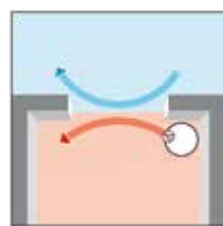


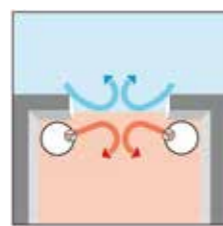
# Charisma

Stylish, unobtrusive and powerful at the same time.  
The perfect symbiosis of design and technology.



## Vertical mounting

Charisma as single unit with vertical installation.



## Vertical mounting

Charisma as double unit with vertical installation.

Performance category	Charisma 1			Charisma 2			Charisma 3			Charisma 4			
	200	250	300	200	250	300	200	250	300	200	250	300	
Unit height													
Weights	[kg]	135	150	165	145	160	175	155	170	185	200	240	265
Unit measurements													
Unit height with straight finish	[mm]	2000	2500	3000	2000	2500	3000	2000	2500	3000	2000	2500	3000
Diameter	[mm]	500	500	500	500	500	500	500	500	500	750	750	750
Unit height with angled finish	[mm]	2350	2850	-	2350	2850	-	2350	2850	-	-	-	-
Diameter	[mm]	500	500	-	500	500	-	500	500	-	-	-	-

Electrical data 230 V													
AC technology													
Output	[kW]	0,69	0,92	1,15	0,92	1,15	1,38	1,15	1,38	1,61	1,69	2,25	2,81
Power consumption	[A]	3,00	4,00	5,00	4,00	5,00	6,00	5,00	6,00	7,00	7,33	9,77	12,21
EC technology													
Output	[kW]	0,51	0,68	0,85	0,68	0,85	1,01	0,85	1,01	1,16	2,07	2,76	3,45
Power consumption	[A]	3,60	4,80	6,00	4,80	6,00	7,20	6,00	7,20	8,40	9,30	12,40	15,50

Performance category	Charisma 1			Charisma 2			Charisma 3			Charisma 4			
	200	250	300	200	250	300	200	250	300	200	250	300	
Performance data													
Max. recommended door width, floor-mounted on one side	[m]	1,80			2,20			2,40			3,00		
Max. nominal flow rate	[m³/h]	3100	4200	5250	4200	5250	6300	5250	6300	7450	8500	11600	14500
Max. effective flow rate*	[m³/h]	2250	3000	3750	3200	4000	4800	3800	4550	5300	6500	8600	11000
Average air discharge speed*	m/s	9,0			14,2			15,6			9,4		
Sound pressure level at a distance of 3 metres to the sound source													
Max. operating level	dB(A)	57,0	58,0	60,0	58,0	60,0	62,0	60,0	61,0	62,0	62,0	63,0	64,0
Average operating level	dB(A)	46,6	47,6	49,6	47,6	49,6	51,6	50,7	51,7	52,7	52,7	53,7	54,7
Minimum operating level	dB(A)	36,6	37,6	39,6	37,6	39,6	41,6	40,7	41,7	42,7	42,7	43,7	44,7
Technical data of heater battery													
LTHW 70/50 at an air intake temperature of 20°C and air discharge temperature of 35°C													
Heat output	[kW]	12,3	16,5	20,6	17,6	21,9	26,3	20,8	25,0	29,1	35,7	47,2	60,3
Flow rate	[m³/h]	0,53	0,71	0,88	0,75	0,94	1,13	0,90	1,07	1,25	1,53	2,03	2,59
Water resistance	[kPa]	0,84	1,23	2,30	1,69	2,32	3,50	2,04	2,45	3,89	2,40	3,19	2,91
LTHW 70/50 at an air intake temperature of 18°C and air discharge temperature of 35°C													
Heat output	[kW]	14,0	18,6	23,3	19,9	24,9	29,8	23,6	28,3	32,9	40,4	53,5	68,4
Flow rate	[m³/h]	0,60	0,80	1,00	0,86	1,07	1,28	1,02	1,22	1,42	1,74	2,30	2,94
Water resistance	[kPa]	1,16	1,70	2,93	2,16	2,56	4,55	2,61	3,40	5,08	2,82	3,98	3,40
LTHW 70/50 at an air intake temperature of 15°C and air discharge temperature of 35°C													
Heat output	[kW]	16,5	21,9	27,4	23,4	29,3	35,1	27,8	33,3	38,8	47,5	62,9	80,4
Flow rate	[m³/h]	0,71	0,94	1,18	1,01	1,26	1,51	1,19	1,43	1,67	2,04	2,70	3,46
Water resistance	[kPa]	1,45	2,13	3,64	2,75	3,74	6,00	3,72	4,33	6,70	3,66	4,90	5,06
LTHW 60/40 at an air intake temperature of 20°C and max. air discharge temperature													
Heat output	[kW]	13,4	18,3	23,8	17,1	22,3	28,2	19,1	24,3	30,0	38,9	57,8	65,3
Air discharge temperature	[°C]	37,40	37,80	38,50	33,83	36,30	37,20	34,70	35,60	36,60	37,50	39,70	37,40
Flow rate	[m³/h]	0,6	0,8	1,0	0,9	1,0	1,2	0,8	1,1	1,3	1,7	2,5	2,8
Water resistance	[kPa]	1,15	1,73	3,33	2,50	2,46	4,49	2,15	2,86	5,05	2,96	4,83	3,61
LTHW 50/40 at an air intake temperature of 20°C and max. air discharge temperature													
Heat output	[kW]	12,2	16,4	21,0	15,6	20,1	24,9	17,6	22,0	26,7	34,6	50,2	57,8
Air discharge temperature	[°C]	35,90	36,00	36,30	34,24	34,70	35,20	33,50	34,12	34,70	35,50	37,00	35,40
Flow rate	[m³/h]	1,1	1,4	1,8	1,4	1,8	2,2	1,5	1,9	2,3	3,0	4,4	5,0
Water resistance	[kPa]	3,37	4,95	9,21	5,22	7,07	12,51	6,38	8,25	14,10	8,27	12,97	10,00
LTHW 50/30 at an air intake temperature of 20°C and max. air discharge temperature (NNT)													
Heat output	[kW]	12,2	15,2	19,4	16,0	19,2	23,6	18,2	21,1	25,5	On request		
Air discharge temperature	[°C]	35,90	34,81	35,20	34,70	34,00	34,40	34,00	33,60	34,00			
Flow rate	[m³/h]	0,5	0,7	0,8	0,7	0,8	1,0	0,8	0,9	1,1			
Water resistance	[kPa]	1,45	0,86	1,04	2,34	1,29	1,47	2,92	1,54	1,68			
LTHW 45/35 at an air intake temperature of 20°C and max. air discharge temperature (NNT)													
Heat output	[kW]	13,8	18,0	22,5	18,2	22,5	27,3	20,7	24,8	29,5	On request		
Air discharge temperature	[°C]	37,90	37,50	37,60	36,60	36,40	36,60	35,92	35,90	36,20			
Flow rate	[m³/h]	1,2	1,6	2,0	1,6	2,0	2,4	1,8	2,2	2,6			
Water resistance	[kPa]	6,04	3,91	4,58	9,84	5,82	6,44	12,38	6,93	7,36			
LTHW 40/30 at an air intake temperature of 20°C and max. air discharge temperature (NNT)													
Heat output	[kW]	10,0	12,9	16,2	13,1	16,1	19,6	14,9	17,8	21,2	On request		
Air discharge temperature	[°C]	33,00	32,50	32,60	32,00	31,80	31,90	31,50	31,40	31,70			
Flow rate	[m³/h]	0,9	1,1	1,4	1,1	1,4	1,7	1,3	1,5	1,8			
Water resistance	[kPa]	3,52	2,22	2,62	5,69	3,30	3,63	7,13	3,92	4,20			
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
Electrical heater battery (three-stage, 400V, 3 Ph, 50 Hz)													
Level 1	[kW]	6,0	6,0	9,0	6,0	6,0	9,0	6,0	12,0	12,0	12,0	12,0	12,0
Level 2	[kW]	8,0	12,0	15,0	12,0	18,0	18,0	18,0	18,0	24,0	24,0	24,0	24,0
Level 3	[kW]	14,0	18,0	24,0	18,0	24,0	27,0	24,0	30,0	36,0	36,0	36,0	36,0
Max. dt.	[K]	17,4	16,7	17,9	15,7	16,7	15,7	17,6	18,4	19,0	15,5	11,7	9,1

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