

# Electric heaters ERH NV/NI/NIS



aluzinc coating



Two-stage overheat

protection



Integrated

automatic



IP 44 protection class

## Description

ERH NI/NV/NIS is a series of electric duct heaters with a **built-in automation system containing a heater power regulator.** The adjustment is performed by pulsation. The time between switching the heaters on and off is adjusted by the regulator to ensure that the set temperature is maintained. The NV/NI/NIS series differ in the way the target value is set:

NI – Temperature setpoint using potentiometer located on heater cover.

NV – Temperature setting using HR5K external setpoint.

LOW – Temperature setting using external control signal 0 - 10 V.

ERH heaters are designed for installation in rectangular ducts. Heating power range: 6.0 to 66.0 kW.

Each heater has a two-stage overheat protection:

I level at 50°C - automatic reset.

II level at 100°C – manual reset required.

# Usage

Duct heaters are used to heat clean air in domestic ventilation systems, especially in autumn and winter, as well as in industrial installations requiring a constant temperature of blown air.

ECH heaters also work as pre-heaters or secondary heaters, complementing installations based on ventilation units with heat recovery.

## Design

The heater cover is made of steel sheet coated with a high-quality aluzinc coating, which guarantees high corrosion resistance. The heating elements are made of AISI 304 stainless steel.

The junction box has an IP44 protection class.

### Power of heating elements

Power [kW]	Heating elements [kW]	Power [kW]	Heating elements [kW]
9	9	36	9+12+15
12	12	39	9+15+15
15	15	42	12+15+15
18	9+9	45	12+15+18
21	9+12	51	9+12+12+18
24	9+15	54	9+12+15+18
27	12+15	60	12+15+15+18
30	15+15	66	15+15+18+18
33	15+18	-	-

#### Accessories



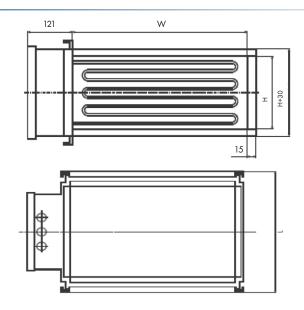
PSH Pressure switch page 173

TJK10K Duct temperature sensor page 173



HR5K

External temperature setpoint page 174



# Standard dimensions [mm]

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ERH NI/NV/I	NIS-4020; \	N×H =	400x	200														
Length L	mm		370		420	520												
Power	kW	6	9	12	15	21												
ERH NI/NV/I	NIS-5025; \	WxH =	500x	250														
Length L	mm	37	0	420	520	600	820	970										
Power	kW	9	12	15	21	24	36	45										
ERH NI/NV/I	NIS-5030; \	WxH =	500x	300														
Length L	mm			37	70				440		520	60	00					
Power	kW	9	12	15	18	21	24	27	30	33	36	42	45					
		A/11 =	400	200														
ERH NI/NV/1 Length L	mm	/VXH =	600x		70				440		500		00					
				37	0				440		520	00						
······		~	10		10	01	0.4	07	20	22	· · · ·	40	4 5					
Power	kW	9	12	15	18	21	24	27	30	33	36	42	45					
······	kW			15	18	21	24	27	30	33	36	42	45					
Power	kW			15		21 70	24	27	30	33	36 420	42		00				
Power ERH NI/NV/1	kW NIS-6035; ۱			15			24 24	27 27	30 30	33 33		42 39		00 45				
Power ERH NI/NV/I Length L Power	kW <b>NIS-6035; \</b> mm kW	<b>WxH =</b> 9	<b>600x</b>	15 <b>350</b> 15	3	70					420		50					
Power ERH NI/NV/M Length L Power ERH NI/NV/M	kW <b>NIS-6035; \</b> mm kW	<b>WxH =</b> 9	<b>600x</b>	15 <b>350</b> 15	3	70		27			420		50	45	40	520		
Power ERH NI/NV/I Length L Power	kW NIS-6035; \ mm kW NIS-7040; \	<b>WxH =</b> 9	<b>600x</b>	15 <b>350</b> 15	3	70	24	27			420		50	45	40 60	520 66		
Power ERH NI/NV/M Length L Power ERH NI/NV/M Length L Power	kW NIS-6035; \ mm kW NIS-7040; \ mm kW	WxH = 9 WxH = 9	600x3 12 700x4 12	15 <b>350</b> 15 <b>400</b> 15	31 18	70 21	24 37	27 70	30	33	420 36	39	50 42	45 4				
Power ERH NI/NV/I Length L Power ERH NI/NV/I Length L Power ERH NI/NV/I	kW NIS-6035; \ mm kW NIS-7040; \ mm kW NIS-8050; \	WxH = 9 WxH = 9	600x3 12 700x4 12	15 <b>350</b> 15 <b>400</b> 15	31 18	70 21	24 37	27 70 27	30	33	420 36	39	50 42	45 4	60	66	440	500
Power ERH NI/NV/M Length L Power ERH NI/NV/M Length L Power	kW NIS-6035; \ mm kW NIS-7040; \ mm kW	WxH = 9 WxH = 9	600x3 12 700x4 12	15 <b>350</b> 15 <b>400</b> 15	31 18	70 21	24 37	27 70 27 370	30	33 33	420 36 36	39 42	50 42	45 4	60		440	
Power ERH NI/NV/I Length L Power ERH NI/NV/I Length L ERH NI/NV/I Length L Power	kW NIS-6035; \ mm kW NIS-7040; \ mm kW NIS-8050; \ mm kW	WxH = 9 WxH = 9 WxH = 9	600×3 12 700×4 12 800×3 12	15 350 15 400 15 500 15	3: 18 18	70 21 21	24 37 24	27 70 27	30 30	33	420 36	39	5( 42 45	45 4 51	60	66 420		
Power ERH NI/NV/I Length L Power ERH NI/NV/I Length L Power ERH NI/NV/I ERH NI/NV/I	kW NIS-6035; \ mm kW NIS-7040; \ mm kW NIS-8050; \ mm kW	WxH = 9 WxH = 9 WxH = 9	600×3 12 700×4 12 800×3 12	15 350 15 400 15 500 15	3: 18 18	70 21 21	24 37 24	27 70 27 370 27	30 30	33 33	420 36 36	39 42	5( 42 45	45 4 51	60 	66 420 54	60	66
Power ERH NI/NV/I Length L Power ERH NI/NV/I Length L ERH NI/NV/I Length L Power	kW NIS-6035; \ mm kW NIS-7040; \ mm kW NIS-8050; \ mm kW	WxH = 9 WxH = 9 WxH = 9	600×3 12 700×4 12 800×3 12	15 350 15 400 15 500 15	3: 18 18	70 21 21	24 37 24	27 70 27 370	30 30	33 33	420 36 36	39 42	5( 42 45	45 4 51	60 	66 420		500 66 500