

## Ait heater type M50 / M50L 2,2 to 6,1 KW



**Function:** Air heater with external air supply by means of fan or compressed air.  
CAUTION !!! Device is not pressure-resistant !!!

**Configuration:** Default: Temperature control with potentiometer (1 – 8)  
 - alternatively with external potentiometer (cable length 5 meter) or  
 - external control by control unit or SPS (cable length 5 meter)  
 Device is equipped with a reliable heating element protection. The integrated device protection turns off the device when tripped and resets automatically after cooling down. A reset is not required.

**Features:** Special designs with internal thermocouple (cable length 1 or 5 meter)  
 - for devices with electronic equipment max. supply air temperature 50°C  
 - the unit is available without electronics (without heating element and device protection)  
 - for devices without electronic equipment max. supply air temperature 80°C

**Power:** 2,2 KW – 6,1 KW  
**Voltages:** 230 VAC; 400-440 VAC (2Ph)

### Technical data:

| Item number                |                | 5101795                  | 5101801 (5101803*) | 5101796 (5101802*) | 5101806 (5101809*) | 5101810 (5101832*) | 5112686 (5101839*) | 5112688 (5112689*) |  |
|----------------------------|----------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| <b>Voltage</b>             | VAC            | 120                      | 230                |                    | 400 (2Ph)          | 440 (2Ph)          | 400 – 440 (2 Ph)   |                    |  |
| <b>Frequency</b>           | Hz             | 50 / 60                  |                    |                    |                    |                    |                    |                    |  |
| <b>Power</b>               | KW             | 2,2                      | 3,7                | 4,5                | 4,1                | 4,6 – 5,57         | 6,1 – 7,4          |                    |  |
| <b>Current</b>             | A              | 18,3                     | 9,6                | 16,2               | 11,2               | 9,2                | 11,5 – 12,7        | 15,3 – 16,8        |  |
| <b>Max. temperature</b>    | °C             | 650                      |                    |                    |                    |                    |                    |                    |  |
| <b>Min. air volume</b>     | l/min          | 150 (187*)               | 160 (202*)         | 290 (367*)         | 370 (469*)         | 350 (440*)         | 370 (465*)         | 540 (684*)         |  |
| <b>Weight</b>              | kg             | 0,8                      |                    |                    |                    |                    |                    | 0,9                |  |
| <b>Air intake</b>          | Ø mm           | 38                       |                    |                    |                    |                    |                    |                    |  |
| <b>Air outlet</b>          | Ø mm           | 30                       |                    |                    |                    |                    |                    |                    |  |
| <b>Heater tube</b>         | Ø mm           | 50 / 65                  |                    |                    |                    |                    |                    |                    |  |
| <b>Dimensions</b>          | mm (L x W x H) | 239 x 85 x 90            |                    |                    |                    |                    | 278 x 85 x 90      |                    |  |
| <b>Conformity mark</b>     |                | CE                       |                    |                    |                    |                    |                    |                    |  |
| <b>Protection class II</b> |                | <input type="checkbox"/> |                    |                    |                    |                    |                    |                    |  |

\* without electronic

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| Product description:  | Connection scheme: |  |   |
|---|--------------------|--|---|
|   |                    | <p><b>Default with potentiometer</b></p> <p>N, L1 or L1, L2 =<br/>Main connection<br/>according to data plate</p>                    | <p><b>External control</b></p> <p>N, L1 or L1, L2 =<br/>Main connection<br/>according to data plate</p> <p>Digital signal<br/>(PWM max. 0,5Hz)<br/>10-24VDC<br/>+ = brown<br/>- = white</p> |
| <ol style="list-style-type: none"> <li>1. Cable fitting mains supply</li> <li>2. Potentiometer 0-8 (control cable für ext. control); (no Potentiometer for devices without electronic)</li> <li>3. Mounting on bottom of housing M 4 (screw depth 7 mm)</li> <li>4. Heating element pipe Ø50mm</li> <li>5. Cover</li> <li>6. Data plate</li> <li>7. Air intake Ø38mm</li> </ol> |                    | <p><b>Version without electronics</b></p> <p>N, L1 or L1, L2<br/>or L1, L2, L3 =<br/>Main connection<br/>according to data plate</p> |   |

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#### Available versions:







| Item No.       | Description  |
|----------------|--|
| <b>5101795</b> | <b>Air heater M50 120 VAC 2,2 KW potentiometer</b>   |
| <b>5101801</b> | <b>Air heater M50 230 VAC 2,2 KW potentiometer</b>   |
| 5101804        | Air heater M50 230 VAC 2,2 KW for external control with 5 meter control cable  |
| 5101805        | Air heater M50 230 VAC 2,2 KW for external control with 5 meter control cable and internal thermocouple              |
| <b>5101803</b> | <b>Air heater M50 230 VAC 2,2 KW without electronic</b>  |
| 5101797        | Air heater M50 230 VAC 2,2 KW without electronic, with internal thermocouple   |
| <b>5101796</b> | <b>Air heater M50 230 VAC 3,7 KW potentiometer</b>   |
| 5108931        | Air heater M50 230 VAC 3,7 KW for external control with 5 meter control cable  |
| 5108932        | Air heater M50 230 VAC 3,7 KW for external control over potentiometer with 5 meter control cable                     |
| 5108799        | Air heater M50 230 VAC 3,7 KW for external control with 5 meter control cable and internal thermocouple              |
| <b>5101802</b> | <b>Air heater M50 230 VAC 3,7 KW without electronic</b>  |
| 5101800        | Air heater M50 230 VAC 3,7 KW without electronic, with internal thermocouple   |
| <b>5101806</b> | <b>Air heater M50 400 VAC 2Ph 4,5 KW Potentiometer</b>   |
| 5113724        | Air heater M50 400 VAC 2Ph 4,5 KW for external control with 5 meter control cable                                    |
| 5113808        | Air heater M50 400 VAC 2Ph 4,5 KW for external control with 5 meter control cable and internal thermocouple          |
| <b>5101809</b> | <b>Air heater M50 400 VAC 2Ph 4,5 KW without electronic</b>  |
| 5101814        | Air heater M50 400 VAC 2Ph 4,5 KW without electronic, with internal thermocouple                                     |
| 5101810        | Air heater M50 440 VAC 2Ph 4,1 KW potentiometer  |
| 5101815        | Air heater M50 440 VAC 2Ph 4,1 KW for external control with 5 meter control cable                                    |
| 5101831        | Air heater M50 440 VAC 2Ph 4,1 KW for external control with 5 meter control cable and internal thermocouple          |
| 5101832        | Air heater M50 440 VAC 2Ph 4,1 KW ohne Elektronik  |
| 5101833        | Air heater M50 440 VAC 2Ph 4,1 KW without electronic, with internal thermocouple                                     |
| 5101812        | Air heater M50 480 VAC 2PH 4,4 KW Potentiometer  |
| 5101834        | Air heater M50 480 VAC 2PH 4,4 KW for external control with 5 meter control cable                                    |
| 5101835        | Air heater M50 480 VAC 2PH 4,4 KW for external control with 5 meter control cable and internal thermocouple          |
| 5101813        | Air heater M50 480 VAC 2Ph 4,4 KW ohne Elektronik  |
| 5101836        | Air heater M50 480 VAC 2Ph 4,4 KW without electronic, with internal thermocouple                                     |
| <b>5112686</b> | <b>Air heater M50L 400-440 VAC 2Ph 4,6-5,6 KW potentiometer</b>  |
| 5101837        | Air heater M50L 400-440 VAC 2Ph 4,6-5,6 KW for external control with 5 meter control cable                           |
| 5101838        | Air heater M50L 400-440 VAC 2Ph 4,6-5,6 KW for external control with 5 meter control cable and internal thermocouple |
| <b>5101839</b> | <b>Air heater M50L 400-440-480 VAC 2Ph 4,6-5,6 KW without electronic</b>   |
| 5101842        | Air heater M50L 400-440-480 VAC 2Ph 4,6-5,6 KW without electronic, with internal thermocouple                        |

### Air heater type M50 / M50L 2,2 to 6,1 KW

#### Available versions:

| Item No.       | Description  |
|----------------|--|
| <b>5112688</b> | <b>Air heater M50L 400-440 VAC 2Ph 6,1-7,4 KW potentiometer</b>  |
| 5101843        | Air heater M50L 400-440 VAC 2Ph 6,1-7,4 KW for external control with 5 meter control cable                           |
| 5101844        | Air heater M50L 400-440 VAC 2Ph 6,1-7,4 KW for external control with 5 meter control cable and internal thermocouple |
| <b>5112689</b> | <b>Air heater M50L 400-440-480 VAC 2Ph 6,1-7,4-8,8 KW without electronic</b>   |
| 5101845        | Air heater M50L 400-440-480 VAC 2Ph 6,1-7,4-8,8 KW without electronic, with internal thermocouple                    |

#### Accessories:

| Item no. | Description  |
|----------|--|
| 5107254  |  Flange connector                                     |
| 5107256  |  Angles nozzle $\varnothing$ 50 mm length 160 x 100mm |
| 5107255  |  Extension tube 36,5 x 160mm                          |
| 5107258  |  Wide slot nozzle 70 x 10mm                           |
| 5107274  |  Wide slot nozzle 130 x 17mm                          |
| 5107270  |  Wide slot nozzle 150 x 12mm                          |

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### Combination possibilities for devices WITH electronic \*:

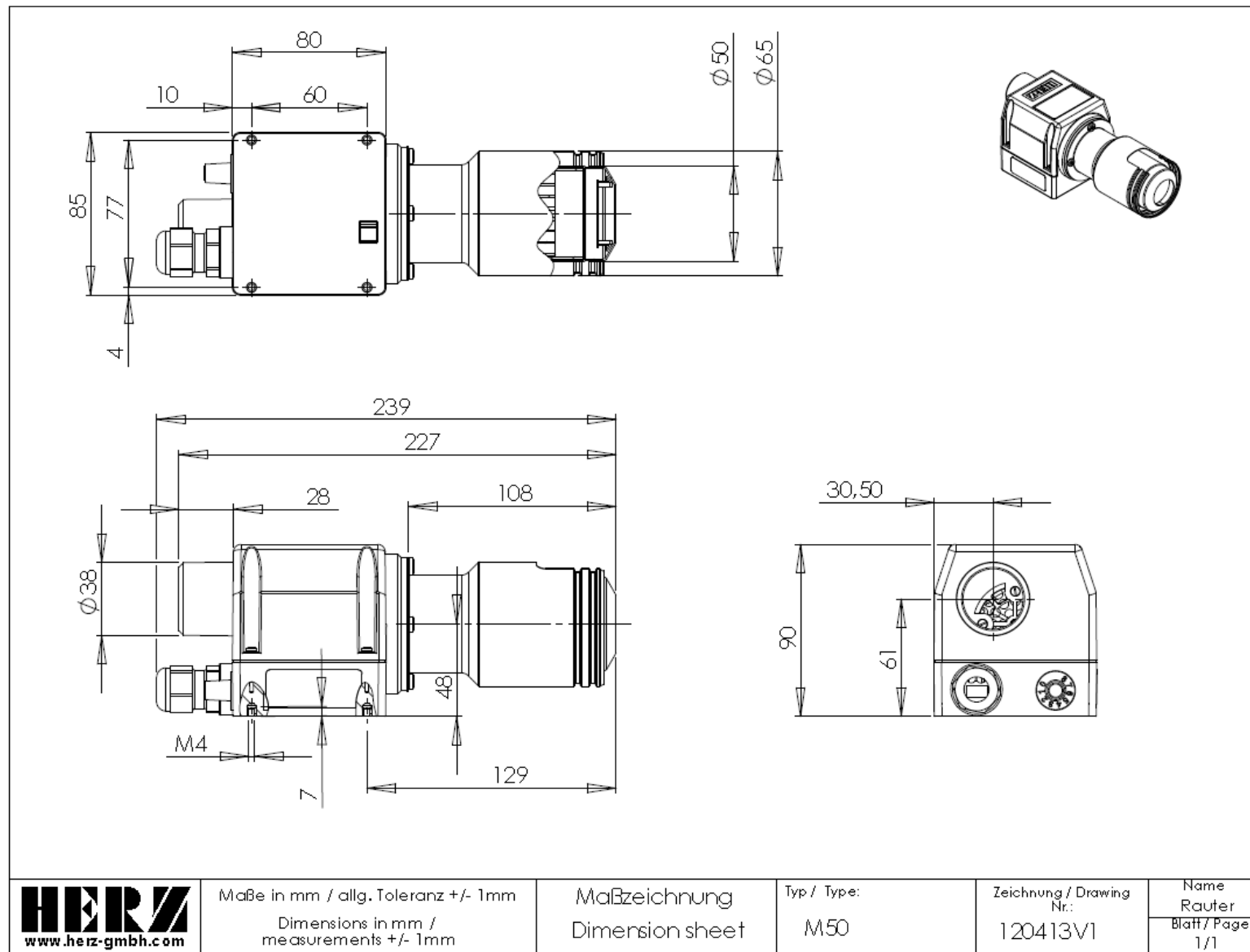
**Measuring point:** 3.0 mm after the air outlet pipe adapter – without nozzle, measured at the hottest point  
**Hose length:** 1,0 m  
**Air supply:** Blower 400 Volt, 50 Hz (HD = High pressure blower, MD = Medium pressure blower)  
**Air flow:** NI / min = standard liters per minute according to DIN 1343

**CAUTION:** Air flow and temperature are indicative which can change due to external influences and changes air hose diameter and length!

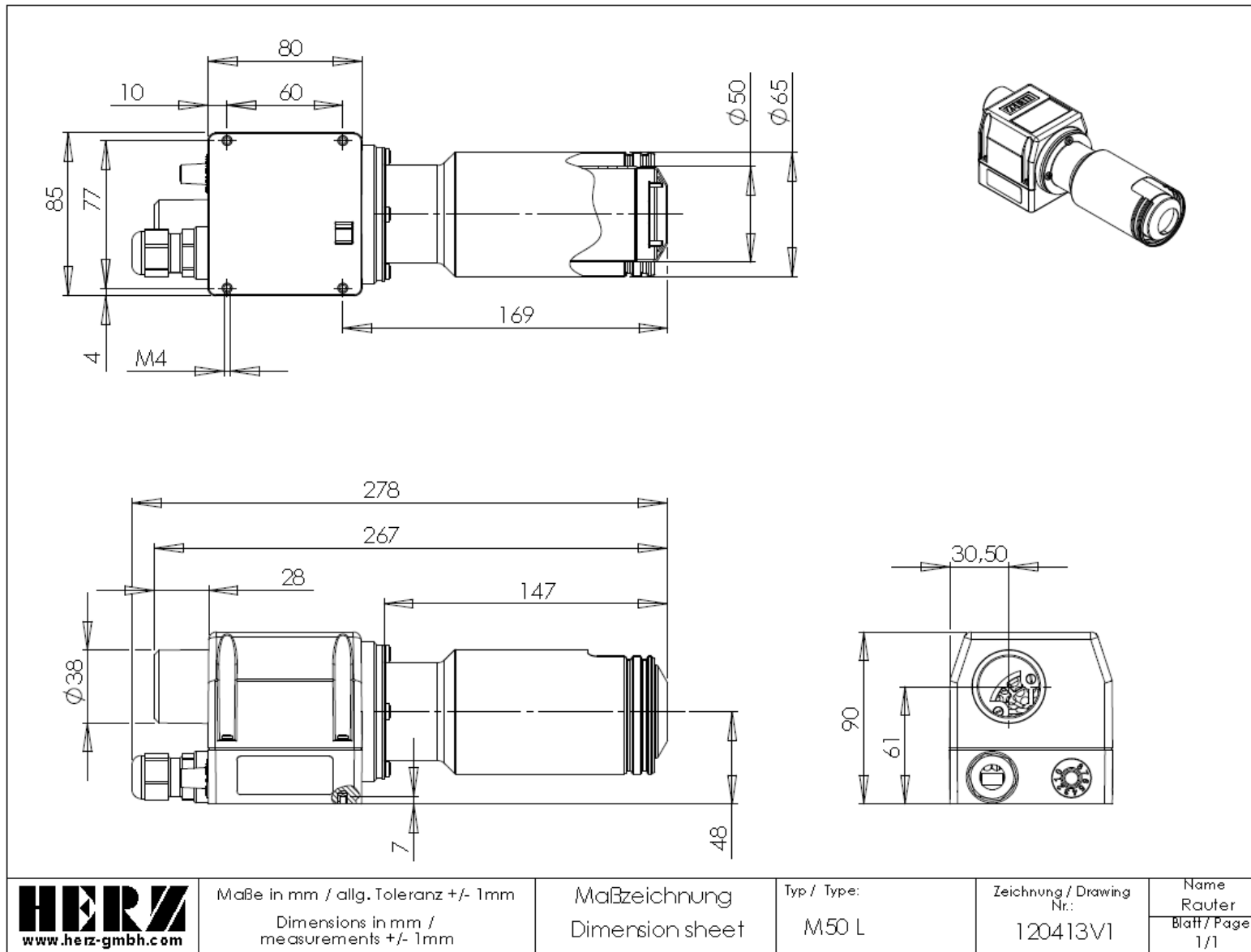
| Blower type | Quantity, air heater type, voltage, power | Air flow at 50 Hz with heating [NI / min.] | Maximum temperature at 50 Hz [°C] |
|-------------|---|--|-----------------------------------|
| HD140       | 1 x M50; 230VAC; 3,7KW                    | 950  | 310                               |
|             | 2 x M50; 230VAC; 3,7KW                    | 2 x 630                                    | 450                               |
|             | 4 x M50; 230VAC; 3,7KW                    | 4 x 360                                    | 580                               |
| HD240       | 4 x M50; 230VAC; 3,7KW                    | 4 x 870                                    | 330                               |
|             | 8 x M50; 230VAC; 3,7KW                    | 8 x 490                                    | 510                               |
| MD10        | 2 x M50; 230VAC; 3,7KW                    | 2 x 300                                    | 600                               |
| MD14        | 2 x M50; 230VAC; 3,7KW                    | 2 x 350                                    | 580                               |
| HD140       | 1 x M50; 400VAC(2Ph); 4,5KW               | 970  | 370                               |
|             | 2 x M50; 400VAC(2Ph); 4,5KW               | 2 x 630                                    | 540                               |
| MD14        | 4 x M50; 400VAC(2Ph); 4,5KW               | 2 x 320                                    | 650                               |
|             | 8 x M50; 400VAC(2Ph); 4,5KW               | 8 x 310                                    | 650                               |
| HD140       | 1 x M50L; 400VAC(2Ph); 6,1KW              | 780  | 560                               |
| HD240       | 1 x M50L; 400VAC(2Ph); 6,1KW              | 1440                                       | 350                               |
|             | 2 x M50L; 400VAC(2Ph); 6,1KW              | 2 x 1110                                   | 410                               |
|             | 4 x M50L; 400VAC(2Ph); 6,1KW              | 4 x 770                                    | 540                               |

\*Data without guarantee

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Technische Änderungen vorbehalten / technical changes reserved

## Ait heater type M50 / M50L 2,2 to 6,1 KW

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