

ENGELNORM® ELECTRIC AIR HEATER

ENGELNORM® ELECTRIC AIR HEATER Type E 0.5 - E 2

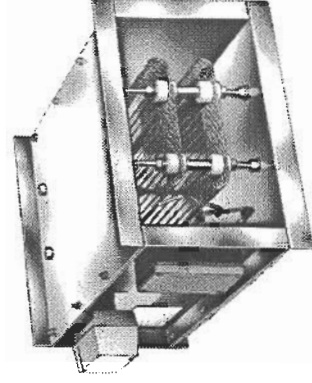
Operating voltage:
230 V AC

Circuit: Ph-N

Installation position: universal

Min. dimensions with min. output

illus. with TW type ZB 111



Type	Output kW	Switch stages/ norm./ max.	Number of heating grids	Output per heating grid kW	W1	H1	D	Dim. in mm	Flange	Alu- minium duct	Weight approx. kg	Free duct cross- section, approx. qm
E 0.5	0.5	1/2	2	0.25	250	150	350	25	25	1.5	2.5	0.034
E 1	1	1/3	3	0.33	250	200	350	25	25	1.5	3	0.045
E 2	2	1/4	4	0.50	250	250	350	25	25	1.5	4	0.056

ENGELNORM® ELECTRIC AIR HEATER Type E 7.5 - E 20

Operating voltage:
230 V AC

Circuit: Ph-N

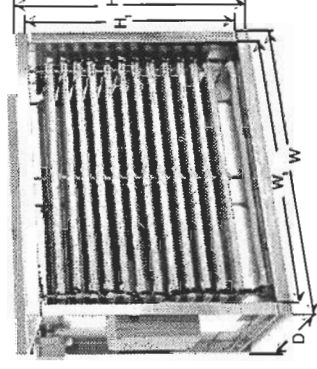
230/400 V rotary current

Circuit: Δ/Y

Installation position: universal

Square design - multi-stage

illus. with STB type ZB 121



Type	Output kW	Switch stages/ norm./ max. 3+/-1-	Number of heating grids	Output per heating grid kW	W1	H1	D	Dim. in mm	Flange	Alu- minium duct	Weight approx. kg	Free duct cross- section, approx. qm
E 7.5	7.5	3/9	9	0.83	350	350	250	30	30	1.5	6	0.10
E 12	12	4/12	12	1.00	450	450	350	30	30	2.0	10	0.16
E 16	16	4/12	12	1.33	450	450	350	30	30	2.0	10	0.16
E 20	20	4/12	12	1.66	450	450	350	30	30	2.0	11	0.16

flat units - multi-stage

illus. with STB type ZB 123

ENGELNORM® ELECTRIC AIR HEATER Type EL 6 - EL 20

Operating voltage:
230 V AC

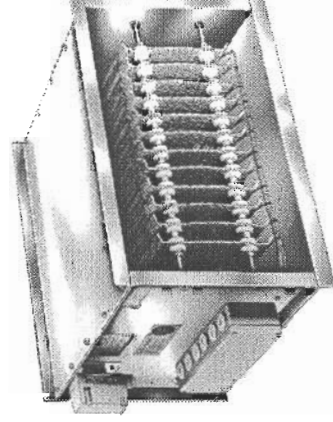
Circuit: Ph-N

Installation position: universal

230 / 400 V rotary current

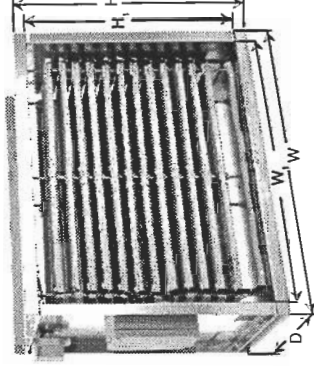
Circuit: Δ / Y

Our alternative:
Engelcanal® air heater
Type ELP 1 - 36 with
profile frame



Type	Output kW	Switch stages/ norm./ max. 3+/-1-	Number of heating grids	Output per heating grid kW	W1	H1	D	Dim. in mm	Flange	Alu- minium duct	Weight approx. kg	Free duct cross- section, approx. qm
EL 6	6	4/12	12	0.50	500	280	450	25	25	2.0	8	0.13
EL 12	12	4/12	12	1.00	500	280	450	25	25	2.0	9	0.13
EL 16	16	4/12	12	1.33	600	280	450	25	25	2.0	10	0.15
EL 20	20	5/15	15	1.33	600	280	450	25	25	2.0	11	0.15

ENGELNORM®
ELECTRIC AIR HEATER
ENGELNORM®
ELECTRIC AIR HEATER
Type L 1 - 20 / Universal



Operating voltage:

230 V AC

Circuit: Ph-N

230/400 V rotary current

Circuit: ΔY

Installation position: universal

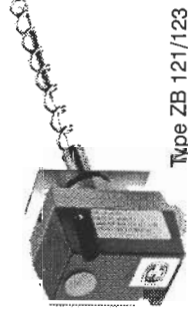
Large performance and large-volumed design

illus. with STB type ZB 121

Type	Output kW	Switch stages norm./max	Number of heating grids	Output per heating grid kW	Dim. in mm	Flange	Alu-minium duct	Weight approx. kg	Free duct cross-section, approx. qm
					D				
L 1	0,75	1/3	3	0,25	200	30	1,5	3	0,06
L 2	1	1/3	3	0,33	200	30	1,5	3	0,06
L 3	1,5	1/3	3	0,50	200	30	1,5	3	0,06
L 4	2	2/6	6	0,33	280	30	1,5	4	0,08
L 5	3	2/6	6	0,50	280	30	1,5	4	0,08
L 6	4	2/6	6	0,66	280	30	1,5	5	0,08
L 7	5	2/6	6	0,83	280	30	1,5	5	0,08
L 8	6	2/6	6	1,00	280	30	1,5	5	0,08
L 9	9	3/9	9	1,00	460	30	1,5	6,5	0,14
L 10	12	3/9	9	1,33	460	30	1,5	6,5	0,14
L 11	15	3/9	9	1,66	460	30	2,0	9	0,14
L 12	18	3/9	9	2,00	460	30	2,0	9	0,14
L 13	20	3/9	9	2,22	540	30	2,0	12	0,18
L 14	24	3/9	9	2,66	540	30	2,0	15	0,18
L 15	30	3/9	9	3,33	540	30	2,5	17	0,18
L 16	40	4/12	12	3,33	800	35	2,5	24	0,38
L 17	50	6/18	18	2,77	800	35	2,5	27	0,51
L 18	60	6/18	18	3,33	800	35	2,5	30	0,51
L 19	80	8/24	24	3,33	1000	35	2,5	35	0,80
L 20	100	10/30	30	3,33	1200	35	3,0	57	1,15

Engelcontrol®
Temperature Monitoring
and Limiting

acc. to Info No. S 20, suitable for all units
 Regulations acc. to VDE-DIN 57100, part 420
 Fire-protected acc. to VDI 3803



Type ZB 121/123



Type STBW 225

Type	Unit	Weight approx. kg	availability	Code
ZB 111	Temperature monitor - automatic - change-over switch 230V 10A Temperature adjustable from 313 - 383 K (+40 °C to +110 °C)	0,5		TW
ZB 121	Temperature limiter as STB - locking - change-over switch, 230V 10A Temperature pre-set to 348 K (+75 °C) with switch-on lock, release button behind cover. TÜV-tested acc. to DIN 3440.	0,5		TB
ZB 123	Safety temperature limiter as STB - locking - change-over switch, 230V 10A Temperature pre-set to 373 K (+100 °C) with switch-on lock, release button behind cover. TÜV-tested acc. to DIN 3440.	0,5	integrated or single	STB
STBW 225	Safety temperature limiter and monitor. Two change-over switches, 230V 10A, TÜV-tested acc. to DIN 3440. Inner temperature adjustable from 273 K - 343 K. STB Temperature pre-set to 348 K (+75 °C) with switch-on lock, release knob behind cover.	0,6		
ZB 131	Temp. regulator - adjustable duct thermostat, change-over switch 230V 10A. Temp. adjustable from outside from 273 - 343 K (0 to +70 °C), single-staged.	0,5		TR