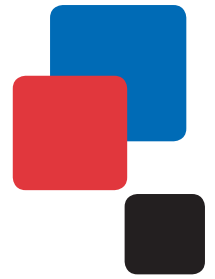


Aspirating Pipe & Components Guide



ASD Units

The performance, flexibility and functionality of the Morley-IAS by Honeywell ASD product range mean they are used in a wide range of applications, from areas where traditional point detection is considered through to specialist installations where only air sampling solves the fire detection requirement. A silent and freezer version is also available. Please contact your local business manager for further information.

COMPACT ASD

Compact and cost effective ASD for monitoring small to medium-sized spaces and equipment. With optional ROOM•IDENT, the unit can monitor up to 5 rooms and identify the source of the alarm.

Compact ASD (Including Detector) 0.5% obscuration

Part No. **ASD-CM**

Part No. **ASD-CM2**



ALL-SPEC ASD

Cost effective, universal air sampling solution for a broad range of applications. The modular device has up to 2 alarm levels, 2 independent detector modules for double knock detection and a range of accessories. To be used in conjunction with ASD-TP-01, ASD-TP-05 and ASD-TP-001 detector modules.

ALL-SPEC1 without Detector module

Part No. **ALL-SPEC1**

Part No. **ALL-SPEC2**

Part No. **ALL-SPEC1-SL**

Part No. **ALL-SPEC2-SL**

Part No. **ALL-SPEC1-FR**

Part No. **ALL-SPEC2-FR**



HI-SPEC ASD

High specification, fully featured air sampling system for a broad range of applications. The unit has graded alarms and a smoke level bar graph display. The modular device has up to 2 alarm levels, 2 independent detector modules for double knock detection and a range of accessories. To be used in conjunction with ASD-TT-01, ASD-TT-05 and ASD-TT-001 detector modules.

HI-SPEC1 without Detector module

Part No. **HI-SPEC1**

Part No. **HI-SPEC2**

Part No. **HI-SPEC1-SL**

Part No. **HI-SPEC2-SL**

Part No. **HI-SPEC1-FR**

Part No. **HI-SPEC2-FR**



Detector Modules

Choosing a detector module is specific to each application and the pipe work design verified in Pipe Express (see page 12). Each of these modules varies in sensitivity to ensure that the area is protected effectively.



Detector Module TP-0,5% for All-SPEC & Silent units

Part No. **ASD-TP-05**

Detector Module TP-0,1% for ALL-SPEC & Silent units

Part No. **ASD-TP-01**

Detector Module TP-0,01% for ALL-SPEC & Silent units

Part No. **ASD-TP-001**

Detector Module TP-0.5% ALL-SPEC & FREEZER units

Part No. **ASD-TP-05FR**

Detector Module TP-0.1% ALL-SPEC & FREEZER units

Part No. **ASD-TP-01FR**

Detector Module TP-0.1% ALL-SPEC & FREEZER unitss

Part No. **ASD-TP-001FR**

Detector Modules (continued)



Detector Module TP-0,5% for HI-SPEC & Silent units

Part No. ASD-TT-05

Detector Module TP-0,1% for HI-SPEC & Silent units

Part No. ASD-TT-01

Detector Module TP-0,01% for HI-SPEC & Silent units

Part No. ASD-TT-001

Detector Module TP-0.5% HI-SPEC & FREEZER units

Part No. ASD-TT-05FR

Detector Module TP-0.1% HI-SPEC & FREEZER units

Part No. ASD-TT-01FR

Detector Module TP-0.1% HI-SPEC & FREEZER units

Part No. ASD-TT-001FR

Pipes

Material Specification and General information

ABS Pressure Pipe Systems - General Information

ABS (Acrylonitrile Butadiene Styrene) is a homogenous material with good chemical resistance and high impact strength.

Other beneficial features are its suitability for use at low temperatures (-40°C) and its ease of jointing.

Standards

All Aspirating Pipe and Fittings supplied by Morley-IAS are produced under a strict quality control system approved to EN ISO 9001.

In addition, all Aspirating Pipe Products have been tested by LPCB to EN 54-20 Clause 5.7, and EN 61386-1 Class 1131. LPCB Test Report No-TE250773.

Individual products are in accordance with the appropriate British Standards:

- Fittings (Metric) Din 8063, Kiwa 549, ISO 727
- Pipe BS 5391 EN 61386-1 Class 1131
- Adhesive BS 4346 Part 3

Colour

All ABS products supplied by Morley-IAS are manufactured in red and white.

Temperature range

ABS is suitable for use over a wide temperature range from -40°C to 70°C



Pipes & Fittings

(25mm ABS fittings)

90 Degree Swept Bend

Plain Red ABS 25mm 90° Bend

(Available in red or white)

Part No. **RED90**

WHT90



90 Degree Elbow

Plain Red ABS 25mm 90° Elbow

(Available in red or white)

Part No. **RED90ELB**

WHT90ELB



45 Degree Bend

Plain Red ABS 25mm 45° Elbow

(Available in red or white)

Part No. **RED45**

WHT45



Socket Union

Plain Red ABS 25mm Union

(Available in red or white)

Part No. **REDUN**

WHTUN



Pipe Clip

Red 25mm x 3/4" Pipe Clip

(Available in red or white)

Part No. **REDCLIP**

WHTCLIP



Pipes & Fittings

(25mm ABS fittings)

Joining Socket

Plain Red ABS 25mm Socket

(Available in red or white)

Part No. **REDSOC**

WHTSOC



T Piece

Plain Red ABS 25mm 90° Tee

(Available in red or white)

Part No. **REDTP**

WHTTP



End Cap

Plain Red ABS 3/4" (27mm) Cap

(Available in red or white)

Part No. **REDENDC**

WHTENC



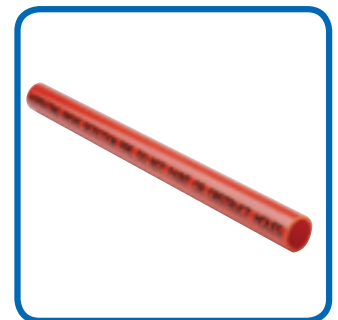
Pipe 3 Metres

Red 25mm ABS Pipe 3 Metre Lengths

(Available in red or white)

Part No. **RED3MP**

WHT3MP



Flush Sampling Kit

25mm Red Capillary Kit with Flush Air Sample Point

(Available in red or white)

Part No. **REDFSK**

WHTFSK



Pipes & Fittings

(Red 25mm ABS fittings)

Conical Sampling Kit

25mm Red Capillary Kit with Conical Air Sampling Point

(Available in red or white)

Part No. **REDCSK**

WHTCSK



Discrete Sampling Kit

Text needed please.

(Available in red or white)

Part No. **REDDSK**



Pipe Cutters

Economy Pipe Cutter 0 – 42mm

Part No. **REDPIPC**



Cement 250ml

ABS Cement 250ml Tin

Part No. **REDCEM**



Marking Tapes

Aspirating reducing film tapes are available in various sizes to suit the application from 2.00mm to 7.00mm. See price list for details and part numbers.

Part No. **AF-xx**



Pipes & Fittings

(Red 25mm ABS fittings)

Air Flow Reducers

Air Flow Reducers are available in various sizes to suit the application from 2.00mm to 7.00mm. See price list for details and part numbers.

Part No. **AK-xx**



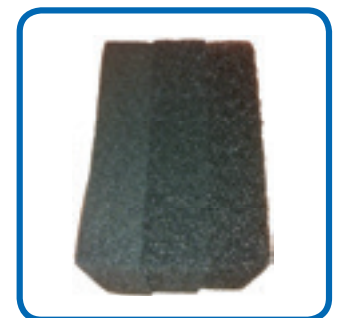
25mm Large Air Filter

Part No. **LF-AD**



Filter Elements

Part No. **LF-AD-E**



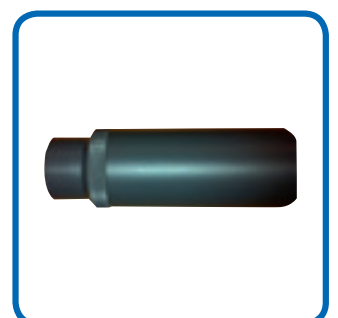
25mm Large 2 Way Ball Valve

Part No. **3KH-PVC**



Non-Return Valve

Part No. **RSV-R25**

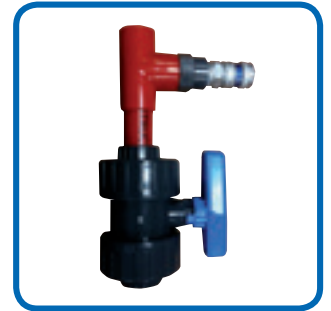


Pipes & Fittings

(Red 25mm ABS fittings)

Blow through valve

Part No. UK109070



Steam Trap

Part No. KA-1



Clips and Bracketing

Clips and Bracketing

Pipe brackets need to be made with the inside diameter of the bracket marginally larger than that of the pipe outer diameter. This allows for free lineal movement of the pipe, and avoids inhibiting expansion or contraction. They should also be smooth, to avoid damage to the outer surface of the pipe.

Plastic pipe clips meet all these requirements, and are strong, durable against temperature, Ultra Violet light and can also be used in corrosive or otherwise adverse environmental conditions.

Pipe clips are adaptable and can fixed in the normal way or be screwed onto M6 or M8 threaded bar by inserting the respective nut into the side of the clip. They can also be fitted to the side of M6 or M8 threaded bar by utilising a rod adaptor.

Bracket Spacing Intervals

Plastic pipe lines require regular support, and the spacing of clips or brackets depends on the pipe used, temperature, and density of the liquid carried.

The following tables show the centre to centre measurement between brackets.

ABS Pipe 15 Bar (217 Psi) Class E, Inch Sizes

PIPE SIZE		BRACKET SPACING IN METRES					
INCH	METRIC	20°C	30°C	40°C	50°C	60°C	70°C
$\frac{3}{4}$	25	1.00	0.95	0.85	0.75	0.75	0.60



PipeXpress

PipeXpress is a software design tool that assists in creating the pipe layout design required for each project.

You can design a complex pipe system with other systems spending around 20 minutes after which you press a button and the system might tell you: "No, the demands of EN 54-20 class X are not fulfilled!" Then you can try change parameters in order to reach standard conformity. This is not true with PipeXpress.

With other systems having to detail all the bends off sets etc has issues, in reality pipe runs often differ to the ASD design. You then must update your calculation in order to check if the real ASD design still fulfills the standard requirements and classification, how often does that happen?

PipeXpress works differently; it is based upon worst-case-scenarios. This means, the design data is based on tests which have been carried out at VdS with an unrealistic high amount of bends and with maximum distance between the aspiration points means that the system does not need to be further verified. It makes sense to keep the pipe as straight as possible however in reality this is not always practical. PipeXpress the Input of the program is your target. The output of the program is a summary of ways which lead to the required result, Calculations with incorrect result are excluded.

All data which are This way a maximum of design freedom is reached, which means, actual installed on site might be different from the parameter assumed in the planning phase, but as long as the total pipe length does not exceed the maximum given in the report the design will still be conform to EN 54-20 / CPD.

For PipeXpress this means: more freedom, better reliability and less time for planning compared to conventional design software. And: Who is taking the legal / design liability for all the installations which are not in accordance with the original ASD planning?

The program is developed for achieving a decisive advantage and our experience in the market with it are highly positive, PipeXpress saves time, gives accurate information and clarity on what is required by an installer and commissioning engineer to set up the system. Remember Morley-IAS systems have a balanced design the effective sensitivity is the same across the entire system, the best the competition can do is around 70% in balance. Installation is simplified a 10mm hole in the pipe reduced by the defined and correct reducing sample point:- Easy; Can other design systems be sure that the installer has drilled the right 2mm -3mm sample point ? would the installer really change the drill bit how do you measure the efficiency of the installation.



Part number index

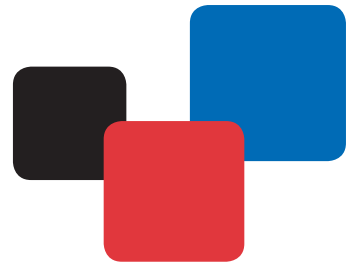
ALL-SPEC1	Morley-IAS ALL-SPEC1 without Detector module
ALL-SPEC2	Morley-IAS ALL-SPEC2 without Detector modules
ALL-SPEC1-SL	Morley-IAS ALL-SPEC1 Silent option without Detector module
ALL-SPEC2-SL	Morley-IAS ALL-SPEC2 Silent option without Detector module
ALL-SPEC1-FR	Morley-IAS ALL-SPEC1 freezer option without Detector module
ALL-SPEC2-FR	Morley-IAS ALL-SPEC2 freezer option without Detector module
ASD-TP-05	Detector Module TP-0,5% for All-SPEC & Silent units
ASD-TP-01	Detector Module TP-0,1% for ALL-SPEC & Silent units
ASD-TP-001	Detector Module TP-0,01% for ALL-SPEC & Silent units
ASD-TP-05FR	Detector Module TP-0.5% ALL-SPEC & FREEZER units
ASD-TP-01FR	Detector Module TP-0.1% ALL-SPEC & FREEZER units
ASD-TP-001FR	Detector Module TP-0.1% ALL-SPEC & FREEZER units
HI-SPEC1	Morley-IAS HI-SPEC1 without Detector module
HI-SPEC2	Morley-IAS HI-SPECC2 without Detector modules
HI-SPEC1-SL	Morley-IAS HI-SPEC1 Silent option without Detector module
HI-SPEC2-SL	Morley-IAS HI-SPEC2 Silent option without Detector module
HI-SPEC1-FR	Morley-IAS HI-SPEC1 freezer option without Detector module
HI-SPEC2-FR	Morley-IAS HI-SPEC2 freezer option without Detector module
ASD-TT-05	Detector Module TP-0,5% for HI-SPEC & Silent units
ASD-TT-01	Detector Module TP-0,1% for HI-SPEC & Silent units
ASD-TT-001	Detector Module TP-0,01% for HI-SPEC & Silent units
ASD-TT-05FR	Detector Module TP-0.5% HI-SPEC & FREEZER units
ASD-TT-01FR	Detector Module TP-0.1% HI-SPEC & FREEZER units
ASD-TT-001FR	Detector Module TP-0.1% HI-SPEC & FREEZER units
ASD-CM	ASD COMPACT ASD
ASD-CM2	ASD - COMPACT ASD 2
AF-BR	Marking Tapes
AF-20	Aspiration Reducing Film Tapes 2.0mm
AF-25	Aspiration Reducing Film Tapes 2.5mm
AF-30	Aspiration Reducing Film Tapes 3.0mm
AF-32	Aspiration Reducing Film Tapes 3.2mm
AF-34	Aspiration Reducing Film Tapes 3.4mm
AF-36	Aspiration Reducing Film Tapes 3.6mm
AF-38	Aspiration Reducing Film Tapes 3.8mm
AF-40	Aspiration Reducing Film Tapes 4.0mm
AF-42	Aspiration Reducing Film Tapes 4.2mm

Part number index

AF-44	Aspiration Reducing Film Tapes 4.4mm
AF-46	Aspiration Reducing Film Tapes 4.6mm
AF-50	Aspiration Reducing Film Tapes 5.0mm
AF-52	Aspiration Reducing Film Tapes 5.2mm
AF-56	Aspiration Reducing Film Tapes 5.6mm
AF-60	Aspiration Reducing Film Tapes 6.0mm
AF-68	Aspiration Reducing Film Tapes 6.8mm
AF-70	Aspiration Reducing Film Tapes 7.0mm
AK-20	Air Flow Reducers for Special Env. 2.0mm
AK-25	Air Flow Reducers for Special Env. 2.5mm
AK-30	Air Flow Reducers for Special Env. 3.0mm
AK-32	Air Flow Reducers for Special Env. 3.2mm
AK-34	Air Flow Reducers for Special Env. 3.4mm
AK-36	Air Flow Reducers for Special Env. 3.6mm
AK-38	Air Flow Reducers for Special Env. 3.8mm
AK-40	Air Flow Reducers for Special Env. 4.0mm
AK-42	Air Flow Reducers for Special Env. 4.2mm
AK-44	Air Flow Reducers for Special Env. 4.4mm
AK-46	Air Flow Reducers for Special Env. 4.6mm
AK-50	Air Flow Reducers for Special Env. 5.0mm
AK-52	Air Flow Reducers for Special Env. 5.2mm
AK-56	Air Flow Reducers for Special Env. 5.6mm
AK-60	Air Flow Reducers for Special Env. 6.0mm
AK-68	Air Flow Reducers for Special Env. 6.8mm
AK-70	Air Flow Reducers for Special Env. 7.0mm
AK-C	Plastic Clip for Air Flow Reducers
LF-AD	Filter LF-AD
LF-AD-E	Filterelement f. LF-AD
SF-400	Special Filter
SF400-E	Filterelement for Special Filter
KA-1	Steam Trap
3KH-PVC	3-ways Ball Valve
RSV-R25	Non Return Valve
UK109070	Manual blow through valve set complete
DIAG3	Diagnostic Tool
RED90	90 Degree Bend each

Part number index

RED90ELB	90 Degree Elboweach
RED45	45 Degree Bend each
REDUN	Socket Union each
REDCLIP	Pipe Clip
REDSOC	Jointing Socket each
REDTP	T Piece each
REDENDC	End Cap each
RED3MP	Pipe 3 Metres
REDFSK	Flush Sampling Kit
REDCSK	Conical Sampling Kit
REDDSK	Discrete Sampling Kit
REDPIPC	Pipe Cutters
REDCEM	Cement 250ml
WHT90	90 Degree Bend each
WHT90ELB	90 Degree Elboweach
WHT45	45 Degree Bend each
WHTUN	Socket Union each
WHTCLIP	Pipe Clip
WHTSOC	Jointing Socket each
WHTTP	T Piece each
WHTENDC	End Cap each
WHT3MP	Pipe 3 Metres
WHTFSK	Flush Sampling Kit
WHTCSK	Conical Sampling Kit
05214-24-EN	EN54 Charger / power Supply - 4Amp
ASD-PSU25	2.5A power Supply support upto 12 AH
4015-514-Y	Batteries 12V 12Ah
4015-501-Y	Batteries 12V 7Ah



Distributor Contact Details:

Empty rectangular box for distributor contact details.

For further details on these or any other Morley-IAS products please contact your local distributor, your local Morley-IAS Business Manager or please feel free to contact the head office using the details provided below. Morley-IAS by Honeywell – Providing a control panel solution, for fire industry professionals, committed to supporting our device partners.



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