KEMPER WELDING FUME EXTRACTION

Source capture, filtration and workshop extraction systems for welding and cutting.



Choose Your Setup

Application	Range or option	Page
Move between welding bays	Mobile extraction	02
Equip a permanent work bay	Stationary extraction	03
Capture at the torch or nozzle	High-vacuum extraction	04
Serve multiple bays or robot cells	Central extraction	05
Manage residual airborne fume	Hall ventilation and monitoring	06
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Fit or maintain a system	Accessories and wear parts	10
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Start With the Capture Method

Match the extractor to the process, capture point and work pattern. For an engineered system, quote the number of stations, workpiece sizes, duct routes and site supply.

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CAPTURE AT SOURCE / MOVE BETWEEN BAYS

Mobile Extraction

Move the unit to the work and position the hood close to the weld. Choose by fume load, filter type and the reach needed to follow the joint.



SmartMaster



ProfiMaster / single arm



SmartFil



MaxiFil Clean

Model	KEMPER ref.	Extract. m³/h	Filter area	Choose for
SmartMaster	64300	950	13 m²	Occasional work / replaceable filters
ProfiMaster · 1 arm	60650104	1,100	17 m²	One mobile capture point
ProfiMaster · 2 arm	60650DA100	1,400	17 m²	Two capture points on one unit
SmartFil	64650100	1,100	25 m²	Regular welding / compact body
MaxiFil	65653100	1,100	42 m²	High-capacity filter / 110 V example
MaxiFil AC	65650AK102	950	34 m²	Activated-carbon configuration
FilterMaster XL	62100102	1,000	10 m²	Cleanable cartridge
MaxiFil Clean	67250105	1,450	15 m²	Automatic cleaning and dust collection

Specify the Arm and Supply

The references identify the configurations shown. Confirm arm length, supply voltage, filter type and required approvals for the exact unit.

Mobile configurations and datasheets

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CAPTURE AT SOURCE / FIXED BAYS

Stationary Extraction

Fit a permanent capture point to an established work bay. Choose a wall-mounted unit, a cleanable cartridge unit or a modular filter linked to a separate fan.



MaxiFil Stationary



Cartridge unit / one arm



FilterCell XL



WallMaster

Model	KEMPER ref.	Extract. m³/h	Filter area	Configuration
MaxiFil Stationary	65850107	1,000	42 m²	Fixed single capture point
Cartridge Filter Unit	83100106	1,200	8 m²	One arm / cleanable filter
Cartridge Filter Unit	83200106	1,400	8 m²	Two arms / cleanable filter
FilterCell XL	6020204	1,000	10 m²	Cleanable unit for robot, hood or table
WallMaster	65750	Up to 1,600*	42 m²	Modular wall filter. Specify arm and fan.

* WallMaster figure is the manufacturer's suitable volume flow for the filter.

Plan the Coverage Before Ordering

Check where the welder stands, where the workpiece moves and how the arm will reach both ends of the joint. Allow access to change the filter.

Stationary configurations and datasheets

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CAPTURE AT SOURCE / ON-TORCH EXTRACTION

High-Vacuum Extraction

High-vacuum systems draw air through on-torch extraction or a small nozzle close to the arc. Check the torch's specified airflow at operating pressure.



Dusty Evo



VacuFil Compact



VacuFil Compact Twin



VacuFil 500

Model	KEMPER ref.	Extract. m³/h	Where it fits
Dusty Evo	63202	260	Portable cleanable unit for nozzle or torch extraction.
VacuFil Compact	82361	100 at 18 kPa	Regular use. Replaceable filter and one capture point.
VacuFil Compact Twin	82380	215 at 18 kPa	Twin connection for sustained use. Cleanable filter.
VacuFil 500	82755	500	Up to four workstations, subject to system design.
VacuFil 2000	82820	2,000 max.	Multi-station high-vacuum system.
VacuFil 4000	82840	4,000 max.	Larger multi-station high-vacuum system.

Match the Torch, Hose and Extractor

Quote the torch model, connection diameter and hose run. For several torches, state how many are expected to weld at once.

High-vacuum options and datasheets

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CENTRAL PLANT / WELDING AND THERMAL CUTTING

Central Extraction

Use a ducted system for multiple bays, robot cells or cutting tables. Size the plant around simultaneous demand, duct resistance and the process generating the fume.



WeldFil



PlasmaFil Pro



LaserFil Pro



VarioHood

Model	KEMPER ref.	Extract. m³/h*	Primary application
WeldFil	34270	18,500–26,640	Multiple bays / general welding
WeldFil Compact	3475550	5,250–7,560	Compact central package
ArcFil	20531	2,750–3,900	Robotic welding
ArcFil Pro	3565	4,500–6,480	Robotic welding
LaserFil	27760	3,800–5,500	Laser cutting
LaserFil Pro	3720	1,250–2,160	Laser cutting
PlasmaFil	22230	2,750–3,900	Plasma or flame cutting
PlasmaFil Pro	3250112	3,500–5,040	Plasma or flame cutting

System Options

Option	KEMPER ref.	What to specify
VarioHood	2320402	Modular robot-cell canopy. Quote cell footprint, mounting and access.
SparkTrap	196200450	Inline spark pre-separator. Confirm flow and duct connection.
Levelling platform	1316868	Match to the central unit and base layout.
Dust collection drum	1350474	Match the dust-discharge arrangement and machine.

* Figures identify the linked example configuration. UK voltage, filter size and fan duty are selected for each installation.

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SUPPLEMENTARY VENTILATION / MONITORING

Hall Ventilation & Monitoring

Control welding fume at source first. Use hall ventilation to manage residual airborne contamination, and monitoring to help assess performance.



AirDome



CleanAirTower



KemJet



AirWatch

System	KEMPER ref.	Extract. m³/h	Application
AirDome	390650	8,000–20,000	Stationary ventilation for inflatable halls and large enclosures.
CleanAirTower	390620	6,000	Freestanding hall ventilation.
CleanAirTower SF 9000	390451	9,000	Hall ventilation with storage filter.
KemJet	998800407	6,000	Stand-alone mixed-ventilation installation.
Push-Pull / Displacement	Project quote	Site-specific	Designed around the production hall and residual load.

Monitoring & Connectivity

Product	KEMPER ref.	Use
AirWatch	390200	Fixed particle monitoring for the workplace.
Dustlight	390300	Wearable dust monitor.
KEMPER Connect	99973003	Remote operating data for compatible equipment.
Connect IoT Kit	3605623001	Connectivity kit for supported equipment.
Connect Bridge	3605615	Network bridge for supported KEMPER devices.

HSE guidance on welding fume control

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CAPTURE HARDWARE / ARMS, HOODS AND FANS

Extraction Arms & Fans

Choose the mount and reach around the work envelope. Confirm the fan duty at the installed resistance, the hood position and the intended discharge route.



Standard exhaust arm



Two-joint arm



Fan Eco



The Hood Pro

Family	KEMPER ref.	Selection detail
Standard exhaust arm	79504	Up to 4 m reach, depending on configuration.
Two-joint arm	79507	Up to 7 m reach.
Three-joint arm	79307	Up to 8 m reach.
Long-reach arm	79410	9–10 m reach.
Arm for suction rail	79002100	Moving capture point along a suction channel.
Upright / suspended arm	79053	Mount to a bench or existing extraction system.
The Hood	791065	Capture hood for a compatible extraction arm.
The Hood Pro	79105	Capture hood with integrated lighting.
Fan Eco	92110150	Fan for exhaust arms and telescopic arms.
Welding Smoke Exhaust Fan Eco	916231001	Fan assembly for compatible arms.
Central Fan	9210510170100	Ducted applications with higher air demand.
Exhaust Set Eco · 2–4 m	790042031	Arm and fan package.
Exhaust Set Eco · 5–7 m	797062031	Arm, boom and fan package.
Exhaust Set Eco · 7–10 m	794092011	Longer-reach arm, boom and fan package.

Columns, mounting brackets, hose and lighting kits are listed under accessories. For specialist hose, specify duty, diameter, temperature and medium.

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WORKSTATION EXTRACTION / BENCH SELECTION

Welding & Grinding Tables

Use an extracted bench for repeatable work on small fabrications. Check working dimensions, workpiece mass and whether the bench requires a separate extractor.



FilterTable Clean



FilterTable GWT



Grinding Table



Training fixture table

Table	KEMPER ref.	Selection detail
FilterTable Clean	95520501	Integrated cleanable extraction for continuous work.
FilterTable	950400501	Combined workbench and extraction filter.
FilterTable GWT	950400020	Integrated extraction with a larger work surface.
Welding Table	950490048	Small fabrication. Connect to extraction or specify a fan.
Grinding Table	998200023	Downdraft and rear-wall capture. Connect to central extraction.
Hand Cutting Table	1970033	Manual cutting with a removable slag tray.
Hand Cutting Table with Fixture	99841	Torch clamp for hand-cutting training.
Welding Training Table	95021300	Divided work surface for welding practice.
Training Table with Fixture	95049109	Forced-position welding training.

Manual table configurations and datasheets

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THERMAL CUTTING / CONFIGURED EXTRACTION BEDS

Mechanised Cutting Tables

Segmented beds extract from the active section of the cutting area. Specify the table and filter system together for the cutting process, plate and duty.



KemTab



KemTab Advance

Model	KEMPER ref.	Manufacturer configuration details
KemTab	99851	Up to 300 A plasma. Standard material-support widths 1,600–3,100 mm. 700mm table height.
KemTab Advance	510845	Up to 300 A plasma, with short peaks to 400 A. Standard widths 1,100–3,100mm. 700mm table height.

What to Include in a Cutting Table Enquiry

Give the cutting process and current, maximum plate size and thickness, loading method, table envelope and preferred extraction connection.

KEMPER technical catalogue · cutting tables

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PARTS / CAPTURE AND MOUNTING

Extraction Accessories

Specify adaptors, hoods, nozzles and controls to suit the extractor or torch. Use the manufacturer reference to check fit.







Product / component	KEMPER ref.
Aluminium pre-filter	1090758
Adaptor welding torch 42-44mm	1060071
Automatic start-stop	94102781
Column for exhaust arm	1411303
Column for exhaust arm	998800280
Slit nozzle 300mm	2320008
Click-Fast wristband	390351
Funnel nozzle, round	2320006
The Hood Pro	79105
Volume flow control for VacuFil Compact	1180838
Funnel nozzle	2320010
Lighting kit consisting of The Hood Pro with cable set and transformer box	79103048
High vacuum extraction hose - 10 m	93070006
Slit nozzle 600mm	2320009
Telescopic tripod AirWatch	390-251
Protective mesh	1272520
H13 Filter for MaxiFil Clean	67250813

KEMPER accessories · configuration details

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PARTS / FITTING AND CONTROL

Extraction Accessories

Match model, arm or hose diameter and mounting position before ordering replacement fittings or controls.







Product / component	KEMPER ref.
Column for exhaust arm	998801323
Protective screen set	998-803719
Automatic start-stop for ProfiMaster	94102782
Automatic Start-Stop	94102704
Adaptor welding torch 30-38mm	1060084
Automatic Start-Stop	94102702
Click-Fast chest strap	390350
H13 Filter for VacuFil Compact Twin	1318087
Aluminium pre-filter	1090013
Activated carbon filter	1090345
Lighting kit consisting of The Hood Pro with cable set and transformer box	79103034
H13 Filter for VacuFil Compact	1317476
Adaptor welding torch 39-42mm	1060104
H13 Filter for SmartFil	64650813
Tool tray with cup holder for VacuFil Compact	1490776
Tool tray with cup holder for Dusty Evo	1490783

KEMPER accessories · configuration details

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SERVICE / FILTERS AND CARTRIDGES

Replacement Filters

Use the machine identification plate and original filter reference. Check filter type, dimensions and seals when replacing cartridges or mats.







Product / component	KEMPER ref.
Replacement filter for FilterMaster XL	1090438
Replacement filter for VacuFil Compact	1090676
Pre-filter mat	1090472
Replacement filter 42 m²	1090517
Activated charcoal filter	1090505
Spare filter for Dusty	1090432
Spare filter for CleanAirTower SF 100 m²	39045001
Aluminium pre-filter CleanAirTower SF	1090549
Spare filter for SmartMaster	1090453
20 m² KemTex® ePTFE membrane cartridge filter	1090447
Pre-filter insert, aluminium mesh	1090732
Replacement filter for VacuFil Compact	1090699
Spare filter for ProfiMaster	1090457
30 m² KemTex® ePTFE membrane cartridge filter	1090729
Replacement filter 25 m² for SmartFil	1090675

KEMPER wear parts · configuration details

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SERVICE / FILTERS AND COLLECTION

Filters & Wear Parts

Check the manufacturer's compatibility information before ordering. Quote the machine model and serial number if the fitted filter is unclear.







Product / component	KEMPER ref.
Set of clean air outlet pre-filter mats	1990050
Dust collection bin (set of 3)	1490717
Disposal bucket set incl. lid (4 pieces)	1190335
Spare filter for MaxiFil Clean	1090469
Spare filter	1090010
Spare filter for SmartMaster	1090454
Set Main filter and activated charcoal filter for MaxiFil	1090515
KemTex® ePTFE Spare filter	1090434
Pre filter mat	1090452
Dust collection bags, set of 5	1191142
Spare filter for VacuFil 500	1090440
Single-use disposal container for VacuFil Compact	1490779
Spare filter for MaxiFil	1090504
Pre-filter mats (10 per set)	1090033

KEMPER wear parts · configuration details

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WORKSHOP SEPARATION / SCREENS AND CURTAINS

Screens & Partitioning

Shield nearby work areas with the appropriate optical protection and mounting. Assess access, visibility and fume containment alongside the extraction design.







Product / component	KEMPER ref.
Mobile soundproof wall	998802874
Sound Insulating Partitioning Wall Systems	95000001200
Welding protection strip S9, dark green, matt	70209033
Protection Strip S0, Clear	70201035
Pivoting Arm	70700250
Welding Protection Curtain S7, Green	70100302
Protection Curtain S0, Clear	70100505
Protective screen with curtain	70600303
Welding Blanket 1.350°C	70160120
1-Panel Mobile Protective Screen With Curtain	1-706005
Welding Strip Curtain S0, Clear	70250502
Welding Strip Curtain S9, Dark Green	70250102
Welding Protection Curtain, Red	70100406
Pivoting Self Retracting Cable Reel For Curtains	70110101
3-panel mobile protective screen with strip curtain	70600655
1-panel mobile protective screen with strip curtain	70600600

KEMPER occupational safety and partition walls · configuration details

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WORKSHOP SEPARATION / HARDWARE AND BLANKETS

Partitions & Protection

Choose the panel layout or mounting hardware to suit the bay. For acoustic partitions and booths, quote the footprint and access required.







Product / component	KEMPER ref.
Pivoting arm for welding curtains and welding protection strips, wall-mounted, length 2,000mm	70700258
Welding Blanket 950° C	70155120
Welding Curtain S9, Dark Green	70100105
Welding Strip Curtain, Red	70250404
Pivoting Arm Including Column	70700659
Welding Blankets 750°C	70150130
3-panel mobile protective screen with strip curtain	70600665
Pivoting Arm Including Column	70700654
Welding Protection Strip, Red	70202033
Welding Protection Strip S7, Green	70204033
3-panel mobile protective screen with curtain	70600552
Welding Protection Strip, Bronze	70203032
1-panel mobile protective screen with strip curtain	70600703
Wheel set	70600699
Swivel Arm Wall Mounted, Lockable And Telescopic	1314874

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SYSTEM ENQUIRY / TECHNICAL RESOURCES

Specify Your System

A useful extraction enquiry starts with the work. Send a layout or photographs where the installation has several capture points or restricted access.





Tell us about	Details to include
Process and material	Welding process, materials, consumables and typical arc time.
Capture point	Arm, on-torch, extracted table or enclosure. Include workpiece and access dimensions.
Concurrent demand	Number of workstations and how many can run together.
Installation	Power, compressed air if required, routes for ducting, discharge and maintenance access.
Existing equipment	Manufacturer reference, serial number and the fitted filter or accessory code.

KEMPER technical catalogue KEMPER operating manuals HSE welding fume guidance

Email R H Davey about an extraction project

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