

DYNABREEZE

TRADE QUALITY SINCE 1995

20kW INDUSTRIAL
DIESEL HEATER



MODEL HE-53218

Maintenance Schedule & Log Book

Please keep this document for your records.

Thank you for purchasing a Dynabreeze Industrial Diesel Heater

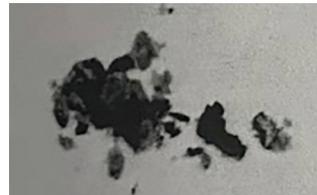
Here is some information to help you get the best performance and longevity of your heater.

Due to poor quality diesel available in some regions in Australia and the continuous winter diesel problems we experience each year, we strongly recommend regular maintenance and correctly storing your heater.

All diesel fuel contains wax, as it is considered an important component because of its high cetane value. Normally the wax is a liquid in the fuel, however, when diesel fuel gets cold enough the wax starts to solidify. If the temperature is sufficiently low, enough crystals will form and can block the fuel filter, fuel line and nozzle.

HOW TO IDENTIFY WAXING PROBLEMS

- If wax has formed in diesel fuel, it will block fuel lines and filters. It is visible as a white/yellow deposit or cloud in the fuel.
- The heater will be hard to start or will not start due to fuel starvation.



BLENDING DIESEL FUEL

If you are in low temperature regions such as Alpine/Highland/Inland or unseasonably cold weather, a diesel blend with kerosene may provide some relief to lower the cloud point.

Model	Tank Size (L)	Diesel (L)	Kerosene (L)
HE-53218	19	18	1

RECOMMENDED MAINTENANCE SCHEDULE

WARNING: Please ensure the heater is turned off & unplugged from the power source before doing any service work.

PART	CHECK	LOOK FOR	REPLACE
Fuel Line	Once a month	Blockages or cracks	Minimum once a year
Fuel Nozzle	Once a month	Blockages, clean or replace	Minimum once a year
Fuel Funnel	Twice a month	Blockages, clean or replace	Minimum once a year
Fuel Filter-Tank	Twice a month	Blockages, clean or replace	Minimum once a year
Fuel Tank	Once a year	Dirt. Drain fuel tank & flush using clean fuel	N/A
Air Lines	Once every 3 months	Cracks. Replace	Minimum once a year
Air Pump (Core Body)	Once every 3 months	Dust/Dirt. Broken core body or blades. If dirty - clean, if broken - replace	As required
Air Pump Filters	Once a month	Dust/Dirt. Blockages. Clean with water	As required
Air Pump Pressure	Once a month	Red exit with NO flame exiting the heater	N/A
Photocell	Once a month	Dust/Dirt. Clean with dry cloth/tissue	As required

- High frequent use, colder regions or dusty/dirty environments will need to be checked on a more regular basis.
- When cleaning fuel lines, fuel filters, fuel nozzles it is recommend to rinse or soak in diesel or kerosene. If using water, please ensure the parts are completely dry before re-installing.
- After use, do not leave your heater out in the cold. Store away inside and cover it with tarp or blanket (after it has cooled down). This will assist in melting the fuel in the fuel lines and prevent any blockages.
- After winter or for long periods of non use, do not leave any diesel fuel in the tank. Use it all up or drain the tank. Cover it with tarp or blanket and store it away correctly.

It is recommended a qualified service centre or persons complete any maintenance & servicing works. However the above recommended maintenance schedule can be completed by the end user.

Any electrical works must be completed by a qualified person only. No electrical components or parts are to be serviced or removed by the end user. If the plug or leads are damaged do not replace, contact Dynabreeze or have a qualified persons complete the works.

If claiming under warranty please contact Dynabreeze or where you purchased the heater from first. The logbook must be completed and supplied when claiming under warranty.

PARTS

Fuel nozzle



Fuel filter - tank



Fuel funnel



Air pump (core body)



Fuel & Air lines



Fuel & Air lines



Air pump pressure



CONDUCTING MAINTENANCE

FUEL LINE & AIR LINE

1. Remove the top cover as per image 1 - undo the 4 screws to open it.



IMAGE 1

2. Remove the side panel as per image 1.2 - undo the screws to open it.



IMAGE 1.2

3. Remove the clips securing the fuel line to the adaptor plate & fuel filter as per image 1.3.

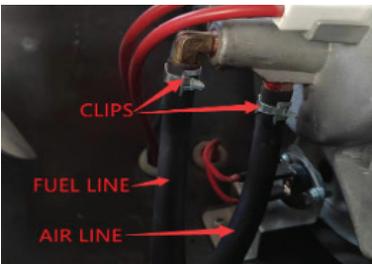


IMAGE 1.3

4. Take out the air and fuel line. Carefully check the line surface. Replace if there are any cracks or damages.

Contact Tradeware for spare parts.

5. Once the above steps are completed, reassemble as follows:
 - Put the air and fuel lines back in their original positions;
 - Lock the clips of air and fuel lines;
 - Assemble the side cover; and
 - Install the top cover ensuring all screws are back in place.

PHOTOCELL

1. Remove the top cover as per image 1.1 - undo the 4 screws to open it.
2. Pull the magic eye out of its black cover, which is located besides the spark plug, see image 2.



IMAGE 2

CONDUCTING MAINTENANCE CONT.

- Using either tissue paper, a soft cloth or cotton bud, clean the sensor inside gently, per image 2.1



IMAGE 2.1

- Once the above steps are completed, reassemble as follows:
 - Put the magic eye back into the black cover;
 - Enter the photocell into bracket; and
 - Install the top cover ensuring all screws are back in place.

- Remove the burner head and undo the 5 screws, as per images 3.1 and 3.2.



IMAGE 3.1

IMAGE 3.2

- Take out the nozzle using a 17mm spanner per image 3.3.
 - Pull apart the nozzle into 6 parts as seen in image 3.4.



IMAGE 3.3

IMAGE 3.4

FUEL NOZZLE

- Remove the top cover as per image 1.1 - undo the 4 screws to open it.
- Remove ignition needle per image 3 - undo the screw.

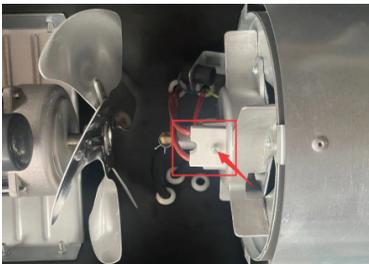


IMAGE 3

- Rinse nozzle or soak in diesel or kerosene.
- Replace with a new nozzle if it still doesn't work.

Contact Tradeware for spare parts.

- Reassemble following steps 1-4 in reverse:
 - Install the nozzle into the burner head;
 - Fix the burner head on the back plate;
 - Fix the ignition needle on the burner head; and
 - Install the top cover.

CONDUCTING MAINTENANCE CONT.

AIR PUMP (CORE BODY)

1. Remove the top cover as per image 1 - undo the 4 screws to open it.
2. Take out the back grill per image 4.



IMAGE 4

3. Screw down the pressure gauge in a counter-clockwise direction, see image 4.1



IMAGE 4.1

4. Remove the plastic pump cover as per image 4.2 - under the 4 screws.



IMAGE 4.2

5. Remove AI pump cover as per image 4.3 - undo the 6 screws.

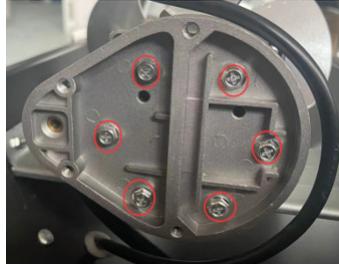


IMAGE 4.3

6. Take out the pump core and blade, see image 4.4:
 - Clean the dirt and/or dust.
 - Replace with a new pump core or blade.



IMAGE 4.4

Contact Tradeware for spare parts.

7. Reassemble following steps 1-6 in reverse:
 - Fix the pump core and blades;
 - Fix AI pump cover with screws;
 - Install the plastic pump cover with screws;
 - Screw the pressure gauge clockwise;
 - Fix the back grill; and
 - Install the top cover.

CONDUCTING MAINTENANCE CONT.

AIR PUMP (CORE BODY)

1. Remove the top cover as per image 1 - undo the 4 screws to open it.
2. Take out the back grill per image 5.



IMAGE 5

3. Screw down the pressure gauge in a counter-clockwise direction, see image 5.1



IMAGE 5.1

4. Remove the plastic pump cover as per image 5.2 - under the 4 screws.



IMAGE 5.2

5. Take out the air pump filters and clean the dust/dirt, see image 5.3.



IMAGE 5.3

6. Reassemble following steps 1-4 in reverse:
 - Put in the clean air pump filters;
 - Install the plastic pump cover with the screws;
 - Screw the pressure gauge clockwise;
 - Fix the back grill; and
 - Install the top cover.

LOG BOOK

Model:..... Serial Number:.....

Check/Replace:

Date:.....

PART	CHECKED	Y/N	REPLACED	Y/N
Fuel line				
Fuel nozzle				
Fuel funnel				
Fuel filter-tank				
Fuel tank				
Air lines				
Air pump (core body)				
Air pump filters				
Air pump pressure				
Photocell				

Please circle: Service Agent / Myself

Service Agent Details:

Comments:

Service Agent Signature:

LOG BOOK

Model:..... Serial Number:.....

Check/Replace:

Date:.....

PART	CHECKED	Y/N	REPLACED	Y/N
Fuel line				
Fuel nozzle				
Fuel funnel				
Fuel filter-tank				
Fuel tank				
Air lines				
Air pump (core body)				
Air pump filters				
Air pump pressure				
Photocell				

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Fuel nozzle				
Fuel funnel				
Fuel filter-tank				
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Air lines				
Air pump (core body)				
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Air pump pressure				
Photocell				

Please circle: Service Agent / Myself

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Comments:

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Please
Recycle