



Duct electrical heater

EKH

for rectangular ducts

Use

- For warming up of supply air in heating, ventilation and air conditioning systems installed in various premises.
- Compatible with 400x200 up to 1000x500 mm rectangular air ducts.

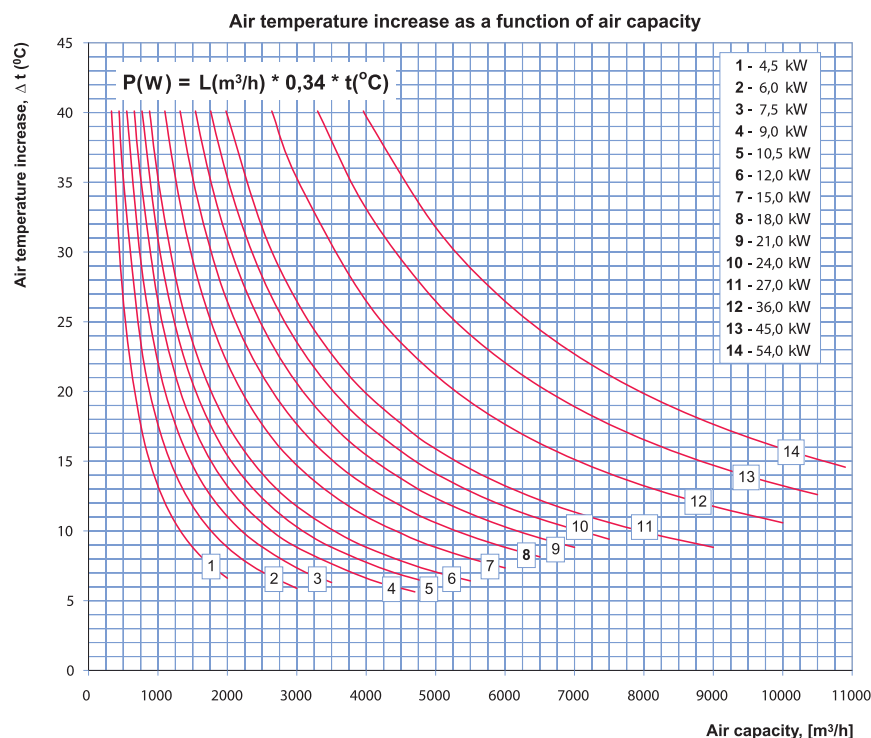
Design

- Galvanized steel case and junction box.
- Heating elements are made of stainless steel and have additional ribbing to increase heat exchange surface.
- Several power options for each standard size.
- For higher heating capacity several heaters may be installed in series.
- Equipped with overheat protection thermostats:
 - basic protection with automatic restart at +50 °C;
 - emergency protection with manual restart at +90 °C.

Mounting

- Fixing to rectangular ducts with flange connection.
- Any mounting position except for the junction box downwards to prevent condensate leakage and short circuit.
- Install a filter upstream to the heater to protect heating elements against dirt ingress.

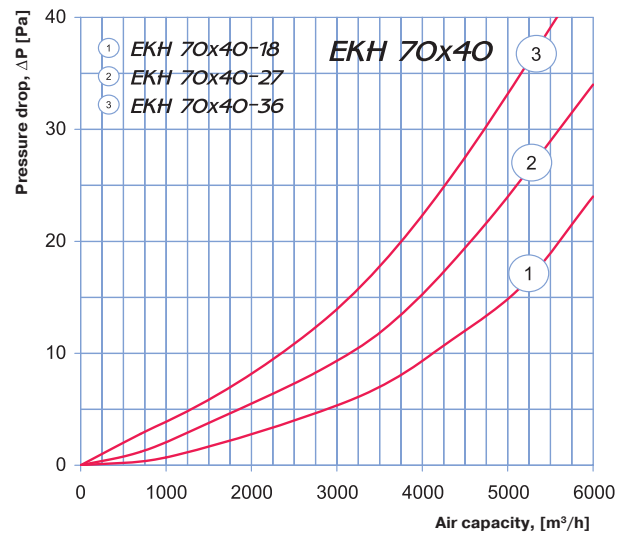
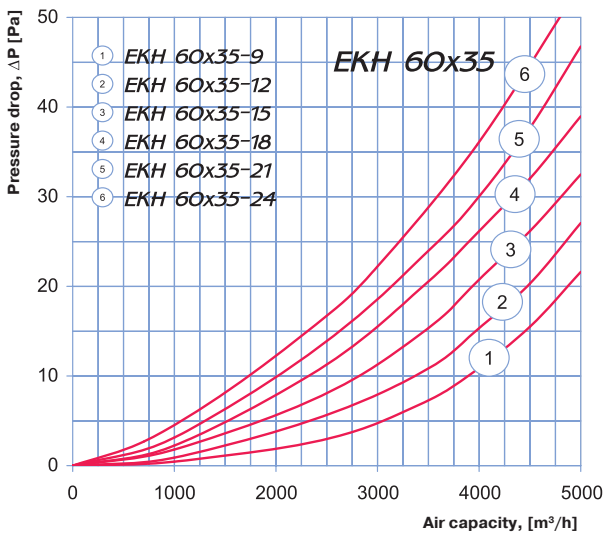
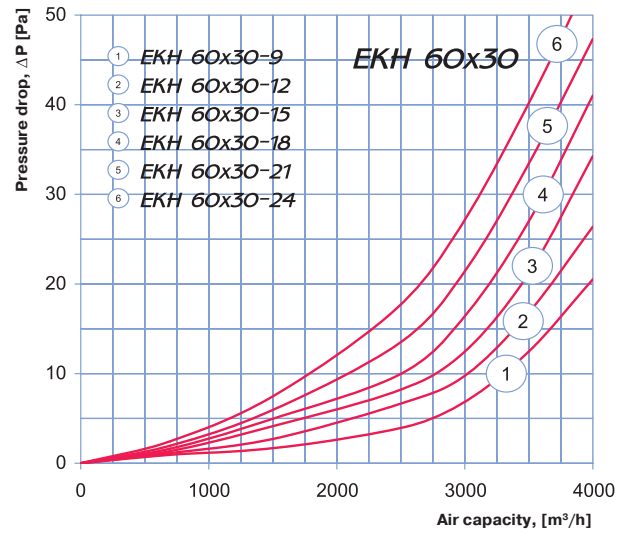
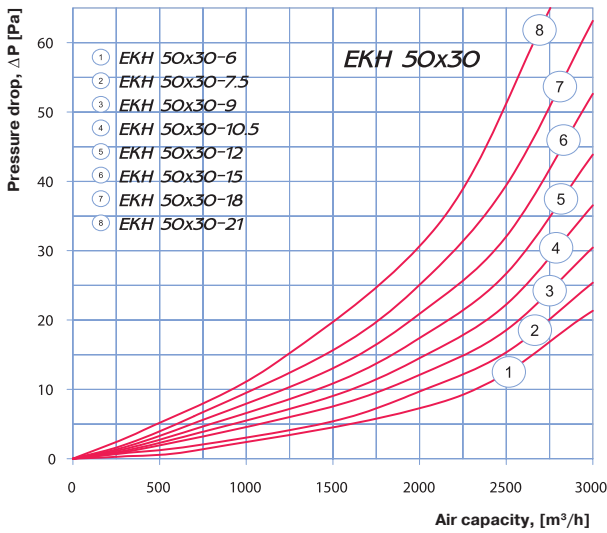
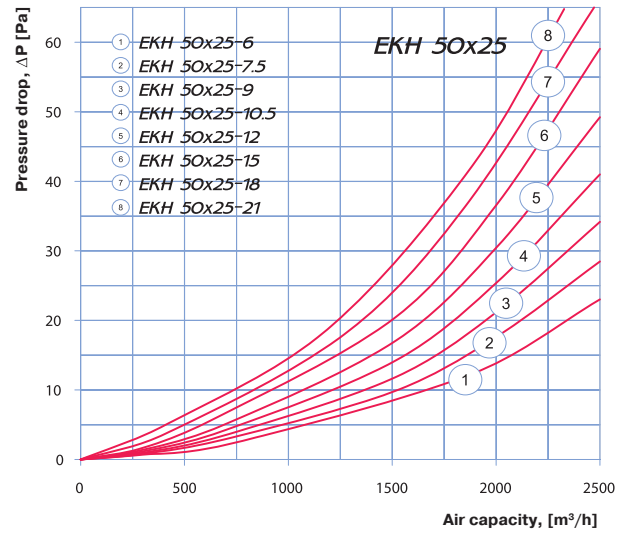
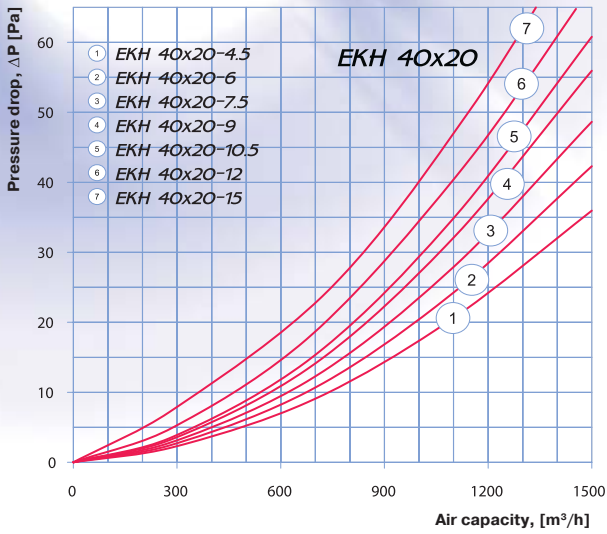
- Recommended distance between the heater and other system components must be not less than one air heater diagonal for air flow stabilization.
- Duct heaters are rated for minimum air flow speed 1.5 m/s and maximum operating air temperature supplied to the units 40 °C. In case of speed regulation with a speed controller the minimum air speed through the heater must be provided.
- For correct and safe heater operation an automatic control and protection system is recommended, including the following functions:
 - regulation of the heating capacity and temperature of the air heated up;
 - filter clogging control by a differential air pressure sensor;
 - power cut-off in case of the supply fan shutdown or low air flow speed as well as in case of actuating the overheat protection thermostats;
 - heat removal from the heating elements after ventilation system shutdown.



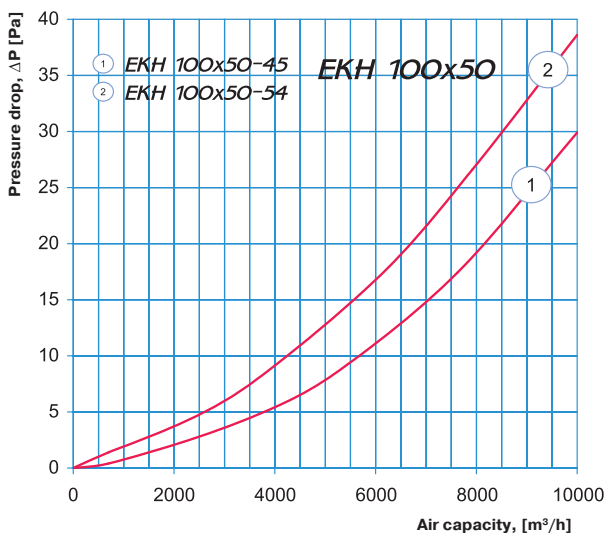
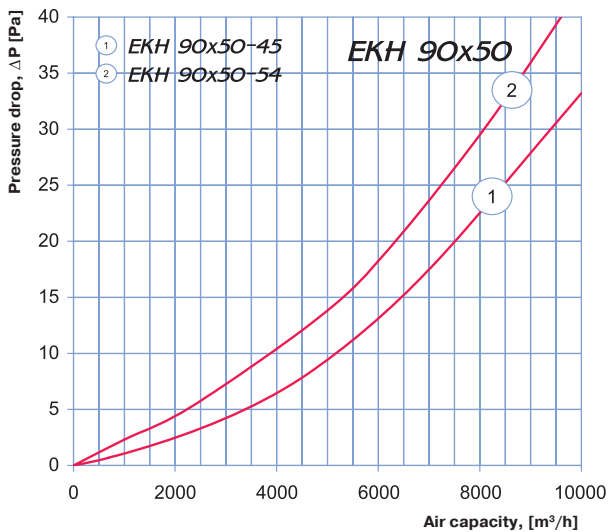
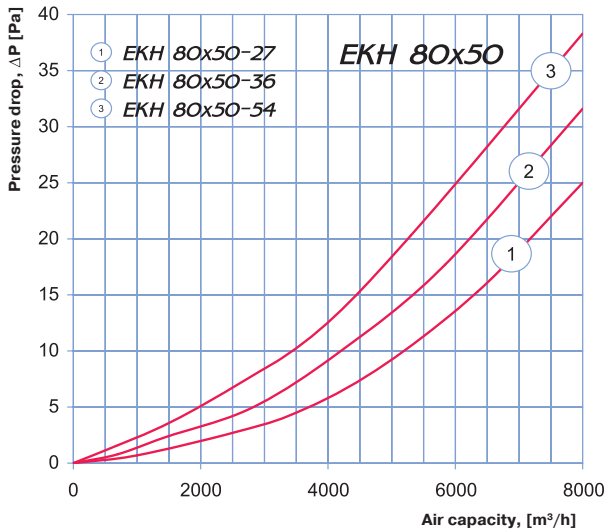
■ Specifications

Type	Minimum air capacity [m ³ /h]	Minimum current [A]	Voltage [V]	Power [kW]	Number of heating coils x capacity [kW]
EKH 40x20-4.5	330	6.5	400	4.5	3x1.5
EKH 40x20-6	440	8.7	400	6.0	3x2.0
EKH 40x20-7.5	550	10.9	400	7.5	3x2.5
EKH 40x20-9	660	13.0	400	9.0	3x3.0
EKH 40x20-10.5	770	15.2	400	10.5	3x3.5
EKH 40x20-12	880	17.4	400	12.0	3x4.0
EKH 40x20-15	1100	21.7	400	15.0	3x5.0
EKH 50x25-6	440	8.7	400	6.0	3x2.0
EKH 50x25-7.5	550	10.9	400	7.5	3x2.5
EKH 50x25-9	660	13.0	400	9.0	3x3.0
EKH 50x25-10.5	770	15.2	400	10.5	3x3.5
EKH 50x25-12	880	17.4	400	12.0	3x4.0
EKH 50x25-15	1100	21.7	400	15.0	3x5.0
EKH 50x25-18	1320	26.0	400	18.0	3x6.0
EKH 50x25-21	1540	30.0	400	21.0	3x7.0
EKH 50x30-6	440	8.7	400	6.0	3x2.0
EKH 50x30-7.5	550	10.9	400	7.5	3x2.5
EKH 50x30-9	660	13.0	400	9.0	3x3.0
EKH 50x30-10.5	770	15.2	400	10.5	3x3.5
EKH 50x30-12	880	17.4	400	12.0	3x4.0
EKH 50x30-15	1100	21.7	400	15.0	3x5.0
EKH 50x30-18	1320	26.0	400	18.0	3x6.0
EKH 50x30-21	1540	30.0	400	21.0	3x7.0
EKH 60x30-9	660	13.0	400	9.0	3x3.0
EKH 60x30-12	880	17.4	400	12.0	3x4.0
EKH 60x30-15	1100	21.7	400	15.0	3x5.0
EKH 60x30-18	1320	26.0	400	18.0	3x6.0
EKH 60x30-21	1540	30.0	400	21.0	3x7.0
EKH 60x30-24	1760	34.7	400	24.0	3x8.0
EKH 60x35-9	660	13.0	400	9.0	3x3.0
EKH 60x35-12	880	17.4	400	12.0	3x4.0
EKH 60x35-15	1100	21.7	400	15.0	3x5.0
EKH 60x35-18	1320	26.0	400	18.0	3x6.0
EKH 60x35-21	1540	30.0	400	21.0	3x7.0
EKH 60x35-24	1760	34.7	400	24.0	3x8.0
EKH 70x40-18	1320	26.0	400	18.0	6x3.0
EKH 70x40-27	1980	39.0	400	27.0	9x3.0
EKH 70x40-36	2640	52.0	400	36.0	12x3.0
EKH 80x50-27	1980	39.0	400	27.0	9x3.0
EKH 80x50-36	2640	52.0	400	36.0	12x3.0
EKH 80x50-54	3960	78.0	400	54.0	18x3.0
EKH 90x50-45	3300	65.0	400	45.0	15x3.0
EKH 90x50-54	3960	78.0	400	54.0	18x3.0
EKH 100x50-45	3300	65.0	400	45.0	15x3.0
EKH 100x50-54	3960	78.0	400	54.0	18x3.0

Specifications



Overall dimensions



Type	Dimensions [mm]								Weight [kg]
	B	B1	B2	B3	H	H1	H2	L	
EKH 40x20-4.5	400	420	440	540	200	220	240	200	6.5
EKH 40x20-6	400	420	440	540	200	220	240	200	6.5
EKH 40x20-7.5	400	420	440	540	200	220	240	200	6.5
EKH 40x20-9	400	420	440	540	200	220	240	200	6.5
EKH 40x20-10.5	400	420	440	540	200	220	240	200	6.5
EKH 40x20-12	400	420	440	540	200	220	240	200	6.5
EKH 40x20-15	400	420	440	540	200	220	240	200	6.5
EKH 50x25-6	500	520	540	640	250	270	290	200	7.65
EKH 50x25-7.5	500	520	540	640	250	270	290	200	7.65
EKH 50x25-9	500	520	540	640	250	270	290	200	7.65
EKH 50x25-10.5	500	520	540	640	250	270	290	200	7.65
EKH 50x25-12	500	520	540	640	250	270	290	200	7.65
EKH 50x25-15	500	520	540	640	250	270	290	200	7.65
EKH 50x25-18	500	520	540	640	250	270	290	200	7.65
EKH 50x25-21	500	520	540	640	250	270	290	200	7.65
EKH 50x30-6	500	520	540	640	300	320	340	200	8.2
EKH 50x30-7.5	500	520	540	640	300	320	340	200	8.2
EKH 50x30-9	500	520	540	640	300	320	340	200	8.2
EKH 50x30-10.5	500	520	540	640	300	320	340	200	8.2
EKH 50x30-12	500	520	540	640	300	320	340	200	8.2
EKH 50x30-15	500	520	540	640	300	320	340	200	8.2
EKH 50x30-18	500	520	540	640	300	320	340	200	8.2
EKH 50x30-21	500	520	540	640	300	320	340	200	8.2
EKH 60x30-9	600	620	640	740	300	320	340	200	9.4
EKH 60x30-12	600	620	640	740	300	320	340	200	9.4
EKH 60x30-15	600	620	640	740	300	320	340	200	9.4
EKH 60x30-18	600	620	640	740	300	320	340	200	9.4
EKH 60x30-21	600	620	640	740	300	320	340	200	9.4
EKH 60x30-24	600	620	640	740	300	320	340	200	9.4
EKH 60x35-9	600	620	640	740	350	370	390	200	9.75
EKH 60x35-12	600	620	640	740	350	370	390	200	9.75
EKH 60x35-15	600	620	640	740	350	370	390	200	9.75
EKH 60x35-18	600	620	640	740	350	370	390	200	9.75
EKH 60x35-21	600	620	640	740	350	370	390	200	9.75
EKH 60x35-24	600	620	640	740	350	370	390	200	9.75
EKH 70x40-18	700	720	740	840	400	420	440	390	14
EKH 70x40-27	700	720	740	840	400	420	440	510	18.5
EKH 70x40-36	700	720	740	840	400	420	440	750	25
EKH 80x50-27	800	820	840	940	500	520	540	390	19
EKH 80x50-36	800	820	840	940	500	520	540	510	23.5
EKH 80x50-54	800	820	840	940	500	520	540	750	30
EKH 90x50-45	900	920	940	1040	500	520	540	750	31
EKH 90x50-54	900	920	940	1040	500	520	540	750	33.5
EKH 100x50-45	1000	1020	1040	1140	500	520	540	750	33
EKH 100x50-54	1000	1020	1040	1140	500	520	540	750	36

