

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



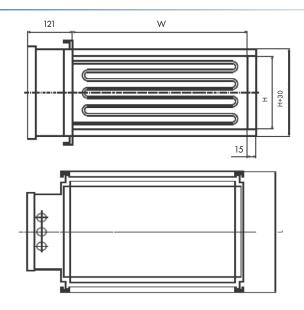
PSH Pressure switch page 173

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 NIS-6035; \ mm kW	WxH = 9	600x	15 350 15	3	70					420		50					
Power ERH NI/NV/M Length L Power ERH NI/NV/M	kW NIS-6035; \ mm kW	WxH = 9	600x	15 350 15	3	70		27			420		50	45	40	520		
Power ERH NI/NV/I Length L Power	kW NIS-6035; \ mm kW NIS-7040; \	WxH = 9	600x	15 350 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	15 350 15 400 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	15 350 15 400 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	15 350 15 400 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