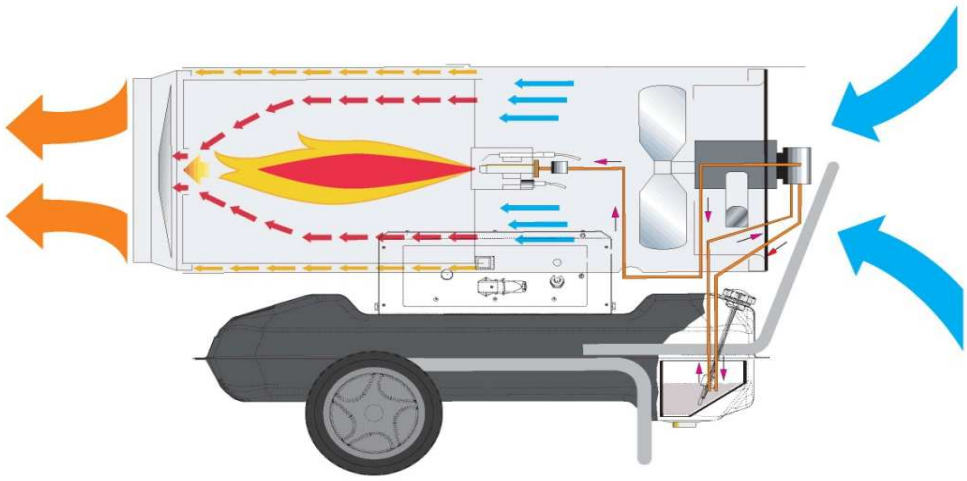
MASTER®
CLIMATE SOLUTIONS

DSH00006

# DIRECT OIL HEATER

# B360

# HEATER FUNCTIONING DIAGRAM



The oil heater with high pressure direct combustion nebulizes the combustible inside a chamber, that burns in connection to a igniter. The products of combustion are mixed with the ambient air flow, generated by rotation of the fan and pushed towards the external part of the generator. It is designed with the most modern standards of functionality and durability. Safety devices always assure a proper functioning of the heater, the noise is reduced to a minimal level and the accurate choice of materials guarantees a high efficiency

# SPECIFICATION

| | | | | | |
|---|---|---|---|---|---|
| Max Capacity | kW<br>Kcal/h<br>Btu/h | **111**<br>**95460**<br>**379000** | Oil consumption | kg/h | **8,83** |
| | | | Tank capacity | l | **105** |
| Combustible | Oil / Kerosene | | Autonomy | h | **10** |
| Net weight | Kg | **86** | Tension | V | **220-240** |
| Gross weight | Kg | **110** | Frequency | Hz | **50** |
| Pump pressure | bar | **13** | Rated current | A | **4,6** |
| Ø Fan | mm | **500** | Noise level | dBa | **77** |
| Airflow | $m^3/h$ | **3300** | | | |

# PACKING

| | | |
|---|---|---|
| Packaging dimensions | mm | **1600 x 750 x 1180** |
| Effective dimensions | mm | **1670 x 700 x 940** |
| Pieces for pallet | n° | **1** |
| Pieces full truck | n° | **50** |

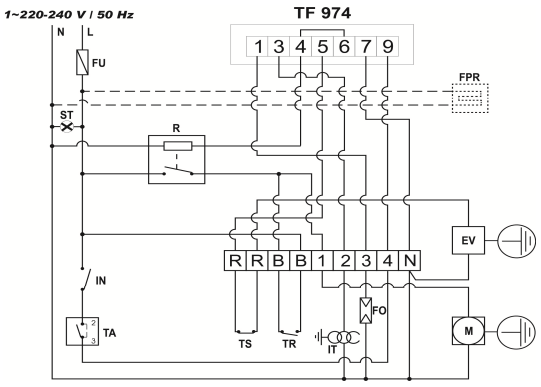
# COMPONENTS

| | |
|---|---|
| Pump | **Danfoss BFP - rotary with element filter** |
| Nozzle | **Danfoss 2,00 GPH 80º H** |
| Flame control | **Electronic board with separately transformer** |
| Igniter | **Bifilar electrodes** |
| Oil filter | **In line da 60 µm** |
| Overheat thermostat | **Series / N.C. until at 90ºC** |
| Post-ventilation thermostat | **Series** |
| Motor | **Asynchronous, monophase, with thermal protection, Clockwise rotation, 1650 g/1'** |
| Tank | **Steel sheet** |
| Ambient thermostat | **Predisposition for connecting an ambient thermostat** |

# ACCESSORIES

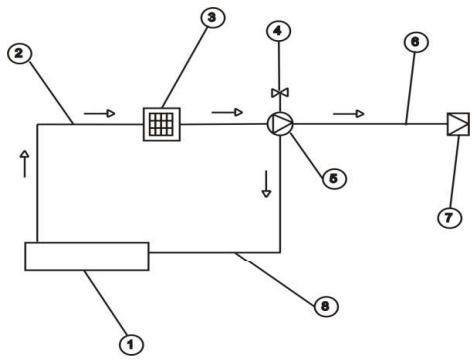
| | |
|---|---|
| Ambient thermostat | **Thermostat TH5** |
| Filter pre-heating | **Predisposition for connecting a filter-preheating** |

# WIRING DIAGRAM




| | | | | | |
|---|---|---|---|---|---|
| L | : | **Line** | FPR | : | **Filter pre-heatinh** |
| N | : | **Neutral** | | | |
| FU | : | **Fuse** | TR | : | **Cooling thermostat** |
| ST | : | **Power indicator** | | | |
| R | : | **Relay** | TS | : | **Overhaet thermostat** |
| M | : | **Motor** | | | |
| FO | : | **Photocell** | TF974 | : | **Flame control** |
| IT | : | **Trasformer** | TA | : | **Ambient thermostat** |
| IG | : | **Elettrodes** | | | |
| IN | : | **Switch** | EV | : | **Electrovalve** |

# OIL DIAGRAM




| | | | | | |
|---|---|---|---|---|---|
| 1 | : | **Tank** | 5 | : | **Pump** |
| 2 | : | **Oil pipe intake** | 6 | : | **Oil pipe supply** |
| 3 | : | **Oil filter** | 7 | : | **Nozzle** |
| 4 | : | **Electrovalve** | 8 | : | **Oil return pipe** |