ENGINEERING
TOMORROW

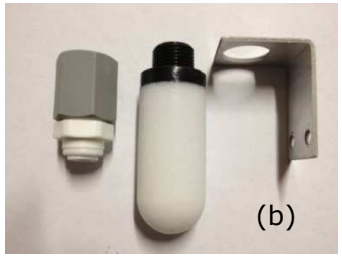
DANFOSS HALOGEN GAS MONITOR - DHGM
PORTABLE GAS MONITOR - PAGM

DANFOSS HALOGEN GAS MONITOR (DHGM)
(080Z2151) – 8 Zone Install

a) *DHGM Unit (Qty. 1)*
b) *Line End Dust filter (Qty. 8)*
c) Purge/Fresh Air Carbon Filter *(Qty. 1)*

Note: tubing not supplied

(a)



(c)

DHGM Components
(LP-DHGMKIT) – 16 Zones

Note: Individual Components not sold separately.
(080Z2154) – 4-20ma Output card required for all Danfoss frontend controllers

a) Line End Dust filter (Qty. 3)
b) STRAIGHT 1/4 X 1/4 BSP‟ (Qty. 2)
c) EQUAL CROSS 1/4 PUSH IN (Qty. 4)
d) Plastic Silencer 3/8 BSPP "WHITE‟ (Qty. 10)
e) Straight 1/4" x 3/8 BSP (Qty. 10)
f) Socket 3/8-3/8 (Qty. 2)
g) 3/8 BSP F/F Elbow (Qty. 8)
h) Straight 6mm x 1/4 BSP (Qty. 2)
i) 1/4 Mini filter (Qty. 2)
j) 1/4" EQUAL TEE CONNECTOR (Qty. 5)
k) Black 1" brackets (Qty. 25)
l) PU tubing 6mm for charcoal filter (Qty. 2 meters)
m) PU tubing 6mm – 300 meters rolls (Qty. 2)

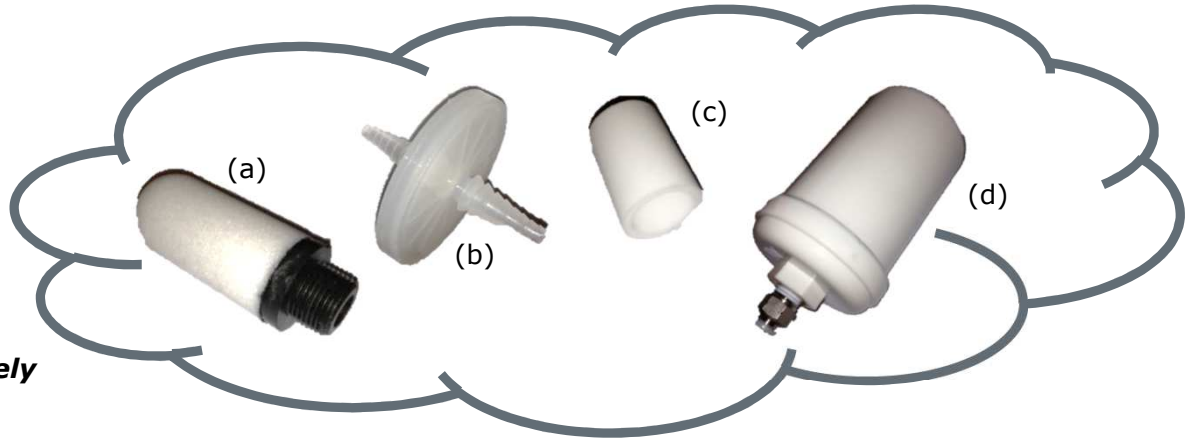
Maintenance Kit 8 Zone – (LP-DHGM8M)

To ensure peak performance and accuracy of the DHGM unit, the maintenance procedures outlined in this manual should be carried out every 6 months. Dustier plant rooms and sales environments may require more frequent maintenance to prevent filter blockage and flow faults.

Danfoss Australia stocks a six month maintenance kit, which includes the standard replacement components necessary for a full maintenance on an 16 zone system. The kit can be ordered directly from Danfoss.

Replace the following components:

a) End of Line Filters *(Qty. 23)*
b) Hyperbolic Filter *(Qty. 1)*
c) Water Trap: Internal Filter Element *(Qty. 2)*
d) Purge/Fresh Air Carbon Filter*(Qty. 1)*



Note: Individual Components not sold separately

Portable Gas Monitor

2 models:

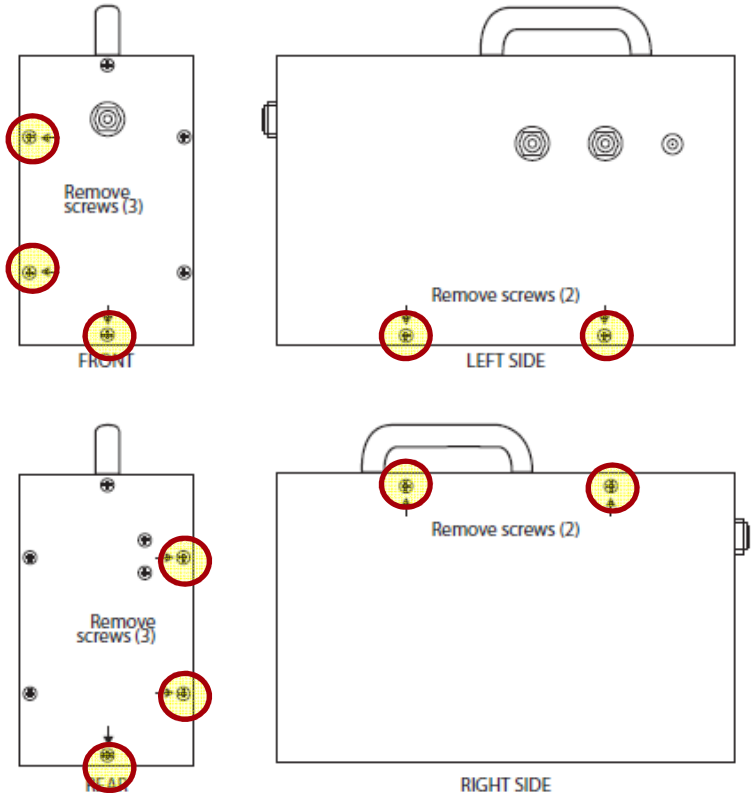
a) 080Z2148 – PAGM FOR CO2
b) 080Z2149 – PAGM FOR HALOGEN GAS

Maintenance Procedures

Disassembly

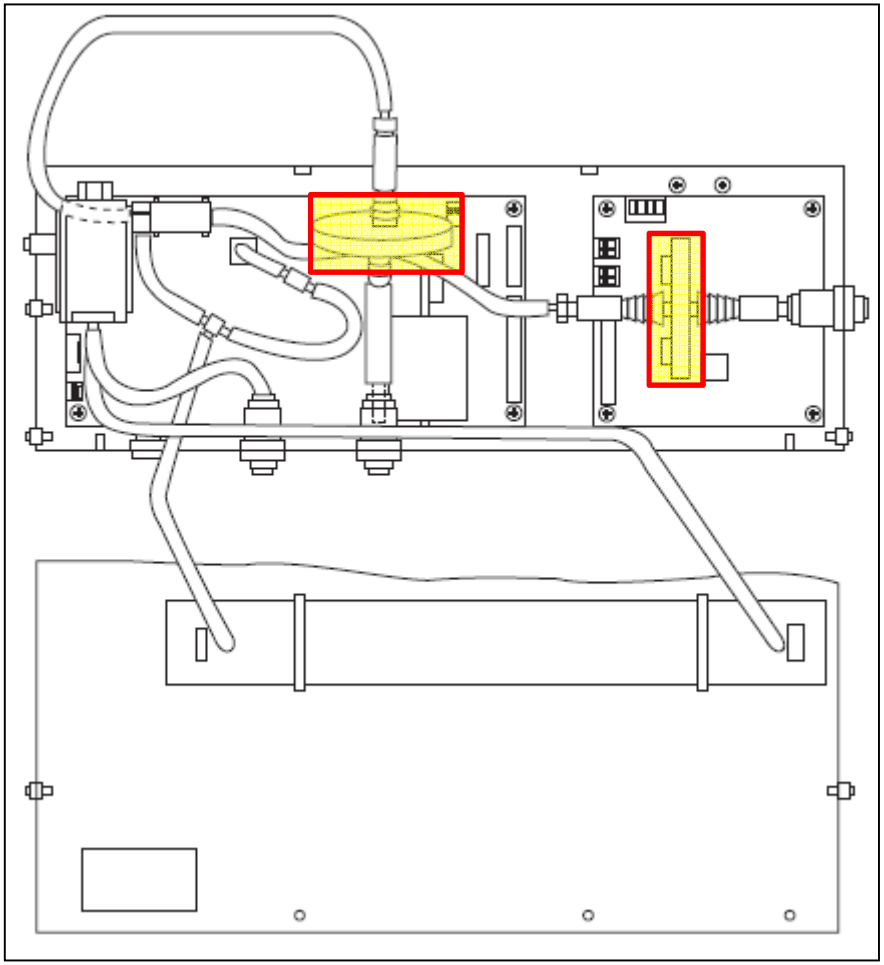
When servicing the parts inside the Refrigerant Monitor, disassemble the monitor's metal chassis as follows:

- **Items Required**:
  Medium Phillips head screwdriver.
- **Procedure**:
  Remove monitor and its battery pack from the soft carrying case.
  Unplug battery pack from monitor.
  Remove a total of ten screws from the locations shown in the illustrations below.
  Carefully separate the metal chassis.



Internal particulate/Hydrophobic filter

- **Items Required**:
  Replacement filter
  Medium Phillips head screwdriver
- **Procedure**:
  Disassemble the monitor's metal chassis
  Pull OFF tubing from both ends of filter and
  Remove filter from instrument
  Attach tubing to new filter
  Reassemble monitor



Maintenance Kit – (LP-DHGM-MM)

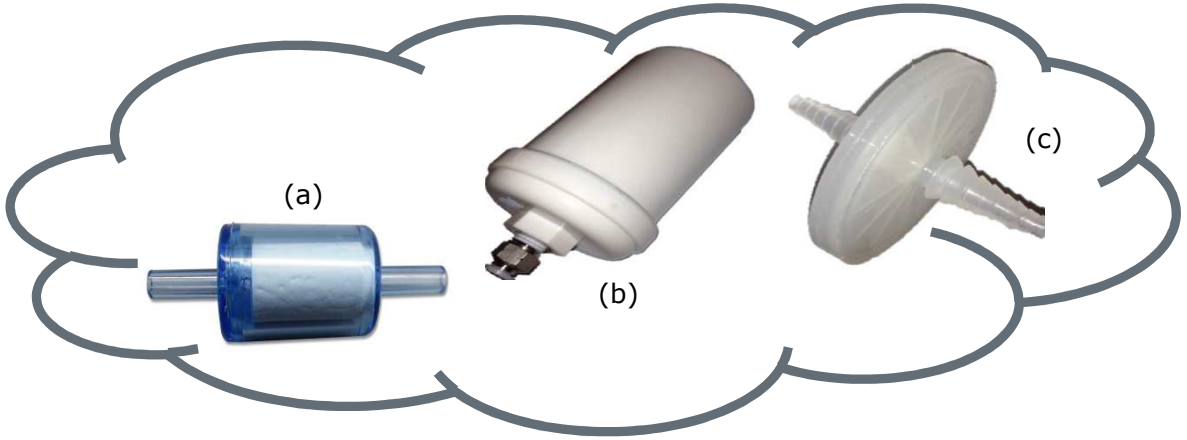
To ensure peak performance and accuracy of the PAGM unit, the maintenance procedures outlined in this manual should be carried out every 6 months.

Replace the following components:

a) Coalescing inline Filter Element *(Qty. 1)*

b) Purge/Fresh Air Carbon Filter *(Qty. 1)*

c) HYDROPHOBIC FILTERS *(Qty. 2)*



Note: Individual Components not sold separately

Fault Codes

Code	Fault Name	Description
<0001>	Box Temperature Fault	Enclosure temperature is outside normal range (or IR detector has failed). Check that the monitor is not being subjected to extreme temperatures. Use the DIAGNOS function to check the Box Temperature.
<0002>	Bench Temperature Fault	Optical bench is outside normal operating range (or IR detector has failed). Check that the monitor is not being subjected to extreme temperatures.
<0004>	Manifold Pressure Fault (Sensor 1)	The manifold pressure is outside its normal operating range (or IR detector has failed). Enter the DIAGNOS function and record ALL data. Call the factory with this information for further instructions.
<0020>	Manifold Pressure Fault (Sensor 2)	See fault code <0004>.
<0040>	Fill Flow Fault	The purge-air bag's pressure drop is outside expected limits. Check for a punctured bag or disconnected tubing.
<0080>	Over Range Fault	Monitor exposed to a gas level that exceeded 65,000 ppm.
<0100>	Zero Filter Fault	**Charcoal purge filter in front pouch is contaminated and needs to be replaced.**
<0200>	Gain Set Fault	The digipot autotune sequence has failed. This fault will only occur on first boot up or after a firmware upgrade. Call the factory for further instructions.
<0400>	A/D Fault	A fault has occurred in the analog-to-digital circuitry. Contact the factory with this information for further instructions.
<0800>	Sample Flow Fault	Check for: A restriction in the gas-sample inlet or exhaust; a blocked internal filter; or a failed pump.
<1000>	Purge Flow Fault	Check for: A restriction in the gas-sample exhaust; a blocked internal filter; or a failed pump. Once the purge air stream has been restored, the monitor will return to normal operation after it completes a purge cycle.
<2000>	Bag Fill Fault	The purge-air bag did not fill within the expected time allotment. Check for a punctured bag or disconnected tubing.
<4000>	Zero Range Fault:	The IR detector's output voltage is out of tolerance. Enter the DIAGNOS function and record all data. Call the factory with this information for further instructions.
<8000>	Clipping Fault	The detector voltage may be out of tolerance. Use the DIAGNOS function to check the IR detector voltage. Call the factory with this information for further instructions.

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