

Commercial air purification & ventilation

2025 **NEW**

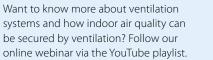






Commercial Ventilation & Air Purification

ERV / HRV - Energy/Heat recovery	
ventilation units	567
 Why choose Daikin ventilation VAM-FC9/J8 Electrical heater for VAM EKVDX - DX coil for air processing VKM-GBM ALB-S Compact L Smart Electrical heater for Compact L Smart ATB-S Compact T Smart Marketing Tools Supporting tool, software and apps Daikin air handling units with DX connection ERA-AV/AY/AYF 	568 570 571 572 574 576 577 578 580 581 584 590
Commercial air purifier	594
 Advantages BR00000554/676/749/751 - AAF Astropure 2000 	594 595
Options & accessories	596





563

Why Indoor Air Quality? We spend 90% of our time indoors in closed spaces But did you know that the indoor air can be up to such as schools, buildings, offices, etc. 2-5 times worse than the air outside? Due to growing urbanization and high insulation of the buildings, Sources of indoor air pollution are more common than we think. pollutants get trapped inside leading to poor indoor air quality VOCs released from cleaning products, furniture, or even from new causing moisture increase and other health issues. building materials can linger inside. Pollution from the outside released from vehicles, etc. can also be a potential source of indoor air pollution. Poor IAQ is linked to respiratory short-term issues like allergies, asthma, Opening windows could also lead to ingress of pollutants and and also in the long term to diseases such as respiratory infections, and substantial energy losses. Moreover, many situations linked to security, cardiovascular disease. The risk is greatest for the elderly and young acoustic, outside pollution, etc... do not allow to make use of them.

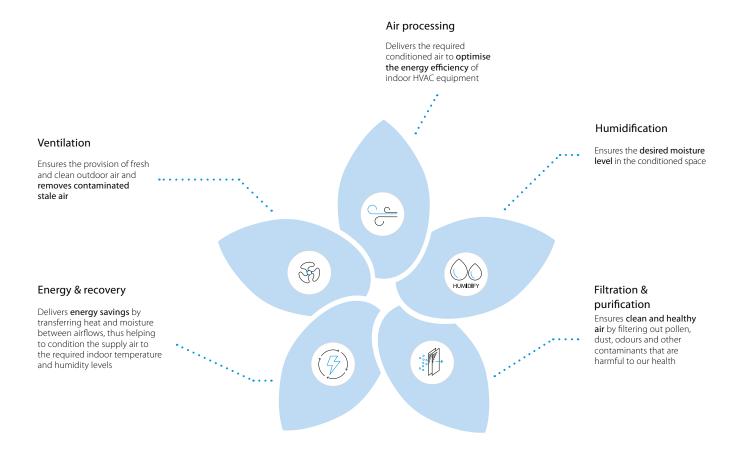
The solution? A combination of various components such as ventilation, air processing, filtration & air purification can contribute to better indoor air quality.

children who tend to spend more time indoors



Watch our indoor air quality video on YouTube to learn more about sources and consequences of poor air quality.

5 components for ensuring good indoor air quality



Ventilation

Ventilation systems ensure optimal climate conditions by providing a fresh, healthy and comfortable environment for buildings of all sizes and applications. When a room is enclosed, air cannot easily enter or leave, allowing airborne pollutants to remain and accumulate within

the space. This concentration could have an impact on the health of the room's occupants.

Ventilation is essential for diluting and removing these pollutants.

A well-maintained ventilation system and adequate air-exchange rate have been demonstrated to be an effective solution to protect people from contaminants, including viruses.



Widest range of DX integrated ventilation on the market

Daikin offers a variety of solutions from small energy recovery ventilation to large-scale air handling units for the provision of fresh air ventilation for commercial premises.



Unique portfolio within DX manufacturers that can easily be integrated into any project



Seamless integration of all products to provide the best indoor climate



High-quality solutions complying with the highest Daikin quality standards



All Daikin products connected to a single controller for **complete control** of the HVAC system

Energy Recovery Ventilation

Our energy recovery units **recover sensible energy** (Compact L/ Compact T) or **total (sensible + latent) energy** (VAM/EKVDX/VKM-GBM), substantially reducing the load on the air conditioning system up to 40%.

Ventilation with DX connection - Control over fresh air temperature

Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.

Products overview

500 1,000 2.000 2.500 3.500 Superior IAQ level: up to three stage filtration on supply side DX coil integration for a unique Daikin fresh air package Plug&Play control solution, for a quick and easy start-up Compact T High efficiency counterflow heat exchanger VDI 6022 Compliant Compact design for false ceiling installation **Decentralised systems** Compact L Compact size High energy efficient paper recovering sensible and latent heat EC fan motors Filter clogging alarm based on pressure VAM-FC9 / VAM-J 150 m³/h up to 2,000 m³/h DX coil for post-treatment of fresh air Split up concept increases application flexibility Integrates both in R-32 and R-410A VRV systems VAM + DX coil 500 m³/h up to 2,000 m³/h • With DX coil for post-treated fresh air Increased comfort Humidifier option 500 m³/h up to 1,000 m³/h VKM-GBM Fully customizable Daikin Digital Plug & Play Control as option With DX or water coil option D-AHU PROFESSIONAL 750 m³/h up to 144,000 m³/h Centralised systems High efficiency aluminium plate heat exchanger Pre-configured sizes Plug & Play controls With DX or water coil option D-AHU Modular P Rotary heat exchanger (sorption and sensible technology) Pre-configured sizes Plug & Play controls With DX or water coil option D-AHU Modular R

5 reasons why Daikin's ventilation range is unique in the market



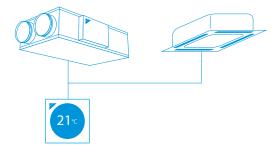
Market leading controls & connectivity

- Interlock of ventilation and air conditioning system
 - Control ERV/HRV and air conditioning from the same controller
 - Aligns the operation mode between the systems to save energy
- Easy integration in the total solution
 - Online control and monitoring via the Daikin Cloud Service
 - Full portfolio integration in the intelligent Touch Manager, Daikin's cost-effective mini BMS
- User-friendly controller with premium design
 - Intuitive touch button control

















Unique installation benefits

- Integrates seamlessly in the Daikin total solution, ensuring a single point of contact
- Total fresh air solution with Daikin supplying the VAM/Compact L Smart, Compact T and the electrical heater
- Daikin AHU and condensing unit connect Plug & Play thanks to same pipe diameters, factory mounted controls, expansion valves, etc.







High energy efficiency

- Energy recovery of up to 92%, reducing running costs
- Free nighttime cooling using fresh outside air
- Inverter driven centrifugal fans
- ErP compliant





Best comfort

- Wide range of units to control fresh air and humidity
- Wide range of optional filters to suit the application available up to ePM, 80% (F9)
- Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)



Top reliability

- Most extensive testing before new units leave the factory
- Widest support network and after sales service
- All spare parts available in Europe



Did you know?

CO₂ levels and ventilation rates all have significant, independent impacts on cognitive function:

Please refer to our dedicate page on Indoor Air Quality for more information.



Cognitive function scores ...



+ 61% in green building conditions

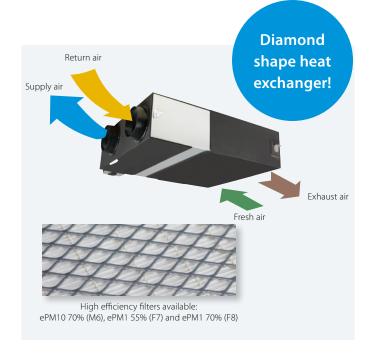


+ 101% in enhanced green building conditions

Energy recovery ventilation

Ventilation with heat recovery as standard

- Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO₂ sensor (J-series)
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- Can be used as stand alone or integrated in the Sky Air or VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m³/h
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- No drain piping needed
- Can create under/over-pressure conditions in the served room
- Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters
- VAM-J8 series are connectable to EKVDX DX coil for air processing
- Possibility of CO₂ concentration when combining VAM-J8 with optional BRYMA CO, sensor and Madoka remote controller (with or without EKVDX)









B A	VAM-FC

Ventilation			VA	M/VAM	150FC9	250FC9	350J8	500J8	650J8	800J8	1000J8	1500J8	2000J8
Power input - 50Hz	Heat exchange	Nom.	Ultra high/High/Low	/ kW	0.132/0.111/	0.161/0.079/	0.097/0.070/	0.164/0.113/	0.247/0.173/	0.303/0.212/	0.416/0.307/	0.548/0.384/	0.833/0.614/
	mode				0.058	0.064	0.039	0.054	0.081	0.103	0.137	0.191	0.273
	Bypass	Nom.	Ultra high/High/Low	/ kW	0.132/0.111/	0.161/0.079/	0.085/0.061/		0.195/0.131/	0.289/0.194/		0.525/0.350/	
	mode				0.058	0.064	0.031	0.045	0.059	0.086	0.119	0.156	0.239
Temperature	Ultra high	/High/Low	<i>l</i>	%		74.9(1)/69.5(2)/	85.1/86.7/	80.0/82.5/	84.3/86.4/	82.5/84.2/	79.6/81.8/	83.2/84.8/	79.6/81.8/
exchange efficiency - 50Hz					82.8(1)/73.2(2)	76.0(1)/70.0(2)/ 80.1(1)/72.0(2)	90.1	87.6	90.5	87.7	86.1	88.1	86.1
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high	h/High/Low	%	60.3(1)/61.9(1)/ 67.3(1)	60.3(1)/61.2(1)/ 64.5(1)	65.2/67.9/ 74.6	59.2/61.8/ 69.5	59.2/63.8/ 73.1	67.7/70.7/ 76.8	62.6/66.4/ 74.0	68.9/71.8/ 77.5	62.6/66.4/ 74.0
	Heating	Ultra high	n/High/Low	%	66.6(1)/67.9(1)/ 72.4(1)	66.6(1)/67.4(1)/ 70.7(1)	75.5/77.6/ 82.0	69.0/72.2/ 78.7	73.1/76.3/ 82.7	72.8/75.3/ 80.2	68.6/71.7/ 77.9	73.8/76.1/ 80.8	68.6/71.7/ 77.9
Operation mode							Heat exc	hange mod	le, bypass m	ode, fresh-	up mode		
Heat exchange syst	em					Ai	to air cross	flow total h	eat (sensib	le + latent h	eat) exchan	ige	
Heat exchange eler	ment						Spe	cially proce	ssed non-fla	ammable pa	aper		
Dimensions	Unit	HeightxV	VidthxDepth	mm	285x7	76x525	301x1,1	13x886	368x1,354x920	368x1,3	54x1,172	731x1,35	54x1,172
Weight	Unit			kg	24	4.0	46	5.5	61.5	79	9.0	15	57
Casing	Material							Galva	anised steel	plate			
Fan	Air flow rate - 50Hz		ge Ultra high/High/ Low	m³/h	150/140/105	250/230/155	350(1)/300(1)/ 200(1)	500(1)/425(1)/ 275(1)	650(1)/550(1)/ 350(1)	800(1)/680(1)/ 440(1)	1,000(1)/850(1)/ 550(1)	1,500(1)/1,275(1)/ 825(1)	2,000(1)/1,700(1)/ 1,100(1)
		Bypass mode	Ultra high/High/ Low	m³/h	150/140/105	250/230/155	350(1)/300(1)/ 200(1)	500(1)/425(1)/ 275(1)	650(1)/550(1)/ 350(1)	800(1)/680(1)/ 440(1)	1,000(1)/850(1)/ 550(1)	1,500(1)/1,275(1)/ 825(1)	2,000(1)/1,700(1)/ 1,100(1)
	External static pressure - 50Hz		n/High/Low	Pa	90/87/40	70/63/25	90(1)/70.0/50.0(1)						
Air filter	Туре				Multidirection	al fibrous fleeces			Multidirecti	onal fibrous	fleeces (G3	3)	
Sound pressure level - 50Hz	Heat exchange mode	Ultra high	n/High/Low	dBA	27.0/26.0/ 20.5	28.0/26.0/ 21.0	34.5(1)/32.0(1)/ 29.0(1)	37.5(1)/35.0(1)/ 30.5(1)	39.0(1)/36.0(1)/ 31.0(1)	39.0(1)/36.0(1)/ 30.5(1)	42.0(1)/38.5(1)/ 32.5(1)	42.0(1)/39.0(1)/ 33.5(1)	45.0(1)/41.5(1)/ 36.0(1)
	Bypass mode	Ultra high	n/High/Low	dBA	27.0/26.5/ 20.5	28.0/27.0/ 21.0	34.5(1)/32.0(1)/ 28.0(1)	38.0(1)/35.0(1)/ 29.5(1)	38.0(1)/34.5(1)/ 30.5(1)	40.0(1)/36.5(1)/ 30.5(1)	42.5(1)/40.0(1)/ 32.5(1)	42.0(1)/39.0(1)/ 32.5(1)	45.0(1)/41.0(1)/ 35.0(1)
Operation range	Around ur	nit		°CDB		-		, , ,	0°C~40°	CDB, 80% R	H or less	, , , ,	
Connection duct di	ameter			mm	100	150	20	00		250		2x2	250
Power supply	Phase/Fre	quency/Vo	oltage	Hz/V				1~; 50)/60; 220-24	0/220			
Current	Maximum	fuse amps	s (MFA)	Α	15	5.0				16.0			
Specific energy	Cold clima			kWh/(m².a)	-56.0(5)	-60.5(5)				-			
consumption (SEC)	Average c	limate		kWh/(m².a)	-22.1(5)	-27.0(5)				-			
	Warm clim	nate		kWh/(m².a)	-0.100(5)	-5.30(5)				-			
SEC class					D / See note 5	B / See note 5				-			
Maximum flow rate				m³/h	130	207				-			
at 100 Pa ESP	Electric po	wer input		W	129	160		,		-			
Sound power level				dB	40	43	51	54	5	8	61	62	65
Annual electricity of				kWh/a	18.9(5)	13.6(5)				-			
Annual heating	Cold clima			kWh/a	41.0(5)	40.6(5)				-			
saved	Average c			kWh/a	80.2(5)	79.4(5)				-			
	Warm clim	nate		kWh/a	18.5(5)	18.4(5)				-			

B

Electrical heater for VAM

- Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting with adjustable setpoint
- Increased safety with 2 cut-outs: manual & automatic





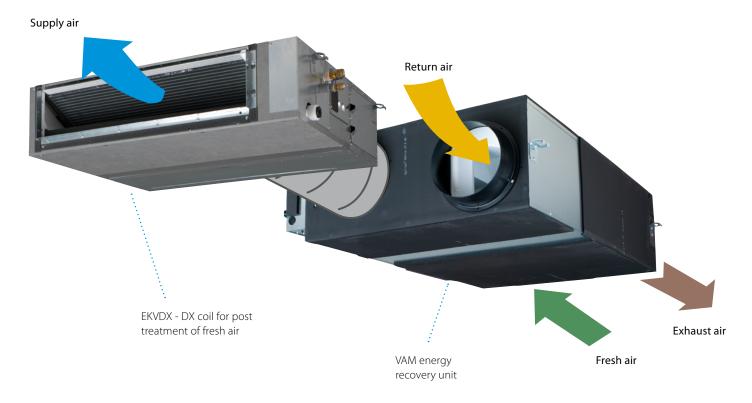
GSIEKA

	GSIEKA	10009	15018	20024	25030	35530 ⁽¹⁾
Capacity	kW	0.9	1.8	2.4	3.0	3.0
Duct diameter	mm	100	150	200	250	355
Connectable VAM		VAM150FC9	VAM250FC9	VAM350,500J8	VAM650J8, VAM800J8, VAM1000J8	VAM1500J8, VAM2000J8
		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530

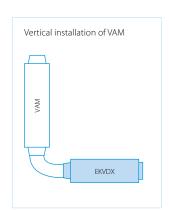
				GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530		
Dimensions		Height	mm	171	221	271	321	426		
		Depth	mm	100	150	200	250	355		
		Width	mm	370	370	370	370	373		
Minimum air velocity / airflow			m/s							
			m³/h	45	100	170	265	535		
Power supply				1~230 VAC/50Hz						
Nominal current			Α	A 4.1 8.2 10.9 13.1						
Heating power			kW	0.9	1.8	2.4	3.0	3.0		
Connection duct diameter			mm	100	150	200	250	355		
Operation range		Min.	°C	-40°C						
-		Max.	°C	40°C						
		Rel. Humidity	%	90%						
Temperature sensor					10	kΩ at +25°C / TJ-K1	0K			
Temperature sensor range						- 30°C to 105°C				
Temperature set point range						- 10°C to 50°C				
LED indicators	LED 1	flashing every 5 se	econds	heater is starting up						
		flashing every sec	ond		air flow	detected, heating	allowed			
		OFF			noı	oower supply or no	flow			
		ON		problem with	duct temperature	sensor, set point po	tentiometer or PTC	airflow sensor		
	LED 2	OFF			h	eater is not operatii	ng			
		ON		heater is operating						
Ambient temperature adjacent	to controller			0°C to +50°C						
Auto high temperature cut-out	outo high temperature cut-out				50°C					
Manual reset high temperature	cut-out					100°C				

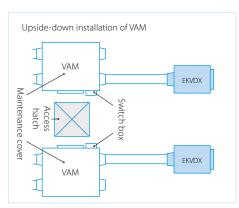
EKVDX-A

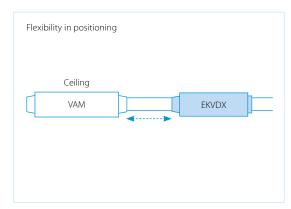
DX coil for post treatment of fresh air



- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Different installation possibilities to suit the application







- Fresh air flows from 500 up to 2,000 m³/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems
- Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

DX coil for air processing

Post heating or cooling of fresh air to lower the load on the air conditioning system

- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Maximum installation flexibility thanks to separate DX coil
- Wide range of units covering fresh air flows of 500 up to 2,000 m³/h
- High ESP up to 150 Pa
- Can be integrated in both R-32/R-410A VRV systems





EKVDX-A

					EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A		
Power input - 50Hz	Cooling	Nom.		kW	0.035	0.035	0.035	0.035		
	Heating	Nom.		kW	0.035	0.035	0.035	0.035		
Casing	Material					Galvanised	d steel plate			
Insulation material						Opcell and ant	i-sweat material			
Dimensions	Unit	Height		mm		2	50			
		Width		mm	550	700	1,000	1,400		
		Depth		mm		8	09			
Weight	Unit			kg	19	23.4	30.1	37.7		
Operation range	Around u	nit		°CDB		10°C~40°CDB,	80% RH or less			
	On coil	Cooling	Max.	°CDB		:	35			
	temperatur	^e Heating	Min.	°CDB			11			
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm		1:	2.7			
	Drain					VP20 (I.D. 20/O.D. 26)	, drain height 625 mm			
Refrigerant	Type					R410	A/R32			
	GWP					2,087	7.5/675			
Heat exchange syst	tem				Direct expansion					
Power supply	Phase				single phase					
	Frequenc	у		Hz	50/60					
	Voltage			V		220-2	40/220			

Possible Combina VAMJ8 + EKDVX	ation				EKVDX32A + VAM500J8	EKVDX50A + VAM650J8	EKVDX50A + VAM800J8	EKVDX80A + VAM1000J8	EKVDX100A + VAM1500J8	EKVDX100A + VAM2000J8
Cooling capacity	Total (VAM	l+DX coil)	At ultra high fan speed	kW	5.1	7.1	8.6	9.3	15.4	18.4
	DX coil		At ultra high fan speed	kW	3.4	4.8	5.5	5.7	9.5	11.2
			At high fan speed	kW	2.7	4.1	4.4	4.5	8.8	9.2
Heating capacity	Total (VAM+DX coil) DX coil		At ultra high fan speed	kW	6.7	8.5	11	11.9	18.7	22.9
			At ultra high fan speed	kW	4.2	5.1	6.9	7	10.8	13
			At high fan speed	kW	3.6	4.6	5.8	6.3	9.6	11.7
Fan Air flow	Air flow	Heat exchange	Ultra high	m³/h	500	650	800	1,000	1,500	2,000
	rate -		High	m³/h	425	550	680	850	1,275	1,700
	50Hz	Bypass	Ultra high	m³/h	500	650	800	1,000	1,500	2,000
		mode	High	m³/h	425	550	680	850	1,275	1,700
	External static	Maximum		Pa	81.9	73.0	133.7	106.0	153.6	92.1
	pressure -	Ultra high		Pa	51.9	43.0	23.7	26.0	43.6	12.1
	50Hz	High		Pa	39.0	33.9	19.4	21.4	35.1	11.9
Sound pressure	Cooling		Ultra high	dBA	32	34	35.5	40.5	38.5	43.5
level - 50Hz			High	dBA	30.5	32	34	38	37	40
	Heating		Ultra high	dBA	32.5	34.5	36	40.5	39	44
			High	dBA	31.5	32	34	38.5	37	40.5
Current	Maximum	fuse amps ((MFA)	Α	6	6	6	6	16	16

The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

Energy recovery ventilation, humidification and air processing

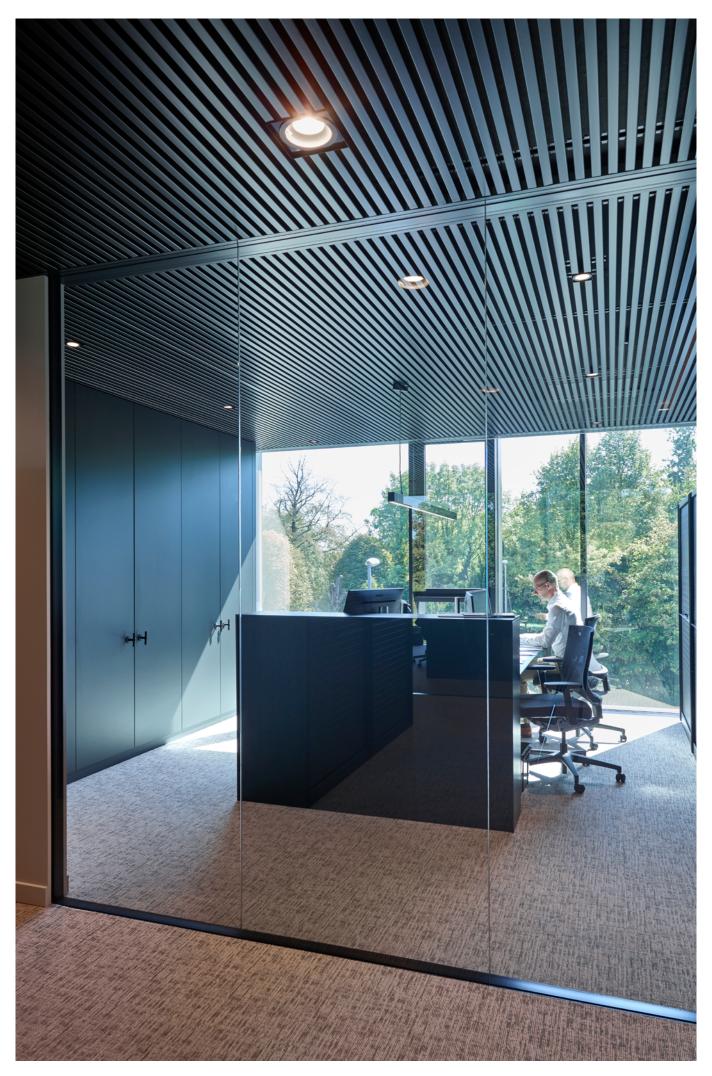
Post heating or cooling of fresh air for lower load on the air conditioning system

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Low energy consumption thanks to DC fan motor
- Prevent energy losses from over-ventilation while improving indoor air quality with optional CO₂ sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- Can operate in over- and under pressure





Ventilation			VKI	и-двм	50GBM	80GBM	100GBM		
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230		
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230		
Fresh air	Cooling			kW	4.71/1.91/3.5	7.46/2.96/5.6	9.12/3.52/7.0		
conditioning load	Heating			kW	5.58/2.38/3.5	8.79/3.79/5.6	10.69/4.39/7.0		
Temperature exchange efficiency - 50Hz	Ultra high/High/	Low		%	76/76/77.5	78/78/79	74/74/76.5		
Enthalpy exchange	Cooling	Ultra high	/High/Low	%	64/64/67	66/66/68	62/62/66		
efficiency - 50Hz	Heating	Ultra high	/High/Low	%	67/67/69	71/71/73	65/65/69		
Operation mode					Heat exch	nange mode / Bypass mode / Fresh-	up mode		
Heat exchange sys	tem				Air to air cross	flow total heat (sensible + latent he	eat) exchange		
Heat exchange ele	ment				Spe	cially processed non-flammable pa	per		
Humidifier	System								
Dimensions	Unit	HeightxW	/idthxDepth	mm	387x1,764x832	4x1,214			
Weight	Unit			kg	100	119	123		
Casing	Material								
Fan-Air flow rate	Heat exchange mode	Ultra high	/High/Low	m³/h	500/500/440	750/750/640	950/950/820		
- 50Hz	Bypass mode	Ultra high	/High/Low	m³/h	500/500/440	750/750/640	950/950/820		
Fan-External static pressure - 50Hz	Ultra high/High/	Low		Pa	200/150/120	205/155/105	110/70/60		
Air filter	Туре				Multidirectional fibrous fleeces				
Sound pressure	Heat exchange mode	Ultra high	/High/Low	dBA	38/36/34	40/37.5/35.5	40/38/35.5		
level - 50Hz	Bypass mode	Ultra high	/High/Low	dBA	39/36/34.5	41/38/36	41/39/35.5		
Operation range	Around unit			°CDB		0°C~40°CDB, 80% RH or less			
	Supply air			°CDB		-15°C~40°CDB, 80% RH or less			
	Return air			°CDB		0°C~40°CDB, 80% RH or less			
	On coil temperature	Cooling/Max	x./Heating/Min.	°CDB		-15/43			
Refrigerant	Control					Electronic expansion valve			
	Туре					R-410A			
	GWP					2,087.5			
Connection duct d	iameter			mm	200	25	0		
Piping connections	Liquid	OD		mm		6.35			
	Gas	OD		mm		12.7			
	Water supply			mm	6.4				
Drain				PT3/4 external thread					
Power supply	Phase/Frequence	y/Voltage		Hz/V	1~/50/220-240				
Current	Maximum fuse a	mps (MFA)		Α		15			



Compact L Smart

Premium efficiency heat recovery unit

Highlights

- Connects Plug&Play into the Sky Air and VRV control network
- Easy installation and commissioning
- Internal pre-filter stage (up to ePM1 50% (F7) + ePM1 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m³/h to 4,000m³/h
- Exceeding ErP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m³/h)
- 50 mm double skin panel for a maximum sound and thermal insulation

EC centrifugal fan

- Maximum ESP available 600 Pa (depending on model sizes and airflow)
- Inverter driven with IE4 premium efficiency motor
- High-efficient blade profiling
- Reduced energy consumption
- Optimized SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

- Premium quality counter flow plate heat exchanger
- Up to 91% of the thermal energy recovered
- High grade aluminum allowing optimum corrosion protection





For integration with Applied systems, please refer to the Compact L, in the AHU chapter

D-AHU Compact L Smar	t		ALB02*C* (1)	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*	
Airflow	Nominal	m³/h	300	600	1,200	1,500	2,500	3,000	
Electrical supply Phase ph 1									
	Frequency	Hz	50/60						
Voltage V 220/240									
	Ampere	Α		16					
Main unit dimensions	Width	mm	920	920 1,100 1,600			2,0	2,000	
	Height	mm	280	350 415		50	500		
	Length	mm	1,660	1,800		2,0	000		
Weight unit	Net weight	kg	115	170	255	265	310	320	
	Gross weight	kg	125	180	270	280	325	335	
Duct dimensions		mm	250	400	500	500	700	700	
		mm	150	200	300	300	400	400	

(1) ALB02*C* refers to all configuration available for Compact L size 02 (Smart or Pro version and right or left handing) Please refer to Databook or Astra selection software for more details.

Height (mm)

Electrical heater for Compact L Smart

- Total solution for fresh air with Daikin supply of both Compact L Smart and electrical heaters
- Increase comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy





Electrical heater for Compact L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB				
Capacity kW	1.5	3	7.5	15				
Connectable Compact L Smart size	02	03	04, 05	06, 07				
Supply voltage	230\	/,1ph	400\	V,3ph				
Output current (maximum) (A)	6.6	13.1	10.9	21.7				
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms at -20 °C 10k ohms at +10 °C	17k ohms at -20 °C 10k ohms at +10 °C	18k ohms at -20 °C 10k ohms at +10 °C				
Temperature control range	- 20 °C to 10 °C							
Control fuse	Mini Circuit Breaker 6 A							
LED indicators		Yellow = A Red = H						
Mounting holes		Depends o	n duct size					
Maximum ambient adjacent to terminal box		30°C (during	g operation)					
Auto high temperature cutout		75°C P	re-set					
Manual reset high temperature cutout		120°C F	Pre-set					
Width (mm)	470	620	720	920				
Depth (mm)	370	370	370	370				

443

Compact T Smart

Top connected Air Handling Unit

Highlights

- Duct connections are located at the top, reducing the unit's footprint
- Low power consumption and low SFP (Specific Fan Power) for a very efficient unit operation
- Superior IAQ level: up to three stage filtration on supply side (more than the 90% of PM1 is removed from outdoor air)
- Plug&Play control solution, for a quick and easy start-up
- Very compact unit, starting from 550 mm width, for an air flow up to $1{,}100~\text{m}^3\text{/h}$

IAQ matters

An excellent IAQ improves people's performance and well-being, and decreases risk factors for various diseases. Compact T satisfies the ventilation and filtration needs of the indoor environment, guaranteeing an outstanding level of IAQ.

The future of ventilation

The Compact T, with its unique features, represents the latest product developed by Daikin for fresh air treatment and not only. Thanks to its optimized design, it can be easily transported and installed into new projects or existing buildings.



D-AHU Compact T Smar	t		ATB03*B* (1)	ATB04*B*	ATB05*B*	ATB06*B*	ATB07*B*				
Airflow	Nominal	m³/h	800	1,650	2,300	2,700	3,900				
Electrical supply	Phase	ph	1								
	Frequency	Hz	1z 50								
	Voltage	V	V 230								
	Max internal fuse	Α	16								
Main unit dimensions	Width	mm	550			890					
	Height	mm	1,6	000	1,900	1,850	2,050				
	Length (2)	mm	1,580	1,650	2,170	2,620	2,950				
Duct dimensions		mm	250	315	355	400	500				
Weight unit	Net weight	kg	185	230	370	475	580				
	Gross weight	kg	195	240	390	505	610				

 $^{(1) \} ATB03*B*\ refers\ to\ all\ configuration\ available\ for\ Compact\ T\ size\ 03\ (Smart\ or\ Pro\ version\ and\ right\ or\ left\ handing)$

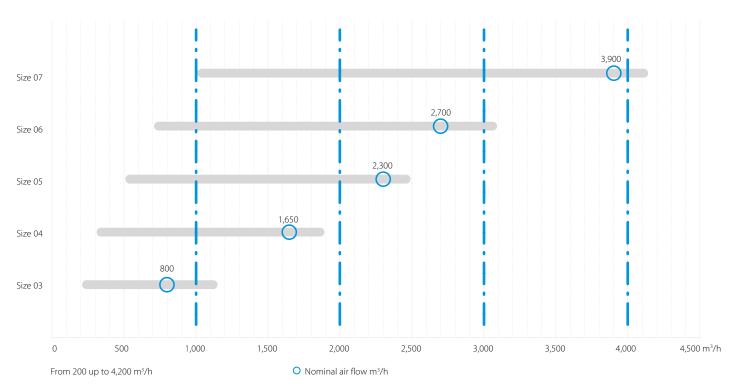
⁽²⁾ Size 05 is provided in two sections while Size 06 and 07 are provided in three sections.

Air flow range

Compact T is available in 5 sizes covering a wide range of applications such as hotels, offices, schools, gyms and light commercial buildings.

Sectioning

To ensure an easy and quick installation Compact T size 05 will be provided in two sections, while size 06 and 07 in three sections to pass smoothly through standard doors¹.



1. Please refer to technical data table for more details

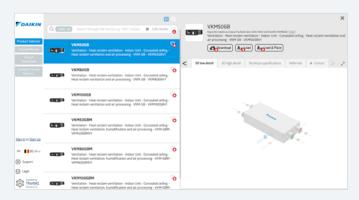


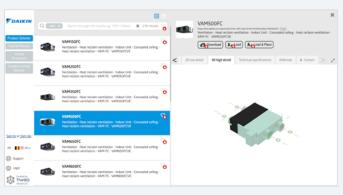
Marketing tools

- Watch the explanation of VAM range, its USPs from our Indoor Air Quality Seminar www.youtube.com/daikineurope
- Watch the Compact T promotional video: www.youtube.com/daikineurope
- Download our brochure on Commercial Ventilation from my.daikin.eu
- Get access to our selection tool bim.daikin.eu to find your ventilation unit in a few click.
- Consult the "Argue Card" document to support in promoting
- the Compact L and Compact T range (available on request)

BIM models

• Get the VAM, Compact L and T BIM tools on bim.daikin.eu





Benefits for the installer

Plug and play design

- Pre-programmed and factory-tested controls for an easier and fast commissioning
- Lightweight, low height and small footprint units
- Easy access for servicing

Benefits for the consultant

Quick selection tool

- In-house developed web software with improved user interface and preset parameters ensure that you can always find the optimum and most energy efficient product for your application
- Interconnection with other product groups (e.g. automatic introduction of ventilation selection into a VRV Web Xpress selection)
- Extremely flexible design

BIM models

 BIM models are available and can be downloaded with just a few clicks

Benefits for the end user

Best comfort

- Wide range of units to control fresh air and humidity
- Wide range of optional filters to suit the application available up to ePM1 80% (F9)
- Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)

Easy control and visualization

- Wide and easy functionality with the use of Madoka remote controllers
- Possibility to visualize the CO₂ concentration (with combination of VAM-J8 unit/BRYMA sensor/Madoka remote controller)

Supporting tools, software and apps

Web based selection tools dedicated to the Daikin ventilation portfolio

Ventilation Web Xpress

Selection tool for ventilation devices (VAM (+EKVDX) and VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting:

- Easy calculation of fresh air per person or per area
- Visualisation of psychrometric chart
- Visualisation of selected configuration
- Required field settings mentioned in the report

| The control of the

ASTRA Web

- Quick Compact L/T selection that will save you precious time, drastically reducing selection time through the ASTRA software interface.
- Very competitive solution available within the Wizard thanks to preuploaded parameters.
- High selection quality, thanks to the intelligence embedded within the software core.

VRV Xpress integrates seamlessly with our ventilation selection software

- The ventilation selection meant for a VRV project can be initiated directly from VRV Web Xpress.
- The selected ventilation products -either on Ventilation Web Xpress or ASTRA- can be introduced into the VRV selection on VRV Web Xpress.
- Integration of ventilation selection into 2D Floorplan.







Daikin air handling units



Why choose Daikin air handling units?

- Maximum energy efficiency and indoor air quality
- Wide range of functions and options
- **High quality** components
- Innovative technology: Unique features and state of the art technology for short payback
- Operation efficiency and energy savings
- Outstanding reliability and performance
- Various applications are possible including air conditioning applications, industry-type process cooling, and large-scale district heat source systems
- Plug and play concept for easy installation and commissioning
- Unique Daikin fresh air package available for connection of AHU to VRV or ERA

Certifications

- Eurovent certified performances
- Exceeding 2018 ErP ECODESIGN requirements
- Certified according to the Hygiene Directive VDI 6022 (Professional ranges)
- Certified according to the Hygiene Directive DIN 1946 (Professional range)
- RLT certified performances







The unique quality of Daikin AHU is accomplished by:

Panels

 Inner and outer panels available in different materials (pre-painted, aluminium, stainless steel, etc.) to meet all project specifications

Gasket

• Liquid gasket technology drastically reduces unit air leakage

Frame

- All anodized aluminium which has the highest corrosion resistance compared to natural aluminium
- Unique Daikin thermal break (35 mm or 27 mm thermal break).
 Polyamide bars design to enhance thermal break unit performances
- Distinctive Section to section thermal break profile to ensure thermal break design on the whole unit
- Rounded profile for increased ease of cleaning

IAQ

- Flush internal surface and rounded corner flush surface to avoid the retention of dirt and to be easily cleanable
- Wide filtration possibility to reduce pollution

Plug & Play Controls

- Pre-commissioned and Factory-tested control for quicker on site commissioning
- Sole manufacturer to provide a complete AHU DX solution from a single manufacturer available for connection of AHU to VRV or ERA (everything factory-mounted)



D-AHU MODULAR R

Pre configured unit with side connection and rotary heat exchanger (sensible or sorption)



D-AHU MODULAR P

Pre configured unit with side connection and aluminium counter flow plate heat exchanger



D-AHU PROFESSIONAL

Fully customize solution to meet all projects demand

Why use DX outdoor units with Air Handling Units?



High comfort levels

- Rapid response of supply air temperature to changing loads, results in a steady indoor temperature
- VRV offers the ultimate comfort thanks to continuous heating, also during defrost

Low carbon footprint and operating costs

- DX heat pumps are highly efficient inverter units using a lower GWP refrigerant
- By integrating a VRV heat recovery system, excess heat from rooms in cooling can be reused to heat up incoming fresh air

Easy design, all components integrated

 A DX system is an all-in-one system, no boilers, tanks or pumps are needed reducing the total investment cost

One-stop shop, Daikin's fresh air package

- A plug & play package with a Daikin DX outdoor unit and Daikin Air Handling Unit
- One point of contact for the design, installation and commissioning, streamlining the process

Total solution operation example



Fresh air AHU connected to VRV outdoor unit: The AHU takes care of the heat loads of fresh air securing air supply at 21°C.

VRV system with indoor units only take care of comfort cooling (or heating) and the indoor heat loads (lighting, people, machines, sun radiation, etc)

Daikin Air Handling Unit kits for connection to DX outdoor units

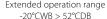
NEW Expansion valve kits

- 3 new capacities (300, 350, 400) offer a complete range of expansion valve kits from 5 to 69.3kW
- Improved flexibility thanks to combination ratio from 65% up to 110%
- Unified range connectable both to R-32 and R-410A systems
- Can be used in the most extreme outdoor conditions, down to -20°C
- Fully compliant to IEC60335-2-40, thanks to Shîrudo Technology

NEW Control box

- Complete offer of 5 control possibilities
- Daikin integrated or third-party controller
- Control of return air or fresh air supply temperature
- All control methods unified in one box
- Hinged door for easy servicing



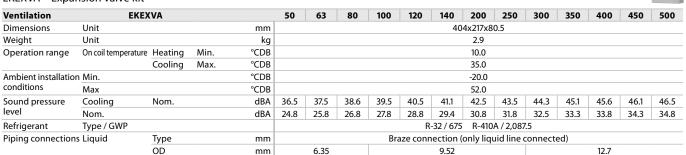




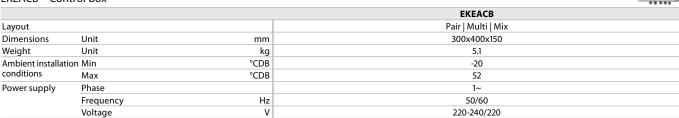


Specifications

EKEXVA - Expansion valve kit









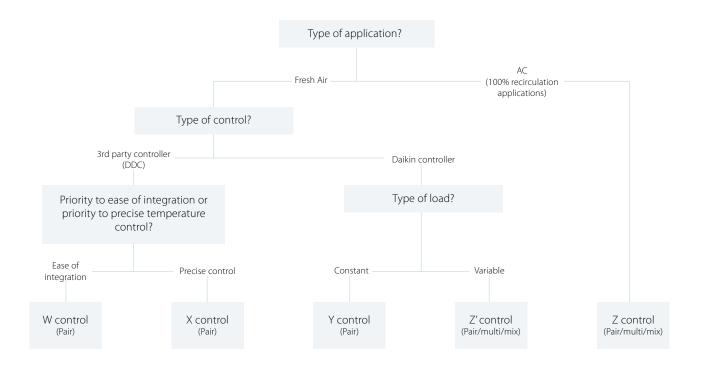


Air Handling Unit kits

Control possibilities

Every application is different. Is there a constant load or not, how to control your temperature and which controls are available? With our complete offering of 5 control possibilities, anything is possible.

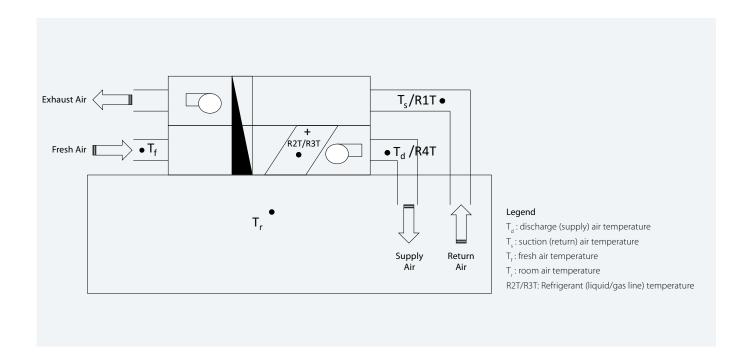
Flow chart to select your control type



Control type benefits	Sensor Used	Controller
 W control – control of supply or return air temperature Responds to load variation (capacity is changed as a function of measured temperature, but slower than X- control) Air temperature control Easy to integrate, as no additional programming is needed for most standard AHU controllers 	Td, Ts/f or Tr (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control (5 steps)
 X control – control of supply or return air temperature Fastest response to load variation (capacity is immediately changed as a function of measured temperature) Precise air temperature control Ideal for comfort sensitive applications. This is also used by default in Daikin AHU controls 	Td, Ts/f or Tr (field supplied)	External controller (DDC) using a proportional 0~10 V signal for capacity control (Stepless)
Y control – control of evaporating/condensing temperature Cost effective and simple solution, no additional DDC controller required Fixed evaporating/condensing temperature, no direct temperature control Ideal for applications with a constant cooling/heating load	R2T/R3T (Daikin supplied)	3rd party thermostat (Daikin controller for field settings)



Sensors used



Control type benefits	Sensor Used	Controller
 Z'control – control of supply air temperature Cost efficient and simple solution, no additional DDC controller required You can combine VRV indoor units and AHUs in one system or connect several AHUs to 1 outdoor unit Ideal for pre-conditioning of fresh air via Td temperature control Less accurate room temperature control compared to X/W/Z control 	R4T Daikin supplied)	Daikin controller (set point can be set via field setting)
 Z control – return air temperature control Cost efficient and simple solution, no additional DDC controller required You can combine VRV indoor units and AHUs in one system or connect several AHUs to 1 outdoor unit Ideal for AHU's that operate at 100% recirculation like indoor units or if no particular supply temperature required No supply temperature control 	R1T (Daikin supplied)	Daikin controller (set point can be set via remocon or via C1C2)

Air Handling Unit kits

Layout possibilities

With our wide capacity range and different control options, a variety of layout possibilities to match your application:

- Pair layout: one or more outdoor units combined with 1 air handling unit
- Multi layout: one outdoor unit combined with multiple air handling units
- Mix layout: one outdoor unit combined with an air handling unit AND indoor units

Pair layout

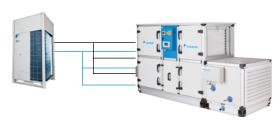
One ERA or VRV heat pump (system) connected to one AHU through one refrigerant circuit

- with W, X, Y, Z, Z' control
- not allowed for VRV H/R



One VRV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits

- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Several ERA or VRV heat pumps connected to the interlaced coil of one AHU through several refrigerant circuits

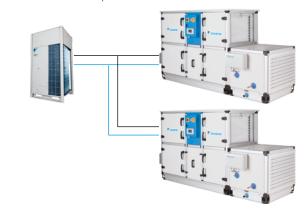
- with W, X, Y control
- not allowed for VRV H/R and VRV-i



Multi layout

One VRV heat pump connected to several AHUs

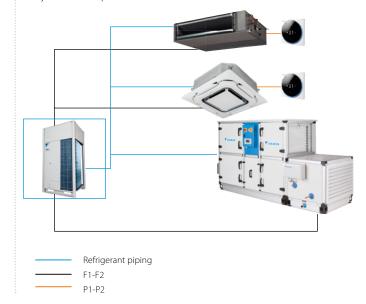
- with Z, Z' control and field supplied controls on AHU side.
- not allowed for VRV H/R
- no interlaced coil possible



Mix layout

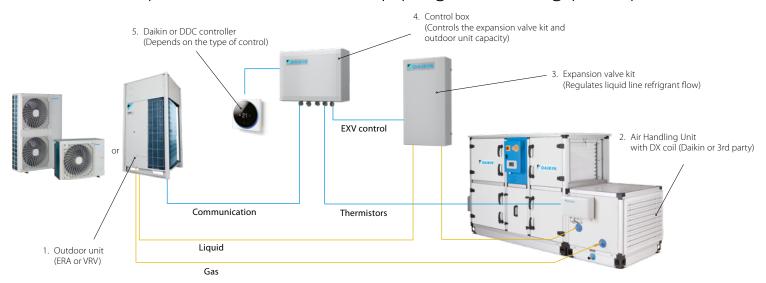
VRV indoor units and AHU(s) mixed in the same VRV heat pump or heat recovery system

- with Z, Z' control and field supplied controls on AHU side
- no interlaced coil possible
- hydrobox not possible





Main components with detailed piping and wiring principle



Detailed combination table

Da	O., 4 d a a I la 4	Control box	Control box Expansi								n valve kits EKEXVA						
Range	Outdoor Unit	EKEACBVE	50	63	80	100	125	140	200	250	300	350	400	450	500		
	ERA100A7V1B	Р	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-				
	ERA125A7V1B	Р	-	-	-	P(b)	P(b)	-	-	-	-	-	-				
	ERA140A7V1B	Р	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-				
	ERA100A7Y1B	Р	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-	-	-		
ERA	ERA125A7Y1B	Р	-	-	-	P(b)	P(b)	-	-	-	-	-	-	-	-		
	ERA140A7Y1B	Р	-	-	-	P(a)	P(b)	P(b)	-	-	-	-	-	-	-		
	ERA200AMYFB ERA250AMYFB	Р	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-	-		
		Р	-	-	-	-	-	-	P(b)	P(b)	-	-	-	-	-		
	ERA250AMYFB	Р	-	-	-	-	-	-	P(a)	P(b)	P(b)	-	-	-	-		

DX coil volume limitations when combined with ERA: Please follow the AHU HEX volume limitations according to the table below:

Capacity class	exch	um heat anger e [dm³]	Maximumheat exchanger volume[dm³]
	Pair combination (a)	Pair combination (b)	Pair combination
63	1.18	1.02	2.08
80	1.64	1.42	2.64
100	1.74	1.51	3.30
125	2.29	1.98	4.12
140	2.94	2.54	4.62
200	3.49	3.02	6.60
250	4.58	3.97	8.25
300	5.23	4.53	9.90

VRV IV VRV IV+	H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RXYS(C)Q, RWEYQ (H/P))	P/M	Pair and multi: 65% (1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
	VRV-i (RKXYQ)	P(2)/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
I	H/R (REYQ, RWEYQ (H/R))	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
<i>VRV</i> 5	H/P (RXYSA, RXYA)	P/M	Pair and multi: 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%
yry 🖸	H/R REYA	M(3)	Multi(3): 65%(1) < CR < 110% Mix: CR < 110% and 50% < IU CR < 110%

- P: Pair layout One or more outdoor units connected to an (interlaced) coil of one AHU M: Mix or multi layout Combination of (multiple) AHU(s) with (mix combination) or without
- Mix or multi layout Combination of (multiple) AHU(s) with (mix combination) or without (multi combination) VRV DX indoor(s). Only Z or Z'control possible (no interlaced coils)
- (1): For 65%<CR<75% please refer to the specifically required coil size
- (2): Only Z or Z'control possible (no interlaced coils)
- (3): Technically is possible to connect H/R in pair combination, but there's no benefit to do it

ERA-AY/AV



Growing together towards a sustainable future





Curtains and Direct Expansion (DX) Air Handling Units (AHUs) for fresh air and recirculation applications.



Range based on inverter technology with the use of lower GWP R-32 refrigerant for capacities from 6.3 kW up to 30 kW.



Securing the highest comfort conditions due to the quick response of DX systems and the available control logics.

NEW

Presenting the Daikin ERA

- New line up with low GWP refrigerant R-32 up to 12 HP
- Immediate cooling and heating under any ambient or room conditions
- Better management of load for medium size spaces due to VRV technology
- Continuous Heating: Avoid cold drafts during defrost cycle
- Benefit from the high efficiency and fast response time of ERA units for changing loads
- Energy saving due to inverter technology
- Wide range of expansion valve kits available for capacities of 6.3 to 30 kW









	DΛ	_ /	١١.
-	KΑ	- F	W

ERA-AY

ERA-AYI

				2.00				2101711 210171		, , , , , ,		
				ERA100AV	ERA125AV	ERA140AV	ERA100AY	ERA125AY	ERA140AY	ERA200AYF	ERA250AYF	ERA300AYF
Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated, h		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.		kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Dimensions	HxWxD		mm		869x1,100x460						1,615x9	40x460
Weight			kg			10	02			144	18	30
Sound power level	Cooling		dB(A)	67.0	68.1	69.0	67.0	68.1	69.0	73.2	74.0	76.1
·	Heating		dB(A)	69.0	70.0	71.0	69.0	70.0	71.0	73.5	74.0	76.0
Sound pressure leve	l Cooling		dB(A)	49.0	49.0 51.0 49.0 51.0				58.1	57.0	60.0	
Operation range	Cooling	Min °C	°CDB			-5 ^	~ 46			-5 ~ 52		
	Heating	Max °C	°CWB			-20	~ 16				-20 ~ 15.5	
Refrigerant	Type/GWP					R-32 /	675.0				R-32 / 675.0	
	Charge	tCO2eq/kg	kg			3.40	/2.30			5.2/3.51	7/4.73	7.1/4.79
Piping connections	s Liquid OD		mm			9.	52			9	.5	12.7
	Gas OD		mm			15	5.9			19	9.1	22.2
	Max piping length		m	50						50		
Power supply	Phase/Freq./ Voltage		Hz/V	1	~/50/220-24	10	31	N~/50/380-4	115	3N~/50/380-415		
Current - 50Hz	Max. fuse amps (MFA)		Α		32			16		2	5	32



Daikin Fresh Air package

What is included?

- A plug & play package with a Daikin DX outdoor unit and Daikin Air Handling Unit
- Factory fitted and welded DX coil, expansion valve kit and control box
- One point of contact





Factory fitted and welded DX coil expansion valve kit and control box

Simplified business

- Unique total solution approach of heating, cooling and ventilation
- Off-the-shelf compatibility between Daikin outdoor unit and Daikin AHU
- Plug&play control for outstanding reliability
- Peace-of-mind thanks to a single point of contact

Complete range of possibilities



750 m³/h up to 144,000 m³/h

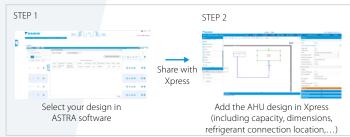


500 m³/h up to 25,000 m³/h



500 m³/h up to 25,000 m³/h

Simple selection in 2 steps



D-AHU Professional

D-AHU

D-AHU

Modular P

Modular R

- Infinite variable sizes Tailored to the individual customer

 - Pre-configured sizes
 - Plug and play concept
 - EC Fan technology
 - Heat recovery wheel (sorption and sensible technology)
 - Modular design
 - Pre-configured sizes
 - Plug and play concept
 - EC Fan technology
 - High efficiency aluminium counter flow PHE
 - Modular design

Integration with 3rd party Air Handling Units

Also for the integration with 3rd party AHU's Daikin provides expert support for the design and installation.

Selection of the expansion valve kit - Fresh air application

- Define the required heating/cooling load of your project
- Define 3rd party AHU heat exchanger capacity
- Use the Xpress selection software or the below table to select the correct expansion valve kit
- The 3rd party AHU design should respect the allowed heat exchanger volume
- Xpress selection software will select the correct outdoor unit at the design ambient temperatures.



NEW

NEW

		ed heat excl apacity (kV	-	Allowed heat exchanger volume (dm³)*					
EKEXVA				Min	Maximum				
Class	Minimum	Nominal	Maximum	General Limits	(65% <cr<75%) Only for pair and multi layout</cr<75%) 	Maximum			
50	5.0	5.6	6.2	0.95	1.09	1.65			
63	6.3	7.1	7.8	1.02	1.18	2.08			
80	7.9	9.0	9.9	1.42	1.64	2.64			
100	10.0	11.2	13.1	1.51	1.74	3.30			
125	13.2	14.0	15.4	1.98	2.29	4.12			
140	15.5	16.0	21.0	2.54	2.94	4.62			
200	21.1	22.4	24.6	3.02	3.49	6.60			
250	24.7	28.0	30.8	3.97	4.58	8.25			
300	30.9	33.5	36.9	4.53	5.25	9.9			
350	37.0	40.0	44.0	5.48	6.32	11.55			
400	44.1	45.0	49.5	6.04	6.97	13.2			
450	49.6	50.4	55.4	6.99	8.07	14.5			
500	55.5	56.0	61.6	7.55	8.72	16.5			



			ed heat excl apacity (kW		Allowed heat exchanger volume (dm³)*				
	EKEXVA				Mini	Maximum			
	Class	Minimum	Nominal	Maximum	General Limits	(65% <cr<75%) Only for pair and multi layout</cr<75%) 	Maximum		
	50	5.6	6.3	7.0	0.95	1.09	1.65		
	63	7.1	8.0	8.8	1.02	1.18	2.08		
	80	8.9	10.0	11.1	1.42	1.64	2.64		
	100	11.2	12.5	14.7	1.51	1.74	3.30		
	125	14.8	16.0	17.3	1.98	2.29	4.12		
	140	17.4	18.0	23.6	2.54	2.94	4.62		
	200	23.7	25.0	27.7	3.02	3.49	6.60		
	250	27.8	31.5	34.7	3.97	4.58	8.25		
NEW	300	34.8	37.5	41.5	4.53	5.23	9.9		
NEW	350	41.6	45.0	49.5	5.48	6.32	11.55		
	400	49.6	50.0	55.7	6.04	6.97	13.2		
NEW	450	55.8	56.5	62.4	6.99	8.07	14.85		
	500	62.5	63.0	69.3	7.55	8.72	16.5		

Saturated evaporating temperature: +6°C Air temperature: +27°C DB / +19°C WB

Applicable when connected to VRV outdoor units. For the corresponding DX coil limitations when the DX coil is connected to ERA units, please refer to the table on page 589.

Saturated evaporating temperature: +46°C

Air temperature: +20°C DB

Applicable when connected to VRV outdoor units. For the corresponding DX coil limitations when the DX coil is connected to ERA units, please refer to the table on page 589.

Selection of the expansion valve kit – Recirculation application

- Define the required heating/cooling load of your project
- Use the Xpress selection software or the below table to select the correct expansion valve, following the procedure used as for standard VRV indoor units
- The 3rd party AHU design should respect the allowed heat exchanger (DX coil) volume limitations which in are in place for VRV (above on this page) and ERA (page 7)
- Xpress selection software will select the correct outdoor unit at the design ambient temperatures



NEW

NEW

	On-coil air temperature [°C]										
EKEXVA	14WB	16WB	18WB	19WB	20WB	22WB	24WB				
Class	20DB	23DB	26DB	27DB	28DB	30DB	32DB				
	kW	kW	kW	kW	kW	kW	kW				
50	3.8	4.5	5.2	5.6	5.9	6.0	6.2				
63	4.8	5.7	6.6	7.1	7.5	7.7	7.8				
80	6.1	7.2	8.4	9.0	9.5	9.7	9.9				
100	7.6	9.0	10.5	11.2	11.8	12.1	12.3				
125	9.5	11.3	13.1	14.0	14.8	15.1	15.4				
140	10.8	12.9	15.0	16.0	16.9	17.3	17.6				
200	15.1	18.0	21.0	22.4	23.6	24.2	24.6				
250	18.9	22.5	26.2	28.0	29.5	30.2	30.8				
300	22.6	26.9	31.3	33.5	35.3	36.1	36.9				
350	27.0	32.2	37.4	40.0	42.1	43.1	44.0				
400	30.4	36.2	42.1	45.0	47.4	48.5	49.5				
450	34.0	40.5	47.2	50.4	53.1	54.3	55.4				
500	37.8	45.0	52.4	56.0	59.0	60.4	61.6				



NEW

NEW NEW

			On-coil a	ir temper	ature [°C]		
EKEXVA Class	10.0	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW	kW
50	6.6	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.4	8.0	7.7	7.5	7.0
80	10.5	10.5	10.5	10.0	9.7	9.4	8.7
100	13.1	13.1	13.1	12.5	12.1	11.7	10.9
125	16.8	16.8	16.8	16.0	15.5	15.0	13.9
140	18.9	18.9	18.9	18.0	17.4	16.8	15.7
200	26.2	26.2	26.2	25.0	24.2	23.4	21.8
250	33.1	33.1	33.1	31.5	30.5	29.5	27.5
300	39.4	39.4	39.4	37.5	36.3	35.1	32.7
350	47.2	47.2	47.2	45.0	43.6	42.1	39.2
400	52.4	52.4	52.4	50.0	48.4	46.8	43.6
450	59.2	59.2	59.2	56.5	54.7	52.9	49.3
500	66.0	66.0	66.0	63.0	61.0	59.0	54.9



Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- For areas where additional, extra high, filtration performance is needed.
- Airflow rate up to 2,000 m³/h
- HEPA H14 filter in accordance with EN1822
- Pre-filter options up to ISO Coarse 70%
- Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
- Easy installation, operation, and maintenance in a totally self-contained system
- For commercial areas up to 200m²





Models

Model	BR00000554 BR00000749		BR00000676	BR00000751	
Plug type	EU	UK	EU	UK	
HEPA Filter (H14)	v	/	✓		
LCD Screen				✓	
Activ. Carbon (Gas phase) pre-filter			,	✓	

Providing high-efficiency 2-stage filtration

Standard prefilter

All units are delivered with a prefilter, increasing filter life and protecting the installed HEPA filter

RedPleat - 4531002424

- Delivered with BR00000554/749
- ISO 16890: ISO coarse 70%
- Available with Antimicrobial treated media (RedPleat ULTRA)



RedPleat Carb - 4139002424

- Delivered with BR00000676/751
- ISO 16890: ISO coarse 65%
- Effectively removes offensive odors

Applications

Buildings

Healthcare

Hospitality

Shops and Shopping malls

Main filter

The HEPA filter features eFRM filtration media which combines ultra-high efficiency and particulate loading to remove 99.99% of dust, pollen, mold, bacteria, viruses, and any airborne particle with a size of 0.3 microns or greater.

AstroCel III - 1493299990

- H14 filtration efficiency according EN 1822
- · V-shaped filter configuration, combined with microglass media, delivers higher flow and the lowest possible pressure drop vs traditional box style HEPA filters
- Compatible with Discrete Particle Counter (DPC) and photometric test methods as access and instrumentation allow





Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- Airflow rate up to 2,000 m³/h
- HEPA H14 filter in accordance with EN1822
- Optional touch sensitive LCD Display (BR00000676/751)
- Insulated double-wall construction provides whisper-quiet operation
- Activated carbon filter
- Sliding tray design provides easy access and servicing of filters
- Designed with internal variable fan speed (electronically commutated) to meet specific application requirements
- Suitable for in-room use or sheltered outdoor installation
- CE-compliance, VDI 6022 guided design







BR00000554

BR00000676

Ventilation				BR00000554	BR00000749	BR0000676	BR00000751			
	Plug type			EU	UK	EU	UK			
F4	HEPA Filter (H14)						/			
Features	LCD Screen						/			
	Activ. Carbon (Gas p	ohase) pre-filter					/			
Design air flow rat	e		m³/h			2,000				
Application				Floor standing type						
Casing	Colour			Painted galvanized steel finish						
Dimensions	Unit	HxWxD	mm	1,628x720x770						
Weight	Unit		kg	g 150 (depending on version)						
Pre-filter	Dust collecting method			Prefilter RedPleat, ISO Coarse 70% Prefilter RedPleat Carb, ISO Coarse 65% filter						
HEPA filter	Bacteria filtering method			Astrocel III HEPA H14						
Air purifying operation	Power input	High fan speed	kW			0.379				
Sound pressure level	Air purifying operation	High fan speed	dBA			55.9				
Fan Motor					Steples	s adjustable				
Safety devices	ltem			Safety switch (operation stops when the back door is open)						
Standard	Prefilter					1				
Accessories	HEPA filter			1						
	Quick Start and Mai	ntenance Guide				1				
	Installation and Ope	eration Manual			1 (do	ownload)				
Power cord			m			3				
Power supply	Phase			1~						
	Frequency		Hz	50/60						
	Voltage		V	230						
Running current	Air purifying operation	High fan speed	Α			1.73				

		Energy recovery ventilation - VAM								
		VAM 150FC9 VAM 250FC9 VAM 350J8 VAM 500J8 VAM 650J8					VAM 800J8	VAM 1000J8	VAM 1500J8	VAM 2000J8
	BRC301B61	•	•	•	•	•	•	•	•	•
ual control system	VAM wired remote control Madoka BRC1H52W7 (White) / BRC1H52S7 (Silver) / BRC1H52K7 (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•	•	•
<u>Indi</u>	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•	•	•
ntro	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•	•	•
	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•	•	•
alised co systems	DCS302C51	•	•	•	•			•	•	•
entra s	Central remote control DCS301B51									
Ü	Unified ON/OFF control DCM601A51	•	•	•	•	•	•	•	•	•
E e	intelligent Touch Manager	•	•	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	DGE601A51 Edge adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
ıageme	DGE602A51 Edge lite adapter for connection to Daikin Cloud Plus	•	•	•	•	•	•	•	•	•
Mar ard p	EKMBDXB Modbus interface	•	•	•	•	•	•	•	•	•
lding tand	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•
Buil	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•	•	•
	Coarse 55% (G4)									
	ePM10 75% (M5)									
	ePM10 70% (M6)			EKAFVJ50F6	EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6 x2
10	ePM1 50% (F7)									
Filters	ePM1 60% (F7)			EKAFVJ50F7	EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7 x2	EKAFVJ100F7 x2
ш.	ePM1 70% (F8)			EKAFVJ50F8	EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2
	ePM1 80% (F9)									
	High efficiency filter									
	Replacement air filter									
ical ries	Rail									
Mechanical accessories	Rectangular to round duct transition									
Me	Separate plenum								EKPLEN200 (5)	EKPLEN200 (5)
CO ₂ sensor				BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200
Electrical heater for pre treatment of fresh air		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030	GSIEKA:	35530 (6)
DX coil for post treatment of fresh air					EKVDX32A	EKVDX50A	EKVDX50A	EKVDX80A	EKVDX100A	EKVDX100A
Silencer (9	00mm depth)									
Electrical accessories	Wiring adapter for external monitoring/ control (controls 1 entire system) Adapter PCB for humidifier	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)
	·	PDD4AFOA	PDD4AFOA	PDD4AFOA (4)	PDD4AFOA (4)	DDD4 A FO A (2/4)	PDD4AFOA (4)	PDD4AFOA (4)	DDD4 A FOA (2/4)	DDD44504 (2/4)
alacc	Adapter PCB for third party heater External wired temperature sensor	BRP4A50A	BRP4A50A	ыпг4АЭUA (4)	BRP4A50A (4)	DRF4A3UA (3/4)	DRE4AOUA (4)	BRP4A50A (4)	DRP4ADUA (3/4)	BRP4A50A (3/4)
ctrica	Adapter PCB Mounting plate	EKMP25VAM	EKMP25VAM			EKMP65VAM			ELVVI	PVAM
Ele	Installation box for adaptor PCB	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101	KRP1BA101
Notes	mistanation box for adaptor FCb	KINI IDAIUI	INITIDATOI	KINI IDAIUI	KINI IDAIUI	KINI IDAIUI	KINI IDAIUI	KINI IDAIUI	KNI IDAIUI	KINI IDAIUI

Notes

- $(1) \ Do \ not \ connect \ the \ system \ to \ DIII-net \ devices \ LONWorks \ interface, \ BACnet \ interface, \dots; \ (intelligent \ Touch \ Manager, EKMBDXA \ are \ allowed)$
- (2) Installation box needed
- (3) Adapter PCB mounting plate needed, applicable model can be found in the table above $\frac{1}{2}$
- (4) 3rd party heater and 3rd party humidifier cannot be combined
- (5) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)
- (6) Available only with optional plenum
- (7) To be combined with option BRP4A50A using external 230VAC with local supplied circuit breaker (max. 3A)

	Energy recovery ventilation VKM	Air handling unit applications			
VKM 50GBM	VKM 80GBM	VKM 100GBM	EKEACB (1)		
•	•	•	•		
•	•	•			
•	•	•			
•	•	•			
•	•	•			
•	•	•			
•	•	•			
•	•	•	•		
•	•	•	•		
•		•	•		
•	•	•	•		
•	•	•	•		
•	•	•			
•	•	•			
KAF242H80M	KAF242H100M	KAF242H100M			
KAF241H80M	KAF241H100M	KAF241H100M			
BRYMA65	BRYMA100	BRYMA100			
GSIEKA20024 (7)	GSIEKA20024 (7)	GSIEKA20024 (7)			
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
			KRCS01-1		

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Options - Ventilation

	Compact L Pro						Compact T Pro					
Accessories	ALB02LCM ALB02RCM				ALB06LCM ALB06RCM			ATB04RBM ATB04LBM	ATB05RBM ATB05LBM	ATB06RBM ATB06LBM		
Iso Coarse 55% (G4) Filter	ALF02G4A	ALF03G4A	ALF0	5G4A	ALF0	7G4A	ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A	
ePM10 75% (M5) Filter	ALF02M5A	ALF03M5A	ALF05M5A		ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A	
ePM1 50% (F7) Filter	ALF02F7A	ALF03F7A	ALF05F7A		ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A	
ePM1 80% (F9) Filter	ALF02F9A	ALF03F9A	ALF0	5F9A	ALF07F9A		ATF03F9A	ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A	
Sound attenuator	ALS0290A	ALS0390A	ALS0	590A	ALS0790A		ATS0360A	ATS0460A	ATS0560A	ATS0660A	ATS0760A	
Rails for door	ALA02RLA	ALA03RLA	ALA0	5RLA	ALA07RLA							
Duct transition	ALA02RCA	ALA03RCA	ALA0	5RCA	ALA07RCA							
Flexible joints	ALA02FXB	ALA03FXB	ALA0	5FXB	ALA07FXB							
Mixing damper									ATA05MDA	ATA06MDA	ATA07MDA	
External damper	ALA02EDA	ALA03EDA	ALA0	5EDA	ALA07EDA		ATA03EDA	ATA04EDA	ATA05EDA	ATA06EDA	ATA07EDA	
Electric pre heater 1	ALD02HEFA	ALD03HEFA	ALD05	5HEFA	ALD07HEFA		ATD03HEFAU	ATD04HEFAU	ATD05HEFAU	ATD06HEFAU	ATD07HEFAU	
Electric post heater 1	ALD02HESA	ALD03HESA	ALD05	SHESA	ALD07HESA		ATD03HESAU	ATD04HESAU	ATD05HESAU	ATD06HESAU	ATD07HESAU	
			ALD05CDSA		ALD07CDSA		ATD03UDSAR	ATD04UDSAR	ATD05UDSAR	ATD06UDSAR	ATD07UDSAR	
							ATD03UDSAL	ATD04UDSAL	ATD05UDSAL	ATD06UDSAL	ATD07UDSAL	
DX coil ²								ATD04UDSBL	ATD05UDSBL	ATD06UDSBL	ATD07UDSBL	
								ATD04UDSBR	ATD05UDSBR	ATD06UDSBR	ATD07UDSBR	
			ALD05CWSA		ALD07CWSA		ATD03UWSAR	ATD04UWSAR	ATD05UWSAR	ATD06UWSAR	ATD07UWSAR	
WATER coil ²	ALD02CWSA	ALD03CWSA					ATD03UWSAL	ATD04UWSAL	ATD05UWSAL	ATD06UWSAL	ATD07UWSAL	
Water pre heating coil	ALD02HWUA	ALD03HWUA	ALD05HWUA		ALD07HWUA		ATD03HWFAU	ATD04HWFAU	ATD05HWFAU	ATD06HWFAU	ATD07HWFAU	
			ALD05HWUA		ALD07HWUA		ATD03HWSAR	ATD04HWSAR	ATD05HWSAR	ATD06HWSAR	ATD07HWSAR	
Water post heating coil ²	ALD02HWUA	ALD03HWUA					ATD03HWSAL	ATD04HWSAL	ATD05HWSAL	ATD06HWSAL	ATD07HWSAL	
Droplet Eliminator	ALA02DEA	ALA03DEA	ALA05DEA		ALA07DEA							
Water valve 2 way cooling/heating	ALV02CW2A	ALV03CW2A	ALV05CW2A		ALV07CW2A		ATV03CW2A	ATV04CW2A	ATV05CW2A	ATV06CW2A	ATV07CW2A	
Water valve 3 way cooling/heating	ALV02CW3A	ALV03CW3A	ALV05	CW3A	ALV07	CW3A	ATV03CW3A	ATV04CW3A	ATV05CW3A	ATV06CW3A	ATV07CW3A	
Valve modulating actuator	ATE00AMVA											
Damper modulating actuator						ATE00AMDA						
Digital PCB									ATE00DPUA			
Spring return modulating actuator					AUE00ASUA							
Frost switch			ALE00	FSUA	ATE00FSUA							
CO ₂ sensor												
Humidity sensor	ALP00HUA											
Temperature probe	ALPOOTEA											
Pressure transducer			AUE00	PTUA								
Room Interface	ALC00822A (POL 822)											
Commissioning module	ALC00895A (POL 895)											
Modbus RTU module					902)							
Bacnet IP module	ALC00908A (POL 908)											
Expansion module			ALC00	0955A								
LonWorks Interface												
Intelligent Touch Manager												
Intelligent Tablet Controller												
Intelligent Touch Controller												
Central remote control												
Unified ON/OFF control												
Notes	-											

⁽¹⁾ For Compact T pro only, both electric heater can be used as pre and post heater

⁽²⁾ For Compact T pro only, sixth digit on main unit material name has to be aligned with last digit of the coil material name (with the exception of the electric heater and water pre heating coil)
ATBO*RBM --> ATBO*UDSAR
ATBO*RBM --> ATBO*UVSAR
ATBO*RBM --> ATBO*UVSAR
ATBO*RBM --> ATBO*UVSAR
ATBO*RBM --> ATBO*UDSAL
ATBO*LBM --> ATBO*UDSAL
ATBO*LBM --> ATBO*UDSAL
ATBO*LBM --> ATBO*UVSAL
ATBO*LBM --> ATBO*UVSAL

⁽³⁾ Please refer to the selection software for more details on accessories and their incompatibilities.

Compact L Smart						Compact T Smart						
ALB02LCS ALB02RCS	ALB03LCS ALB03RCS	ALB04LCS ALB04RCS	ALB05LCS ALB05RCS	ALB06LCS ALB06RCS	ALB07LCS ALB07RCS	ATB03RBS ATB03LBS	ATB04RBS ATB04LBS	ATB05RBS ATB05LBS	ATB06RBS ATB06LBS	ATB07RBS ATB07LBS		
ALF02G4A	ALF03G4A	ALF0	5G4A	ALFO)7G4A	ATF03G4A	ATF04G4A	ATF05G4A	ATF06G4A	ATF07G4A		
ALF02M5A	ALF03M5A	ALF0	5M5A	ALF07M5A		ATF03M5A	ATF04M5A	ATF05M5A	ATF06M5A	ATF07M5A		
ALF02F7A	ALF03F7A	ALFO)5F7A	ALF07F7A		ATF03F7A	ATF04F7A	ATF05F7A	ATF06F7A	ATF07F7A		
ALF02F9A	ALF03F9A	ALFO)5F9A	ALF	ALF07F9A		ATF04F9A	ATF05F9A	ATF06F9A	ATF07F9A		
ALS0290A	ALS0390A	ALSO)590A	ALS	ALS0790A		ATS0460A	ATS0560A	ATS0660A	ATS0760A		
ALA02RLA	ALA03RLA	ALAC	D5RLA	ALA07RLA								
ALA02RCA	ALA03RCA	ALA0)5RCA	ALA	D7RCA							
ALA02FXB	ALA03FXB	ALA05FXB		ALA07FXB								
ALD02HEFB	ALD03HEFB	ALD05HEFB		ALD07HEFB		ATD03HEFBU	ATD04HEFBU	ATD05HEFBU	ATD06HEFBU	ATD07HEFBU		
					BRYMA200							
		BRC	301B61 / BRC1H52	W7 / BRC1H52S7 /	BRC1H52K7 / BRC	TE53A / BRC1E53B	/ BRC1E53C / BRC		1	1		
					EKMBDXB					,		
					DMS502A51							
					DMS504B51							
					DCM601A51							
					DCC6011A51							
					DCC6011C51							
					DCS302C51							
					DCS301B51							

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