

SIMPLE COMMERCIAL

(door height up to 2,5 m)



motor
position:
LEFT
RIGHT

0,7m

0,8m

1,0m

motor
position:
MIDDLE

1,2m

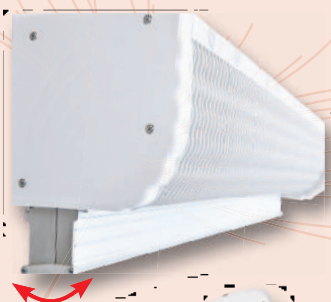
1,4m

1,6m

1,8m

2,0m

MAXIMUM DOOR WIDTH



Infrared
Remote
Control



Remote
Control

left or right motor side



- Energy Saving
- Barrier to Insects, Dust Odours, Pollutants & Humidity
- Slim Line Design
- Easy Installation
- Low Noise Level
- Motor position: Center, Left, Right

OPTIONAL

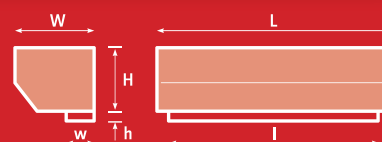
- Filter
- Vertical mount
- Door switch
- Inox body (430 stainless steel)

TECHNICAL DETAILS

TYPE	L or R-11w	L or R-12w	L or R-13w	K-14w	K-15w	K-16w	K-17w	K-18w
Max door width (m)	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0
Max door height (m)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0
Outlet velocity (m/sec)	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0	10.0 / 8.0
Max Air volume (m³/h)	1000 / 800	1150 / 900	1300 / 1050	1400 / 1100	1700 / 1350	2000 / 1600	2200 / 1800	2500 / 2000
Motor power input (W)	120	120	120	240	240	240	240	240
Capacitor (µF)	4	4	4	4	4	4	4	4
Noise level in 1 m [dB(A)]	54 / 45	54 / 45	54 / 45	60 / 53	60 / 53	60 / 53	61 / 55	61 / 55
DIMENSIONS	L: Total length (mm)	847	945	1045	1206	1406	1606	1806
	W: Total width (mm)	166	166	166	166	166	166	166
	H: Height (mm)	172	172	172	172	172	172	172
	l: Outlet length (mm)	700	800	900	1160	1360	1560	1760
	w: Outlet width (mm)	54	54	54	54	54	54	54
	h: Outlet height (mm)	64	64	64	64	64	64	64
Weight (kg)	8	9.5	11	15	17	19	22	24
Power supply (V/Hz/N-)	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1
Motor speed (rpm)	1300 / 900	1300 / 900	1300 / 900	1300 / 900	1300 / 900	1300 / 900	1300 / 900	1300 / 900
Ingress Protection	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20

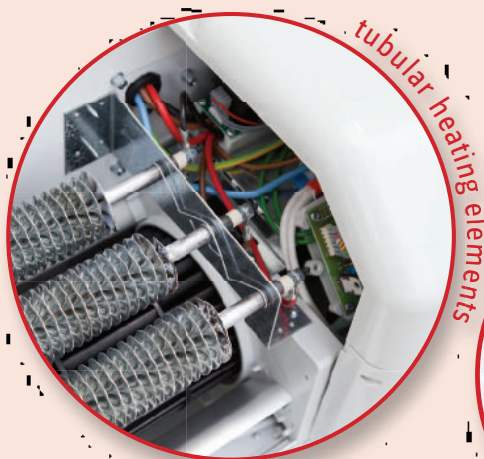


cross flow fan $\varnothing$ 100 diameter

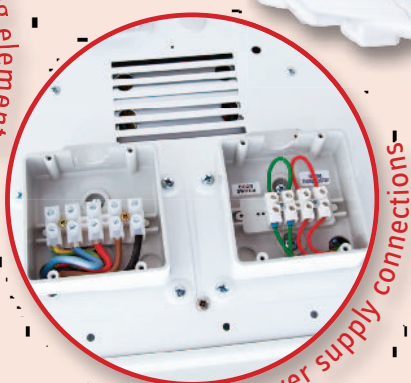


ELECTRICALLY HEATED COMMERCIAL

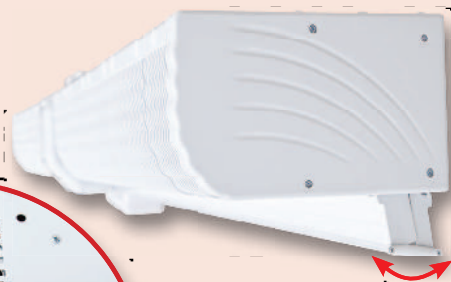
(door height up to 2,3 m)



tubular heating elements



power supply connections



motor position:
LEFT
RIGHT

1,0m

motor position:
MIDDLE

1,2m

1,4m

1,6m

1,8m

2,0m

MAXIMUM DOOR WIDTH

- Energy Saving
- Barrier to Insects, Dust Odours, Pollutants & Humidity
- Slim Line Design
- Easy Installation
- Low Noise Level
- 6, 9, 12 or 15 kW heating load (depending on models size)
- Motor position: Center, Left, Right

OPTIONAL

- Filter
- Vertical mount
- Door switch
- Room thermostat
- Inox body (430 stainless steel)



Infrared Remote Control

TECHNICAL DETAILS

TYPE	L or REH-13w	KEH-14w	KEH-15w	KEH-16w	KEH-17w	KEH-18w
Max door width (m)	1.0	1.2	1.4	1.6	1.8	2.0
Max door height (m)	2.3	2.3	2.3	2.3	2.3	2.3
Outlet velocity (m/sec)	9.0 / 7.0	9.0 / 7.0	9.0 / 7.0	9.0 / 7.0	9.0 / 7.0	9.0 / 7.0
Max Air volume (m³/h)	1150 / 900	1280 / 990	1500 / 1200	1750 / 1400	2000 / 1600	2300 / 1800
Motor power input (W)	120	240	240	240	240	240
Capacitor (µF)	4	4	4	4	4	4
Noise level in 1 m [dB(A)]	54 / 43	55 / 45	56 / 50	56 / 50	59 / 52	59 / 52
L: Total length (mm)	1100	1206	1406	1606	1806	2006
W: Total width (mm)	274	274	274	274	274	274
H: Height (mm)	172	172	172	172	172	172
l: Outlet length (mm)	900	1160	1360	1560	1760	1960
w: Outlet width (mm)	54	54	54	54	54	54
h: Outlet height (mm)	64	64	64	64	64	64
Weight (kgr)	21	24	27	30	33	37
Thermal power (kW)	6 / 9	9	9	12	12 / 15	12 / 15
Max current cons. (A)	9 / 13.5	13.5	13.5	18	18 / 22.5	18 / 22.5
T outlet - T inlet (°C)	20-26 / 28-36	28-36	27-35	25-33	16-21 / 20-25	16-21 / 20-25
Power supply (V/Hz/N-)	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3	400 / 50 / 3
Motor speed (rpm)	1310 / 1000	1310 / 1000	1310 / 1000	1310 / 1000	1310 / 1000	1310 / 1000
Heating stages	4	4	4	4	4	4
Ingress Protection	IP20	IP20	IP20	IP20	IP20	IP20



HOT WATER HEATED COMMERCIAL

(door height up to 2,3 m)



motor
position:
LEFT
RIGHT

1,0m

motor
position:
MIDDLE

1,2m

1,4m

1,6m

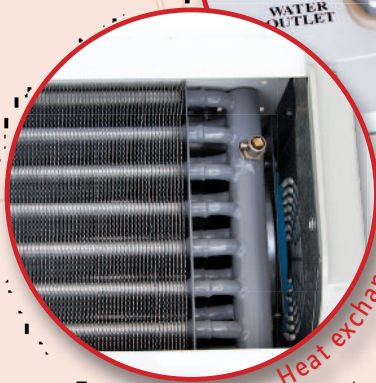
1,8m

2,0m

MAXIMUM DOOR WIDTH

- Energy Saving
- Barrier to Insects, Dust Odours, Pollutants & Humidity
- Slim Line Design
- Easy Installation
- Low Noise Level
- Water valve connections
- 1/2" water supply connection
- Motor position: Center, Left, Right

1/2" water supply connection



Heat exchanger

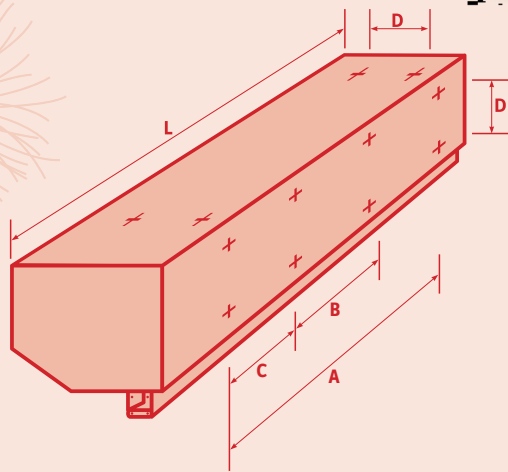
TECHNICAL DETAILS

TYPE	L or RWH-13w	KWH-14w	KWH-15w	KWH-16w	KWH-17w	KWH-18w
Max door width (m)	1.0	1.2	1.4	1.6	1.8	2.0
Max door height (m)	2.3	2.3	2.3	2.3	2.3	2.3
Outlet velocity (m/sec)	7.0 / 5.5	7.0 / 5.5	7.0 / 5.5	7.0 / 5.5	7.0 / 5.5	7.0 / 5.5
Max Air volume (m³/h)	900 / 710	1000 / 790	1200 / 950	1400 / 1100	1600 / 1250	1800 / 1400
Motor power input (W)	120	240	240	240	240	240
Capacitor (µF)	4	4	4	4	4	4
Capacity (lt)	0.73	0.75	0.91	1.0	1.24	1.4
Noise level in 1 m [dB(A)]	54 / 50	54 / 50	54 / 50	54 / 50	54 / 50	54 / 50
DIMENSIONS	L: Total length (mm)	1100	1206	1406	1606	1806
	W: Total width (mm)	274	274	274	274	274
	H: Height (mm)	172	172	172	172	172
	I: Outlet length (mm)	900	1160	1360	1560	1760
	w: Outlet width (mm)	54	54	54	54	54
	h: Outlet height (mm)	64	64	64	64	64
Weight without water (kg)	19	22	25	28	31	35
*Air Inlet Temperature +15°C		*Water Inlet Temperature +70°C		Flow rate 0.6 (lt/sec) [0.3 lt/sec for R,L]		
Heating power (kW)	8.4 / 7.3	9.3 / 8.0	11.1 / 9.6	13.0 / 11.2	14.8 / 12.7	16.6 / 14.2
Air outlet temperature (°C)	42.2 / 44.7	42.3 / 44.7	42.2 / 44.7	42.1 / 44.6	42.0 / 44.6	41.9 / 44.5
Water outlet temperature (°C)	63.2 / 64.1	66.2 / 66.8	65.5 / 66.1	63.7 / 65.5	64.0 / 64.8	63.8 / 64.2
Pressure drop (water) ΔP (kPa)	4.2	3.2	3.4	3.7	3.9	4.1
*Air Inlet Temperature +15°C		*Water Inlet Temperature +90°C		Flow rate 0.6 (lt/sec) [0.3 lt/sec for R,L]		
Heating power (kW)	11.6 / 10.0	12.8 / 11.0	15.3 / 13.2	17.8 / 15.4	20.3 / 17.5	22.8 / 19.5
Air outlet temperature (°C)	52.3 / 55.7	52.5 / 55.8	52.4 / 55.7	52.3 / 55.6	52.1 / 55.6	52.0 / 55.5
Water outlet temperature (°C)	80.5 / 81.8	84.8 / 85.5	83.7 / 84.6	82.7 / 83.7	81.7 / 82.9	80.7 / 82.0
Pressure drop (water) ΔP (kPa)	4.0	3.1	3.3	3.5	3.7	3.9

*FOR DIFFERENT WATER TEMPERATURES PLEASE
CONSULT CHAPTER "THERMAL LOAD CALCULATIONS"



COMMERCIAL SPECIFICATIONS



OPERATION WAYS

- ON-OFF / HI-LOW (*switces*) (**STANDARD**)
- ON-OFF / HI-LOW with wired remote control (*C.B*)
- ON-OFF / HI-LOW with infrared remote control (*I.R*)
- ON-OFF / HI-LOW
with wired + infrared remote control (*R.C*)
- New logic control system (*NL*)
- New eco control system (*ECO*)

MOUNTING DIMENSION TABLE

MODEL	A ±1mm	B mm	C mm	D mm	L ±1mm
R, L-11w	570	-	-	96	845
R, L-12w	670	-	-		945
R, L-13w	770	-	-		1045
R, LEH-13s	598	-	-		1100
R, LEH-13w	598	-	-	96	1206
K14 w	900	-	-	115	1406
KEH WH-14w	900	-	-	96	1606
K15 w	1000	-	-	115	1806
KEH WH-15w	1000	-	-	96	2006
K16 w	1100	-	-	115	
KEH WH-16w	1100	400	400	96	
K17 w	1200	400	450	115	
KEH WH-17w	1200	400	450	96	
K18 w	1300	400	450	115	
KEH WH-18w	1300	400	450	96	

DIAGRAMS OF HIGH-SPEED CHARACTERISTICS OF AIR CURTAINS

100mm FAN DIAMETER

SIMPLE AIR CURTAINS



0.0 m	10.0 m/sec
1.0 m	8.0 m/sec
2.0 m	4.0 m/sec
3.0 m	1.0-2.0 m/sec
4.0 m	
5.0 m	
6.0 m	
7.0 m	
8.0 m	

HEATED AIR CURTAINS



0.0 m	9.0 m/sec
1.0 m	7.5 m/sec
2.0 m	3.0 m/sec
3.0 m	1.0-2.0 m/sec
4.0 m	
5.0 m	
6.0 m	
7.0 m	
8.0 m	

FOR USE IN:

SMALL SHOPS, JEWELRIES, HAIRDRESSER SALOONS, HEALTH SPAS, BARS, CAFETERIAS, PASTRY SHOP, BREWERIES, SMALL HOTELS, BANKS, SCHOOLS, SUPER MARKETS, FOOD FACTORIES, MEAT FACTORIES, FISH MONGER SHOPS, SMALL COLD STORAGE PLANTS