DAIKIN

Παγκόσμιος Ηγέτης στο **Ιδανικό** Κλίμα.



Μονάδες Fan Coil

ΚΛΙΜΑΜΗΧΑΝΙΚΗ

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CE

Natural symbiosis with heat pumps

By running on low temperature, Daikin Altherma heat pump convectors naturally fit with Daikin heat pumps. The heat pump convector range is made of 3 models:

1. Floor standing model with indoor air quality control (optional)
2. Wall mounted model with remote control
3. Concealed model hidden in the ceiling or wall



Daikin Altherma HPC Floor standing model



The floor standing heat pump convector impresses with its low sound operations, and its slim design that received the RedDot Award 2020. Next to heating and cooling, the unit can also provide indoor air quality control.

Why Indoor Air Quality Matters

Indoor Air Quality (IAQ) refers to the air quality in a building or structure, breathed in every day by the building's occupants.

When planning new residential buildings, schools, offices or light commercial buildings, many things must be considered. Besides structural factors, there are also the topics of heating, cooling and something often neglected: indoor air quality.

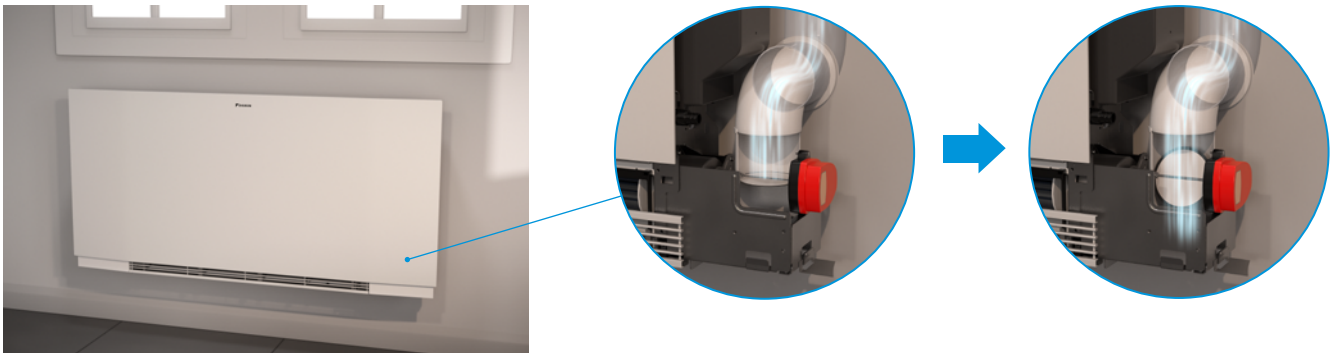
Did you know that the indoor air we breathe, whether at home, at the office, or in a hotel room could in fact be much more polluted than the air outside?

- 90% of our lives is spent indoors
- Indoor air quality can be 2 to 5 times worse than outdoor air quality because of pollutants, such as pollen, bacteria, etc.



How does Daikin Altherma HPC ensure a healthy and comfortable indoor air quality?

When a pollutant level of indoor air is reached, the IAQ sensor opens a damper, which allows fresh air to come in. The incoming fresh air is immediately heated or cooled (depending on the demand) by the heat pump convector. In this way the indoor air remains of good quality while comfort is ensured.

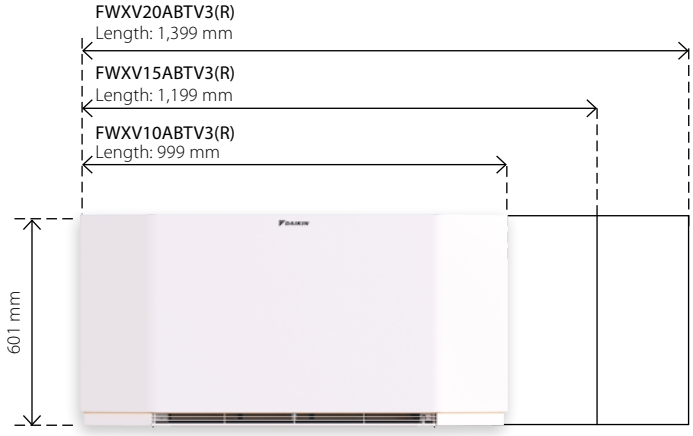




Slim design

reddot winner 2020

The floor standing Daikin Altherma HPC has a depth of only 135 mm that fits any house or apartment. Its optimised design was rewarded with the Reddot Design Award 2020.



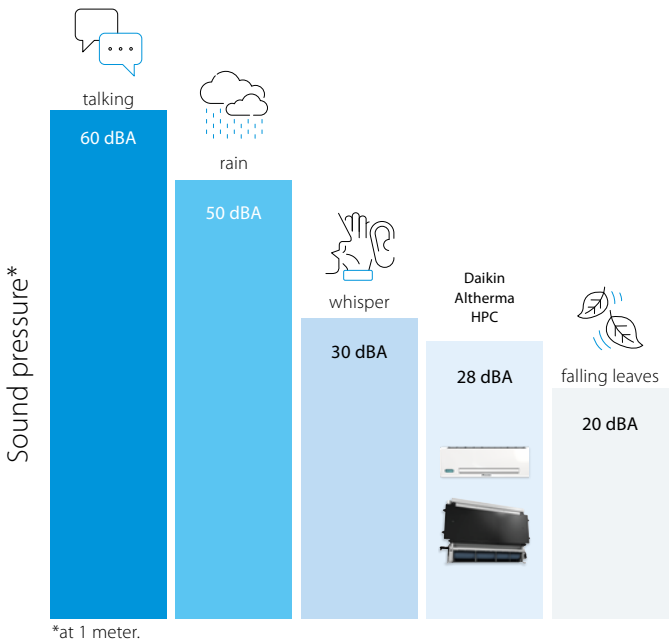
Fast and high capacity

The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling faster and can be set at ultra-low temperatures (35/30 °C regime).



Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. For the wall mounted and concealed units, the sound pressure measures 25dB(A) at 1m when the fan is on low-speed setting. Even lower sound pressure in super-silent mode (night mode).



*at 1 meter.

Controls

Daikin offers a wide variety of controllers that are functional and have a great design.

EKRTCTRL1



- Built-in controller
- Fully modulating
- Multicolor display

EKRTCTRL2



- Built-in controller
- 4 speed settings

EKWHCTRL1



- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

EKPCBO



- Built-in controller
- ON/OFF
- In combination with external thermostats

EKWHCTRL1A



- Wall controller
- Fully modulating
- In combination with EKWHCTRL0
- Includes indoor air quality sensor

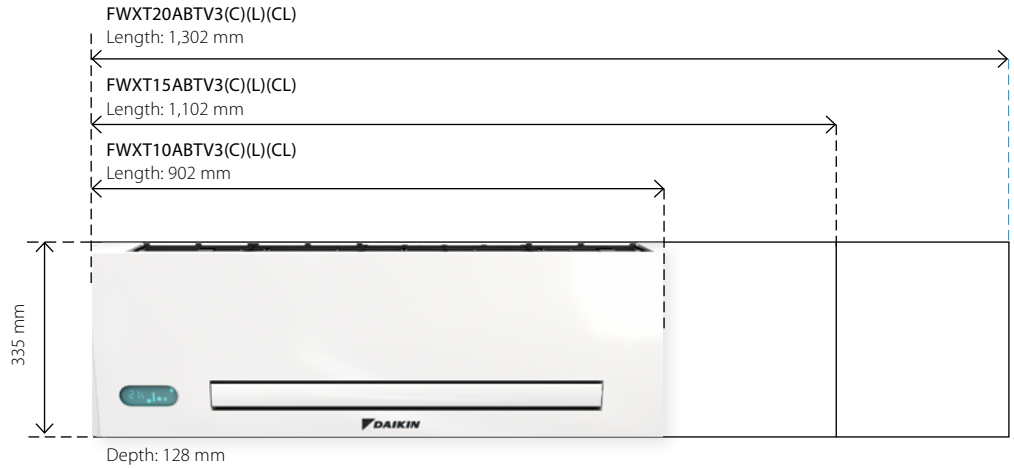


Wall-mounted model

Thanks to its slim design, our wall-mounted unit blends in with your interior discreetly while helping you save valuable floor space.

Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves.



Controls

Choice of:
- Fully modulating controller allowing for remote control of the unit.
- Infrared remote controller and on-board touch panel.

EKWHCTRL1



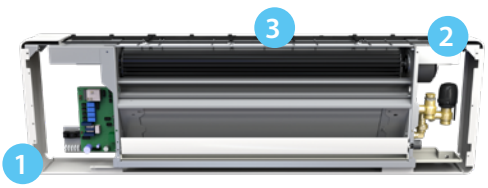
- Wall controller
- Fully modulating
- For models FWXT-ABTV3(L)

Infrared remote controller



- Remote
- Fully modulating
- For models FWXT-ABTV3C(L)

Compactness



1 Slim depth
The depth of 128 mm is an outstanding technical achievement that ensures a perfect fit in any home.

2 More space for valves
Ease of installation: the space for hydraulic valves is wide and easily accessible.

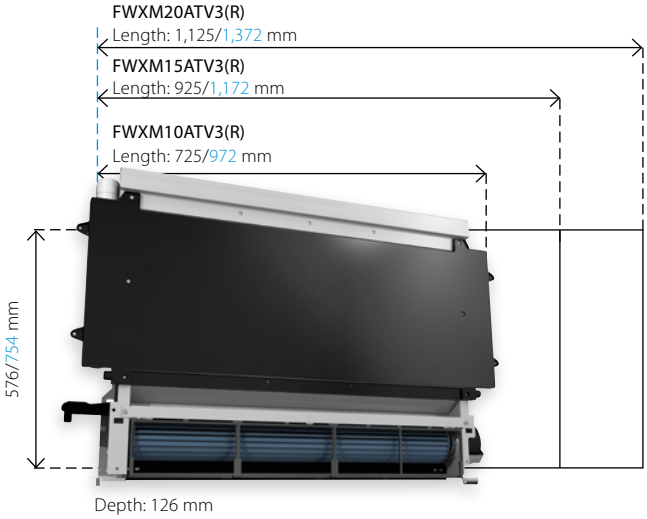
3 Modulated airflow
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound.



Concealed model

Forget about your heating or cooling installation altogether: our concealed model vanishes into the wall or ceiling for visual comfort while preserving its unique heating and cooling capabilities.

Slim design



Blue dimensions are for the front cover.

Controls

EKWHCTRL1



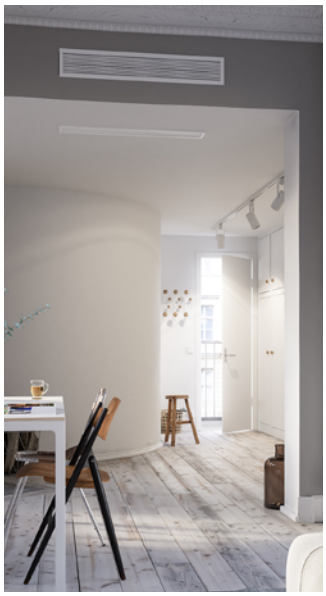
- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

Flexible installation

Daikin Altherma HPC can be installed in four different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in-ceiling installation, three different possibilities are offered:

- Horizontal cover panel and vertical grille for air outlet
- Horizontal intake grille and vertical grille for air outlet
- Horizontal intake and outlet grilles





Floor standing Heat pump convector

The optimised cooling and heating combination of efficiency, comfort and flexibility

- High heating/cooling capacity through forced convection
- Sound pressure 25 dB(A) at 1m
- Pipe connection on the left hand side
- Pipe connection on the right hand side
- Optimized for combination with heat pumps, flow T (°C) down to 35 °C in heating mode
- Thanks to an optional CO_2 sensor, fresh air is supplied in the room when CO_2 levels are above threshold



FWXV-ABTV3

FWXV-ATV3 FWXV-ATV3R

Indoor Unit					FWXV	10ABTV3	10ABTV3R	15ABTV3	15ABTV3R	20ABTV3	20ABTV3R
Cooling capacity	7/12°C	Min./Med./Max.		kW		0.78/1.11/1.62		1.10/1.65/2.64		1.13/1.98/2.99	
Sensible cooling capacity	7/12°C	Min./Med./Max.		kW		0.58/0.71/1.25		0.82/1.15/1.91		0.85/1.55/2.33	
Heating capacity	45/40°C	Min./Med./Max.		kW		0.87/1.27/1.96		1.12/1.83/2.86		1.11/2.32/3.50	
Power input	Min./Med./Max.			W		6.00/10.00/19	6.00/10.00/19.00	7.00/13.00/25	7.00/13.00/25.00	8.00/15.00/31	8.00/15.00/31.00
Fan speed	Min./Med./Max.			rpm		720.00/1,220.00/1,700.00					
Casing	Material					Sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm		601x999x135		601x1,199x135		601x1,399x135	
	Packed unit	HeightxWidthxDepth		mm		690x1,230x210		690x1,430x210		690x1,630x210	
Weight	Unit			kg		20		23		26	
	Packed unit			kg		21		24		27	
Packing	Material					Carton					
	Weight			kg		1					
Heat exchanger	Quantity					1					
	Internal coil volume			l		0.8		1.1		1.5	
	Charging	Operating pressure		bar		10					
Water circuit	Piping connections diameter			in xinch		3/4					
	Piping material					COPPER					
Water circuit - water pressure drop	Heating	45/40°C	Min./Med./Max.	kPa		7.00/8.00/11.00		9.00/14.00/23.00		8.00/15.00/22.00	
	Cooling	7/12°C	Min./Med./Max.	kPa		7.00/8.00/11.00		9.00/14.00/23.00		8.00/15.00/22.00	
Water circuit - water flow rate	Heating	45/40°C	Min./Med./Max.	kg/h		150.00/220.00/340.00		200.00/320.00/500.00		190.00/400.00/610.00	
	Cooling	7/12°C	Min./Med./Max.	kg/h		130.00/190.00/280.00		190.00/280.00/450.00		190.00/340.00/510.00	
Water circuit	Pressure	Heating	Max.	bar		10					
Sound power level	Min./Med./Max.			dBA		40/47/56.0		42/49/57.0		43/50/58.0	
Operation range	Heating	Water side	Min.~Max.	°C		30~85					
	Cooling	Water side	Min.~Max.	°C		5~18					
	Indoor installation	Ambient	Min.~Max.	°CDB		0~45					
Control systems	Infrared remote control					No					
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230					
Electrical power consumption	Max./Standby			W		19/3		25/4		31/5	
Current	Maximum running current	Cooling/Heating		A		0.15/0.15		0.21/0.21		0.27/0.27	

Wall mounted Heat pump convector

The optimised cooling and heating combination of efficiency, comfort and flexibility

- High heating/cooling capacity through forced convection
- Pipe connection on the right and left hand side
- Optimized for combination with heat pumps, flow T (°C) down to 35 °C in heating mode
- Wall mounted indoor unit
- The unit is equipped with a control display that works with an infrared remote controller



FWXT-ATV3C

FWXT-ATV3 FWXT-ATV3C FWXT-ATV3L FWXT-ATV3CL

Indoor Unit					FWXT	10ABTV(L)(C)(CL)	15ABTV3(L)(C)(CL)	20ABTV3(L)(C)(CL)
Cooling capacity	7/12°C	Min./Med./Max.			kW	0.49/0.88/1.24	0.62/1.08/1.61	0.70/1.21/1.94
Sensible cooling capacity	7/12°C	Min./Med./Max.			kW	0.37/0.70/0.98	0.52/0.86/1.27	0.57/1.02/1.52
Heating capacity	45/40°C	Min./Med./Max.			kW	0.55/1.00/1.50	0.79/1.36/2.01	0.74/1.55/2.13
Power input	Min./Med./Max.				W	5.00/8.00/19.00	5.00/9.00/20.00	5.00/10.00/29.00
Fan speed	Min./Med./Max.				rpm	680.00/1,100.00/1,500.00		
Casing	Material					Sheet metal		
Dimensions	Unit	HeightxWidthxDepth			mm	335x902x128	335x1,102x128	335x1,302x128
	Packed unit	HeightxWidthxDepth			mm	490x1,030x210	490x1,230x210	490x1,430x210
Weight	Unit				kg	14.0	16.0	19.0
	Packed unit				kg	15	17	20
Packing	Material					Carton		
	Weight				kg	1		
Heat exchanger	Quantity					1		
	Internal coil volume				l	0.5	0.61	0.77
	Charging	Operating pressure			bar	10		
Water circuit	inch				inch xin	3/4		
	Piping material					COPPER		
Water circuit - water pressure drop	Heating	45/40°C	Min./Med./Max.		kPa	5.10/12.00/16.30	4.81/6.30/7.20	6.00/6.40/8.10
	Cooling	7/12°C	Min./Med./Max.		kPa	4.80/10.50/11.70	4.70/5.60/5.10	5.50/5.40/5.30
Water circuit - water flow rate	Heating	45/40°C	Min./Med./Max.		kg/h	100.00/170.00/260.00	140/240/350	150.00/300.00/420.00
	Cooling	7/12°C	Min./Med./Max.		kg/h	80.00/150.00/210.00	110/190/280	120.00/210.00/330.00
Water circuit	Pressure	Heating	Max.		bar	10		
Sound power level	Min./Med./Max.				dBA	35/46/53.0	36/47/54.0	37/48/55.0
Operation range	Heating	Water side	Min.~Max.		°C	30~85		
	Cooling	Water side	Min.~Max.		°C	5~18		
	Indoor installation	Ambient	Min.~Max.		°CDB	0~45		
Control systems	Infrared remote control					For FWXT-ATV3(C)(CL)		
Power supply	Phase/Hz/V				Hz/V	1~/50/230		
Electrical power consumption	W/W				W	19/3	20/4	29/5
Current	Maximum running current	A/A			A	0.16/0.16	0.18/0.18	0.24/0.24

Concealed ceiling Heat pump convector

The optimised cooling and heating combination of efficiency, comfort and flexibility

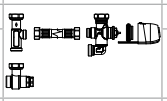
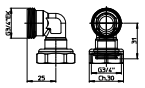
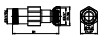
- High heating/cooling capacity through forced convection
- Full modulation fan control
- Optimized for combination with heat pumps, flow T (°C) down to 35 °C in heating mode
- Blends unobtrusively with any interior décor: only the suction and discharge grills are visible



FWXM-ATV3

FWXM-ATV3 FWXM-ATV3R

Indoor Unit				FWXM	10ATV3	10ATV3R	15ATV3	15ATV3R	20ATV3	20ATV3R
Cooling capacity	7/12°C	Min./Med./Max.		kW	0.75/1.36/2.12		1.15/2.08/2.81		1.32/2.39/3.30	
Sensible cooling capacity	7/12°C	Min./Med./Max.		kW	0.59/1.04/1.54		0.83/1.51/2.11		1.02/1.84/2.65	
Heating capacity	45/40°C	Min./Med./Max.		kW	0.82/1.53/2.21		1.20/2.16/3.02		1.47/2.59/3.81	
Power input	Min./Med./Max.			W	4.00/8.00/19.00		6.00/11.00/20.00		5.00/11.00/29.00	
Fan speed	Min./Med./Max.			rpm	680.00/1,100.00/1,500.00					
Casing	Material				No casing					
Dimensions	Unit	HeightxWidthxDepth		mm	576x725x126		576x925x126		576x1,125x126	
	Packed unit	HeightxWidthxDepth		mm	690x830x210		690x1,030x210		690x1,230x210	
Weight	Unit			kg	12.0		15.0		18.0	
	Packed unit			kg	13		16		19	
Packing	Material				Carton					
	Weight			kg	1					
Heat exchanger	Quantity				1					
	Internal coil volume			l	0.8		1.13		1.46	
	Charging	Operating pressure		bar	10					
Water circuit	Piping connections diameter			inch	3/4					
	Piping material				COPPER					
Water circuit - water pressure drop	Heating	45/40°C	Min./Med./Max.	kPa	1.50/4.30/9.20		2.70/9.30/19.10		3.00/8.90/21.20	
	Cooling	7/12°C	Min./Med./Max.	kPa	1.90/4.30/8.20		2.70/9.90/17.10		2.50/8.80/18.00	
Water circuit - water flow rate	Heating	45/40°C	Min./Med./Max.	kg/h	140.00/270.00/390.00		210.00/380.00/530.00		260.00/450.00/660.00	
	Cooling	7/12°C	Min./Med./Max.	kg/h	130.00/230.00/360.00		200.00/360.00/480.00		230.00/410.00/570.00	
Water circuit	Pressure	Heating	Max.	bar	10					
Sound power level	Min./Med./Max.			dBA	35/45/53.0		36/46/54.0		36/47/55.0	
Operation range	Heating	Water side	Min.~Max.	°C	30~85					
	Cooling	Water side	Min.~Max.	°C	5~18					
	Indoor installation	Ambient	Min.~Max.	°CDB	0~45					
Control systems	Infrared remote control				No					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230					
Electrical power consumption	Max./Standby			W	19/3		20/4		29/5	
Current	Maximum running current	Cooling/Heating		A	0.16/0.16		0.18/0.18		0.26/0.26	

							
			FWXV10ABTV3(R)	FWXT10ABTV3(C)(L)(CL)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
			FWXV15ABTV3(R)	FWXT15ABTV3(C)(L)(CL)			
			FWXV20ABTV3(R)	FWXT20ABTV3(C)(L)(CL)			
Description	**Picture**	**Material name**					
On-board electronic control SMART TOUCH with PID full modulating fan and thermostat		EKRTCTRL1	•				
On-board electronic control SMART TOUCH 4 speeds with thermostat		EKRTCTRL2	•				
On-board 4 speeds control switch to be combined with Daikin compatibe thermostats		EKPCBO	•		•	•	•
On board 4 speeds control box to be combine with 4 speed thermostats		EKPCB4S	•		•	•	•
On board 1-10V control box to be combine with 1-10V thermostats		EKPCB10	•		•	•	•
On-board controller for EKWHCTRL1		EKWHCTRL0	•		•	•	•
SMART LCD wall controller with temperature probe, white casing		EKWHCTRL1	•	• (excl. FWXT-ABTV3(C/CL)	•	•	•
SMART LCD wall controller with temperature probe, white casing, including indoor air quality sensor		EKWHCTRL1A	•				
IR remote control				Standard (only FWXT-ABTV3(C/CL))			
Fresh air damper kit		EKFCD80	•				
Aesthetical feet		EKFA	•				
Motorised 2-way valve (FWXV/M)		EK2VK0	•		•	•	•
Motorised 2-way valve (FWXT)		EKT2VK0		•			
Motorised 3-way valve (FWXV/M)		EK3VK1	•		•	•	•
Motorised 3-way valve (FWXT)		EKT3VK1		•			
L-bow 90 °C		EKEUR90	•		•	•	•
Extension piece		EKDIST	•		•	•	•
Condensate collector tray for horizontal installation		EKM10COH	•				
		EKM15COH	•				
		EKM20COH	•				
Metal casing		EKM10CS			•		
		EKM15CS				•	
		EKM20CS					•
Front cover for ceiling installation		EKM10CH			•		
		EKM15CH				•	
		EKM20CH					•
Front cover for wall installation		EKM10CV			•		
		EKM15CV				•	
		EKM20CV					•
Air intake fitting		EKM10DH			•		
		EKM15DH				•	
		EKM20DH					•
90 °C exhaust bend (Horizontal)		EKM10D90			•		
		EKM15D90				•	
		EKM20D90					•
Telescopic air flow duct		EKM10DT			•		
		EKM15DT				•	
		EKM20DT					•
Aluminum air intake grille with straight airflow		EKM10IS			•		
		EKM15IS				•	
		EKM20IS					•
Straight airflow vent		EKM10SV			•		
		EKM15SV				•	
		EKM20SV					•
Aluminum air intake grille with curved airflow		EKM10IC			•		
		EKM15IC				•	
		EKM20IC					•
Aluminum air outlet grille with curved airflow		EKM10CA			•		
		EKM15CA				•	
		EKM20CA					•