



# ELECTRICAL HEATERS BATR R - BATR R010

RECTANGULAR - CONTROLLED



Built-in control  
Built-in thermal protection  
Power from 6 to 66kW

	
Electrical safety	Plug & Play control

## APPLICATION

- Fits into a horizontal or vertical rectangular duct network.
- Terminal heating or defrosting.
- Output temperature max. 50°C.

## RANGE

- Dimensions B x H: 400 x 200 to 1,000 x 500mm.
- Power from 6 to 66kW.
- Three-phase 400V or three-phase 400V+N power supply from 18kW.

**BATR R: built-in stand-alone control.**

**BATR R010: built-in control for external 0-10V signal.**

## DESCRIPTION

**BATR R: built-in stand-alone control**

### How it works

- Duct air supply temperature control.
- Ambient or extraction temperature control with or without air supply temp limit.
- Min. speed = 1.5m/s - Max speed 10m/s.
- Heating must be slaved to fan operation.
- MCR1-type delay required to delay fan shutoff to cool pins.
- Provide a contactor to cut off the power supply in case one of the safety thermostats is triggered, a contactor equipped with an auxiliary contact (NO/NC) if information needs to be reported to the ventilation unit or the BMS.

### Construction

- Aluzinc-treated steel IP44 body and casing.
- Connection with blank flanges.
- IP44 cable grommet to cut
- Sheathed 304 stainless steel heating elements.
- Safety thermostats with NC contact pre-wired in series, to be connected to an external power contactor:
  - 1 safety thermostat with automatic reset 50°C.
  - 1 safety thermostat with manual reset, setpoint 100°C.
- 2 heating / operating mode-fault indicator LEDs

### PID control including

- 1 Triac-type electronic power controller.
- 1 safety airflow sensor.
- 1 TJK10K duct temperature sensor to measure air supply temperature or upper and lower limit (+15°C / +40°C).
- 1 unit with NTC10 ambient sensor and TR5K potentiometer (IP20) set from 0 to 30°C
  - TR5K activated only if use of TJK10K duct sensor to measure blowing temperature
  - TR5K + NTC10 activated if measurement of ambient + limiting in duct with TJK10K

## BATR R



## ELECTRICAL ACCESSORIES



**MCR1**  
Delay

## OPTIONS

- BATR R BATR R010 single-phase.

## DESCRIPTION

**BATR R010: built-in control with external 0-10V signal**

### How it works

- Combined with a single or double airflow AHU transmitting a 0-10V signal.
- Min. speed = 1.5m/s - Max speed 10m/s.
- Heating must be slaved to fan operation.
- Delay required to delay fan shutoff to cool pins.
- Provide a contactor to cut off the power supply in case one of the safety thermostats is triggered, a contactor equipped with an auxiliary contact (NO/NC) if information needs to be reported to the ventilation unit or the BMS.

### Construction

- Aluzinc-treated steel IP44 body and casing.
- Connection with blank flanges.
- IP44 cable grommet to cut.
- Sheathed 304 stainless steel heating elements.
- Safety thermostats with NC contact pre-wired in series, to be connected to an external power contactor:
  - 1 safety thermostat with automatic reset 50°C.
  - 1 safety thermostat with manual reset, setpoint 100°C.
- 2 heating / operating mode-fault indicator LEDs

### PID control including

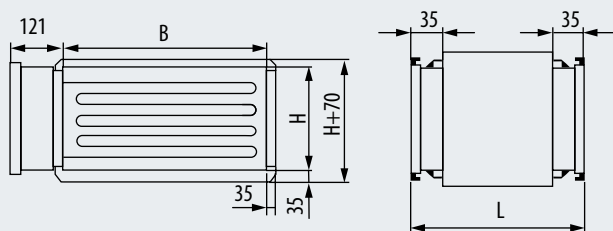
- 1 Triac-type electronic power controller.
- 1 safety airflow sensor.

# BATR R - BATR R010

RECTANGULAR - CONTROLLED

## DIMENSIONS (IN MM)

### BATR R - BATR R010



B (mm)	H (mm)	L (mm)	Power (kW)
400	200	370	6 to 12
400	200	420	15
500	250	370	6 to 12
500	250	600	24
500	300	370	9 to 24
500	300	440	30
600	300	370	9 to 18
600	300	440	27
600	300	520	36
600	350	370	12 to 30
600	350	500	42
700	400	370	15 to 42
700	400	440	60
800	500	370	21 to 39
800	500	500	66
1,000	500	370	24 to 45
1,000	500	500	66

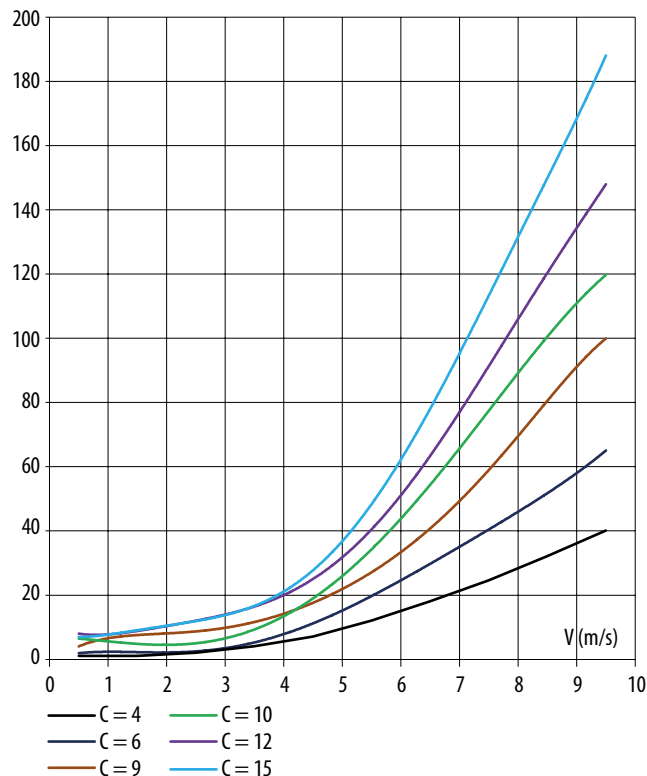


### TR5K

■ | 71 x w 71 x th 25mm

## AERAUIC CHARACTERISTICS

### Pressure drops



B x H (mm)	Power (kW)	C
400 x 200	6	5
400 x 200	9	8
400 x 200	12	10
400 x 200	15	13
500 x 250	6	3
500 x 250	12	6
500 x 250	24	13
500 x 300	9	4
500 x 300	15	7
500 x 300	24	11
500 x 300	30	13
600 x 300	9	3
600 x 300	18	7
600 x 300	27	10
600 x 300	36	13
600 x 350	12	4
600 x 350	21	7
600 x 350	30	10
600 x 350	42	13
700 x 400	15	4
700 x 400	27	6
700 x 400	42	10
700 x 400	60	14
800 x 500	21	4
800 x 500	39	7
800 x 500	66	11
1,000 x 500	24	3
1,000 x 500	45	6
1,000 x 500	66	9

The heater air pressure drop depends on air speed and the number of resistances. Index C is the number of resistances in relation to the surface area of the heater.

## TECHNICAL CHARACTERISTICS

## BATR R

Rectangular electrical heater with built-in control - Three-phase

Designation	Power (kW)	Current (A)	Min. air volume 1.5m/s	Max. air volume 10m/s	Weight (kg)
BATR R 400x200 6 kW Three-phase	6	8.7	440	2,880	12.2
BATR R 400x200 9kW Three-phase	9	13.0	440	2,880	13.2
BATR R 400x200 12kW Three-phase	12	17.3	440	2,880	14.0
BATR R 400x200 15kW Three-phase	15	21.7	440	2,880	16.0
BATR R 500x250 6kW Three-phase	6	8.7	680	4,500	13.0
BATR R 500x250 12kW Three-phase	12	17.3	680	4,500	18.0
BATR R 500x250 24kW Three-phase + N	24	34.7	680	4,500	26.3
BATR R 500x300 9kW Three-phase	9	13.0	810	5,400	14.3
BATR R 500x300 15kW Three-phase	15	21.8	810	5,400	17.3
BATR R 500x300 24kW Three-phase + N	24	34.7	810	5,400	22.0
BATR R 500x300 30kW Three-phase + N	30	43.4	810	5,400	26.0
BATR R 600x300 9kW Three-phase	9	13.0	980	6,480	16.0
BATR R 600x300 18kW Three-phase + N	18	26.0	980	6,480	20.0
BATR R 600x300 27kW Three-phase + N	27	39.1	980	6,480	25.0
BATR R 600x300 36kW Three-phase + N	36	52.0	980	6,480	29.0
BATR R 600x350 12kW Three-phase	12	17.3	1,140	7,560	17.0
BATR R 600x350 21kW Three-phase + N	21	30.4	1,140	7,560	22.0
BATR R 600x350 30kW Three-phase + N	30	43.4	1,140	7,560	27.0
BATR R 600x350 42kW Three-phase + N	42	60.7	1,140	7,560	32.5
BATR R 700x400 15kW Three-phase	15	21.7	1,520	10,080	18.0
BATR R 700x400 27kW Three-phase + N	27	39.1	1,520	10,080	27.2
BATR R 700x400 42kW Three-phase + N	42	60.7	1,520	10,080	32.4
BATR R 700x400 60kW Three-phase + N	60	86.7	1,520	10,080	41.0
BATR R 800x500 21kW Three-phase + N	21	30.4	2,160	14,400	24.0
BATR R 800x500 39kW Three-phase + N	39	56.4	2,160	14,400	33.0
BATR R 800x500 66kW Three-phase + N	66	95.4	2,160	14,400	49.0
BATR R 1,000x500 24kW Three-phase + N	24	34.7	2,700	14,400	31.0
BATR R 1,000x500 45kW Three-phase + N	45	65.0	2,700	14,400	46.0
BATR R 1,000x500 66kW Three-phase + N	66	95.4	2,700	14,400	61.0

## BATR R010

Rectangular electrical heater controlled by external 0-10V signal - Three-phase

Designation	Power (kW)	Current (A)	Min. air volume 1.5m/s	Max. air volume 10m/s	Weight (kg)
BATR R010 400x200 6kW Three-phase	6	8.7	440	2,880	12.1
BATR R010 400x200 9kW Three-phase	9	13.0	440	2,880	13.2
BATR R010 400x200 12kW Three-phase	12	17.3	440	2,880	14.0
BATR R010 400x200 15kW Three-phase	15	21.7	440	2,880	16.0
BATR R010 500x250 6kW Three-phase	6	8.7	680	4,500	13.0
BATR R010 500x250 12kW Three-phase	12	17.3	680	4,500	18.0
BATR R010 500x250 24kW Three-phase + N	24	34.7	680	4,500	26.3
BATR R010 500x300 9kW Three-phase	9	13.0	810	5,400	14.3
BATR R010 500x300 15kW Three-phase	15	21.8	810	5,400	17.3
BATR R010 500x300 24kW Three-phase + N	24	34.7	810	5,400	22.2
BATR R010 500x300 30kW Three-phase + N	30	43.4	810	5,400	26.0
BATR R010 600x300 9kW Three-phase	9	13.0	980	6,480	16.0
BATR R010 600x300 18kW Three-phase + N	18	26.0	980	6,480	20.0
BATR R010 600x300 27kW Three-phase + N	27	39.1	980	6,480	25.0
BATR R010 600x300 36kW Three-phase + N	36	52.0	980	6,480	29.5
BATR R010 600x350 12kW Three-phase	12	17.3	1,140	7,560	17.0
BATR R010 600x350 21kW Three-phase + N	21	30.4	1,140	7,560	22.1
BATR R010 600x350 30kW Three-phase + N	30	43.4	1,140	7,560	27.0
BATR R010 600x350 42kW Three-phase + N	42	60.7	1,140	7,560	32.5
BATR R010 700x400 15kW Three-phase	15	21.7	1,520	10,080	18.2
BATR R010 700x400 27kW Three-phase + N	27	39.1	1,520	10,080	27.2
BATR R010 700x400 42kW Three-phase + N	42	60.7	1,520	10,080	32.4
BATR R010 700x400 60kW Three-phase + N	60	86.7	1,520	10,080	41.0
BATR R010 800x500 21kW Three-phase + N	21	30.4	2,160	14,400	24.0
BATR R010 800x500 39kW Three-phase + N	39	56.4	2,160	14,400	33.0
BATR R010 800x500 66kW Three-phase + N	66	95.4	2,160	14,400	49.2
BATR R010 1,000x500 24kW Three-phase + N	24	34.7	2,700	14,400	31.0
BATR R010 1,000x500 45kW Three-phase + N	45	65.0	2,700	14,400	46.0
BATR R010 1,000x500 66kW Three-phase + N	66	95.4	2,700	14,400	61.0