E-Series

The E-Series sets new benchmarks when it comes to effectiveness, energy efficiency and functionality.

The E-Series is characterised by future-oriented technology, high quality and good workmanship, maximum flexibility and pioneering design.

S model

Visible wall or ceiling installation.
Air intake area at the front.

Z model

Suspended ceiling installation.
Air intake underneath. Only the air intake and discharge opening are visible.

U model

For exposed installation or installation in a suspended ceiling, underside of the unit is visible.
Air intake area at the bottom.
Available with optional ceiling installation frame.

R model

Slim model for visible horizonal or vertical installation.
Air intake area at the back.

UDB model

For installation in a suspended ceiling, flush with the ceiling.
Air intake area at the bottom
Complete underside of the unit is visible.

Performance category		E-Series 1					E-Series 2					E-Series 3				
Length of the unit		100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
Weights																
S/ZS version	[kg]	45	68	80	95	110	50	75	100	120	145	100	135	170	200	230
U /UDB version	[kg]	50	72	86	102	130	56	84	110	130	158	125	160	200	230	250
Z version	[kg]	52	75	90	108	135	60	90	115	150	176	132	167	208	238	260
R version	[kg]	48	70	83	98	120	53	80	105	115	152	117	148	185	215	240
Unit measurements																
Width	[mm]	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Depth of S/ZS model	[mm]	545	545	545	545	545	620	620	620	620	620	850	850	850	850	850
Depth of U/UDB/Z model	[mm]	700	700	700	700	700	825	825	825	825	825	1130	1130	1130	1130	1130
Depth of R model	[mm]	255	255	255	255	255	300	300	300	300	300	430	430	430	430	430
Height of S/U/UDB model	[mm]	255	255	255	255	255	300	300	300	300	300	430	430	430	430	430
Height of Z/ZS model	[mm]	300	300	300	300	300	345	475	475	475	475	475	475	475	475	475
Height of R model	[mm]	625	625	625	625	625	715	715	715	715	715	950	950	950	950	950

Performance category		E-Series 1					E-Series 2					E-Series 3				
Length of the unit		100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
Performance data																
Max. recommended installation height	[m]	2,90					3,40					4,40				
Max. nominal flow rate	[m³/h]	2100	3150	4200	5250	6300	2100	4200	5250	6300	7450	3800	5800	8500	11600	14500
Max. effective flow rate*	[m³/h]	1500	2400	3200	4000	4800	1600	3050	3800	4550	5300	2700	4300	6500	8600	11000
Average air discharge speed*	[m/s]	14,2					15,6					19,3				
Sound pressure level at a distance of 3 metres to the sound source (anechoic chamber)																
Max. operating level		57,0	59,0	61,0	63,0	64,0	58,4	60,4	62,4	64,4	66,4	60,0	62,0	63,0	64,0	65,0
Average operating level	dB(A)	46,6	48,6	50,6	52,6	53,6	49,1	51,1	53,1	55,1	57,1	56,4	58,4	59,4	60,4	61,4
Minimum operating level	dB(A)	21,3	23,3	25,3	27,3	28,3	24,1	26,1	28,1	30,1	32,1	28,0	30,0	31,0	32,0	33,0
Sound power level*																
Max. operating level	dB(A)	74,5	76,5	78,5	80,5	81,5	75,9	77,9	79,9	81,9	83,9	77,5	79,5	80,5	81,5	82,5
Average operating level	dB(A)	64,1	66,1	68,1	70,1	71,1	66,6	68,6	70,6	72,6	74,6	73,9	75,9	76,9	77,9	78,9
Minimum operating level	dB(A)	38,8	40,8	42,8	44,8	45,8	41,6	43,6	45,6	47,6	49,6	45,5	47,5	48,5	49,5	50,5
Electrical data 230 V																
AC technology																
Output	[kW]	0,46	0,69	0,92	1,15	1,38	0,46	0,92	1,15	1,38	1,61	0,86	1,12	1,69	2,25	2,81
Power consumption	[A]	2,00	3,00	4,00	5,00	6,00	2,00	4,00	5,00	6,00	7,00	3,76	4,88	7,33	9,77	12,21
EC technology																
Output	[kW]	0,34	0,51	0,68	0,85	1,01	0,34	0,68	0,85	1,01	1,18	0,69	1,38	2,07	2,76	3,45
Power consumption	[A]	2,40	3,60	4,80	6,00	7,20	2,40	4,80	6,00	7,20	8,40	3,10	6,20	9,30	12,40	15,50
Technical data of heater battery																
LTHW 70/50 at an air intake temperature of 20°C and air discharge temperature of 35°C (installation with air roll rotating inwards)																
Heat output	[kW]	8,2	13,2	17,6	21,9	26,3	8,8	16,7	20,8	25,0	29,1	14,8	23,6	35,7	47,2	60,3
Flow rate	[m³/h]	0,35	0,57	0,75	0,94	1,13	0,38	0,72	0,90	1,07	1,25	0,64	1,01	1,53	2,03	2,59
Water resistance	[kPa]	0,73	0,90	0,92	0,92	0,92	1,95	2,75	1,80	1,76	1,83	1,62	2,11	2,22	3,12	2,91
LTHW 70/50 at an air intake temperature of 15°C and air discharge temperature of 35°C (installation with air roll rotating outwards)																
Heat output	[kW]	11,0	17,6	23,4	29,3	35,1	11,7	22,3	27,8	33,3	38,8	19,7	31,4	47,5	62,9	80,4
Flow rate	[m³/h]	0,47	0,75	1,01	1,26	1,51	0,50	0,96	1,19	1,43	1,67	0,85	1,35	2,04	2,70	3,46
Water resistance	[kPa]	0,79	1,58	1,69	1,76	1,80	6,80	9,70	6,55	6,82	6,98	4,51	6,28	6,64	10,42	8,06
LTHW 70/50 at an air intake temperature of 5°C and air discharge temperature of 32°C (installation with air roll rotating outwards)																
Heat output	[kW]	14,8	23,7	31,6	39,5	47,4	15,8	30,1	37,5	44,9	52,3	26,7	42,5	64,2	84,9	108,6
Flow rate	[m³/h]	0,64	1,02	1,36	1,70	2,04	0,68	1,29	1,61	1,93	2,25	1,15	1,83	2,76	3,65	4,67
Water resistance	[kPa]	0,79	2,45	2,62	2,70	2,77	10,13	14,40	9,76	10,12	10,35	6,75	9,35	9,89	15,37	12,00
LTHW 60/40 at an air intake temperature of 20°C and air discharge temperature of 32°C (installation with air roll rotating inwards)																
Heat output	[kW]	5,3 **	9,5	13,3	17,6	21,1	7,0	13,4	16,7	20,0	23,3	11,8	18,9	28,5	37,7	48,3
Flow rate	[m³/h]	0,20	0,40	0,60	0,75	0,91	0,30	0,58	0,72	0,86	1,00	0,51	0,81	1,23	1,62	2,08
Water resistance	[kPa]	0,42	0,57	0,63	0,62	0,61	1,38	1,98	1,35	1,26	1,24	1,19	1,51	1,59	2,22	1,94
LTHW 60/40 at an air intake temperature of 20°C and max. air discharge temperature (installation with air roll rotating inwards)																
Heat output	[kW]	5,3	9,5	13,3	17,5	21,0	10,5	19,9	25,5	31,5	37,6	15,4	26,2	38,9	57,8	65,3
Air discharge temperature	[°C]	30,4	32,0	32,0	32,5	32,8	39,3	39,0	39,6	40,0	40,7	36,7	37,8	37,5	40,0	37,4
Flow rate	[m³/h]	0,20	0,40	0,60	0,70	0,90	0,50	0,90	1,10	1,40	1,60	0,70	1,10	1,70	2,50	2,80
Water resistance	[kPa]	0,42	0,57	0,63	0,67	0,69	3,01	4,35	2,93	3,08	3,17	1,90	2,80	2,96	4,83	3,61
LTHW 50/35 at an air intake temperature of 20°C and max. air discharge temperature (installation with air roll rotating inwards)																
Heat output	[kW]	0,7	6,7	9,5	12,3	15,0	7,8	14,6	18,7	23,4	27,7	11,3	19,3	28,7	42,8	48,2
Air discharge temperature	[°C]	27,2	28,2	28,7	29,0	29,2	34,0	34,0	34,4	35,0	35,3	32,2	33,0	33,0	35,0	32,8
Flow rate	[m³/h]	0,20	0,40	0,60	0,70	0,90	0,40	0,80	1,10	1,30	1,60	0,70	1,10	1,70	2,50	2,80
Water resistance	[kPa]	0,28	0,54	0,60	0,63	0,66	2,90	4,35	2,91	3,07	3,77	1,90	2,78	2,95	4,86	3,61
Pipe connections																
Flow/return flow	[Inches]	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Electrical heater battery (three-stage, 400V, 3 Ph, 50 Hz)																
Level 1		3,0	4,5	6,0	6,0	9,0	3,0	6,0	6,0	12,0	12,0	6,0	9,0	12,0	12,0	12,0
Level 2		6,0	9,0	12,0	18,0	18,0	9,0	12,0	18,0	18,0	24,0	12,0	18,0	24,0	24,0	24,0
Level 3	[kW]	9,0	13,0	18,0	24,0	27,0	12,0	18,0	24,0	30,0	36,0	18,0	27,0	36,0	36,0	36,0
Max. dt.	[kPa]	17	15	16	17	16	21	17	18	18	19	19	18	16	12	10

* Data are based on measurements in accordance with ISO 27327 conducted by the Institute of Air Handling and Refrigeration (ILK) in Dresden

** The maximum air discharge temperature is approx. 30 °C