



## CSN® AIR HEATER

### Type 802

Air heaters of series 802 are designed for direct heating of gaseous incombustible flowing air. Typical applications are in the field of ventilation and air conditioning as well as in drying equipment and process engineering.

Air duct heaters in this design are used for overpressure up to 10 mbar. For higher pressures, we design air heaters gas-tight welded according to series 803 or as electric circulation heaters.

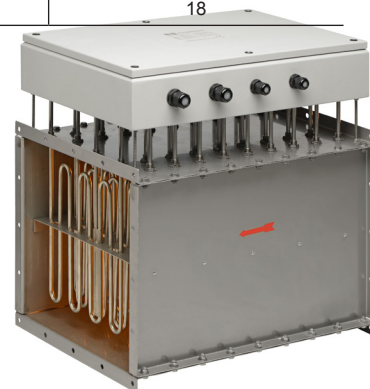
Type without fan	Output KW	steps KW	approx. housing dimensions in mm		approx. flange width mm	Qty. of tubular elements
			cross section	length		
802/ 4	3	3	250 x 250	350	30	3
802/ 6	6	3 - 6				6
802/ 9	9	3 - 6 - 9				9
802/ 12	12	6 - 12	350 x 350	500	30	6
802/ 18	18	6 - 12 - 18				9
802/ 27	24	12 - 18 - 24				12
802/ 36	36	12 - 24 - 36	460 x 460	950	50	9
802/ 48	48	16 - 32 - 48				12
802/ 60	60	20 - 40 - 60				15
802/ 72	72	24 - 48 - 72				18

Materials used for our air heaters:

- Air duct in stainless steel 1.4301 (AISI 304), optionally in painted steel
- CSN® tubular heating elements, exchangeable, in stainless steel 1.4828
- Terminal enclosure in steel, powder-coated RAL 7035
- Protection class IP-54. Optionally IP-65

Options:

- With temperature control, temperature limiter, Pt-100 RTD, thermocouple
- With integrated fan (see table)
- For a perfect control of our heaters we recommend our electric control systems



Type without fan	Output KW	steps KW	approx. housing dimensions in mm		approx. flange width mm	Qty. of tubular elements	approx. air capacity freeblowing m <sup>3</sup> /h	approx. rpm
			cross section	length				
802/ 4 V	3	3	250 x 250	350	30	3	500	1425
802/ 6 V	6	3 - 6				6		
802/ 9 V	9	4,5 - 4,5				9		
802/ 12 V	12	6 - 12	350 x 350	500	30	6	1800	1425
802/ 18 V	18	6 - 12 - 18				9		
802/ 27 V	24	12 - 18 - 24				12		
802/ 36 V	36	12 - 24 - 36	460 x 460	950	50	9	4000	1425
802/ 48 V	48	16 - 32 - 48				12		
802/ 60 V	60	20 - 40 - 60				15		
802/ 72 V	72	24 - 48 - 72				18		



## CSN® AIR HEATER

### Type 804

Air heaters of series 804 are specially designed for use in heating, ventilation and air conditioning technology. Due to the lightweight design these units offer ideal conditions for heating flowing air. As a standard, the bolted duct consists of aluminum sheet AIMg 3, with circumferential flange without bores according to DIN 24158, Sheet 3, row 3. The flange width ranges from 25 and 35 mm. The heating insert consists of exchangeable non-radiating tubular heating elements.

Materials used for our air heaters:

air heater housing of aluminium AIMg 3, optionally galvanised steel

CSN® tubular heating elements of stainless steel 1.4828, interchangeable

degree of protection IP 42

Options:

With temperature control, temperature limiter,

Pt-100 RTD, thermocouple

With integrated fan (see table)

For a perfect control of our heaters we recommend our electric control systems



Type 804	dimensions h x w x d / mm	Output KW	Qty. of tubular elements	min. Flow rate m <sup>3</sup> /h	D T / K	max. Flow rate / m <sup>3</sup> /h	D T / K
3,6 - 250	250 x 250 x 160	3,6	6		24		6
5,4 - 250	250 x 250 x 240	5,4	9	400	36	1500	10
9 - 250	250 x 250 x 300	9	15		60		16
6 - 400	400 x 250 x 160	6	6		26		8
9 - 400	400 x 250 x 240	9	9		39		12
15 - 400	400 x 250 x 300	15	15	600	65	2000	20
18 - 400	400 x 400 x 240	18	18		53		16
27 - 400	400 x 400 x 300	27	27		80		24
18 - 500	500 x 500 x 160	18	12		27		11
36 - 500	500 x 500 x 240	36	24	1800	56	4500	22
54 - 500	500 x 500 x 300	54	36		80		33
24 - 800	800 x 500 x 160	24	12		27		9
48 - 800	800 x 500 x 240	48	24	2400	53	7000	18
72 - 800	800 x 500 x 300	72	36		80		27
36 - 800	800 x 800 x 160	36	18		27		8
108 - 800	800 x 800 x 300	108	54	3600	80	12300	24