

WALKER
FILTRATION

使用说明书

SR
Gas Purification Solutions

在线式压缩空气加热器



The ultimate filtration & drying technology

CE MARKED AND AND COMPLIANT WITH :

EN 61000-3-2

EN 61000-3-3

EN 61000-6-2 (See operating parameters)

EN 61000-6-3

**Application:**

Walker Filtration design and manufacture a comprehensive range of compressed air and gas filtration products for use in almost every environment. C

Installation:

Filter heaters and air line heaters should be installed as close to the point of use as possible. Air line heaters must only be used when an 0.01 micron filter housing (XA/AC) is installed directly upstream to remove particulate contamination. Existing or new pipelines, should be purged to remove any collected debris.

1. Select position for air line heater or filter heater. It is vital to depressurise new or existing pipe work before installation.
2. Install air line heater or filter heater onto pipeline observing vertical orientation and direction of flow arrow marked on the heater housing. Heaters are provided with Rp or NPT screwed ports for use with parallel or taper fittings. PTFE tape or thread sealing compound should be used on pipe threads to ensure a good connection.
3. The electrical supply to the heaters should be connected in accordance with Figure 1 (page 11). Ensuring cable is suitably rated. This product must be earthed. See technical specification.
4. During initial pressurisation of the system, inlet valves should be opened slowly to reduce inlet velocities until system pressures are stabilised. Check for leaks before putting heater into operation.

Operation:

1. Ensure that the rated line voltage and supply voltage are the same:
115V USA and Canada
230V UK and Europe
2. The heater should be protected by appropriate external fusing (115V-15 amp, 230V-8 amp). **It is essential that a switched fuse spur including a RCD (Residual Current Device) is used for connecting the heater to the electrical supply.**
3. Ensure that the mains connector plug is secured with a fixing screw prior to operation.
4. Rotate the temperature control knob on the side of the unit fully anti-clockwise to the 'minimum' setting.
5. Once the compressed air line has been switched on and is flowing switch on the mains supply to the heater. The maximum operating pressure is 16 barg (232psig).
6. Turning the control knob clockwise to increase the air temperature and anti-clockwise to decrease the temperature. The temperature control knob should be altered gradually to allow temperature stabilisation to take place. Always decrease the temperature to the minimum before switching off.
7. If supplied with a thermometer, the air line or filter heater outlet temperature can be directly monitored.

Caution: The unit you have purchased is capable of heating the flow of compressed air to 120°C maximum. It is essential that all pipework associated with the supply of this heated air is capable of this duty. Maximum temperature tolerance of flexible air hoses vary significantly, therefore, if in doubt, contact the supplier.

The unit must not be exposed to a conducted electrical disturbance greater than a frequency of 15MHz. The unit may show evidence of a temperature decrease.

Maintenance:

There are no serviceable components in the heater assembly or it's associated control electronics. If a fault or damage occurs to the unit the following replaceable spare parts are available.

	115V Part Number	230V Part Number
Replacement heating element	WKN40388	WKN40037
Replacement PCB	WKN40390	WKN40170
Replacement sensor	WKN40171	WKN40171
Replacement thermometer	WKN40397	WKN40173

WARNING!

THE HEATER OUTLET PORT AREA AND OUTLET PIPEWORK WILL BECOME HOT WHEN IN USE – AVOID PERSONAL CONTACT.

ONLY A COMPETENT PERSON SHOULD ATTEMPT TO INSTALL HEATERS AND CONNECT MAINS SUPPLY WIRING.

SERIOUS PERSONAL INJURY CAN RESULT IF THESE INSTRUCTIONS ARE NOT FOLLOWED.

DO NOT ATTEMPT TO REMOVE ANY ITEM ON THE HEATER WHILST IT IS UNDER PRESSURE.

DO NOT OPERATE IF THERE IS A LEAK IN THE HEATER, IMMEDIATELY TAKE HEATER OUT OF SERVICE AND REMEDY LEAK.

DO NOT OPERATE ABOVE THE MAXIMUM WORKING PRESSURE 16 BARG (232PSIG) AT MAXIMUM OPERATING TEMPERATURE 120°C (248°F)

VARIABLE OUTLET TEMPERATURE UPTO 120°C (232°F) IS DEPENDANT UPON THE INLET TEMPERATURE.

应用:

沃克过滤设计和生产的全面压缩空气和气体过滤产品几乎在所有的环境中使用。压缩空气电加热器,过滤器加热器,提供不同的温度控制在 20°C 至 120°C,并适用于工业或呼吸空气应用。

安装方式:

过滤器加热器和空气在线加热器应尽可能安装在靠近使用点的位置。空气电加热器使用时,必须使用 0.01 微米的过滤器(XA/AC)安装在上游,以除去颗粒油水污染。

不管旧管道或新的管道,都应该清洗以消除任何杂质。

- 1, 选择加热器或空气过滤加热器的位置。在安装前,必须要把管道里压力降下来。
- 2, 观察加热器外壳上的箭头方向来安装空气在线加热器或过滤器-加热器。加热器有 Rp 或 NPT 螺纹两种连接方式。应使用 PTFE 带或螺纹密封胶,以确保良好的连接。
- 3, 加热器的电源供应连接方式如下图,按照图 1(第 11 页)。确保电缆符合适用等级。本产品必须接地,见技术规范。
- 4, 在最初的加压系统,进水阀应打开缓慢降低进气速度,直到系统压力稳定。将加热器投入运行前,应检查是否有渗漏。

操作:

- 1, 确保额定线电压和电源电压是相同的:
115V 美国和加拿大
230V 英国和欧洲
- 2, 加热器应使用适当的外部保险装置(115V-15 安培,230V-8 安培)保护。注意:应使用包括 RCD(剩余电流装置)的开关熔断器来保护加热器,用于连接到电源。
- 3, 操作之前确保电源连接器插头用螺钉固定牢固。
- 4, 逆时针旋转温度调节钮至“最小”位置。
- 5, 当压缩空气接通并流过加热器时,开启电源开关,最大使用压力 16bar(232psig)。
- 6, 旋转温度调节钮顺时针增加或逆时针减少加热温度,慢慢调节温度调节旋钮让温度稳定。关闭加热器前应调节温度旋钮到最低温度位置。
- 7, 如果加热器配有温度显示表,出口温度可以直接监控。

保养方法:

加热器组件或它的相关的控制电路没有可维护部分。如果出现故障或损坏时,应使用以下可更换备件。

	115V	230V
	备件号	备件号
加热元件	WKN40388	WKN40037
印制电路板	WKN40390	WKN40170
传感器	WKN40171	WKN40171
温度计	WKN40397	WKN40173

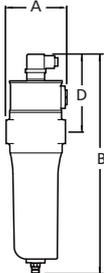
注意事项!

加热器工作时出口和连接管道会变得很热 - 避免接触。
只有专业的人员才能安装加热器及连接电源供应配线。
如果不遵守这些说明,可能会造成严重的人身伤害。
在加热器带压工作时,不拆卸任何零部件。
如果加热器出现泄漏,应立即停止加热器的工作并及时修复泄漏。
不允许加热器在最高工作温度 120°C (248°F) 和最大工作压力 16bar 以上工作。

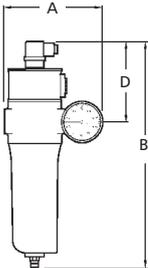
Technical data

TECHNISCHE DATEN
 CARACTERISTQUES TECHNIQUES
 DATI TECNI

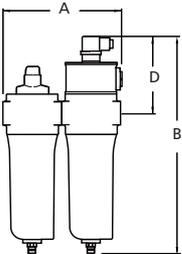
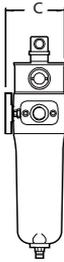
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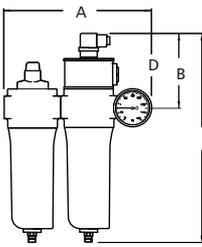
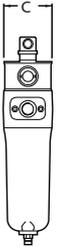
Model A39BH & A55BH



Model A39TH & A55TH



Model A39FH & A55FH



Model A39FTH & A55FTH

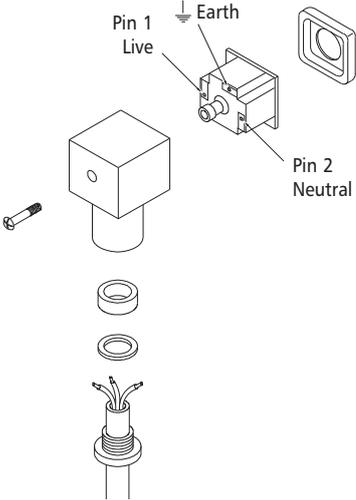
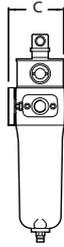


FIGURE 1

Heater Packages

Technical data

TECHNISCHE DATEN DATOS TECNICOS
 CHARACTERISTICS TEKNISCHE DATA
 TECHNISCHE DATEN

Filter Model	Pipe Size*	Maximum Flow			Dimensions mm				Description
		Nm ³ /min	Nm ³ /h	SCFM	A	B	C	D	
A39BH	3/8	0.75	47	27	88	337	90	130	Basic heater only
A39FH	3/8	0.75	47	27	176	337	90	130	Filter and basic heater only
A39TH	3/8	0.75	47	27	138	337	100	130	Heater and outlet thermometer
A39FTH	3/8	0.75	47	27	226	337	100	130	Filter, heater and outlet thermometer
A55BH	1/2	1.5	92	54	88	337	90	130	Basic heater only
A55FH	1/2	1.5	92	54	176	337	90	130	Filter and basic heater only
A55TH	1/2	1.5	92	54	138	337	100	130	Heater and outlet thermometer
A55FTH	1/2	1.5	92	54	226	337	100	130	Filter, heater and outlet thermometer
WKN 40182	-	-	-	-	-	-	-	-	Thermometer assembly
E511XA	-	-	-	-	-	-	-	-	Replacement filter element for pre-filters

* Threaded connections are BSP parallel to ISO/7 or NPT to ANSI B2 if supplied within North America.

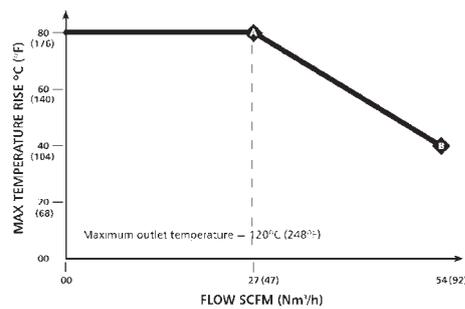
Specifications for Heater Units

Heater specification	230 Volt AC		115 Volt AC	
Supply voltage	230 volt AC-50/60Hz		115 volt AC-50/60Hz	
Power rating	1.5Kw		1.5Kw	
Max. working pressure	16 barg	232 psig	16 barg	232 psig
Controlled output range	20°C to 120°C	68°F to 248°F	20°C to 120°C	68°F to 248°F
Max. inlet temperature	-20°C	-4°F	-20°C	-4°F
Amp	6.5 amps		13.0 amps	
Recommended Fuse	8 amp		15 amp	

Important !

It is essential that a switched fuse spur including a RCD (Residual Current Device) is used for connecting the heater to the electrical supply.

- (GB)** Variable outlet temperature upto 120°C (232°F) is dependant upon the inlet temperature.
- (D)** Die veränderliche Ausgangstemperatur von bis zu 120°C (232°F) ist abhängig von der Eingangstemperatur.
- (F)** La température variable de sortie, jusqu'à 120°C (232°F), dépend de la température d'arrivée.
- (I)** La temperatura d'uscita variabile fino a 120°C (232°F) dipende della temperatura d'entrata.
- (SP)** La temperatura del orificio variable de ventilación que sea superior a 120°C (232°F) depende de la temperatura de entrada.
- (DK)** Variabel udstømningsstemperatur på op til 120°C (232°F) afhængig af indstrømningstemperaturen.
- (NL)** Een variabele uitlaattemperatuur hoger dan 120°C wordt bepaald door de inlaattemperatuur.



The inlet air temperature can be increased according to the above graph and the intelligent controller will hold any pre-set temperature irrespective of flow rate fluctuations.



Service and Customer Assistance:

For sales or technical advice on any of the Walker Filtration products please contact your nearest branch.

W WALKER FILTRATION



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