

# COMMERCIAL AIR CONDITIONERS SDV4 AND SDV5 2019-2020

INDIVIDUAL SYSTEMS  
MODULAR SYSTEMS  
HEAT RECOVERY SYSTEMS



**SDV 4.3P**

**SDV 5**





# Welcome to the world of Sinclair Air Conditioners

Company operation and procedures comply with ISO 9001. Sinclair products comply with European standards, which guarantee safe operation. Sinclair represents high standard of quality and great performance with modern designs.

Sinclair SDV4 and SDV5 commercial systems provide solutions for air conditioning entire buildings. A wide range of capacities and range of indoor units enables countless combinations which will meet any of your needs.

The SDV4 and SDV5 model line use only environmentally friendly, CFC free refrigerant R410A which does not cause ozone depletion. This refrigerant is also energy efficient.



# SDV4 and SDV5 units line up

## INDOOR UNITS

Series and cooling capacity (kW)	1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0
Four-way cassette units with DC fan motor								
One-way cassette units with DC fan motor								
Wall-mounted units with DC fan motor								
Concealed duct units with DC fan motor								
High static pressure duct units with DC fan motor								
Fresh air processing duct units with DC fan motor								
Floor/ceiling units with DC fan motor								
Console units with DC fan motor								

## OUTDOOR UNITS

Series and cooling capacity (kW)	10,5	14,0	16,0	18,0	20,0	22,4	26,0	25,2
Small and individual outdoor units								
All DC inverter individual outdoor units								
All DC inverter combinable outdoor units								
All DC inverter heat recovery combinable outdoor units								



**SDV4.3P**

**SDV5**



9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0			
											SDV5-xxCA
											SDV5-xxC1A
											SDV5-xxHA
											SDV5-xxDA
											SDV5-xxxDHA
											SDV5-xxxDFA
											SDV5-xxFA
											SDV5-xxPA
28,0	33,5	40,0	45,0	50,0	56,0	61,5	67,0	78,5	85,0	90,0	
											SDV4-xxxEA(A)
											SDV5-xxxEAI
											SDV5-xxxEAM
											SDV4-xxxEA3P



# Small and individual non-modular outdoor units SDV4

Supports up to 15 indoor units in small buildings, offices or apartments.

These single phase (SDV4-105EAA only) or three phase units are non-combinable. Units are ideal for small buildings, offices or apartments.

Small outdoor units with intelligent control gives you independent zoning control with maximum flexibility. A single outdoor unit supports up to 15 indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.

## FEATURES

- DC inverter compressor
- Autoaddressing of indoor units
- Convenient installation
- Wide operational temperature range
- Space saving design, small footprint
- Improved noise reduction design
- Low noise DC fan motor





## SMALL AND INDIVIDUAL OUTDOOR UNITS

Model		SDV4-105EAA	SDV4-140EAA	SDV4-160EAA	SDV4-180EA	SDV4-200EA	SDV4-224EA	SDV4-260EA	SDV4-400EAA	SDV4-450EAA
Power	V / ph / Hz	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling Capacity	kW	9,0 (2,0-10,0)	14	15,5	17,5	20	22,4	26	40,0	45,0
Cooling Input Power	kW	2,3	3,95	4,52	5,3	6,1	6,8	7,6	11,9	13,6
EER	kW/kW	3,91	3,54	3,43	3,30	3,28	3,29	3,42	3,35	3,32
Heating Capacity	kW	9,0	15,4	17,0	19,0	22,0	24,5	28,5	45,0	50,0
Heating Input Power	kW	2,27	4,16	4,77	5	6,1	5,9	6,8	11,1	12,7
COP	kW/kW	3,97	3,70	3,56	3,80	3,61	4,15	4,19	4,05	3,94
Operating Range-Cooling	°C	-15~48	-15~48	-15~48	-15~48	-15~46	-15~46	-15~46	-5~48	-5~48
Operating Range-Heating	°C	-15~27	-15~27	-15~27	-15~27	-15~24	-15~24	-15~24	-15~24	-15~24
Sound Pressure Level at 1m	dB(A)	57	57	57	59	59	59	60	62	62
Airflow	m³/h	5531	6000	6000	6800	10494	10999	10494	16575	16575
Net Weight	kg	74	95	102	107	137	146,5	147	250	280
Gross Weight	kg	81	103	113	118	153	162,5	163	268	300
Net Dimensions (WxHxD)	mm	990x966x336	900x1327x320	900x1327x320	900x1327x320	1120x1558x400	1120x1558x400	1120x1558x400	1360x1650x540	1460x1650x540
Packing Dimensions (WxHxD)	mm	1120x1015x435	1030x1456x435	1030x1456x435	1030x1456x435	1270x1575x480	1270x1575x480	1270x1575x480	1450x1785x560	1550x1785x560
Number of indoor units		5	6	7	9	10	11	12	14	15
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	kg	2,95	3,9	3,9	4,5	4,8	6,2	6,2	9,0	12,0
	t eq,CO <sub>2</sub>	6,2	8,1	8,1	9,4	10	12,9	12,9	18,8	25,1
Vertical Pipe Length	m	Outdoor unit on top: max. 30 m; Outdoor unit below: max. 20 m								
Actual Pipe Length	m	20	20	20	20	20	20	20	40	40
Equivalent Pipe Length	m	50	50	50	70	70	70	70	120	120
Total Pipe Length	m	100	100	100	100	120	120	120	250	250

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit. SDV4-105EAA: SCOP 3.5; SEER 5.3



# SDV5 - new generation of individual outdoor units

Capacity of individual outdoor unit up to 90 kW

Outdoor unit can be installed on both upper or lower position, maximal height difference is 110m if the outdoor unit lower than indoor units.

## FEATURES

- Capacity up to 90 kW
- EVI technology enhances system efficiency
- High EER (up to 4.2) and COP (up to 5.10)
- Wide operation range
- Long piping length
- Two compressors provide back-up function
- Advanced system for oil balance
- Temperature protection for electric devices
- Refrigerant quantity monitoring
- Intelligent defrosting
- Possibility to set-up cooling capacity 40-100% in case of power supply restriction







# SDV5 - new generation of modular outdoor units

Total capacity of three modular outdoor units up to 270 kW

**TOTAL CAPACITY UP TO 270 KW  
HIGH EER (4.5) AND COP (5.4)**



28 / 33,5 kW

40 / 45 / 50 / 56,5 / 61,5 kW

67 / 78,5 / 85 / 90 kW



# SDV5 - new generation of individual outdoor units

## SDV5 INDIVIDUAL OUTDOOR UNITS

Model		SDV5-280EAI	SDV5-335EAI	SDV5-400EAI	SDV5-450EAI	SDV5-500EAI	SDV5-560EAI
Power supply	V / ph / Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling capacity	kW	28,0	33,5	40,0	45,0	50,0	56,0
Cooling Input Power	kW	6,7	8,9	11,0	12,9	14,7	16,0
EER	-	4,2	3,8	3,7	3,5	3,4	3,5
Heating capacity	kW	28,0	33,5	40,0	45,0	50,0	56
Heating Input Power	kW	5,5	7,6	9,3	10,7	12,2	13,8
COP	-	5,1	4,4	4,3	4,2	4,1	4,1
Operating range-cooling	°C	-5~48	-5~48	-5~48	-5~48	-5~48	-5~54
Operating range-heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24	-23~24
Sound Pressure Level at 1m	dB(A)	58	60	60	61	62	63
Airflow	m <sup>3</sup> /h	11000	11000	13000	13000	13000	17000
Net weight	kg	227	227	277	277	295	344
Gross Weight	kg	242	242	304	304	322	364
Net dimensions (WxHxD)	mm	990x1635x790	990x1635x790	1340x1635x850	1340x1635x850	1340x1635x850	1340x1635x825
Packing dimensions (WxHxD)	mm	1090x1805x860	1090x1805x860	1405x1805x910	1405x1805x910	1405x1805x910	1405x1805x910
Number of indoor units	-	16	20	23	26	29	33
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	R410A
	kg	11,0	11,0	13,0	13,0	13,0	17,0
	t eq. CO <sub>2</sub>	23	23	27,1	27,1	27,1	27,1
Vertical pipe length	m	Outdoor unit on top: max.90m; Outdoor unit bellow: max. 110m					
Pipe length from 1st refnet	m	40	40	40	40	40	40
Equivalent pipe length	m	200	200	200	200	200	200
Total pipe length	m	1000	1000	1000	1000	1000	1000

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit.



Model		SDV5-615EAI	SDV5-670EAI	SDV5-785EAI	SDV5-850EAI	SDV5-900EAI	
Power supply	V / ph / Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling capacity	kW	61,5	67,0	78,5	85,0	90,0	
Cooling Input Power	kW	20,2	21,6	24,9	28,3	32,1	
EER	-	3,1	3,1	3,2	3,0	2,8	
Heating capacity	kW	61,5	67,0	78,5	85,0	90,0	
Heating Input Power	kW	17,6	16,8	21,8	24,3	26,5	
COP	-	3,5	4,0	3,6	3,5	3,4	
Operating range-cooling	°C	-5~54	-5~54	-5~54	-5~54	-5~54	
Operating range-heating	°C	-23~24	-23~24	-23~24	-23~24	-23~24	
Sound Pressure Level at 1m	dB(A)	63	64	64	64	64	
Airflow	m³/h	17000	25000	25000	24000	24000	
Net weight	kg	344	407	429	475	475	
Gross Weight	kg	364	430	452	507	507	
Net dimensions (WxHxD)	mm	1340x1635x825	1730x1830x850	1730x1830x850	1730x1830x850	1730x1830x850	
Packing dimensions (WxHxD)	mm	1405x1805x910	1800x2000x910	1800x2000x910	1800x2000x910	1800x2000x910	
Number of indoor units	-	36	39	46	50	53	
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	
	kg	17,0	22	22	25	25	
	t eq. CO <sub>2</sub>	27,1	45,9	45,9	55,2	55,2	
Vertical pipe length	m	Outdoor unit on top: max.90m; Outdoor unit below: max. 110m					
Pipe length from 1st reftnet	m	40	40	40	40	40	
Equivalent pipe length	m	200	200	200	200	200	
Total pipe length	m	1000	1000	1000	1000	1000	

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit.



# SDV5 - new generation of modular outdoor units

## SDV5 MODULAR OUTDOOR UNITS

Model		SDV5-280EAM	SDV5-335EAM	SDV5-400EAM	SDV5-450EAM	SDV5-500EAM	SDV5-560EAM
Power supply	V / ph / Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling capacity	kW	28,0	33,5	40,0	45,0	50,0	56,0
Cooling Input Power	kW	6,3	8,7	9,9	12,0	12,5	15,1
EER	-	4,5	3,9	4,1	3,8	4,0	3,7
Heating capacity	kW	28,0	33,5	40,0	45,0	50,0	56
Heating Input Power	kW	5,2	6,6	8,5	9,8	10,6	12,7
COP	-	5,4	5,1	4,7	4,6	4,7	4,4
Operating range-cooling	°C	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
Operating range-heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
Sound Pressure Level at 1m	dB(A)	58	60	60	61	62	63
Airflow	m <sup>3</sup> /h	11000	11000	13000	13000	17000	17000
Net weight	kg	227	227	277	277	295	344
Gross Weight	kg	242	242	304	304	322	364
Net dimensions (WxHxD)	mm	990x1635x790	990x1635x790	1340x1635x850	1340x1635x850	1340x1635x850	1340x1635x825
Packing dimensions (WxHxD)	mm	1090x1805x860	1090x1805x860	1405x1805x910	1405x1805x910	1405x1805x910	1405x1805x910
Number of indoor units	-	16	20	23	26	29	33
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	R410A
	kg	11,0	11,0	13,0	13,0	17,0	17,0
	t eq. CO <sub>2</sub>	23	23	27,1	27,1	35,5	35,5
Vertical pipe length	m	Outdoor unit on top: max.90m; Outdoor unit below: max. 110m					
Pipe length from 1st refnet	m	40	40	40	40	40	40
Equivalent pipe length	m	200	200	200	200	200	200
Total pipe length	m	1000	1000	1000	1000	1000	1000

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit.



Model		SDV5-615EAM	SDV5-670EAM	SDV5-785EAM	SDV5-850EAM	SDV5-900EAM	
Power supply	V / ph / Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling capacity	kW	61,5	67,0	78,5	85,0	90,0	
Cooling Input Power	kW	18,4	18,1	24,2	27,4	31,0	
EER	-	3,7	3,7	3,3	3,1	2,9	
Heating capacity	kW	61,5	67,0	78,5	85,0	90,0	
Heating Input Power	kW	15,0	14,9	20,7	23,0	25,7	
COP	-	4,1	4,5	3,8	3,7	3,5	
Operating range-cooling	°C	-5~48	-5~48	-5~48	-5~48	-5~48	
Operating range-heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24	
Sound Pressure Level at 1m	dB(A)	63	64	64	64	64	
Airflow	m <sup>3</sup> /h	17000	25000	25000	24000	24000	
Net weight	kg	344	407	429	475	475	
Gross Weight	kg	364	430	452	507	507	
Net dimensions (WxHxD)	mm	1340x1635x825	1730x1830x850	1730x1830x850	1730x1830x850	1730x1830x850	
Packing dimensions (WxHxD)	mm	1405x1805x910	1800x2000x910	1800x2000x910	1800x2000x910	1800x2000x910	
Number of indoor units	-	36	39	46	50	53	
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	
	kg	17,0	22	22	25	25	
	t eq. CO <sub>2</sub>	35,5	45,9	45,9	55,2	55,2	
Vertical pipe length	m	Outdoor unit on top: max.90m; Outdoor unit below: max. 110m					
Pipe length from 1st refnet	m	40	40	40	40	40	
Equivalent pipe length	m	200	200	200	200	200	
Total pipe length	m	1000	1000	1000	1000	1000	

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit.



# SDV4-3P Heat recovery modular outdoor units

## Cooling and heating at the same time

SDV4-3P heat recovery multisystem is designed for areas that require cooling and heating at the same time.

The energy by-product from cooling or heating is transferred to where it is required by using the balanced heat exchanger function, which saves up to 50% in costs compared with a conventional air conditioning system.

### FEATURES

- Heat recovery system
- Simultaneous cooling and heating
- Wide operation range, from -5 to 24°C in simultaneous mode
- Large capacity for big sized buildings, up to 180kW
- High EER and COP
- All DC fan motor
- All DC inverter compressor
- Long piping length
- High external static pressure
- Duty cycling
- Back-up function
- Precise oil control technology
- Night silent operation mode
- Continuous heating during defrosting
- Rotatable electric box
- 360° pipe connection

**SDV4.3P**



## SDV4-3P HEAT RECOVERY MODULAR UNITS

Model		SDV4-252EA3P	SDV4-280EA3P	SDV4-335EA3P	SDV4-400EA3P	SDV4-450EA3P
Power	V / ph / Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling Capacity	kW	25,2	28,0	33,5	40,0	45,0
Cooling Input Power	kW	5,73	6,67	8,07	11,30	13,24
EER	kW/kW	4,40	4,20	4,15	3,54	3,40
Heating Capacity	kW	27,0	31,5	37,5	45,0	50,0
Heating Input Power	kW	6,00	7,33	8,72	11,19	12,79
COP	kW/kW	4,50	4,30	4,30	4,02	3,91
Operation Range-Cooling	°C	-5~48	-5~48	-5~48	-5~48	-5~48
Operation Range-Heating	°C	-20~24	-20~24	-20~24	-20~24	-20~24
Operat. Range-Cooling & Heating	°C	-5~24	-5~24	-5~24	-5~24	-5~24
Sound Pressure Level at 1m	dB(A)	57	57	58	60	60
Airflow	m <sup>3</sup> /h	12 000	12 000	13 000	15 000	15 000
Net Weight	kg	255,0	255,0	255,0	303,0	303,0
Gross Weight	kg	273,0	273,0	273,0	322,0	322,0
Net Dimensions (W×H×D)	mm	1250x1615x765	1250x1615x765	1250x1615x765	1250x1615x765	1250x1615x765
Packing Dimensions (W×H×D)	mm	1305x1790x820	1305x1790x820	1305x1790x820	1305x1790x820	1305x1790x820
Maximal Number of Indoor Units		13	16	20	23	26
Refrigerant	type	R410A	R410A	R410A	R410A	R410A
	kg	10,0	10,0	10,0	13,0	13,0
	t eq. CO <sub>2</sub>	20,88	20,88	20,88	27,1	27,1
Vertical Pipe Length	m	Outdoor unit on top: max. 70m; Outdoor unit below: max. 110m				
Actual Pipe Length	m	40	40	40	40	40
Equivalent Pipe Length	m	200	200	200	200	200
Total Pipe Length	m	1000	1000	1000	1000	1000

Actual pipe length is total distance between the first branch joint and the farthest indoor unit; Equivalent pipe length is total distance between the first branch joint and the farthest indoor unit prolonged by 0.5m for each installed branch joint. Total pipe length is the distance between outdoor unit and the first branch joint, twice the distance of all pipes between the branch joints and the sum of distance from the branch joint to indoor unit.

# Recommended combinations of outdoor units

## SDV5 MODULAR OUTDOOR UNITS

Model	Number of outdoor units	Recommended combination											Combinations of outdoor units	Maximum number of indoor units	
		28 kW	33.5 kW	40 kW	45 kW	50 kW	56kW	61.5kW	67kW	78.5kW	85kW	90kW			
		10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	28 HP	30 HP	32HP			
SDV5-280EAM	1													SDV5-280EAM	16
SDV5-335EAM	1													SDV5-335EAM	20
SDV5-400EAM	1													SDV5-400EAM	23
SDV5-450EAM	1													SDV5-450EAM	26
SDV5-500EAM	1													SDV5-500EAM	29
SDV5-560EAM	1													SDV5-560EAM	33
SDV5-615EAM	1													SDV5-615EAM	36
SDV5-670EAM	1													SDV5-670EAM	39
SDV5-785EAM	1													SDV5-785EAM	46
SDV5-850EAM	1													SDV5-850EAM	50
SDV5-900EAM	1													SDV5-900EAM	53
SDV5-950EAM	2													SDV5-335EAM + SDV5-615EAM	56
SDV5-1015EAM	2													SDV5-400EAM + SDV5-615EAM	59
SDV5-1120EAM	2													SDV5-335EAM + SDV5-785EAM	64
SDV5-1175EAM	2													SDV5-560EAM + SDV5-615EAM	64
SDV5-1230EAM	2													SDV5-615EAM + SDV5-615EAM	64
SDV5-1285EAM	2													SDV5-615EAM + SDV5-670EAM	64
SDV5-1400EAM	2													SDV5-615EAM + SDV5-785EAM	64
SDV5-1570EAM	2													SDV5-785EAM + SDV5-785EAM	64
SDV5-1635EAM	2													SDV5-785EAM + SDV5-850EAM	64
SDV5-1685EAM	2													SDV5-785EAM + SDV5-900EAM	64
SDV5-1750EAM	2													SDV5-850EAM + SDV5-900EAM	64
SDV5-1800EAM	2													SDV5-900EAM + SDV5-900EAM	64
SDV5-1850EAM	3													SDV5-335EAM + SDV5-615EAM + SDV5-900EAM	64
SDV5-1915EAM	3													SDV5-400EAM + SDV5-615EAM + SDV5-900EAM	64
SDV5-1965EAM	3													SDV5-450EAM + SDV5-615EAM + SDV5-900EAM	64
SDV5-2020EAM	3													SDV5-335EAM + SDV5-785EAM + SDV5-900EAM	64
SDV5-2075EAM	3													SDV5-560EAM + SDV5-615EAM + SDV5-900EAM	64
SDV5-2130EAM	3													SDV5-615EAM + SDV5-615EAM + SDV5-900EAM	64
SDV5-2185EAM	3													SDV5-615EAM + SDV5-670EAM + SDV5-900EAM	64
SDV5-2300EAM	3													SDV5-615EAM + SDV5-785EAM + SDV5-900EAM	64
SDV5-2470EAM	3													SDV5-785EAM + SDV5-785EAM + SDV5-900EAM	64
SDV5-2535EAM	3													SDV5-785EAM + SDV5-850EAM + SDV5-900EAM	64
SDV5-2585EAM	3													SDV5-785EAM + SDV5-900EAM + SDV5-900EAM	64
SDV5-2650EAM	3													SDV5-850EAM + SDV5-900EAM + SDV5-900EAM	64
SDV5-2700EAM	3													SDV5-900EAM + SDV5-900EAM + SDV5-900EAM	64

### INTELLIGENT CONTROL TECHNOLOGY

- The outdoor unit will automatically distribute addresses to indoor units without any manual settings
- Wired or wireless controller can enquire and modify every indoor units address
- Up to 64 indoor units can be connected to one system
- Central controller connected to outdoor unit directly

Central controller for indoor units (optional)





## SDV4-3P, SDV4 AND INDIVIDUAL SDV5 OUTDOOR UNITS

Model	Number of outdoor units	Recommended combination						Maximum number of indoor units
		25,2 kW	28,0 kW	33,5 kW	40,0 kW	45,0 kW	Combinations of outdoor units	
		8 HP	10 HP	12 HP	14 HP	16 HP		
SDV4-252EA3P	1	•					SDV4-252EA3P	13
SDV4-280EA3P	1		•				SDV4-280EA3P	16
SDV4-335EA3P	1			•			SDV4-335EA3P	20
SDV4-400EA3P	1				•		SDV4-400EA3P	23
SDV4-450EA3P	1					•	SDV4-450EA3P	26
SDV4-532EA3P	2	•	•				SDV4-252EA3P + SDV4-280EA3P	29
SDV4-560EA3P	2		••				SDV4-280EA3P + SDV4-280EA3P	33
SDV4-615EA3P	2		•	•			SDV4-280EA3P + SDV4-335EA3P	36
SDV4-680EA3P	2		•		•		SDV4-280EA3P + SDV4-400EA3P	39
SDV4-730EA3P	2		•			•	SDV4-280EA3P + SDV4-450EA3P	43
SDV4-800EA3P	2				••		SDV4-400EA3P + SDV4-400EA3P	46
SDV4-850EA3P	2				•	•	SDV4-400EA3P + SDV4-450EA3P	50
SDV4-900EA3P	2					••	SDV4-450EA3P + SDV4-450EA3P	53
SDV4-960EA3P	3		••		•		SDV4-280EA3P + SDV4-280EA3P + SDV4-400EA3P	56
SDV4-1010EA3P	3		••			•	SDV4-280EA3P + SDV4-280EA3P + SDV4-450EA3P	59
SDV4-1065EA3P	3		•	•		•	SDV4-280EA3P + SDV4-335EA3P + SDV4-450EA3P	63
SDV4-1130EA3P	3		•		•	•	SDV4-280EA3P + SDV4-400EA3P + SDV4-450EA3P	64
SDV4-1200EA3P	3				•••		SDV4-400EA3P + SDV4-400EA3P + SDV4-400EA3P	64
SDV4-1250EA3P	3				••	•	SDV4-400EA3P + SDV4-400EA3P + SDV4-450EA3P	64
SDV4-1300EA3P	3				•	••	SDV4-400EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1350EA3P	3					•••	SDV4-450EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1432EA3P	4	•	•			••	SDV4-252EA3P + SDV4-280EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1460EA3P	4		••			••	SDV4-280EA3P + SDV4-280EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1515EA3P	4		•	•		••	SDV4-280EA3P + SDV4-335EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1580EA3P	4		•		•	••	SDV4-280EA3P + SDV4-400EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1650EA3P	4				•••	•	SDV4-400EA3P + SDV4-400EA3P + SDV4-400EA3P + SDV4-450EA3P	64
SDV4-1700EA3P	4				••	••	SDV4-400EA3P + SDV4-400EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1750EA3P	4				•	•••	SDV4-400EA3P + SDV4-450EA3P + SDV4-450EA3P + SDV4-450EA3P	64
SDV4-1800EA3P	4					••••	SDV4-450EA3P + SDV4-450EA3P + SDV4-450EA3P + SDV4-450EA3P	64

Max. number of indoor units

Model SDV4	
SDV4-105EAA	5
SDV4-140EAA	6
SDV4-160EAA	7
SDV4-180EA	9
SDV4-200EA	10
SDV4-224EA	11
SDV4-260EA	12
SDV4-400EAA	14
SDV4-450EAA	15

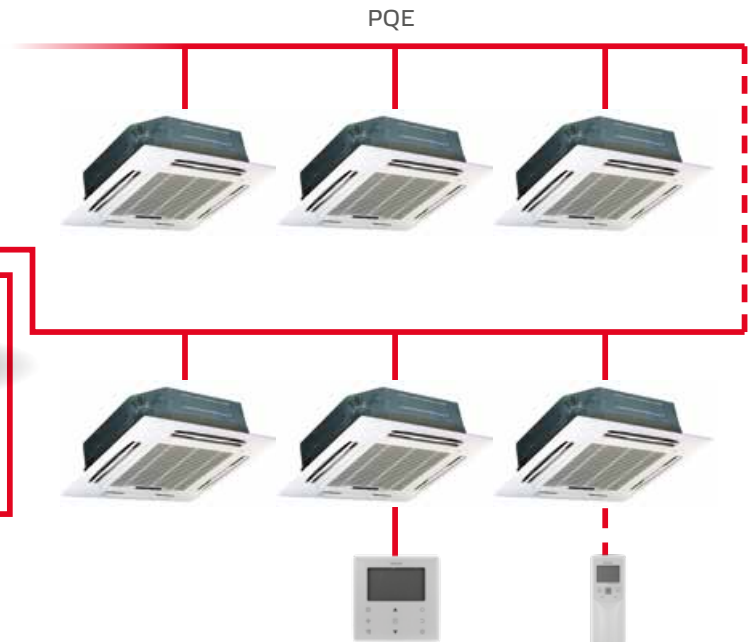
Max. number of indoor units

Model SDV5	
SDV5-280EAI	16
SDV5-335EAI	20
SDV5-400EAI	23
SDV5-450EAI	26
SDV5-500EAI	29
SDV5-560EAI	33
SDV5-615EAI	36
SDV5-670EAI	39
SDV5-785EAI	46
SDV5-850EAI	50
SDV5-900EAI	53

Up to 64 indoor units can be connected to one centralized controller







XYE









# Indoor units specifications

## SUMMARY OF INDOOR UNITS

Series and cooling capacity (kW)	1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0
Four-way cassette units with DC fan motor 																	
One-way cassette units with DC fan motor 																	
Wall mounted units with DC fan motor 																	
Duct units with DC fan motor 																	



Series and cooling capacity (kW)	1,8	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	10,0	11,2	12,5	14,0	16,0	20,0	25,0	28,0
High static-pressure duct units with DC fan motor 																	
Fresh air processing duct units with DC fan motor 																	
Floor & ceiling units with DC fan motor 																	
Console units with DC fan motor 																	

# INDOOR UNITS SPECIFICATIONS

## COMPACT FOUR-WAY AND FOUR-WAY CASSETTE



Model			SDV5-22CA	SDV5-28CA	SDV5-36CA	SDV5-45CA
Capacity	Cooling	kW	2,2	2,8	3,6	4,5
	Heating	kW	2,4	3,2	4,0	5,0
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	35	35	40	50
Air flow volume		m³/h	576/555/524/503/462/441/405	576/555/524/503/462/441/405	604/573/541/516/478/434/400	604/573/541/516/478/434/400
Sound pressure level at 1,4m		dB(A)	35/34333/29/26/23/22	35/34333/29/26/23/22	41/38/35/32/30/29/28	41/38/35/32/30/29/28
Sound power level		dB(A)	51/50/49/45/42/39/39	51/50/49/45/42/39/39	56/53/50/47/45/44/43	56/53/50/47/45/44/43
Net dimensions	Body(WxHxD)	mm	630x260x570	630x260x570	630x260x570	630x260x570
	Panel(WxHxD)	mm	647x50x647	647x50x647	647x50x647	647x50x647
Packing dimensions	Body(WxHxD)	mm	700x345x660	700x345x660	700x345x660	700x345x660
	Panel(WxHxD)	mm	715x123x715	715x123x715	715x123x715	715x123x715
Net weight	Body	kg	18	18	18	18
	Panel	kg	2,5	2,5	2,5	2,5
Gross weight	Body	kg	23,5	23,5	23,5	23,5
	Panel	kg	4,5	4,5	4,5	4,5
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø6,4	ø6,4
	Gas side	mm	ø12,7	ø12,7	ø12,7	ø12,7
	Drainage pipe	mm	ø32,0	ø32,0	ø32,0	ø32,0
Model			SDV5-56CA	SDV5-71CA	SDV5-80CA	SDV5-90CA
Capacity	Cooling	kW	5,6	7,1	8,0	9,0
	Heating	kW	6,3	8,0	9,0	10,0
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	31	46	48	75
Air flow volume		m³/h	1029/957/899/857/801/756/704	1200/1132/1065/996/920/866/748	1264/1195/1117/1055/975/893/811	1596/1477/1365/1239/1154/1087/1034
Sound pressure level at 1,4m		dB(A)	43/41/39/39/36/35/34	45/43/41/39/37/35/34	46/44/42/40/38/36/35	47/45/43/41/39/37/36
Sound power level		dB(A)	56/54/52/51/49/48/47	58/56/54/52/50/48/47	60/58/56/54/52/50/49	61/59/57/55/53/51/50
Net dimensions	Body(WxHxD)	mm	840x230x840	840x230x840	840x230x840	840x300x840
	Panel(WxHxD)	mm	950x54,5x950	950x54,5x950	950x54,5x950	950x54,5x950
Packing dimensions	Body(WxHxD)	mm	955x260x955	955x260x955	955x260x955	955x330x955
	Panel(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
Net weight	Body	kg	23,2	23,2	23,2	28,4
	Panel	kg	5,0	5,0	5,0	5,0
Gross weight	Body	kg	27,6	27,6	27,6	33,8
	Panel	kg	8,0	8,0	8,0	8,0
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø32,0	ø32,0	ø32,0	ø32,0
Model			SDV5-100CA	SDV5-112CA	SDV5-140CA	
Capacity	Cooling	kW	10,0	11,2	14,0	
	Heating	kW	11,0	12,5	16,0	
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	
Rated power		W	75	75	94	
Air flow volume		m³/h	1596/1477/1365/1239/1154/1087/1034	1596/1477/1365/1239/1154/1087/1034	1727/1622/1517/1426/1351/1289/1224	
Sound pressure level at 1,4m		dB(A)	47/45/43/41/39/37/36	47/45/43/41/39/37/36	50/48/46/45/41/39/38	
Sound power level		dB(A)	61/59/57/55/53/51/50	61/59/57/55/53/51/50	64/62/60/59/55/53/52	
Net dimensions	Body(WxHxD)	mm	840x300x840	840x300x840	840x300x840	
	Panel(WxHxD)	mm	950x54,5x950	950x54,5x950	950x54,5x950	
Packing dimensions	Body(WxHxD)	mm	955x330x955	955x330x955	955x330x955	
	Panel(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	
Net weight	Body	kg	28,4	28,4	30,7	
	Panel	kg	5,0	5,0	5,0	
Gross weight	Body	kg	33,8	33,8	35,8	
	Panel	kg	8,0	8,0	8,0	
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5	
	Gas side	mm	ø15,9	ø15,9	ø15,9	
	Drainage pipe	mm	ø32,0	ø32,0	ø32,0	

## ONE-WAY CASSETTE UNITS



Model			SDV5-18C1A	SDV5-22C1A	SDV5-28C1A	SDV5-36C1A
Capacity	Cooling	kW	1,8	2,2	2,8	3,6
	Heating	kW	2,2	2,6	3,2	4,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		25	25	30	30
Air flow volume	m³/h		523/482/448/404/360/312/275	523/482/448/404/360/312/275	573/531/492/456/420/364/315	573/531/492/456/420/364/315
Sound pressure level at 1,4m	dB(A)		37/36/35/34/32/31/30	37/36/35/34/32/31/30	39/38/37/36/35/35/34	39/38/37/36/35/35/34
Sound power level	dB(A)		51/50/49/48/46/45/44	51/50/49/48/46/45/44	53/52/51/50/49/49/48	53/52/51/50/49/49/48
Net dimensions	Body(WxHxD)	mm	1054x153x425	1054x153x425	1054x153x425	1054x153x425
	Panel(WxHxD)	mm	1180x25x465	1180x25x465	1180x25x465	1180x25x465
Packing dimensions	Body(WxHxD)	mm	1155x245x490	1155x245x490	1155x245x490	1155x245x490
	Panel(WxHxD)	mm	1232x107x517	1232x107x517	1232x107x517	1232x107x517
Net weight	Body	kg	11,8	11,8	11,8	11,8
	Panel	kg	3,5	3,5	3,5	3,5
Gross weight	Body	kg	15,3	15,3	15,3	15,3
	Panel	kg	5,2	5,2	5,2	5,2
Pipe diameter	Liquid side	mm	φ6,4	φ6,4	φ6,4	φ6,4
	Gas side	mm	φ12,7	φ12,7	φ12,7	φ12,7
	Drainage pipe	mm	φ32,0	φ32,0	φ32,0	φ32,0
Model			SDV5-45C1A	SDV5-56C1A	SDV5-71C1A	
Capacity	Cooling	kW	4,5	5,6	7,1	
	Heating	kW	5,0	6,3	8,0	
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	
Rated power	W		40	48	60	
Air flow volume	m³/h		970/650/920/870/810/780/760	792/763/728/688/643/589/549	933/749/592	
Sound pressure level at 1,4m	dB(A)		41/40/39/38/37/36/35	42/41/40/39/38/37/36	44/43/42/41/39/38/37	
Sound power level	dB(A)		55/54/53/52/51/50/49	56/55/54/53/52/51/50	58/57/56/55/53/52/51	
Net dimensions	Body(WxHxD)	mm	1275x189x450	1275x189x450	1275x189x450	
	Panel(WxHxD)	mm	1350x25x505	1350x25x505	1350x25x505	
Packing dimensions	Body(WxHxD)	mm	1370x295x505	1370x295x505	1370x295x505	
	Panel(WxHxD)	mm	1410x95x560	1410x95x560	1410x95x560	
Net weight	Body	kg	16,1	16,4	12,3	
	Panel	kg	4	4	4	
Gross weight	Body	kg	20,4	20,7	15,8	
	Panel	kg	5,4	5,4	5,4	
Pipe diameter	Liquid side	mm	φ6,4	φ9,5	φ9,5	
	Gas side	mm	φ12,7	φ15,9	φ15,9	
	Drainage pipe	mm	φ32,0	φ32,0	φ32,0	

# INDOOR UNITS SPECIFICATIONS

## WALL MOUNTED UNITS



Model			SDV5-22HA	SDV5-28HA	SDV5-36HA	SDV545HA
Capacity	Cooling	kW	2,2	2,8	3,6	4,5
	Heating	kW	2,4	3,2	4,0	5,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		28	28	30	40
Air flow volume	m³/h		422/411/402/393/380/368/356	417/402/386/370/353/338/316	656628/591/573/544/515/488	594/563/535/507/478/450/424
Sound pressure level at 1m	dB(A)		31/30/30/30/29/29/29	31/30/30/30/29/29/29	33/32/32/31/31/30/30	35/34/33/33/32/32/31
Sound power level			46/45/45/45/44/44/44	46/45/45/45/44/44/44	48/47/47/46/46/45/45	50/49/48/48/47/46/46
Net dimensions	(WxHxD)	mm	835x280x203	835x280x203	990x315x223	990x315x223
Packing dimensions	(WxHxD)	mm	935x385x320	935x385x320	1085x420x335	1085x420x335
Net weight	kg		8,4	9,5	11,4	12,8
Gross weight	kg		12,1	13,1	15,5	16,9
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø6,4	ø6,4
	Gas side	mm	ø12,7	ø12,7	ø12,7	ø12,7
	Drainage pipe	mm	ø16,0	ø16,0	ø16,0	ø16,0

Model			SDV5-56HA	SDV5-71HA	SDV5-80HA	SDV5-90HA
Capacity	Cooling	kW	5,6	7,1	8,0	9,0
	Heating	kW	6,3	8,0	9,0	10,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		45	55	55	82
Air flow volume	m³/h		747/713/685/648/613/578/547	1195/1130/1065/1005/940/875/809	1195/1130/1065/1005/940/875/809	1421/1300/1125/1067/1005/934/867
Sound pressure level at 1m	dB(A)		38/37/36/36/35/34/34	44/43/42/39/38/37/36	44/43/42/39/38/37/36	48/46/45/43/41/40/38
Sound power level			53/52/51/51/50/49/49	59/58/57/54/53/52/51	59/58/57/54/53/52/51	63/61/60/58/56/55/53
Net dimensions	(WxHxD)	mm	990x315x223	1194x343x262	1194x343x262	1194x343x262
Packing dimensions	(WxHxD)	mm	1085x420x335	1290x375x460	1290x375x460	1290x375x460
Net weight	kg		12,8	17	17	17
Gross weight	kg		16,9	22,4	22,4	22,4
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø16,0	ø16,0	ø16,0	ø16,0



## CONSOLE UNITS

Model			SDV5-22PA	SDV5-28PA	SDV5-36PA	SDV5-45PA
Capacity	Cooling	kW	2,2	2,8	3,6	4,5
	Heating	kW	2,4	3,2	4,0	5,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		20	25	25	35
Air flow volume	m³/h		430/401/374/345/302/268/229	510/482/456/430/355/286/229	510/482/456/430/355/286/229	660/614/561/512/478/436/400
Sound pressure level at 1m	dB(A)		38/36/34/32/28/27/26	39/37/35/33/31/29/27	39/37/35/33/31/29/27	42/41/40/39/37/36/36
Net dimensions	(WxHxD)	mm	700x600x210	700x600x210	700x600x210	700x600x210
Packing dimensions	(WxHxD)	mm	810x710x305	810x710x305	810x710x305	810x710x305
Net weight	kg		14	15	15	15
Gross weight	kg		19	20	20	20
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø6,4	ø6,4
	Gas side	mm	ø12,7	ø12,7	ø12,7	ø12,7
	Drainage pipe	mm	ø16,0	ø16,0	ø16,0	ø16,0





## CONCEALED DUCT UNITS

Model			SDV5-22DA	SDV5-28DA	SDV5-36DA	SDV5-45DA
Capacity	Cooling	kW	2,2	2,8	3,6	4,5
	Heating	kW	2,6	3,2	4,0	5,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		40	40	45	92
Air flow volume	m³/h		520/480/440/400/360/330/300	520/480/440/400/360/330/300	580/540/500/460/430/400/370	800/740/680/620/540/480/400
Static pressure	Pa		10 (0-50)	10 (0-50)	10 (0-50)	10 (0-50)
Sound pressure level at 1,4m	dB(A)		32/31/29/28/26/25/23	32/31/29/28/26/25/23	33/32/31/30/28/27/25	36/34/32/31/29/27/25
Sound power level	dB(A)		50/49/47/46/44/43/41	50/49/47/46/44/43/41	51/50/49/48/46/45/43	54/52/50/49/47/45/43
Net dimensions	(WxHxD)	mm	740x210x500	740x210x500	740x210x500	960x210x500
Packing dimensions	(WxHxD)	mm	870x285x525	870x285x525	870x285x525	1115x285x525
Net weight	kg		17,5	17,5	17,5	22,5
Gross weight	kg		20	20	20	26
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø6,4	ø6,4
	Gas side	mm	ø12,7	ø12,7	ø12,7	ø12,7
	Drainage pipe	mm	ø16,0	ø25,0	ø25,0	ø25,0
Model			SDV5-56DA	SDV5-71DA	SDV5-80DA	SDV5-90DA
Capacity	Cooling	kW	5,6	7,1	8,0	9,0
	Heating	kW	6,3	8,0	9,0	10,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		92	98	110	120
Air flow volume	m³/h		830/760/720/680/640/600/560	1000/960/900/840/780/720/680	1260/1180/1100/1020/940/860/780	1260/1180/1100/1020/940/860/780
Static pressure	Pa		10 (0-50)	10 (0-50)	20 (10-100)	20 (10-100)
Sound pressure level at 1,4m	dB(A)		36/34/33/32/30/29/28	37/35/33/32/30/29/28	37/35/34/33/31/29/28	37/35/34/33/31/29/28
Sound power level	dB(A)		54/52/51/50/48/47/46	55/53/51/50/48/47/46	55/53/52/51/49/47/46	55/53/52/51/49/47/46
Net dimensions	(WxHxD)	mm	960x210x500	1180x210x500	1180x270x775	1180x270x775
Packing dimensions	(WxHxD)	mm	1115x285x525	1335x285x525	1355x350x795	1355x350x795
Net weight	kg		22,5	28	38	40
Gross weight	kg		26	31,5	46,5	48
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0	ø25,0
Model			SDV5-112DA	SDV4-140DA		
Capacity	Cooling	kW	11,2	14,0		
	Heating	kW	12,5	15,5		
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50		
Rated power	W		200	250		
Air flow volume	m³/h		1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360		
Static pressure	Pa		20 (10-100)	40 (30-150)		
Sound pressure level at 1,4m	dB(A)		39/38/38/37/35/34/33	41/39/38/37/36/35/33		
Sound power level	dB(A)		57/56/56/55/53/52/51	59/57/56/55/54/53/51		
Net dimensions	(WxHxD)	mm	1180x270x775	1240x300x865		
Packing dimensions	(WxHxD)	mm	1355x350x795	1400x375x925		
Net weight	kg		40	49		
Gross weight	kg		48	58		
Pipe diameter	Liquid side	mm	ø9,5	ø9,5		
	Gas side	mm	ø15,9	ø15,9		
	Drainage pipe	mm	ø25,0	ø25,0		

# INDOOR UNITS SPECIFICATIONS



## HIGH STATIC PRESSURE DUCT UNITS

Model			SDV5-71DHA	SDV5-80DHA	SDV5-90DHA	SDV5-112DHA
Capacity	Cooling	kW	7,1	8,0	9,0	11,2
	Heating	kW	8,0	9,0	10,0	12,5
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	180	180	220	380
Air flow volume		m³/h	1560/1390/1250	1450/1340/1190	1780/1650/1530	2080/1930/1710
Static pressure		Pa	25 (0~196)	37 (0~196)	37 (0~196)	37 (0~196)
Sound pressure level at 1,4m		dB(A)	46/44/42	46/44/42	50/47/45	50/47/45
Sound power level		dB(A)				
Net dimensions	(WxHxD)	mm	952x420x690	952x420x690	952x420x690	952x420x690
Packing dimensions	(WxHxD)	mm	1090x440x768	1090x440x768	1090x440x768	1090x440x768
Net weight		kg	41	41	47	47
Gross weight		kg	47	47	53	53
Pipe diameter	Liquid side	mm	φ9,5	φ9,5	φ9,5	φ9,5
	Gas side	mm	φ15,9	φ15,9	φ15,9	φ15,9
	Drainage pipe	mm	φ25	φ25	φ25	φ25
Model			SDV5-140DHA	SDV4-160DHA	SDV5-200DHA	SDV5-250DHA
Capacity	Cooling	kW	14,0	16,0	20,0	25
	Heating	kW	16,0	17,0	22,5	26
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	420	700	800	800
Air flow volume		m³/h	2860/2440/2010	3400/2660/2400	4820/4660/4620	4870/4760/4690
Static pressure		Pa	50 (0~196)	50 (0~196)	62 (40~200)	62 (40~200)
Sound pressure level at 1,4m		dB(A)	53/50/48	54/52/50	57/53/50	57/53/50
Sound power level		dB(A)				
Net dimensions	(WxHxD)	mm	1300x420x690	1300x420x690	1443x470x810	1443x470x810
Packing dimensions	(WxHxD)	mm	1436x450x768	1436x450x768	1509x550x990	1509x550x990
Net weight		kg	68	70	108	108
Gross weight		kg	73	77,5	120	120
Pipe diameter	Liquid side	mm	φ9,5	φ9,5	2x φ9,5	2x φ9,5
	Gas side	mm	φ15,9	φ15,9	2x φ15,9	2x φ15,9
	Drainage pipe	mm	φ25	φ25	φ32	φ32
Model			SDV5-280DHA			
Capacity	Cooling	kW	28			
	Heating	kW	31,5			
Power supply		V / ph / Hz	220-240, 1, 50			
Rated power		W	800			
Air flow volume		m³/h	4870/4760/4690			
Static pressure		Pa	62 (40~200)			
Sound pressure level at 1,4m		dB(A)	57/53/50			
Sound power level		dB(A)				
Net dimensions	(WxHxD)	mm	1443x470x810			
Packing dimensions	(WxHxD)	mm	1509x550x990			
Net weight		kg	108			
Gross weight		kg	120			
Pipe diameter	Liquid side	mm	2x φ9,5			
	Gas side	mm	2x φ15,9			
	Drainage pipe	mm	φ32			







## FRESH PROCESING DUCT UNITS

Model			SDV5-125DFA	SDV5-140DFA		
Capacity	Cooling	kW	12,5	14,0		
	Heating	kW	10,5	12,0		
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50		
Rated power		W	480	480		
Air flow volume		m <sup>3</sup> /h	2000/1917/1833/1750/1667/1583/1500	2000/1917/1833/1750/1667/1583/1500		
Static pressure		Pa	180 (30-200)	180 (30-200)		
Sound pressure level at 1,4m		dB(A)	48/47/46/45/44/43/42	48/47/46/45/44/43/42		
Sound power level		dB(A)	66/65/64/63/62/61/60	66/65/64/63/62/61/60		
Net dimensions	(WxHxD)	mm	1322x423x691	1322x423x691		
Packing dimensions	(WxHxD)	mm	1436x450x768	1436x450x768		
Net weight		kg	68	68		
Gross weight		kg	76	76		
Pipe diameter	Liquid side	mm	φ9,5	φ9,5		
	Gas side	mm	φ15,9	φ15,9		
	Drainage pipe	mm	φ25,0	φ25,0		

# INDOOR UNITS SPECIFICATIONS

## FLOOR/CEILING UNITS



Model			SDV5-36FA	SDV5-45FA	SDV5-56FA	SDV5-71FA
Capacity	Cooling	kW	3,6	4,5	5,6	7,1
	Heating	kW	4,0	5,0	6,3	8,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		49	115	115	115
Air flow volume	m³/h		550/525/500/480/460/440/420	930/895/860/830/792/755/720	930/895/860/830/792/755/720	930/895/860/830/792/755/720
Sound pressure level at 1m	dB(A)		40/39/38/38/37/36/36	43/42/41/41/39/38/38	43/42/41/41/39/38/38	43/42/41/41/39/38/38
Sound power level	dB(A)		53/52/51/51/50/49/49	56/55/54/54/52/51/51	56/55/54/54/52/51/51	56/55/54/54/52/51/51
Net dimensions	(WxHxD)	mm	990×660×203	990×660×203	990×660×203	990×660×203
Packing dimensions	(WxHxD)	mm	1089×744×296	1089×744×296	1089×744×296	1089×744×296
Net weight	kg		26	28	28	28
Gross weight	kg		32	34	34	34
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø9,5	ø9,5
	Gas side	mm	ø12,7	ø12,7	ø15,9	ø15,9
	Drainage pipe	mm	ø16,0	ø16,0	ø16,0	ø16,0
Model			SDV5-80FA	SDV5-90FA	SDV5-112FA	SDV4-140FA
Capacity	Cooling	kW	8,0	9,0	11,2	14,0
	Heating	kW	9,0	10,0	12,5	15,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		130	130	180	180
Air flow volume	m³/h		1280/1245/1210/1170/1130/1085/1050	1280/1245/1210/1170/1130/1085/1050	1890/1830/1765/1700/1660/1620/1580	1890/1830/1765/1700/1660/1620/1580
Sound pressure level at 1m	dB(A)		45/44/43/43/42/41/40	45/44/43/43/42/41/40	47/46/45/45/44/43/42	47/46/45/45/44/43/42
Sound power level	dB(A)		58/57/56/56/55/54/53	58/57/56/56/55/54/53	60/59/58/58/57/56/55	60/59/58/58/57/56/55
Net dimensions	(WxHxD)	mm	1280×660×203	1280×660×203	1670×680×244	1670×680×244
Packing dimensions	(WxHxD)	mm	1379×744×296	1379×744×296	1915×760×330	1915×760×330
Net weight	kg		35	35	48	48
Gross weight	kg		41	41	58	58
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø16,0	ø16,0	ø16,0	ø16,0





**ACCESSORIES**  
**SDV4 AND SDV5 2019-2020**

INDIVIDUAL SYSTEMS  
MODULAR SYSTEMS  
MODULAR 3-PIPES SYSTEMS

SDV5 indoor units are not equipped with any controller. Therefore is necessary to choose correct controller based on project requirements.

All units can be controlled by central controller with the function of setting the on/off time and with the function of the superior control system.



CCM-180A central controller with touch screen

# Controllers



**RM05B**

Infrared controller supports 7-fan speed. Enables address setting and setting cooling only mode.



**SWC-86E**

Wall mounted wired controller with new design including temperature sensor. Possible to use °C or F.



**SWC-86ED**

Wall mounted wired controller with new design including temperature sensor. Support bidirectional communication and service information.



**SWC-120G**

Wall mounted wired group controller with weekly timer. Allows to control up to 16 indoor units. Supports bidirectional communication and service information.



**CCM15**

Central wired controller with cooling/heating priority setting. Allows to set temperature limit. Supports internet connection which allows extra weekly timing.



**CCM-180A**

Central touch screen wired controller with cooling/heating priority setting and weekly timer. Allows to set temperature limit. Provides service information.



**AHU KIT  
(ONLY 2-PIPES SYSTEMS)**

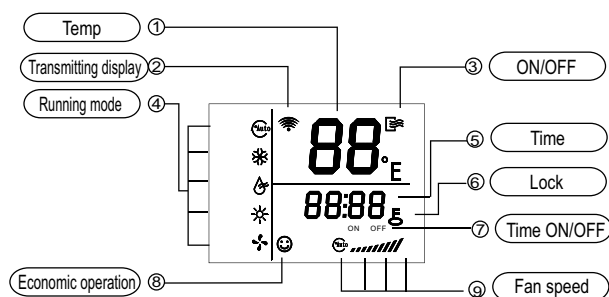
Sinclair AHU kit is device that connects the evaporator of indoor units of other manufacturers with outdoor units of SDV4 and SDV5 system. Can be controlled via 0-10V.

# Wireless Remote Controller RM05B



## SIMPLIFIED USER INTERFACE

Users can synchronize the air conditioner's parameters with the display panel on the wireless remote controller to precisely control a room's environment.



## BUILT-IN TIMER

The built-in daily timer offers the convenience of automatically starting and stopping the system at set times.

## SETTING ADDRESSES

Besides the machine's auto addressing function, users can set the indoor unit's address on the wireless remote controller RM05B.

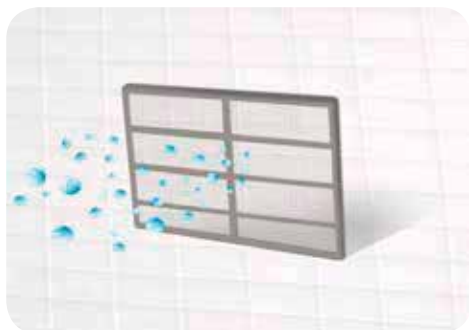


# Wired controller SWC-86E



## AIR FILTER CLEANING REMINDING

The wired controller records the total running time of the indoor unit. When the accumulated running time reaches the pre-set value, it will remind users need to clean the air filter of the indoor unit. Clean the filter regularly can keep indoor air fresh and clean, good for your health.



## REMOTE SIGNAL RECEIVING FUNCTION

SWC-86E provides a signal receiver for remote controller. Signal from remote controller can be received by a wired controller, then send to the indoor unit and it conveniences to control.

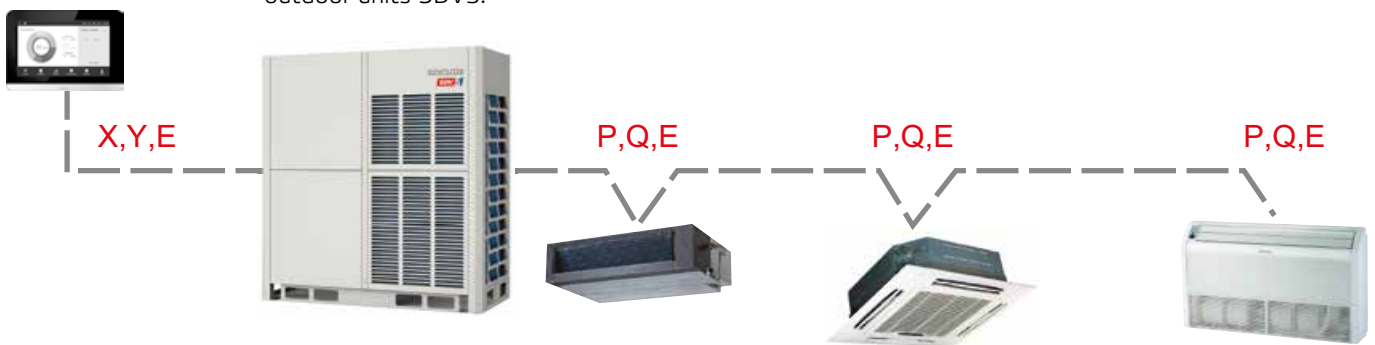


# Centralized Controllers of Indoor Units CCM-180A, CCM15



## CENTRALIZED CONTROL

CCM-180A is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1 200 m. Centralized controller is connected directly to outdoor units by XYE connection. Allows to set cooling/heating priority mode. Supports individual or group control including weekly timer. Due to bidirectional communication provides parameters and errors from outdoor units SDV5.

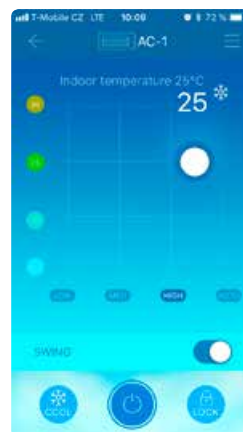
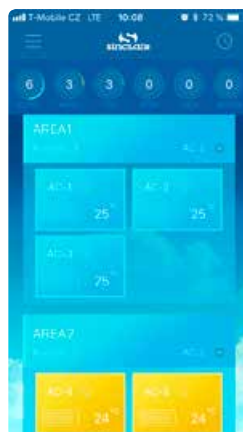


## CCM15 DATA CONVERTER - REMOTE CONTROL

Enables to control the SDV4 and SDV5 indoor units via internet. CCM15 is connected to cloud server.



You can use also the M-control mobile app, which is downloadable from Apple App Store or Google Play.

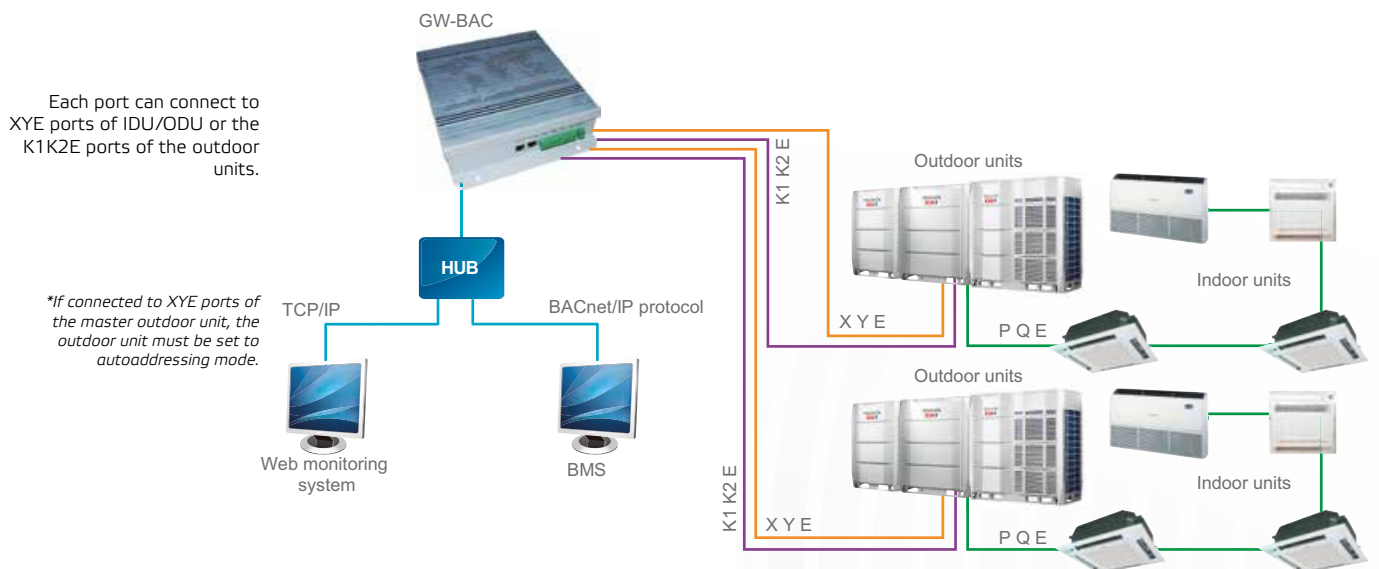


# BMS Gateway BACnet GW-BAC



- Contains 4 groups of RS485 communication ports and is able to connect up to 256 indoor units or 128 outdoor units to the BMS network.
- Built-in web function

## NETWORK EXAMPLE



## MONITORING UNITS ONLINE

GW-BAC allows users to track unit's operational status and change their running parameters via the web browser for maximum control convenience.





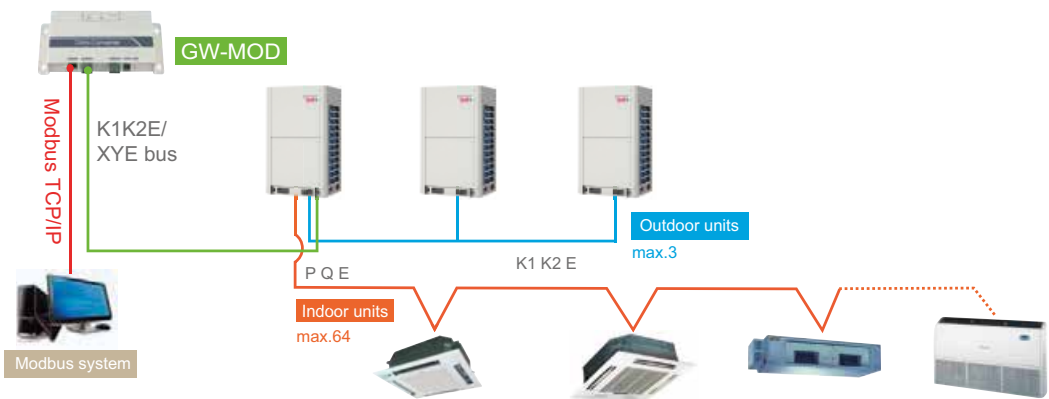
# BMS Gateway Modbus GW-MOB



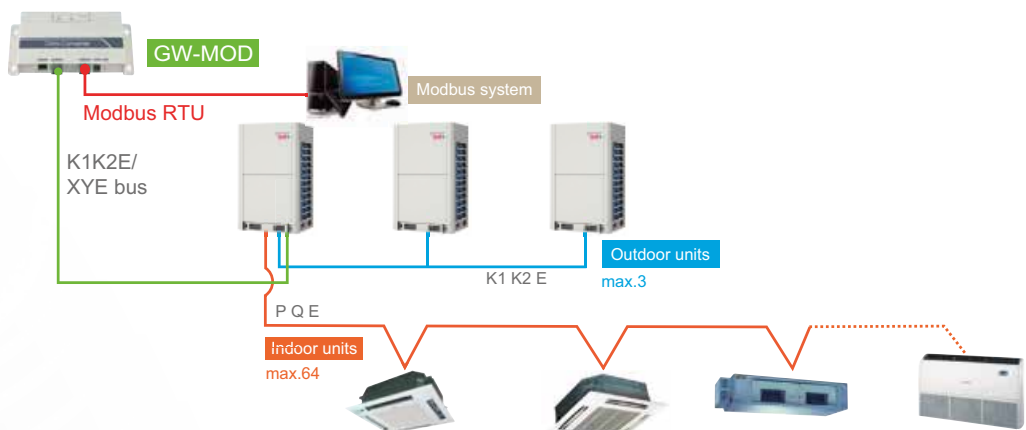
- Supports Modbus protocol networks
- Connects Sinclair systems to BMS
- Allows to connect up to 64 indoor units
- Built-in WEB server function

## CONNECTION EXAMPLES

TCP  
connection  
method



RTU  
connection  
method

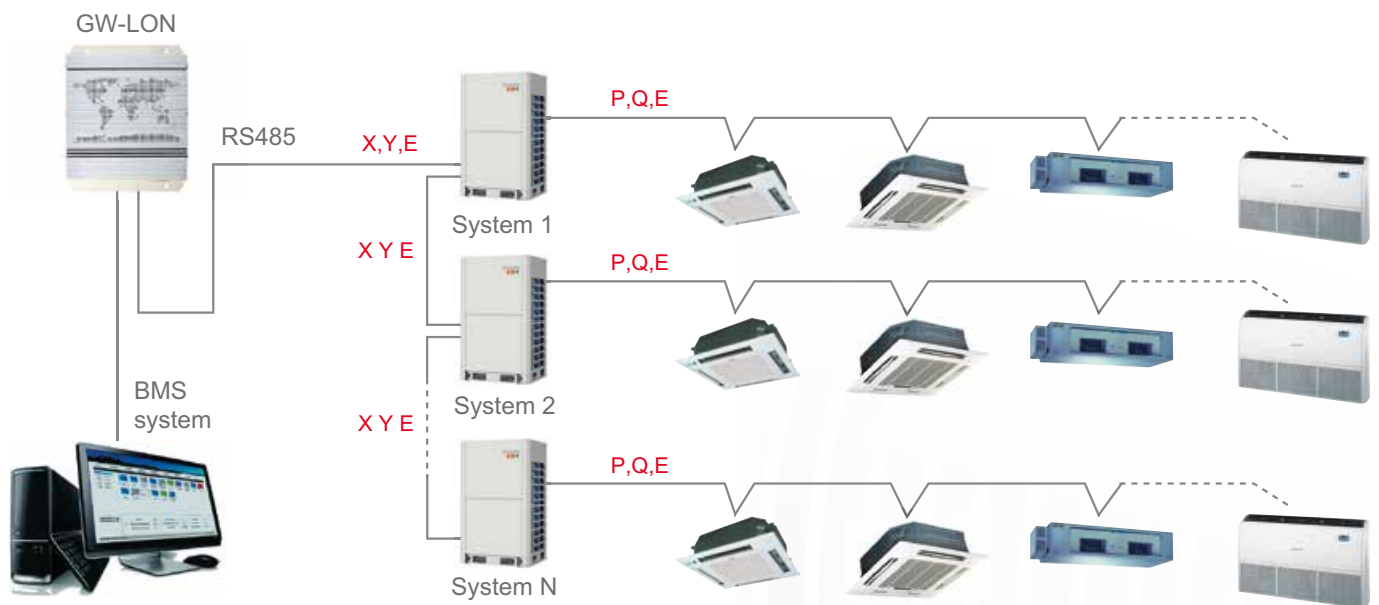


# BMS Gateway LonWorks GW-LON



- Compliance with LonMark protocol, manages and controls of A/C.
- Can connect up to 64 indoor units.
- Uses non-polarity communication.

## NETWORK EXAMPLE ( UP TO 64 INDOOR UNITS)



\*If connected to X,Y,E ports of the master outdoor unit, the outdoor unit must be set to autoaddressing mode.

# AHU Control Box

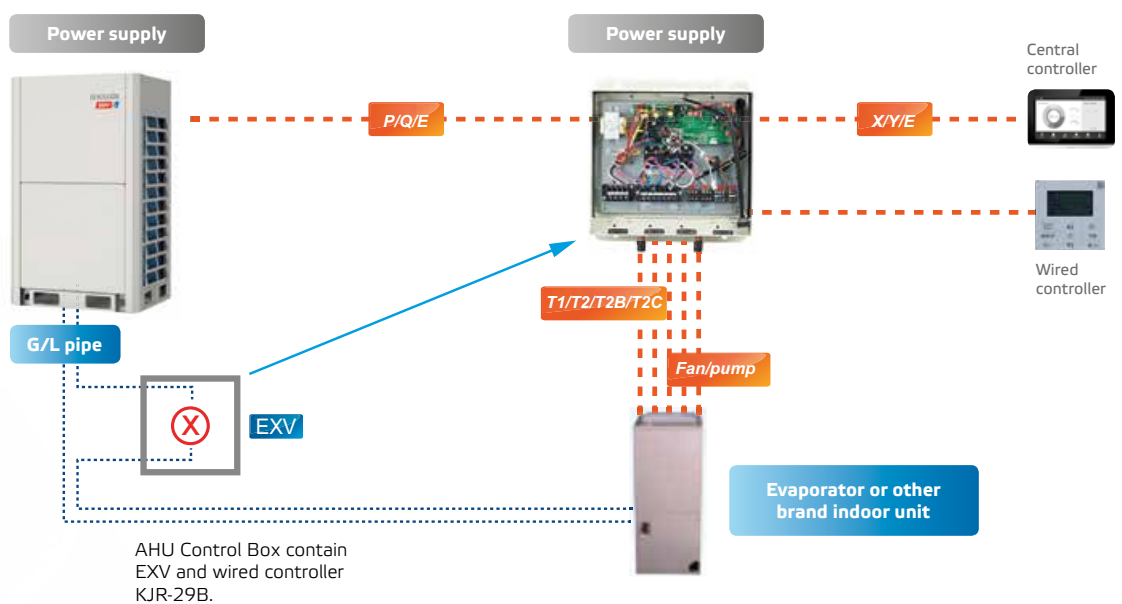
AHUKZ-01C (9-16kW) / AHUKZ-02C (22-34kW) / AHUKZ-03C (39-56kW)



- Can be used to connect SDV outdoor units with evaporator or other brand indoor units.

## ADVANTAGES

- AHUKZ-01C/AHUKZ-02C/AHUKZ-03C is an independent control box that can connect a AHU to SDV system to realize centralized control with SDV system. Next possibility is use external control 0-10V.
- This voltage means set-up temperature of heating or cooling. AHUKZ is only for 2-pipes systems.
- Newly allows to control 0-10V regarding capacity of outdoor units 10-100%.



# Distribution boxes for 3-pipes systems



Model				SDB01	SDB02	SDB04	SDB06
Max. indoor unit groups				1	2	4	6
Max. number of each group indoor units				4	4	4	4
Max. number of all downstream indoor units				1x4	2x4	4x4	6x4
Max. capacity of each group indoor units			kW	16	16	16	16
Total capacity of all downstream indoor units			kW	≤16	≤28	≤45	≤45
Piping connections	Connect to outdoor unit	Liquid pipe	mm	φ9,53	φ12,7	φ15,9	φ15,9
		High pressure gas pipe	mm	φ15,9	φ19,1	φ22,2	φ22,2
		Low pressure gas pipe	mm	φ19,1	φ25,4	φ31,8	φ31,8
	Connect to indoor unit	Liquid pipe	mm	φ9,53	φ9,53	φ9,53	φ9,53
		Gas pipe	mm	φ15,9	φ15,9	φ15,9	φ15,9
	Sound pressure level			dB(A)	33	33	33
Net dimension (W×H×D)			mm	630x225x600	630x225x600	960x225x600	960x225x600
Packing size (W×H×D)			mm	725x325x685	725x325x685	1055x325x685	1055x325x685
Net weight			kg	18,0	19,5	31,0	35,0
Gross weight			kg	25,0	27,0	40,0	44,5

Model				SDB02E	SDB04E
Max. number of all downstream indoor units				1	1
Capacity of downstream indoor unit			kW	20-28	40-56
Piping connections	Connect to outdoor unit	Liquid pipe	mm	φ12,7	φ15,9
		High pressure gas pipe	mm	φ19,1	φ22,2
		Low pressure gas pipe	mm	φ25,4	φ31,8
	Connect to indoor unit	Liquid pipe	mm	φ9,53	φ9,53
		Gas pipe	mm	φ15,9	φ15,9
	Sound pressure level			dB(A)	33
Net dimension (W×H×D)			mm	630x225x600	960x225x600
Packing size (W×H×D)			mm	725x325x685	1055x325x685
Net weight			kg	19,5	31,0
Gross weight			kg	27,0	40,0

## HOT GAS FOR HEATING AND COOL LIQUID FOR COOLING

Sinclair SDB box contains three pipes at inlet side and two on the outlet side. It delivers hot gas for heating and liquid for cooling according to individual needs of users. In the main cooling mode, the refrigerant condensed by heating indoor units can be used for cooling. In the same way, the refrigerant used for cooling indoor units can be used for heating instead of being released.

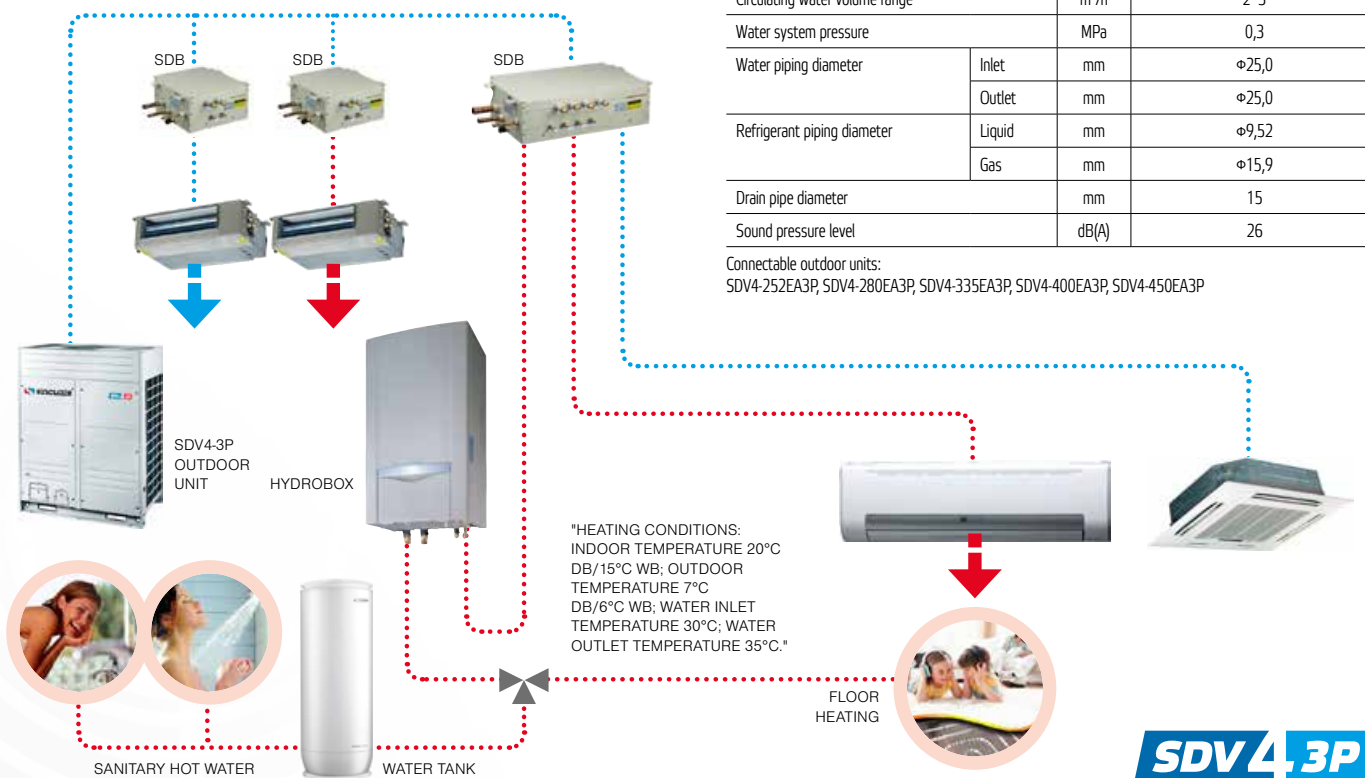
# Hydrobox SDV4-140HB3P



## FEATURES

- High efficiency, heat recovery
- Easy installation
- Installation in the indoor

The waste heat from areas requiring cooling can be reused to provide, not just sanitary hot water, but also floor heating or for and fan coil unit.



Model		SDV4-140HB3P	
Water heating capacity		14,0 kW	
Power supply		220-240 V-50 Hz	
Power input (without water pump)		kW	0,01
Dimensions		mm	900x500x373
Net weight		kg	55
Hot water supply in cooling mode		Ambient °C	-5~35
Hot water supply in heating mode		Ambient °C	-15~35
Hot water temperature range		°C	25-45
Circulating water volume range		m³/h	2-3
Water system pressure		MPa	0,3
Water piping diameter		Inlet mm	ø25,0
		Outlet mm	ø25,0
Refrigerant piping diameter		Liquid mm	ø9,52
		Gas mm	ø15,9
Drain pipe diameter		mm	15
Sound pressure level		dB(A)	26

Connectable outdoor units:  
SDV4-252EA3P, SDV4-280EA3P, SDV4-335EA3P, SDV4-400EA3P, SDV4-450EA3P

**SDV 4.3P**

## NOTES

The pictures of units and accessories are illustrative only.

Technical specifications of the products are subject of change based on further development of the units by the producer and may be changed without prior notice.

if the ask of the output power is greater than the nominal value of the outdoor unit (or a combination of outdoor units, hereinafter the outdoor unit) the output power may be limited to a maximum of 100% of the nominal capacity of the outdoor unit.

during the overall performance requirements of less than 10% of the nominal power can cause overcooling of the room operated by the indoor unit. The outdoor unit in order to protect the compressor can reject to start until the demand of power is in balance with potential risks.

The device contains fluorinated greenhouse gases covered by the Kyoto Protocol.

### CONDITIONS UNDER WHICH HAS BEEN PERFORMED MEASUREMENTS OF TECHNICAL PARAMETERS:

#### Outdoor units

1. Capacities are based on the following conditions: Cooling: indoor temperature 27°C DB/ 19°C WB; Outdoor temperature 35°C DB/ 24°C WB. Heating: Indoor temperature 20°C DB/ 15°C WB; Outdoor temperature 7°C DB/ 6°C WB. Piping length: interconnecting piping length is 7.5m, level difference is 0m.
2. Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90m. When the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
4. The above data may be changed without notice for further improvement on quality and performance.

#### Indoor units

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°C db/ 19°Cwb, outdoor temperature: 35°C db, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°C DB, outdoor temperature: 7°C DB/ 6°C WB, equivalent ref. piping: 8m (horizontal)
3. Sound values are measured at a position 1.4m or 1m in front of the unit.



**SDV 4 3P**

**SDV 5**



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