

VAPORflow

VAPORFLOW DATASHEET



Vaporflow 275 / Vaporflow 480

With a Vaporflow machine you can solder prototypes and small batches of PCBs consistently. The used vapour phase process offers much better and more consistent results than comparable infrared or convection ovens.

The Vaporflow uses a PFPE vapour to transfer heat to the PCB. Solvay Galdden LS230 is the most commonly used PFPE fluid for lead-free soldering.

- 3.5" touchscreen 480 x 320, resistive
- Runs an optimized heating and cooling profile ^[1]
- Additional profiles can be created and customized by the user
- Uses high power 120mm fans to cool the oven quickly
- The temperature in the container can be logged to an SD-Card
- The Vaporflow 480 contains an auxiliary thermocouple input within the oven, which can be used to measure and log the temperature on the PCB

Specifications

Characteristic	Vaporflow 275	Vaporflow 480
Width [mm]	295	TBD
Height [mm]	295	TBD
Depth [mm]	415	TBD
Weight [kg]	9.6	TBD
Maximum PCB length [mm] ^[2]	235	TBD
Maximum PCB width [mm] ^[2]	170	TBD
Required amount of fluid [g]	290	TBD
Cycle PFPE fluid consumption [g] ^[5]	2	TBD
Cycle duration [min.] ^[3]	14	TBD
Auxiliary thermocouple input	No	Yes
Number of high power cooling fans	4	TBD
Soldering temperature range [°C] ^[4]	180 - 240	TBD
Ambient temperature range [°C]	10 - 35	TBD

Table 1. Specifications.

Solder Area

The image below shows the container size of the Vaporflow 275. S indicates the location of the temperature sensor. A margin of 30mm is recommended around the temperature sensor. A margin of 20mm is recommended between the side of the PCB and the wall of the container. The PCB support rack doesn't cover the whole area.

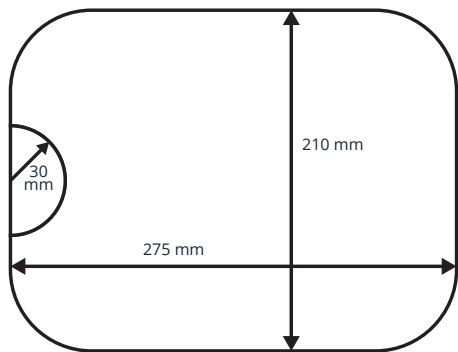


Figure 1. Solder area Vaporflow 275.

Models

Product number	Input voltage [V AC]	Heating power [W]	Fuse rating	Packaging size [cm]	Packaged weight [kg]
VPF-275-EU	230	750	10A	47 x 59 x 50	12.3
VPF-275-US	110	750	10A	47 x 59 x 50	12.3
VPF-480-EU	230	TBD	TBD	TBD	TBD
VPF-480-US	110	TBD	TBD	TBD	TBD

Table 2. Vaporflow models.

Tariff code: 85143910; Country of origin (COO): The Netherlands

Footnotes

- [1] The installed profile for Galden LS230 on the Vaporflow has been thoroughly tested with Galden LS230 and Chipquik TS391SNL soldering paste.
- [2] The maximum allowed size of the PCB is not max width times max length.
- [3] Cycle duration has been determined with Galden LS230 and an ambient temperature of 20°C.
- [4] Vaporflow models with an extended range are available, please ask for the possibilities.
- [5] The fluid consumption of one cycle has been determined by measuring the average consumption over 5 cycles. Galden LS230 was used and the cycles ended by cooling the Vaporflow back to 30°C.



VAPORflow
www.vaporflow.eu