



DMC BLOWER

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

FOR DMC TANKS:- 6, 7, 8, 9

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Revision History:

Date	Change description	Dep	Checked	Revision
23/03/2022	DMC BLOWER CHANGE	ENG	TC	B

INTRODUCTION

This manual provides information relating to the blower changes now supplied with the following tank sizes.

DMC 6 / DMC 7 / DMC8 / DMC 9

It is important to still refer to the manual supplied with the plant for information relating to the Installation, Operating and Maintenance of the tank.

The following topics this manual will cover are: -

- 1) Blower specification and the reason for the change in Blower
- 2) Installation of the Blower
- 3) Operation of the Blower
- 4) Maintenance of the Blower

1. BLOWER SPECIFICATION

The DMC blower has been changed for several reasons. One of the main reasons, is due to the improved operating power consumption. With the new Rotary Lobe style operation, means the air blower can provide the treatment plant with the same amount of air required with half the energy used than the previous blower and kiosk arrangement. This new efficient blower also benefits from having its own acoustic weatherproof enclosure, making the need for a GRP Kiosk and its ancillaries, obsolete.

What you will also benefit from is a reduced yearly maintenance cost, of more than £200 than the previous air blower.

The table below shows the new DMC Blower specifications based on your treatment tank size.

Model	Population range (persons)	Blower Model Number	Phase	Blower motor size (kW)	Min Operating power consumption (kW)	<i>Previous SD blower min operating power consumption (kW)</i>	Amps	Noise (dB)	Blower Weight (kg)
DMC6	21-27	3D19T-050E-0.37	1 Phase	0.37	0.27	<i>0.78</i>	2.53	61	122
DMC7	28-35	3D19T-050E-0.55	1 Phase	0.55	0.37	<i>1.26</i>	3.41	66	114
DMC8	36-45	3D19T-050E-0.55	1 Phase	0.55	0.37	<i>1.26</i>	3.41	66	114
DMC9	46-55	3D19T-050E-0.55	1 Phase	0.55	0.37	<i>1.26</i>	3.41	66	114
Actual power consumption may vary.									

2. INSTALLATION OF THE BLOWER

The DMC air blower has a slightly smaller footprint than the previous GRP Kiosk. Access around the blower of 600mm will be required for access and maintenance.

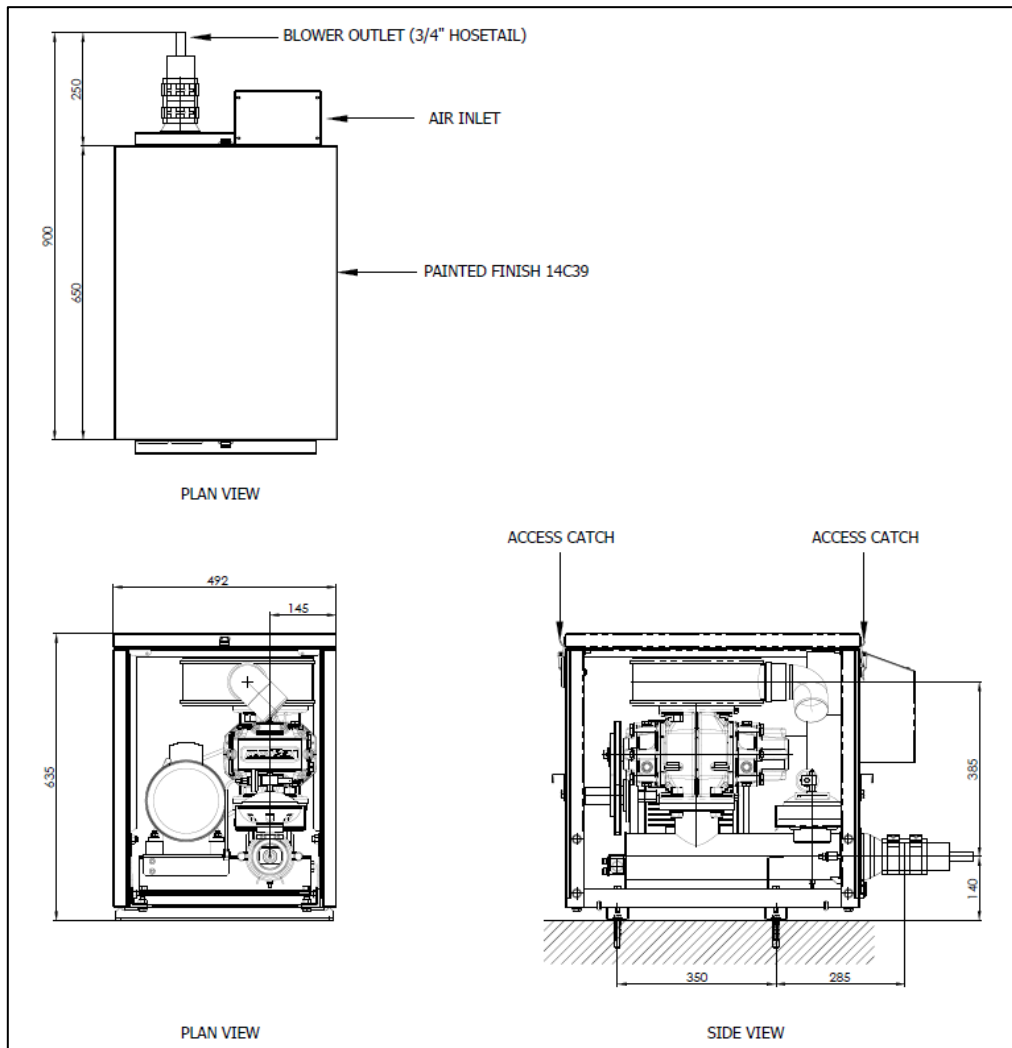
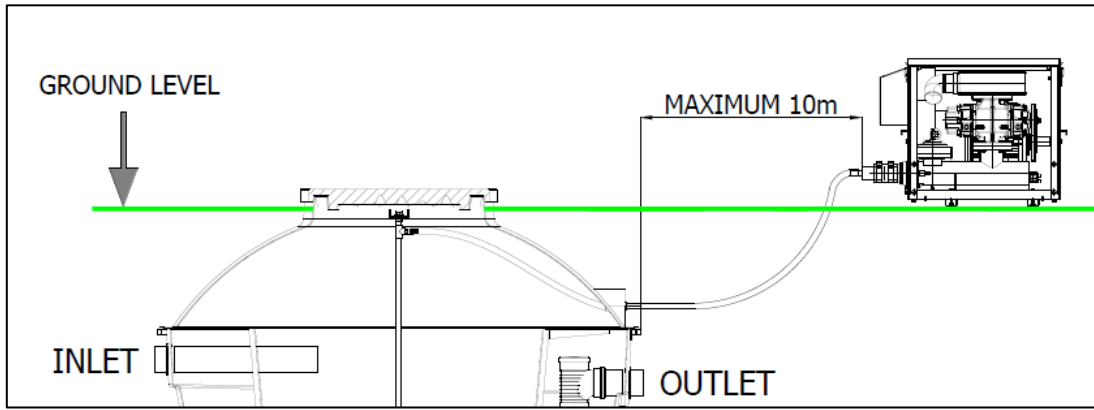


Image above showing the General Arrangement of the DMC Blower

The blower size for all models of DMC's are the same and measures: -

(L) 900mm x (W) 492mm x (H) 635mm

- Ideally located 5-10m from the tank
- Choose a shaded northerly aspect with easy access for maintenance. Avoid direct sunlight, vegetation/plant overgrowth, dust and flood water
- Consideration must be given as to the siting of the kiosk to reduce any potential disruption caused.



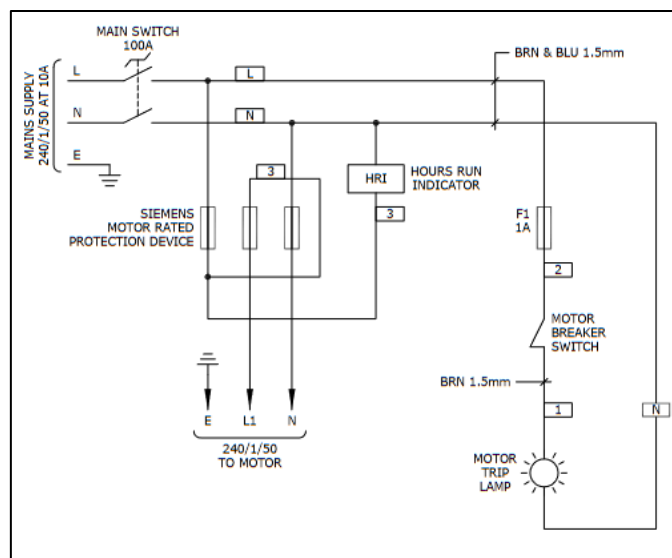
The DMC blower is for above ground installation only and should be mounted on a concrete plinth or hard standing.

Note:- Please refer to the blower manufacturers user manual throughout the installation and setup.

“EN_KUBICEK-User manual for blower unit “

- Blower:- Ensure the blower position is not at risk of flooding
- Blower:- Lay a concrete base slab at least 100mm thick, or hard standing to match the blower size
- Blower:- Once the concrete is fully cured, secure the blower to the slab using x4, M10x70mm anchor bolts.
- Consumer Unit:- Decide on where to position the consumer unit provided, inside the property close to the power supply. It should be positioned so that the red warning light can be seen in case of the blower tripping. The size of the consumer unit is (W)230mm x (H)250mm x (D)150mm.
- Install 1x 230V - 50Hz, 3 core, armoured cable from the consumer unit to the blower unit, within suitable waterproof ducting.

Below is a schematic of the consumer unit.



The electric power supply may be designed and connected only by a person with relevant professional qualification and relevant authorization to do this activity.

3. OPERATION OF THE BLOWER

Once the blower has been installed and commissioned with the plant also installed as per the Diamond installation and operation manual, the blower is ready to be switched on and should operate continuously, 24 hours a day, 7 days a week.

In case of an emergency, there is an on/off switch installed on the blower, so that it can be safely turned off if required.

4. MAINTENANCE OF THE BLOWER

Important:

During any maintenance work, it is recommended that the blower is first isolated at the consumer unit.

Please refer to the blower manufacturers user manual supplied with the blower.

“EN_KUBICEK-User manual for blower unit “

The first oil change is required after 500 hours of use. This can be checked by the hours run indicator on the consumer unit. Oil to be used: SAE 5W/40 as standard.

Weekly Checks:

- Air blower is operational
- Blower should be running, which can be heard externally, and the air failure light mounted on the consumer unit should NOT be on
- If the air failure light is on, this indicates that the air blower is not delivering air to the plant and should be investigated.

Quarterly checks: - Visual inspection of:

- Air blower inlet filter is clear of any leaves
- There is no leaves or debris within the blower enclosure.

Yearly Maintenance:

- The blower requires 6L of fully synthetic oil SAE 5W/40 as standard, every year.
- Record all service work within the blower manufacturer’s service book provided.

For any other operation and maintenance tasks regarding the treatment plant, please refer to the Diamond installation, operation and maintenance manual.

The warranty period for the blower is 2 years from the date it is purchased.

Contact WPL on: 02392 242 600 for any spares and servicing enquiries.

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