Flexible Hose for Moving Appliance

- Protection for enclosed, top-heated appliances.
- Allows roll-out service without disconnecting.

CYLINDER ASSEMBLY

Common specifications (applies to all listed P/Ns)



Working Temperature	0–49°C (32–120°F)
Working Pressure	15.5 bar @ 21°C (225 psi)
Test Pressure	35 bar (510 psi)
Test Standard	Cylinders is Steel Manufactured DOT 4B or 4BW

Model	Pressurized P/N	Non-Pressurised P/N	Amount of Agent	Flow Points
 WCK 6	36681799	36681790	6.5 L (1.17 gal)	5
 WCK 9	36981799	36981790	9.1 L (2.37 gal)	7
 WCK 16	36281799	36281790	15.6 L (4.12 gal)	12
 WCK 20	36481799	36481790	20.8 L (5.5 gal)	16
 WCK 26	36381799	36381790	26.0 L (6.87 gal)	20

MRM BRACKET

MRM is shipped assembled together with the bracket.

	P/N	Component	Applies to / Cylinder size	Dimensions (MRM with cylinder)
	36902000N	MRM with bracket	WCK 6 / 9	
	36202000N	MRM with bracket	WCK 16 / 20 / 26	
	36905109	Cylinder Bracket	WCK 6 / 9	Width: 24.0 cm (9.4") Height: 43.5 cm (17.1") Depth: 21.3 cm (8.4")
	36205109	Cylinder Bracket	WCK 16 / 20 / 26	Width: 24.0 cm (9.4") Height: 43.5 cm (17.1") Depth: 27.3 cm (10.7")
	36205001	Standard MRM Cover	All MRM units	Length: 30.2 cm (11.9") Width: 24.3 cm (9.6") Height: 13.6 cm (5.4")
	36905001	Full MRM & Cylinder Cover	WCK 6 / 9	
	36211052	Cabinet for WCK-20-26	WCK-20-26	
	36211051	Stainless Steel Cabinet WCK 16	WCK 16	
	36605010		WCK 6-9 Cylinder support	
	02709009	Main micro switch (2 pcs)	SPDT 15Am Microswitch COM/N.O./N.C.	
	36202469	Additional micro switch (2 pcs)	SPDT 15Am Microswitch COM/N.O./N.C.	

NOZZLES

Color Ring Nozzle	Nozzle P/N	Lehavot P/N	Flow Points	Appliances / Hazards	
	White	93416	36220016	1	Ducts
	Red	93429	36220029	2	Fryers
	Orange	93482	36220082	1	Range (2), Wok, Gas radiant, Hood
	Yellow	93483	36220083	1.5	Ducts, Range (4), Griddle, Lava rocks, Pumice rocks, Synthetic rocks, Natural briquettes, Charcoal briquettes, Natural wood
	Green	93484	36220084	0.5	Range (1), Upper Broiler, Salamander, Chain broiler
	Blue	93478	36220078	2	Griddle
P/N		Component		Technical Details (per WCK manual)	
	93416440	Nozzle Swivel Adapter		Optional accessory for easier nozzle aiming toward appliances; can be used with all nozzles without any change in nozzle listing.	
	36222334	Nozzle Cap - Standard		Standard nozzle cap supplied with the nozzle; intended for environments up to 176.6°C (350°F).	
	36222504	Nozzle Cap - High Temperature		High-temperature nozzle cap to be used when normal working temperatures exceed 176.6°C (350°F).	

CONTINUOUS DETECTION LINE (ML)

	P/N	Component	Dimensions
	92100070	Cable – Ø1.6 mm Stainless Steel	
	36610009	Detector Bracket (assembly)	Overall length: 255 mm (10.04") Bracket width: 35 mm (1.38")
	36222509	Fusible Link Hanger	

ML GLOBE fusible link	P/N	Fusible link heat scale
	22003150	212°F / 100°C
	22003160	280°F / 138°C
	22003170	360°F / 182°C
	22003180	450°F / 232°C
	22003195	500°F / 260°C

TRADITIONAL DETECTION LINE(K)

	P/N	Item	Temperature
	22003170	Fusible Link – Type "K"	360°F / 182°C
	22003180	Fusible Link – Type "K"	450°F / 232°C
	22003150	Fusible Link – Type "K"	212°F / 100°C
	22003160	Fusible Link – Type "K"	280°F / 138°C

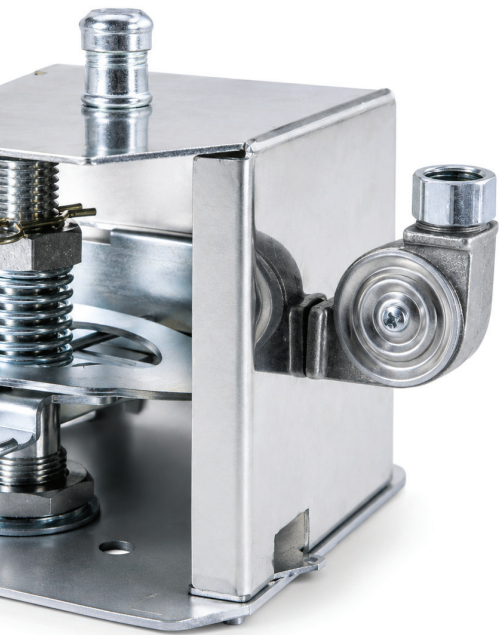
	P/N	Item	Dimensions
	92130030	S Hook	360°F / 182°C
	22003180	Talonite Oval Sleeve	1.6 mm (0.16 cm / 0.06")
	36610009	Detector Bracket	Overall length: 255 mm (25.5 cm / 10.04") Bracket width: 35 mm (3.5 cm / 1.38")

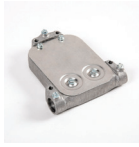
For fast-respond fusible link consult Lehavot Ltd.

SUPPORTING COMPONENTS

	P/N	Component	Voltage version	rating Manual Reset Relay (MRR)
	36209009	Manual Reset Relay (MRR)	120VAC	120VAC 50/60Hz: min 0.25A, max 15A
	36209019	Manual Reset Relay (MRR)	240VAC	240VAC 50/60Hz: min 0.15A, max 15A

	P/N	Item
	36209500	Mechanical Gas Valve Box
	36209500	Manual Pull Station (standard)
	46005600	Manual Pull Station (oversized)
	36224325	Breaking rod



EMT Routing Connection Hardware	P/N	Item
	36222309	EMT Corner Pulley 1/2"
	36236444	CPL Corner Pulley 1/2"
	36206040	1/2" EMT CONDUIT-STANDOFF BRACKET
	93412506	EMT "T" Pulley
	91220030	EMT Compression Connector 1/2"

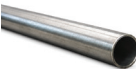
INSTALLATION FLEXIBILITY

Mounting Brackets	Cylinder Size	Short Bracket (P/N 36605200)	Universal Bracket (P/N 36905200)
	WCK 6	28.3"	32.9"
	WCK 9		34"
	WCK 16	30"	32.9"
	WCK 20+26		38.4"

Flexible Hose	P/N	Item	Dimensions
	36202230	Flexible Hose – Moving Appliance	Ø: 1/2" Length: 127 cm (50") Min bend radius: 20 cm (8")

Flexible Cable Kit			
		Kit P/N	92400039
		Max housing run length	12 m (472.44")

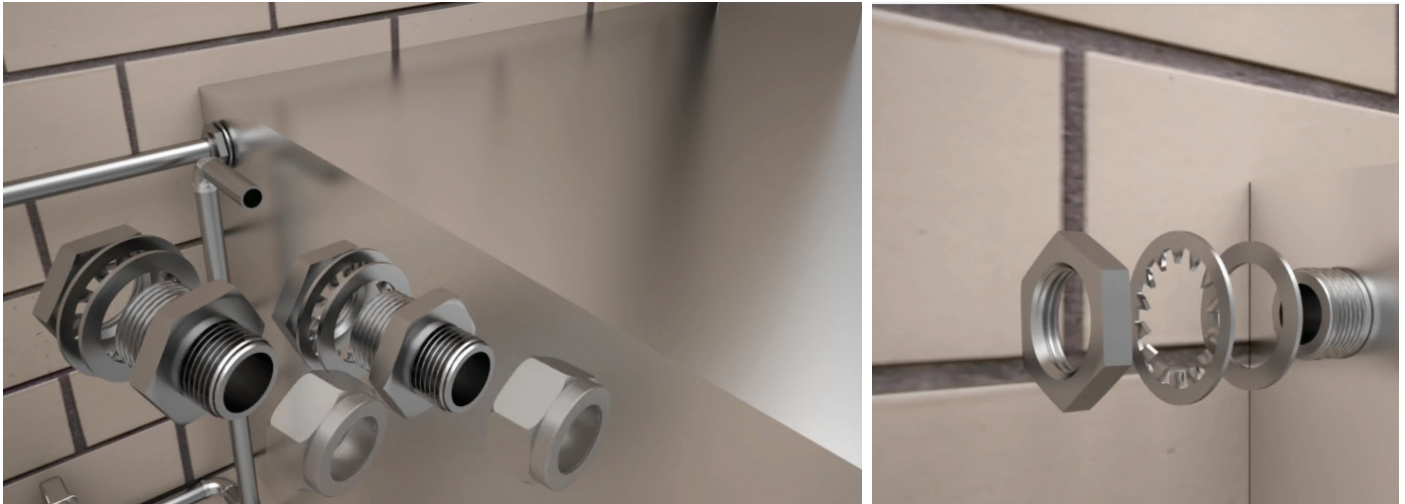
	P/N	Item	Included in kit (qty)	Dimensions
	92400041	Flexible Cable Housing (per meter)	Included (50 m total in kit)	Maximum single run length: 12 m (472.44") Minimum bend radius: 200 mm (7.87")
	92400040	Flexible Cable Housing End	Included (x30)	
	36202229	Flexible Cable Housing Terminal End	Included (x30)	
	92402225	Stainless Steel P-Clip	Included (x100)	I.D.: 4.0 mm (0.40 cm / 0.16")

System Piping & Fittings	P/N	Item	Dimensions
	90505070	1/2" EMT Pipe	1/2" EMT (Electric Metal Tubing)
	90654038	Stainless Steel Pipe 3/8"	3/8" SCH 40 (supply branch line / distribution piping)
	90654012	Stainless Steel Pipe 1/2"	1/2" SCH 40 (main supply line / distribution piping)



	P/N	Item	Dimensions	Thread / Connection
	91240020	S.S Hexagon Nipple	3/8" SCH40	BSPT/NPT
	91240040	90 Elbow	3/8" SCH40	BSPP/NPT
	91240150	S.S M&F Elbow	3/8" SCH40	BSPT/NPT
	91240060	Elbow 90	1/2" SCH40	BSPP/NPT
	91240010	S.S Bushing	3/8" to 1/2" SCH40	BSPT / PPS/NPT
	91240130	T SCH40 3/8"	3/8" SCH40	BSPP/NPT
	91240140	T SCH40 1/2"	1/2" SCH40	BSPP/NPT
	91240080	Union SCH40 3/8"	3/8" SCH40	BSPP/NPT
	91240090	Union SCH40 1/2"	1/2" SCH40	BSPP/NPT

HOOD PENETRATION DEVICES



Seal Adaptors	P/N	Item	Size / Dimensions
 	6206060	Quick Seal Adaptor for Corner Pulley (CPL)	For EMT line / CPL corner pulley connection
 	93412276	Quick Seal Adaptor	3/8"
 	93414204	Quick Seal Adaptor	1/2"
 	93412510	Compression Seal Adaptor	3/8"
 	93412512	Compression Seal Adaptor	1/2"

INSTALLER KIT

P/N	Item
36206050	Tool Box / Installation Kit (incl. 10 mm T-handle socket #36206051)
	70 mm (2.78") spanner (tool)
	50 mm (1.99") spanner (tool)
	36×46 mm (1.45"x 1.83") spanner (tool)
	Cocking handle
	Cocking rod

SYSTEM TESTING

	P/N	Item
	36681700	WCK-6 empty cylinder for system testing
	36981700	WCK-9 empty cylinder for system testing
	36281700	WCK-16 empty cylinder for system testing
	36381700	WCK-26 empty cylinder for system testing
	36222891	Test Link

P/N	Item
	92801001 Kitchenshield Design & Maintenance Manual
	Demo 532 Demo kit for Kitchen fire suppression system

RESET / RECHARGE & SERVICE PARTS

P/N	Item	Dimensions
	36203049 WCK Discharge Valve Overhaul Kit	Includes O-Rings: Ø54 mm (2.13") and Ø27 mm (1.06")
	36609010 Nitrogen filling hose	
	93131503 Pressure gauge	Dial / face diameter: 32.00 mm (1.26") Overall diameter: 37.00 mm (1.46") Overall height: 15.00 mm (0.59") Material: Brass, nickel plated; Stainless steel shell Gauge spec: gauge with filter; Bourdon type
	93132250 2 in 1	Dial / face diameter: 40.60 mm(1.60") Overall diameter: 34.80 mm (1.37") Overall height: 11.90 mm (0.47") Gauge spec: wet chemical gauge with N.C. contact

SPARE PARTS/RETROFIT KITS

	P/N	Item
	36202329	Spare Part Kit – MRM (36902000 + 36202000)
	36202329N	Spare Part Kit – New MRM (36902000N + 36202000N)
	36202300	WCK Retrofit Kit
	36202309N	Master Kit for MRM (NEW)
	36202309	Master Kit for MRM
	92400010	Yellow Safety Seal

SPARE PARTS/RETROFIT KITS

MRM	P/N	Item
	36202090	Safety pin for MRM
	36202150	Operating Pin (Discharge system activation pin)

AGENT HANDLING – REFILL CONTAINERS

	P/N	Item	Volume
	36607000	Fire Extinguishing agent (WCK 6) refill	6.5 L (1.71 gal)
	36907000	Fire Extinguishing agent (WCK 9) refill	9.1 L (2.37 gal)
	36207000	Fire Extinguishing agent (WCK 16) refill	15.6 L (4.12 gal)
	36407000	Fire Extinguishing agent (WCK 20) refill	20.8 L (5.5 gal)
	36307000	Fire Extinguishing agent (WCK 26) refill	26 L (6.87 gal)

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sensetech
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Kitchenshield@sensetechsystems.co.uk

Office - 020 8713 0668 | Sales - 07368 564714