

# SPACE-SAVING FAN HEATER

HV 031 / HVL 031 | 100 W to 400 W



- > Compact
- > Flat design
- > High air through-flow

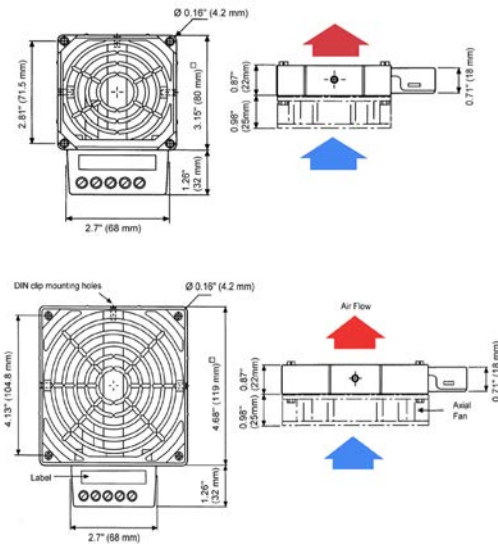
- > Built-in overheat protection
- > 3-side DIN rail mountable

The compact HV 031/HVL 031 high-performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures. This fan heater may only be operated with a fan (HVL 031), but is provided without fan for large OEM use (HV 031), in which case the OEM/cusomter must provide a fan which meets the minimum airflow requirements.



## TECHNICAL DATA

<b>HV 031</b>	Heater without fan for self-assembly (fan mounting kit included)
<b>HVL 031</b>	Heater with fan
<b>Heating element</b>	high performance cartridge
<b>Overheat protection</b>	built-in temperature limiter
<b>Heater body</b>	die-cast aluminium, glass bead finish
<b>Connection</b>	3-pole terminal AWG 14 (2.5 mm <sup>2</sup> ), torque 0.8 Nm max.
<b>Connection casing</b>	plastic, UL 94V-0, black
<b>Mounting</b>	clip for 35 mm DIN rail, EN 60715
<b>Fitting position</b>	vertical airflow (air outlet up)
<b>Operating / Storage temperature</b>	-49 to +158 °F (-45 to +70 °C)
<b>Operating / Storage humidity</b>	max. 90 % RH (non-condensing)
<b>Protection class / Protection type</b>	I (grounded) / IP20
<b>Approvals</b>	UL File No. E234324, EAC VDE only: 230 V
<b>HVL 031 only:</b>	
<b>Axial fan, ball bearing</b>	airflow see table service life 50,000 h at +77 °F (+25 °C)
<b>Axial fan connection</b>	2-pole terminal AWG 14 max. (2.5 mm <sup>2</sup> ), terminals L2/N2



- Clip
- Type plate
- Axial fan
- Air direction



**Important note:** Heater must be operated together with a fan.  
Operating without a fan creates the danger of overheating!

Part No. HV 031 AC 120 V, 50/60 Hz	Part No. HV 031 AC 230 V, 50/60 Hz	Heating capacity	Recommended pre-fuse T (time-delay)		Dimensions	Weight approx.
			AC 120 V	AC 230 V		
03100.9-00	03100.0-00	100 W	2.0 A	2.0 A	.87 x 3.15 x 4.41" (22 x 80 x 112 mm)	.9 lbs. (400 g)
03101.9-00	03101.0-00	150 W	2.5 A	2.5 A	.87 x 3.15 x 4.41" (22 x 80 x 112 mm)	.9 lbs. (400 g)
03110.9-00	03110.0-00	200 W	3.0 A	3.0 A	.87 x 4.68 x 5.94" (22 x 119 x 151 mm)	1.1 lbs. (500 g)
03111.9-00	03111.0-00	300 W	4.0 A	4.0 A	.87 x 4.68 x 5.94" (22 x 119 x 151 mm)	1.1 lbs. (500 g)
03112.9-00	03112.0-00	400 W	6.3 A	6.3 A	.87 x 4.68 x 5.94" (22 x 119 x 151 mm)	1.1 lbs. (500 g)

Part No. HVL 031 AC 120 V, 50/60 Hz	Part No. HVL 031 AC 230 V, 50/60 Hz	Heating capacity	Recommended pre-fuse T (time-delay)		Min. airflow (free blowing)	Dimensions	Weight approx.
			AC 120 V	AC 230 V			
03102.9-00	03102.0-00	100 W	2.0 A	1.0 A	20 cfm (35 m <sup>3</sup> /h)	1.85 x 3.15 x 4.41" (47 x 80 x 112 mm)	1.3 lbs. (600 g)
03103.9-00	03103.0-00	150 W	2.5 A	1.25 A	20 cfm (35 m <sup>3</sup> /h)	1.85 x 3.15 x 4.41" (47 x 80 x 112 mm)	1.3 lbs. (600 g)
03113.9-00	03113.0-00	200 W	3.0 A	2.0 A	63 cfm (108 m <sup>3</sup> /h)	1.85 x 4.68 x 5.94" (47 x 119 x 151 mm)	2.0 lbs. (900 g)
03114.9-00	03114.0-00	300 W	4.0 A	2.0 A	63 cfm (108 m <sup>3</sup> /h)	1.85 x 4.68 x 5.94" (47 x 119 x 151 mm)	2.0 lbs. (900 g)
03115.9-00	03115.0-00	400 W	6.3 A	4.0 A	63 cfm (108 m <sup>3</sup> /h)	1.85 x 4.68 x 5.94" (47 x 119 x 151 mm)	2.0 lbs. (900 g)