

COMMERCIAL SYSTEMS
SDV AIR CONDITIONERS
CHILLERS
FAN COIL UNITS

2021-2022

 **SINCLAIR**
AIR CONDITIONING



Quality enhances partnership

ABOUT SINCLAIR BRAND

Sinclair brand has long tradition and we believe in bright future too. Sinclair air conditioners are getting more and more popularity and trust on the market every year. Our strong team of professionals ensures perfect cooperation with partners from many countries around the world. Development of our partnership never ends.

SINCLAIR Global Group is based on essential principals of long-term partnership and high-quality products. We regularly organize technical training in our academy to be sure that all our partners have updated information about news in our assortment and proper technical background.

SINCLAIR products will secure comfortable temperature in your home or office in all climatic conditions through the whole year. We are more than happy to introduce you SINCLAIR air conditioners.

OUR VISION AND MISSION

Environment protection becomes more and more crucial for humanity and its future generations. SINCLAIR Global Group perceives it the same way hence we focus on developing and applying new technologies which helps to reduce energy consumption and global warming effect. Our products fulfil strict EU norms and in many cases even surpass them.

SINCLAIR believes in long-term, stable and healthy progression supported by hard work and strong code of ethics. Long-term success of any brand depends on satisfied customers. Our customers are satisfied thanks to high-quality, reliable a technically advanced products with reasonable pricing and timeless design.

www.sinclair-solutions.com

Our website is dedicated to everyone who wants to learn more about Sinclair air conditioners and other products. Additionally after log-in to partner section there is all technical documentation available for download.



Welcome to the Sinclair world

The solution for any of your cooling
or heating requirements.



Decide whether it will be a system in which the medium is gas or water.

Family house, hospital, office, school, shop, hotel, sports hall, bank, manufacturing plant or anything else, just write to us and we will choose the best solution for you.

Using the design program Selection software, we will generate suitable outdoor units, indoor units, refnets and the exact amount of refrigerant that will need to be added to the system. Tell us the desired temperature in the room, we will take care of it. You will receive the result from us in several formats. Open your project anytime, anywhere.

Wide range of assortments, from small systems to large-scale solutions

Our mini SDV device starts at 9 kW, the mini chiller at 5 kW. With the set of three SDV5 outdoor units, you get an output of 270 kW. By connecting 16 chiller moduls, you get a perfect output of 1 440 kW.

64 - is the maximum number of indoor units that can be connected in one SDV5 refrigeration system.

High efficiency, savings, reliability, efficiency, easy installation = technology that will pleasantly surprise you.



Individual outdoor units SDV4 and SDV5 with side air discharge

Capacity from 9 kW up to 45 kW

The ideal solution for offices, apartments, restaurants, shops and other middle size applications. Possible to connect up to 20 indoor units. Space-saving design which allows units to be installed in small spaces or even on the facade of the building.

With the design features of the fan, we have achieved a low noise level and at the same time maximized efficiency.

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

Model		SDV5-100EAS	SDV4-140EAA
Power	V / ph / Hz	220-240 / 1 / 50	380-415 / 3 / 50
Cooling Capacity	kW	9,0 (2,0-10,0)	14
Cooling Input Power	kW	2,64	3,95
EER	-	3,41	3,54
Heating Capacity	kW	9 (2,10-12,00)	15,4
Heating Input Power	kW	2,1	4,16
COP	-	4,29	3,70
Operating Range-Cooling	°C	-5-55	-15-48
Operating Range-Heating	°C	-15-27	-15-27
Sound Pressure Level at 1m	dB(A)	54	57
Airflow	m³/h	5200	6000
Net Weight	kg	73	95
Gross Weight	kg	82	103
Net Dimensions (WxHxD)	mm	950x840x426	900x1327x320
Packing Dimensions (WxHxD)	mm	1025x950x510	1030x1456x435
Number of indoor units	-	6	6
Refrigerant	type	R410A	R410A
	kg	2,35	3,9
	t eq,CO ₂	4,9	8,1
Vertical Pipe Length *	m	20/20	30/20
Actual Pipe Length	m	20	20
Equivalent Pipe Length	m	65	50
Total Pipe Length	m	65	100

* Outdoor unit on top/bellow max.



SDV4-160EAA	SDV4-180EA	SDV5-200EAS	SDV5-224EAS	SDV5-260EAS	SDV5-280EAS	SDV5-335EAS	SDV4-400EAA	SDV4-450EAA
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	380-415 / 3 / 50
15,5	17,5	20	22,4	26	28,5	33,5	40,0	45,0
4,5	5,3	4,9	6,8	9,6	12,3	14,4	11,9	13,6
3,43	3,30	4,08	3,28	2,70	2,32	2,33	3,35	3,32
17	19	20	22,4	26	28,5	33,5	45,0	50,0
4,77	5	4,21	4,98	5,53	6,16	8,1	11,1	12,7
3,56	3,80	4,75	4,50	4,70	4,63	4,14	4,05	3,94
-15-48	-15-48	-5-48	-5-48	-5-48	-5-54	-5-54	-5-48	-5-48
-15-27	-15-27	-20-24	-20-24	-20-24	-20-24	-20-24	-15-24	-15-24
57	59	58	58	58	60	61	62	62
6000	6800	9000	9000	10000	11000	11300	16575	16575
102	107	143	143	144	144	157	250	280
113	118	159	159	160	160	173	268	300
900x1327x320	900x1327x320	1120x1558x528	1120x1558x528	1120x1558x528	1120x1558x528	1120x1558x528	1360x1650x540	1360x1650x540
1030x1456x435	1030x1456x435	1270x1720x565	1270x1720x565	1270x1720x565	1270x1720x565	1270x1720x565	1450x1785x560	1450x1785x560
7	9	11	13	15	16	20	14	15
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
3,9	4,5	6,5	6,5	6,5	6,5	8,0	9,0	12,0
8,1	9,4	13,6	13,6	13,6	13,6	16,7	18,8	25,1
30/20		50/40				30/20		
20	20	40	40	40	40	40	40	40
50	70	110	110	110	110	110	120	120
100	100	150	150	150	150	150	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. SDV5-100EAS: SCOP 3,8; SEER 5,12



SDV5 individual outdoor units

Capacity of the individual outdoor unit from 28 kW 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. Total pipe length up to 1 000 m. New outdoor units heat up to -25 °C outside temperature. New condensing outdoor units cool up to 48 °C outside temperature.

FEATURES

- EVI technology enhances system efficiency
- High EER (up to 4.2) and COP (up to 5.1)
- Wide operation range
- 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 modular outdoor units

Possibility to connect up to three modular outdoor units with maximum capacity up to 270 kW

WE HAVE ACHIEVED HIGH ENERGY EFFICIENCY UP TO EER (4.5) AND COP (5.4) MAINLY THANKS TO ENHANCED VAPOR INJECTION (EVI) DC INVERTER COMPRESSORS.



28 / 33,5 kW

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

67 / 78,5 / 85 / 90 kW



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	-5-48
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	62	65	65	66
Airflow	m³/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 ₂	23	23	27,1	27,1	27,1	35,5
Vertical pipe length *	m	90/110					
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

* Outdoor unit on top/bellow (max). 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	-5-48	-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)	66	67	68	68	68
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 ₂	35,5	45,9	45,9	55,2	55,2
Vertical pipe length *	m	90/110				
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

* Outdoor unit on top/bellow (max). 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 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	62	65	65	66
Airflow	m³/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 ₂	23	23	27,1	27,1	35,5	35,5
Vertical pipe length *	m	90/110					
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

* Outdoor unit on top/bellow (max). 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)	66	67	68	68	68
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 ₂	35,5	45,9	45,9	55,2	55,2
Vertical pipe length *	m	90/110				
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

* Outdoor unit on top/bellow (max). 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.

New generation SDV5-3P Heat recovery modular outdoor units

Technology for the most demanding users

Technology for the most demanding users - not just for hotels or hospitals. Economical heating and cooling at the same time in one building.

High system efficiency due to heat recovery. Less energy is required to restore heat, thus guaranteeing higher efficiency of device.

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 -15 to 27 °C in simultaneous mode
- Large capacity for substantial buildings, up to 150 kW
- 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
- 360° pipe connection



SDV5-252EA3P
SDV5-280EA3P
SDV5-335EA3P

SDV5-400EA3P
SDV5-450EA3P
SDV5-500EA3P

Model		SDV5-252EA3P	SDV5-280EA3P	SDV5-335EA3P	SDV5-400EA3P	SDV5-450EA3P	SDV5-500EA3P
Power	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	22,4	28,0	33,5	40,0	45,0	50,0
Cooling Input Power	kW	5,3	7,2	8,6	9,8	12,0	13,8
EER	-	4,3	3,9	3,9	4,1	3,8	3,6
Heating Capacity	kW	22,4	28,0	33,5	40,0	45,0	50,0
Heating Input Power	kW	4,0	5,5	6,6	8,3	9,8	11,9
COP	-	5,7	5,1	5,1	4,8	4,6	4,2
Operation Range-Cooling	°C	-15-52	-15-52	-15-52	-15-52	-15-52	-15-52
Operation Range-Heating	°C	-25-19	-25-19	-25-19	-25-19	-25-19	-25-19
Operating range for hydrobox	°C	-20-43	-20-43	-20-43	-20-43	-20-43	-20-43
Sound Pressure Level at 1m	dB(A)	58	58	60	61	64	65
Airflow	m³/h	9000	9500	10000	14000	14900	15800
Net Weight	kg	232	232	232	300	300	300
Gross Weight	kg	248	248	248	325	325	325
Net Dimensions (W×H×D)	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x825	1340x1635x825	1340x1635x825
Packing Dimensions (W×H×D)	mm	1090x1805x860	1090x1805x860	1090x1805x860	1405x1805x910	1405x1805x910	1405x1805x910
Maximal Number of Indoor Units	-	64	64	64	64	64	64
Refrigerant	type	R410A	R410A	R410A	R410A	R410A	R410A
	kg	8,0	8,0	8,0	10,0	10,0	10,0
	t eq. CO ₂	16,7	16,7	16,7	20,9	20,9	20,9
Vertical Pipe Length *	m	50/110					
Actual Pipe Length	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

* Outdoor unit on top/bellow (max). 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)



SDV5-3P, SDV4 AND INDIVIDUAL SDV5 OUTDOOR UNITS

Model	Number of outdoor units	Recommended combination								Combinations of outdoor units	Maximum number of indoor units	
		25,2 kW	28,0 kW	33,5 kW	40,0 kW	45,0 kW	50 kW					
		8 HP	10 HP	12 HP	14 HP	16 HP	18 HP					
SDV5-252EA3P	1	•								SDV5-252EA3P	64	
SDV5-280EA3P	1		•							SDV5-280EA3P	64	
SDV5-335EA3P	1			•						SDV5-335EA3P	64	
SDV5-400EA3P	1				•					SDV5-400EA3P	64	
SDV5-450EA3P	1					•				SDV5-450EA3P	64	
SDV5-500EA3P	1						•			SDV5-500EA3P	64	
SDV5-560EA3P	2		••							SDV5-280EA3P + SDV5-280EA3P	64	
SDV5-615EA3P	2			•						SDV5-280EA3P + SDV5-335EA3P	64	
SDV5-680EA3P	2				•					SDV5-280EA3P + SDV5-400EA3P	64	
SDV5-735EA3P	2					•				SDV5-335EA3P + SDV5-400EA3P	64	
SDV5-785EA3P	2						•			SDV5-335EA3P + SDV5-450EA3P	64	
SDV5-835EA3P	2							•		SDV5-335EA3P + SDV5-500EA3P	64	
SDV5-900EA3P	2								••	SDV5-450EA3P + SDV5-450EA3P	64	
SDV5-950EA3P	2									•	SDV5-450EA3P + SDV5-500EA3P	64
SDV5-1000EA3P	2									••	SDV5-500EA3P + SDV5-500EA3P	64
SDV5-1070EA3P	3										SDV5-335EA3P + SDV5-335EA3P + SDV5-400EA3P	64
SDV5-1120EA3P	3										SDV5-335EA3P + SDV5-335EA3P + SDV5-450EA3P	64
SDV5-1185EA3P	3										SDV5-335EA3P + SDV5-400EA3P + SDV5-450EA3P	64
SDV5-1235EA3P	3										SDV5-335EA3P + SDV5-450EA3P + SDV5-450EA3P	64
SDV5-1300EA3P	3										SDV5-400EA3P + SDV5-450EA3P + SDV5-450EA3P	64
SDV5-1350EA3P	3										SDV5-450EA3P + SDV5-450EA3P + SDV5-450EA3P	64
SDV5-1400EA3P	3										SDV5-450EA3P + SDV5-450EA3P + SDV5-500EA3P	64
SDV5-1450EA3P	3										SDV5-450EA3P + SDV5-500EA3P + SDV5-500EA3P	64
SDV5-1500EA3P	3										SDV5-500EA3P + SDV5-500EA3P + SDV5-500EA3P	64

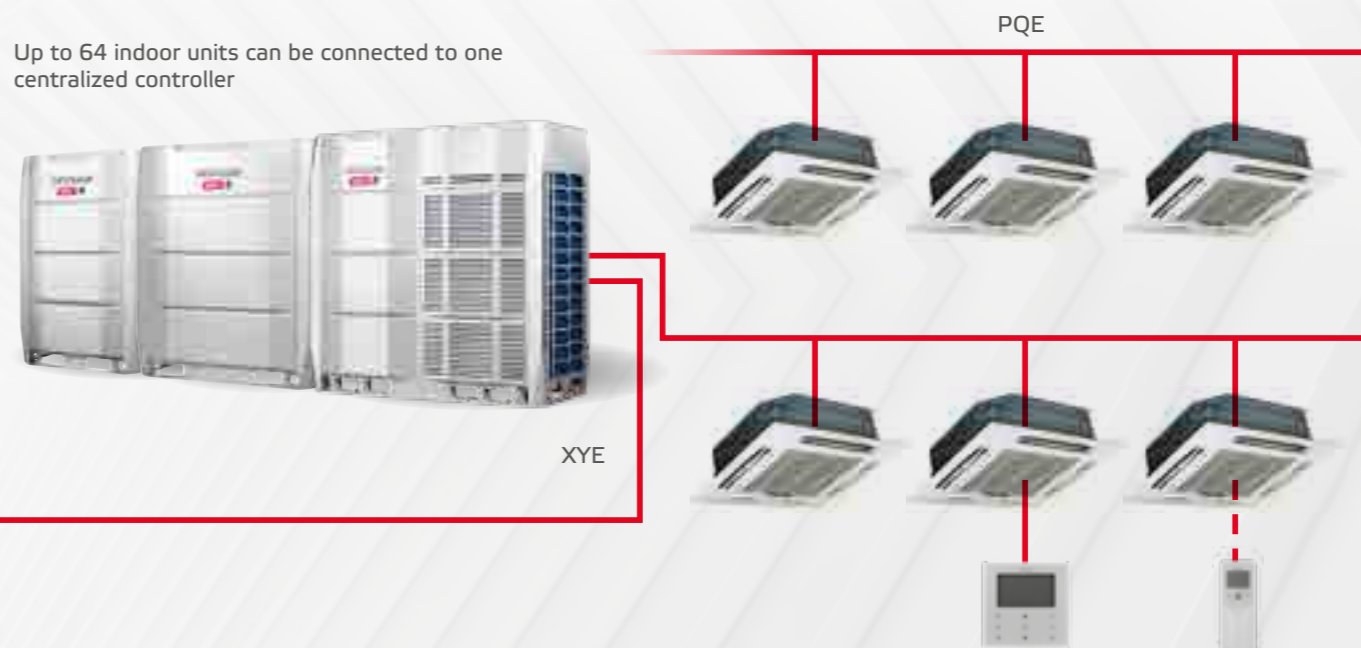
Number of indoor units

Model	Number of indoor units
SDV5-100EAS	6
SDV4-140EAA	6
SDV4-160EAA	7
SDV4-180EA	9
SDV5-200EAS	11
SDV5-224EAS	13
SDV5-260EAS	15
SDV5-280EAS	16
SDV5-335EAS	20
SDV4-400EAA	14
SDV4-450EAA	15

Max. number of indoor units

Model SDV5	Max. number of indoor units
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









Indoor units

Just choose. There are more than 110 types of indoor units for SDV systems in our range. It depends on the level of comfort and the requirements for aesthetics. Choose whether the units will be controlled by wall-mounted or infrared controllers.

Series and cooling capacity (kW)	1,7	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	40,0	45,0	56,0	
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 																						
High static-pressure duct units with DC fan motor 																						

Series and cooling capacity (kW)	1,7	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	40,0	45,0	56,0	
Fresh air processing duct units with DC fan motor 																						
Floor & ceiling units with DC fan motor 																						
Floor concealed units with DC fan motor 																						
Console units with DC fan motor 																						

COMPACT FOUR-WAY UNITS

- Very quiet operation of the device from 22dB(A)
- Decorative panel and condensate pump included
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- Air outlet also from corners of units

NEW



Model			SDV5-17CA	SDV5-22CA	SDV5-28CA	SDV5-36CA
Capacity	Cooling	kW	1,7	2,2	2,8	3,6
	Heating	kW	2,2	2,4	3,2	4
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	35	40
Air flow volume		m³/h	380/345/313/300/288/268/238	414/380/345/313/288/268/238	414/380/345/313/288/268/238	521/485/450/409/380/350/314
Sound pressure level at 1,4m		dB(A)	35/34/33/29/26/23/22	35/34/33/29/26/23/22	35/34/33/29/26/23/22	41/38/35/32/30/29/28
Sound power level		dB(A)	51/50/49/45/42/39/38	51/50/49/45/42/39/38	51/50/49/45/42/39/38	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	φ6,4	φ6,4	φ6,4	φ6,4
	Gas side	mm	φ12,7	φ12,7	φ12,7	φ12,7
	Drainage pipe	mm	φ25,0	φ25,0	φ25,0	φ25,0
Model			SDV5-45CA			
Capacity	Cooling	kW	4,5			
	Heating	kW	5			
Power supply		V / ph / Hz	220-240, 1, 50			
Rated power		W	50			
Air flow volume		m³/h	521/485/450/409/380/350/314			
Sound pressure level at 1,4m		dB(A)	41/38/35/32/30/29/28			
Sound power level		dB(A)	56/53/50/47/45/44/43			
Net dimensions	Body(WxHxD)	mm	630x260x570			
	Panel(WxHxD)	mm	647x50x647			
Packing dimensions	Body(WxHxD)	mm	700x345x660			
	Panel(WxHxD)	mm	715x123x715			
Net weight	Body	kg	18			
	Panel	kg	2,5			
Gross weight	Body	kg	23,5			
	Panel	kg	4,5			
Pipe diameter	Liquid side	mm	φ6,4			
	Gas side	mm	φ12,7			
	Drainage pipe	mm	φ25,0			

FOUR-WAY CASSETTE UNITS

- Decorative panel and condensate pump included
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact



Model			SDV5-56CA	SDV5-71CA	SDV5-80CA	
Capacity	Cooling	kW	5,6	7,1	8	
	Heating	kW	6,3	8	9	
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	
Rated power		W	31	46	48	
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	
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	
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	
Net dimensions	Body(WxHxD)	mm	840x230x840	840x230x840	840x230x840	
	Panel(WxHxD)	mm	950x54,5x950	950x54,5x950	950x54,5x950	
Packing dimensions	Body(WxHxD)	mm	955x260x955	955x260x955	955x260x955	
	Panel(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	
Net weight	Body	kg	23,2	23,2	23,2	
	Panel	kg	5	5	5	
Gross weight	Body	kg	27,6	27,6	27,6	
	Panel	kg	8	8	8	
Pipe diameter	Liquid side	mm	φ9,5	φ9,5	φ9,5	
	Gas side	mm	φ15,9	φ15,9	φ15,9	
	Drainage pipe	mm	φ32,0	φ32,0	φ32,0	
Model			SDV5-90CA	SDV5-100CA	SDV5-112CA	SDV5-140CA
Capacity	Cooling	kW	9	10	11,2	14
	Heating	kW	10	11	12,5	16
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	75	75	75	94
Air flow volume		m³/h	1596/1477/1365/1239/1154/1087/1034	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	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	61/59/57/55/53/51/50	64/62/60/59/55/53/52
Net dimensions	Body(WxHxD)	mm	840x300x840	840x300x840	840x300x840	840x300x840
	Panel(WxHxD)	mm	950x54,5x950	950x54,5x950	950x54,5x950	950x54,5x950
Packing dimensions	Body(WxHxD)	mm	955x330x955	955x330x955	955x330x955	955x330x955
	Panel(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
Net weight	Body	kg	28,4	28,4	28,4	30,7
	Panel	kg	5	5	5	5
Gross weight	Body	kg	33,8	33,8	33,8	35,8
	Panel	kg	8	8	8	8
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	φ32,0	φ32,0	φ32,0	φ32,0



ONE-WAY CASSETTE UNITS

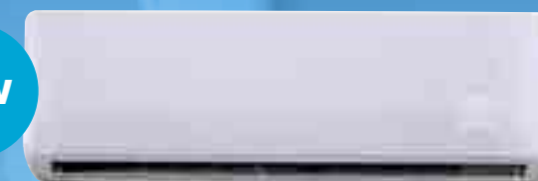
- Unit height only 245 mm (1,8-3,6 kW)
- Decorative panel and condensate pump included
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- These cassette units have 1 air outlet in the room with the possibility of adjusting the position of the louver

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	693/662/638/600/556/510/476	792/763/728/688/643/589/549	933/873/815/749/689/637/592	
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	17,6	
	Panel	kg	4	4	4	
Gross weight	Body	kg	20,4	20,7	22,4	
	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	

WALL MOUNTED UNITS

- Design unit with built-in display
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- DC fan motor
- Including air filter

NEW



Model			SDV5-17HA	SDV5-22HA	SDV5-28HA	SDV5-36HA
Capacity	Cooling	kW	1,7	2,2	2,8	3,6
	Heating	kW	2,2	2,4	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	28	28	28	30
Air flow volume		m³/h	411/402/393/385/378/368/356	422/411/402/393/380/368/356	417/402/386/370/353/338/316	656/628/591/573/544/515/488
Sound pressure level at 1m		dB(A)	31/30/30/30/29/29/29	31/30/30/30/29/29/29	31/30/30/30/29/29/29	33/32/32/31/31/30/30
Sound power level		dB(A)	46/45/45/45/44/44/44	46/45/45/45/44/44/44	46/45/45/45/44/44/44	48/47/47/46/46/45/45
Net dimensions	(WxHxD)	mm	835x280x203	835x280x203	835x280x203	990x315x223
Packing dimensions	(WxHxD)	mm	935x385x320	935x385x320	935x385x320	1085x420x335
Net weight		kg	8,4	8,4	9,5	11,4
Gross weight		kg	12,1	12,1	13,1	15,5
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	φ16,0	φ16,0	φ16,0	φ16,0
Model			SDV5-45HA	SDV5-56HA	SDV5-71HA	SDV5-80HA
Capacity	Cooling	kW	4,5	5,6	7,1	8,0
	Heating	kW	5,0	6,3	8,0	9,0
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	45	55	55
Air flow volume		m³/h	594/563/535/507/478/450/424	747/713/685/648/613/578/547	1195/1130/1065/1005/940/875/809	1195/1130/1065/1005/940/875/809
Sound pressure level at 1m		dB(A)	35/34/33/33/32/32/31	38/37/36/36/35/34/34	44/43/42/39/38/37/36	44/43/42/39/38/37/36
Sound power level		dB(A)	50/49/48/48/47/46/46	53/52/51/51/50/49/49	59/58/57/54/53/52/51	59/58/57/54/53/52/51
Net dimensions	(WxHxD)	mm	990x315x223	990x315x223	1194x343x262	1194x343x262
Packing dimensions	(WxHxD)	mm	1085x420x335	1085x420x335	1290x375x460	1290x375x460
Net weight		kg	12,8	12,8	17	17
Gross weight		kg	16,9	16,9	22,4	22,4
Pipe diameter	Liquid side	mm	φ6,4	φ9,5	φ9,5	φ9,5
	Gas side	mm	φ12,7	φ15,9	φ15,9	φ15,9
	Drainage pipe	mm	φ16,0	φ16,0	φ16,0	φ16,0
Model			SDV5-90HA			
Capacity	Cooling	kW	9,0			
	Heating	kW	10,0			
Power supply		V / ph / Hz	220-240, 1, 50			
Rated power		W	82			
Air flow volume		m³/h	1421/1300/1125/1067/1005/934/867			
Sound pressure level at 1m		dB(A)	48/46/45/43/41/40/38			
Sound power level		dB(A)	63/61/60/58/56/55/53			
Net dimensions	(WxHxD)	mm	1194x343x262			
Packing dimensions	(WxHxD)	mm	1290x375x460			
Net weight		kg	17			
Gross weight		kg	22,4			
Pipe diameter	Liquid side	mm	φ9,5			
	Gas side	mm	φ15,9			
	Drainage pipe	mm	φ16,0			

CONCEALED DUCT UNITS

- DC fan motor
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- Possibility of flexible connection of air ducts
- Condensate pump included
- Very quiet operation 23-32 dB(A) for 1.8-2.8 kW
- SDV5-xxDAP support to connect decoration panel SDV5-0xP

NEW

DECORATION
PANEL SDV5-0XP



Model			SDV5-17DA	SDV5-22DA	SDV5-28DA	SDV5-36DA
Capacity	Cooling	kW	1,7	2,2	2,8	3,6
	Heating	kW	2,2	2,6	3,2	4
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	40	45
Air flow volume		m³/h	490/480/440/400/360/330/300	520/480/440/400/360/330/300	520/480/440/400/360/330/300	580/540/500/460/430/400/370
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	32/31/29/28/26/25/23	33/32/31/30/28/27/25
Sound power level		dB(A)	50/49/47/46/44/43/41	50/49/47/46/44/43/41	50/49/47/46/44/43/41	51/50/49/48/46/45/43
Net dimensions	(WxHxD)	mm	780x210x500	780x210x500	780x210x500	780x210x500
Packing dimensions	(WxHxD)	mm	870x285x525	870x285x525	870x285x525	870x285x525
Net weight		kg	18	18	18	18
Gross weight		kg	21	21	21	21
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	φ25,0	φ25,0	φ25,0	φ25,0
Model			SDV5-45DA	SDV5-56DA	SDV5-71DA	SDV5-80DA
Capacity	Cooling	kW	4,5	5,6	7,1	8
	Heating	kW	5	6,3	8	9
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	92	98	110
Air flow volume		m³/h	800/740/680/620/540/480/400	830/760/720/680/640/600/560	1000/960/900/840/780/720/680	1260/1180/1100/1020/940/860/780
Static pressure		Pa	10 (0-50)	10 (0-50)	10 (0-50)	20 (10-100)
Sound pressure level at 1,4m		dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28	37/35/34/33/31/29/28
Sound power level		dB(A)	54/52/50/49/47/45/43	54/52/51/50/48/47/46	55/53/51/50/48/47/46	55/53/52/51/49/47/46
Net dimensions	(WxHxD)	mm	1000x210x500	1000x210x500	1220x210x500	1230x270x775
Packing dimensions	(WxHxD)	mm	1115x285x525	1115x285x525	1335x285x525	1355x350x795
Net weight		kg	21,5	21,5	27,5	36,5
Gross weight		kg	25	25	31,5	44,5
Pipe diameter	Liquid side	mm	φ6,4	φ9,5	φ9,5	φ9,5
	Gas side	mm	φ12,7	φ15,9	φ15,9	φ15,9
	Drainage pipe	mm	φ25,0	φ25,0	φ25,0	φ25,0
Model			SDV5-90DA	SDV5-112DA	SDV5-140DA	
Capacity	Cooling	kW	9	11,2	14	
	Heating	kW	10	12,5	15,5	
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	
Rated power		W	120	200	250	
Air flow volume		m³/h	1260/1180/1100/1020/940/860/780	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360	
Static pressure		Pa	20 (10-100)	20 (10-100)	40 (30-150)	
Sound pressure level at 1,4m		dB(A)	37/35/34/33/31/29/28	39/38/38/37/35/34/33	41/39/38/37/36/35/33	
Sound power level		dB(A)	55/53/52/51/49/47/46	57/56/56/55/53/52/51	59/57/56/55/54/53/51	
Net dimensions	(WxHxD)	mm	1230x270x775	1230x270x775	1290x300x865	
Packing dimensions	(WxHxD)	mm	1355x350x795	1355x350x795	1400x375x925	
Net weight		kg	37	37	46,5	
Gross weight		kg	45	45	55,5	
Pipe diameter	Liquid side	mm	φ9,5	φ9,5	φ9,5	
	Gas side	mm	φ15,9	φ15,9	φ15,9	
	Drainage pipe	mm	φ25,0	φ25,0	φ25,0	

HIGH STATIC PRESSURE DUCT UNITS

- For installations in larger rooms
- DC fan motor
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- Possibility of flexible connection of air ducts



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	1360/1327/1293/1260/1227/1193/1160	1360/1327/1293/1260/1227/1193/1160	1420/1373/1327/1280/1233/1187/1140	1870/1783/1697/1610/1523/1437/1350
Static pressure		Pa	100 (30-200)	100 (30-200)	100 (30-200)	100 (30-200)
Sound pressure level at 1,4m		dB(A)	46/46/45/45/44/43/42	46/46/45/45/44/43/42	50/49/48/48/47/46/45	50/50/49/48/47/46/45
Sound power level		dB(A)	64/64/63/63/62/61/60	64/64/63/63/62/61/60	68/67/66/66/65/64/63	68/68/67/66/65/64/63
Net dimensions	(WxHxD)	mm	965x423x690	965x423x690	965x423x690	965x423x690
Packing dimensions	(WxHxD)	mm	1090x440x768	1090x440x768	1090x440x768	1090x440x768
Net weight		kg	41	41	51	51
Gross weight		kg	47	47	57	57
Pipe diameter	Liquid side	kg	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	SDV5-160DHA	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	990	1200
Air flow volume		m³/h	2240/2133/2027/1920/1813/1707/1600	2660/2530/2400/2270/2140/2010/1880	4330/4230/4130/4030/3930/3830/3730	4330/4230/4130/4030/3930/3830/3730
Static pressure		Pa	100 (30-200)	100 (30-200)	170 (20-250)	170 (20-250)
Sound pressure level at 1,4m		dB(A)	53/52/51/51/50/49/48	54/54/53/52/51/50/50	57/56/55/54/53/52/50	57/56/55/54/53/52/50
Sound power level		dB(A)	71/70/69/69/68/67/66	72/72/71/70/69/68/68	75/74/73/72/71/70/68	75/74/73/72/71/70/68
Net dimensions	(WxHxD)	mm	1322x423x691	1322x423x691	1454x515x931	1454x515x931
Packing dimensions	(WxHxD)	mm	1436x450x768	1436x450x768	1509x550x990	1509x550x990
Net weight		kg	63	63	130	130
Gross weight		kg	70	70	142	142
Pipe diameter	Liquid side	kg	φ9,5	φ9,5	φ12,7	φ12,7
	Gas side	mm	φ15,9	φ15,9	φ22,2	φ22,2
	Drainage pipe	mm	φ25	φ25	φ32	φ32
Model			SDV5-280DHA	SDV5-400DHA	SDV5-450DHA	SDV5-560DHA
Capacity	Cooling	kW	28	40	45	56
	Heating	kW	31,5	45	50	63
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	1200	1800	1800	2272
Air flow volume		m³/h	4330/4230/4130/4030/3930/3830/3730	6500/6150/5800/5450/5100/4750/4400	6500/6150/5800/5450/5100/4750/4400	7400/7000/6600/6200/5800/5400/5000
Static pressure		Pa	170 (20-250)	300 (100-400)	300 (100-400)	300 (100-400)
Sound pressure level at 1,4m		dB(A)	57/56/55/54/53/52/50	60/59/58/57/55/54/52	60/59/58/57/55/54/52	59/58/57/56/55/53/51
Sound power level		dB(A)	75/74/73/72/71/70/68	78/77/76/75/73/72/70	78/77/76/75/73/72/70	77/76/75/74/73/71/69
Net dimensions	(WxHxD)	mm	1454x515x931	2005x929x670	2005x929x670	2005x929x670
Packing dimensions	(WxHxD)	mm	1509x550x990	2095x964x800	2095x964x800	2095x964x800
Net weight		kg	130	210	210	218
Gross weight		kg	142	235	235	248
Pipe diameter	Liquid side	kg	φ12,7	φ15,9	φ15,9	φ15,9
	Gas side	mm	φ22,2	φ28,6	φ28,6	φ28,6
	Drainage pipe	mm	φ32	φ32	φ32	φ32

FRESH PROCESSING DUCT UNITS

- The unit supplies fresh air to the room
- DC fan motor
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- For installations in larger rooms
- Possibility of flexible connection of air ducts



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	m³/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

FLOOR CONCEALED UNITS

- Equipped with alarm and ON / OFF contact
- 7 speeds of fan

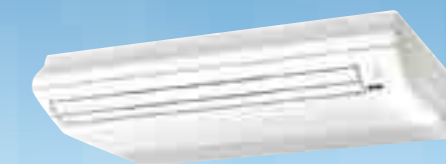


Model			SDV5-22FCA	SDV5-28FCA	SDV5-36FCA	SDV5-45FCA
Capacity	Cooling	kW	2,2	2,8	3,6	4,5
	Heating	kW	2,4	3,2	4,0	5,0
Power supply	V, Ph, Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		40	45	55	60
Air flow volume	m³/h		530/504/478/456/439/418/400	569/540/515/485/462/443/421	624/591/557/522/473/420/375	660/625/583/542/501/475/440
Sound pressure level at 1m	dB(A)		36/35/34/33/31/30/29	36/35/34/33/31/30/29	37/36/35/34/32/31/30	37/36/35/34/32/31/30
Sound power level	dB(A)		54/53/52/51/49/48/47	54/53/52/51/49/48/47	55/54/53/52/51/49/48	55/54/53/52/51/49/48
Net dimensions	(WxHxD)	mm	840x545x212	840x545x212	1036x545x212	1036x545x212
Packing dimensions	(WxHxD)	mm	925x639x305	925x639x305	1125x639x305	1125x639x305
Net weight	kg		21	21	25,5	25,5
Gross weight	kg		25,5	25,5	30,5	30,5
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	φ16,0	φ16,0	φ16,0	φ16,0

Model			SDV5-56FCA	SDV5-71FCA	SDV5-80FCA
Capacity	Cooling	kW	5,6	7,1	8,0
	Heating	kW	6,3	8,0	9,0
Power supply	V, Ph, Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		88	110	130
Air flow volume	m³/h		1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure level at 1m	dB(A)		41/39/37/35/33/32/31	44/42/40/39/37/35/33	44/42/40/39/37/35/33
Sound power level	dB(A)		59/57/55/53/51/50/49	62/60/58/57/55/53/51	62/60/58/57/55/53/51
Net dimensions	(WxHxD)	mm	1340x545x212	1340x545x212	1340x545x212
Packing dimensions	(WxHxD)	mm	1425x639x305	1425x639x305	1425x639x305
Net weight	kg		30,5	30,5	32
Gross weight	kg		35,5	35,5	37
Pipe diameter	Liquid side	mm	φ9,5	φ9,5	φ9,5
	Gas side	mm	φ15,9	φ15,9	φ15,9
	Drainage pipe	mm	φ16,0	φ16,0	φ16,0

FLOOR/CEILING UNITS

- They can be installed in a horizontal or vertical position
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- Massive distribution of air to all corners of the room



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	990x660x203	990x660x203	990x660x203	990x660x203
Packing dimensions	(WxHxD)	mm	1089x744x296	1089x744x296	1089x744x296	1089x744x296
Net weight	kg		26	28	28	28
Gross weight	kg		32	34	34	34
Pipe diameter	Liquid side	mm	φ6,4	φ6,4	φ9,5	φ9,5
	Gas side	mm	φ12,7	φ12,7	φ15,9	φ15,9
	Drainage pipe	mm	φ16,0	φ16,0	φ16,0	φ16,0

Model			SDV5-80FA	SDV5-90FA	SDV5-112FA	SDV5-140FA
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	1280x660x203	1280x660x203	1670x680x244	1670x680x244
Packing dimensions	(WxHxD)	mm	1379x744x296	1379x744x296	1915x760x330	1915x760x330
Net weight	kg		35	35	48	48
Gross weight	kg		41	41	58	58
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	φ16,0	φ16,0	φ16,0	φ16,0

CONSOLE UNITS

- Elegant design
- Quiet operation
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- Installation suitable under the window as a radiator
- Double air outlet flow



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
Sound power level		dB(A)	54/52/50/48/44/43/42	55/53/51/49/47/45/43	55/53/51/49/47/45/43	58/57/56/55/53/52/52
Net dimensions		(WxHxD)	mm	700x600x210	700x600x210	700x600x210
Packing dimensions		(WxHxD)	mm	810x710x305	810x710x305	810x710x305
Net weight		kg	14	15	15	15
Gross weight		kg	19	20	20	20
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	φ16,0	φ16,0	φ16,0	φ16,0

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

- 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.
- 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.
- Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
- The above data may be changed without notice for further improvement on quality and performance.

INDOOR UNITS

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

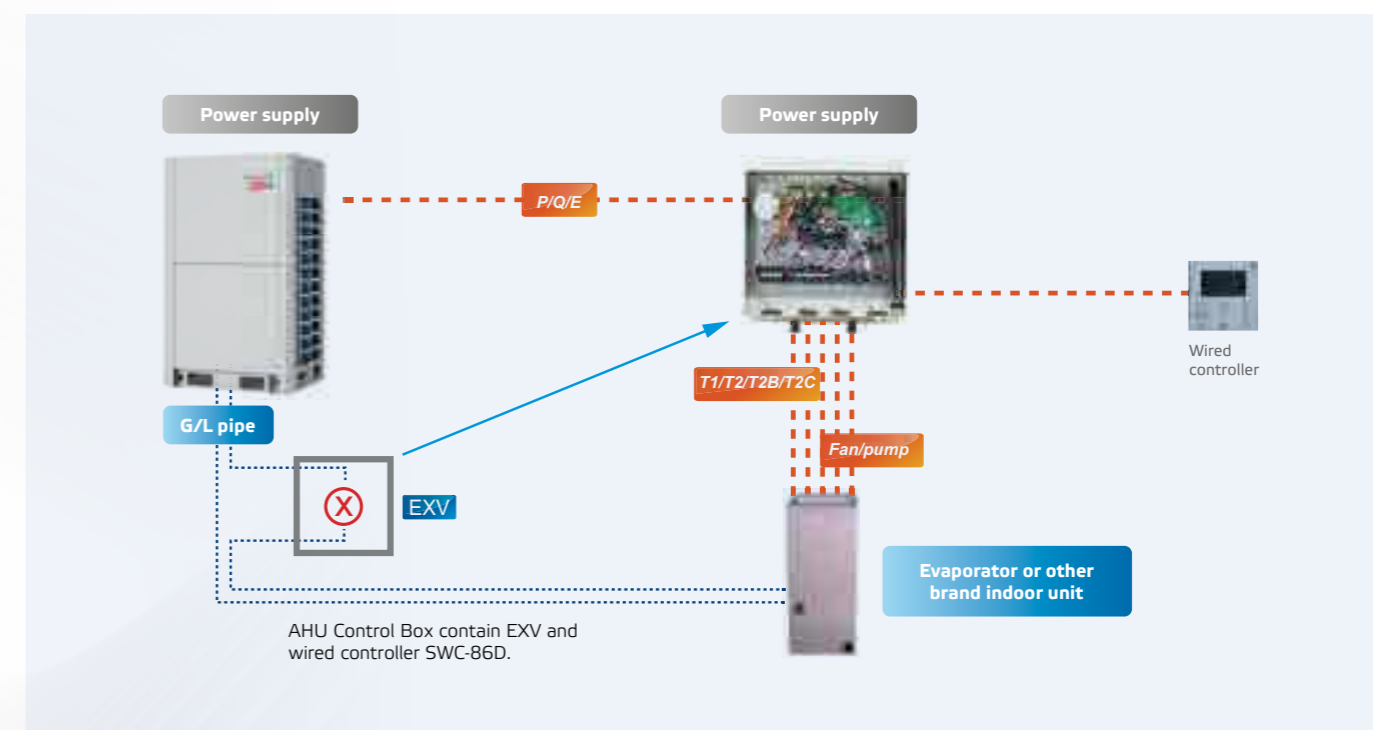
AHU Control Box

- AHUKZ-00D (2-8 kW)
- AHUKZ-01D (9-20 kW)
- AHUKZ-02D (21-36 kW)
- AHUKZ-03D (37-56 kW)



FEATURES

- Integration of all SDV outdoor units with air handling unit refrigerant exchangers
- It is a control interface that allows control of an external exchanger using a Sinclair controller
- Next possibility is to use external control 0-10V
- This voltage means set-up temperature of heating or cooling. AHUKZ is for 2-pipes systems and now can be connected to a 3-pipes SDV5-3P systems
- Control using 0-10V also allows control according to the power of the outdoor unit 10-100%
- The SWC-86ED wall controller is included
- The equipment includes an expansion valve for refrigerant control



NEW

Hydrobox SDV5-140HB3P

Water heater, which joins the 3-pipe systems SDV5-3P



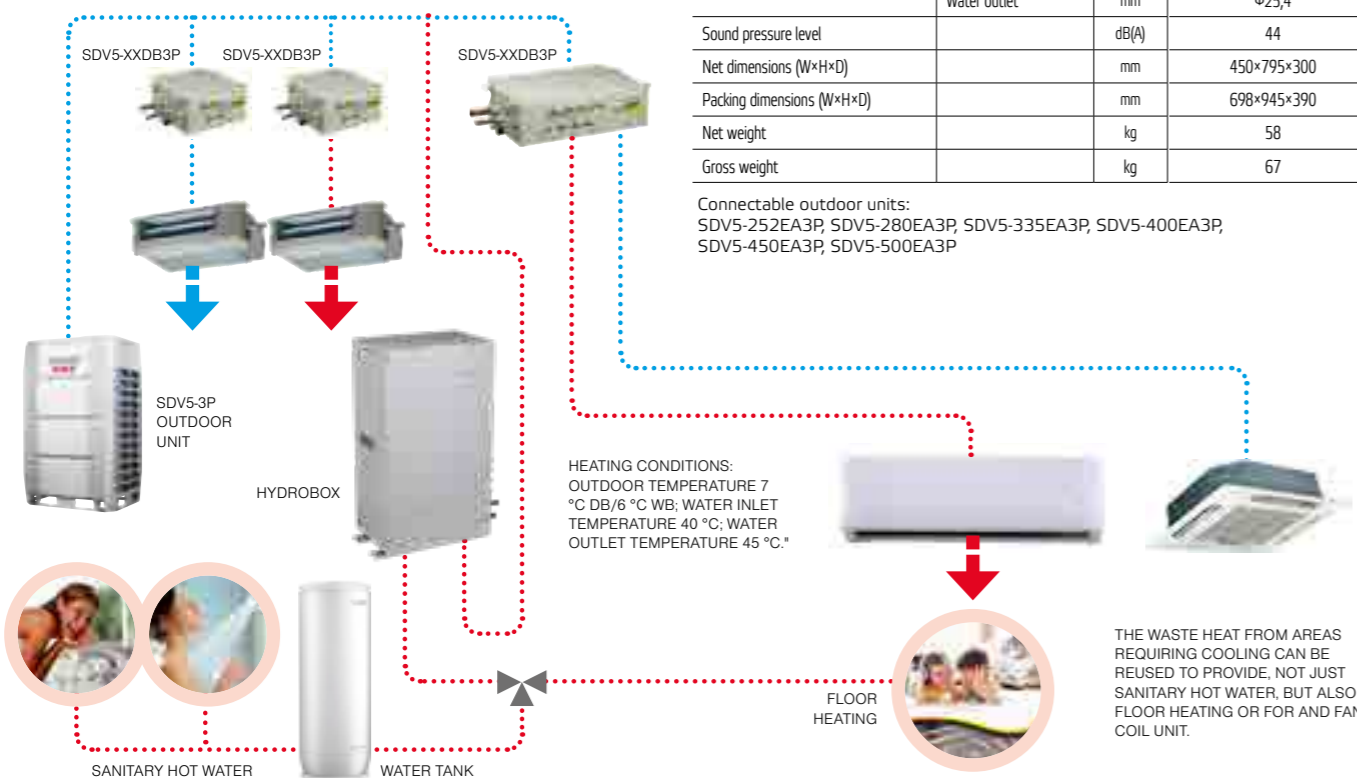
FEATURES

- High efficiency, heat recovery
- Easy installation
- Indoor installation

Model		SDV5-140HB3P	
Water heating capacity		kW	14
Operating temperature range	Heating	mm	-20-30
	Hot water	mm	-20-43
Refrigerant	Type		R134a
	Factory charge	kg	1,2
Piping connections	Liquid pipe	mm	φ9,53
	Gas pipe	mm	φ12,7
	Water inlet	mm	φ25,4
	Water outlet	mm	φ25,4
Sound pressure level		dB(A)	44
Net dimensions (W×H×D)		mm	450×795×300
Packing dimensions (W×H×D)		mm	698×945×390
Net weight		kg	58
Gross weight		kg	67

Connectable outdoor units:
SDV5-252EA3P, SDV5-280EA3P, SDV5-335EA3P, SDV5-400EA3P,
SDV5-450EA3P, SDV5-500EA3P

HEATING CONDITIONS:
OUTDOOR TEMPERATURE 7 °C DB/6 °C WB; WATER INLET TEMPERATURE 40 °C; WATER OUTLET TEMPERATURE 45 °C.*



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.

ACCESSORIES SDV4 AND SDV5

2021-2022

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. Supports 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.



CCM-270A

Central touch screen 10,1 inches. It allows a maximum level of managing and controlling indoor units. It supports internet connection. It includes IMMPRO software for calculation of electricity consumption by means of DTS-634.



SDV5-EK

Extension kit. It allows connecting two central controllers or one central controller and BMS control.



AHU KIT

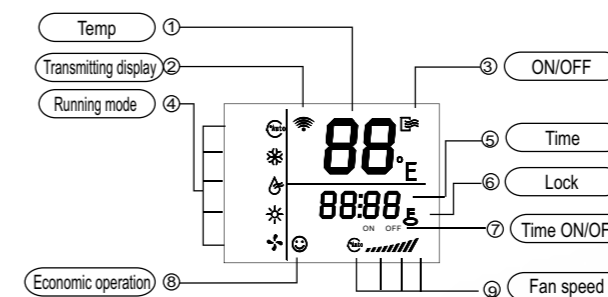
Sinclair AHU kit is device that connects the evaporator of indoor units of other manufacturers with outdoor units of SDV4 and SDV5 system. Can be controlled via 0-10V.

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.

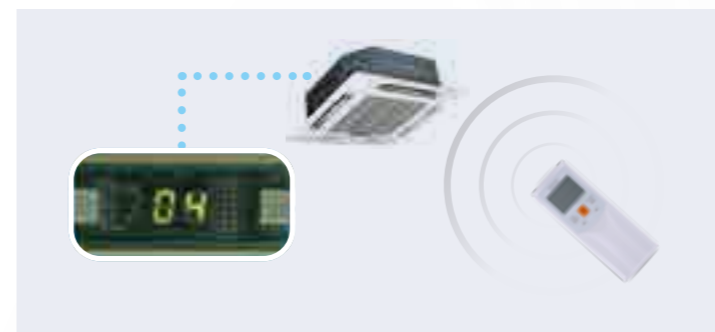


BUILT-IN TIMER

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-86ED



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.



RECEIVING SENSOR OF INFRARED REMOTE CONTROL WITH SERVICE ACCESS SUPPORT

Wall mounted controller includes a signal receiver for remote controlling. Received signal is immediately sent to an indoor unit and performed.

Thanks to a two-way communication, the controller can show an error in case of a defect and also parameters/errors of an outdoor unit of SDV5 series which makes the job easier for service technicians.



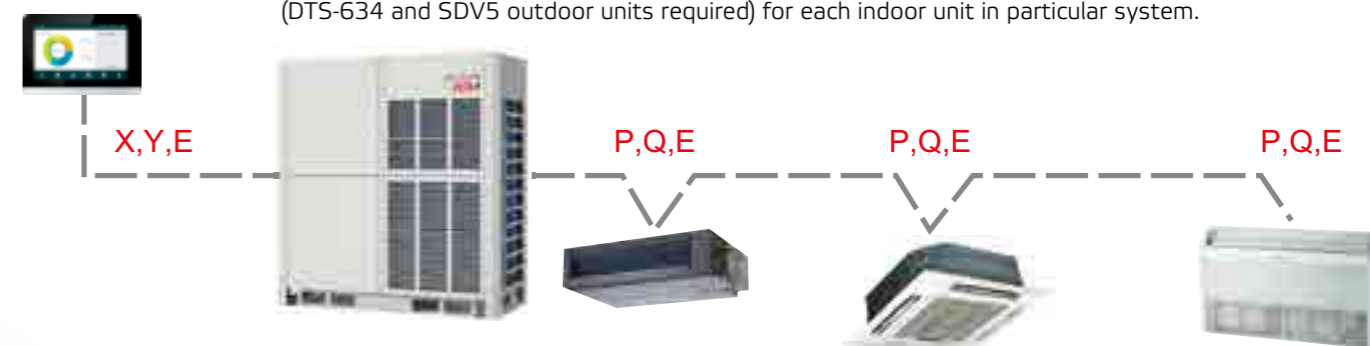
Centralized Controllers of Indoor Units

CCM-180A, CCM-270A, CCM15



CENTRALIZED CONTROL

CCM-180A (CCM-270A) is a multifunctional device that can control up to 64 (384) indoor units within a maximum connection length of 1 200 m. Centralized controller is connected directly to outdoor units by X,Y,E connection. It 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. CCM-270A has a possibility to be connected to internet also by means of WiFi access. Thanks to IMMPRO software it is possible to calculate real energy consumption (DTS-634 and SDV5 outdoor units required) for each indoor unit in particular system.

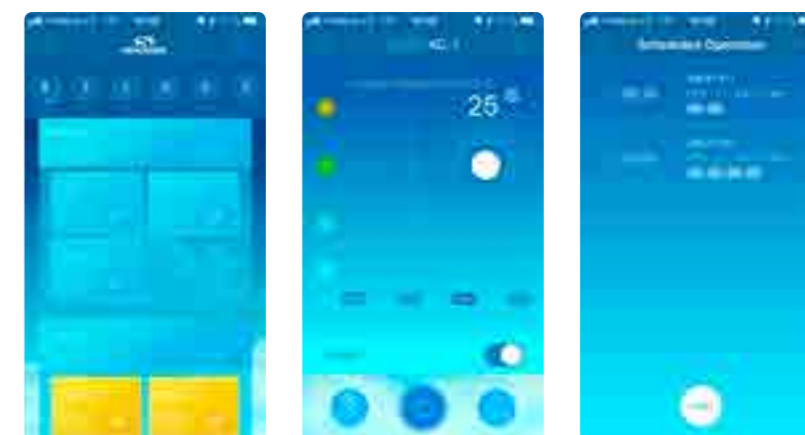


CCM15 DATA CONVERTER - REMOTE CONTROL

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 and for Android from webpage: <http://www.aircontrolbase.com/login.html>

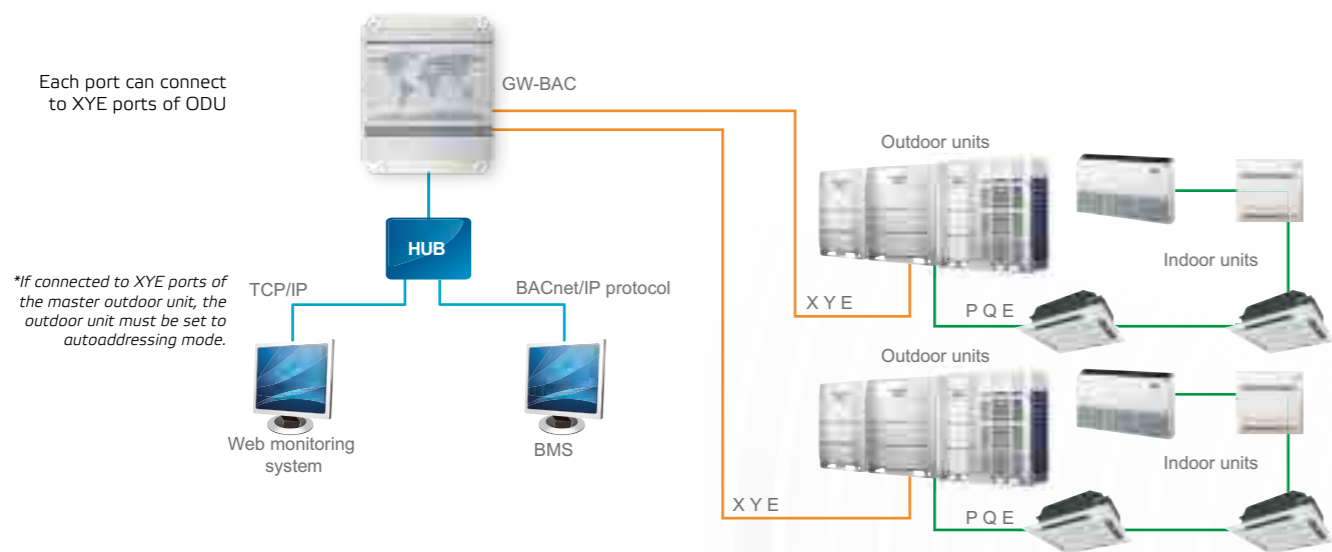


BMS Gateway BACnet GW-BAC



- 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 using IMM software

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.



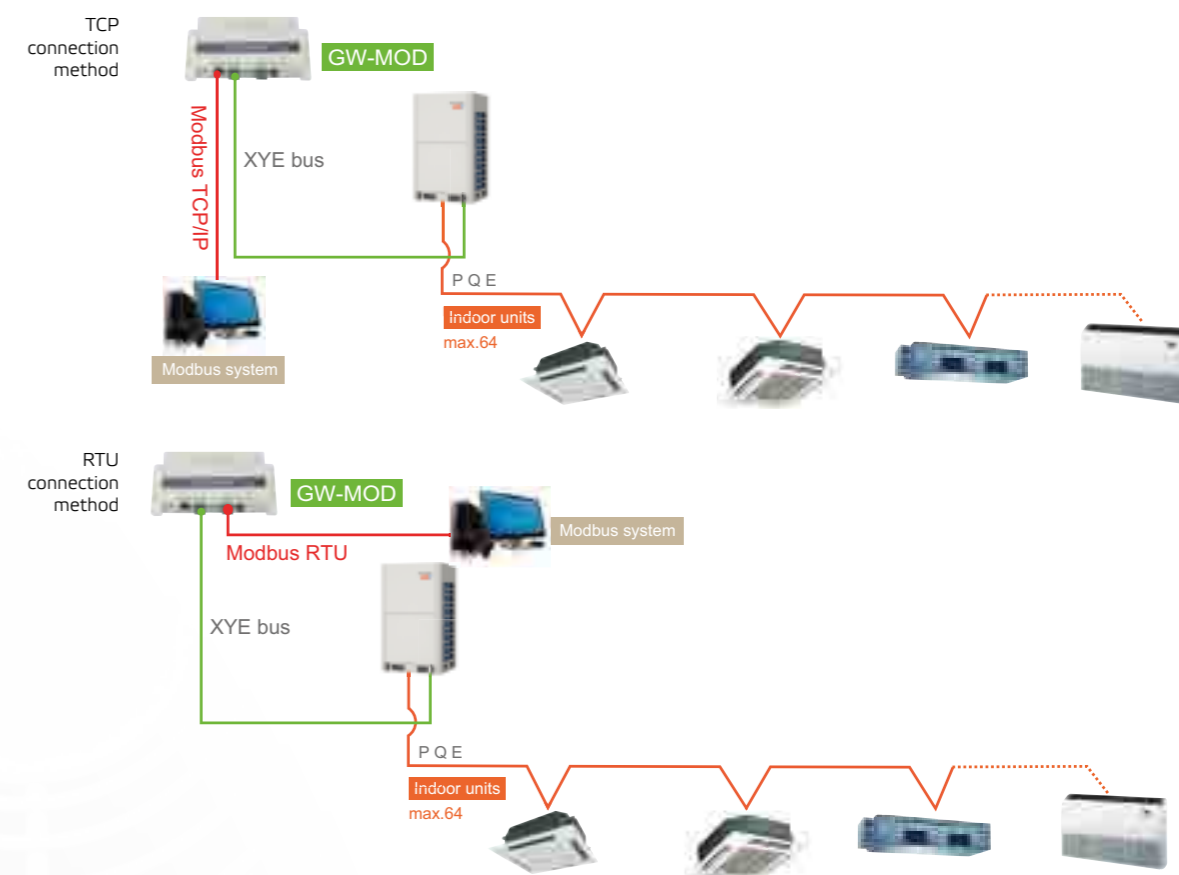
BMS Gateway Modbus SDV5-MOD



NEW

- Supports Modbus protocol networks
- Connects Sinclair systems to BMS
- Allows to connect up to 64 indoor units
- Built-in WEB server function
- Up to 8 refrigerant circuits

CONNECTION EXAMPLES

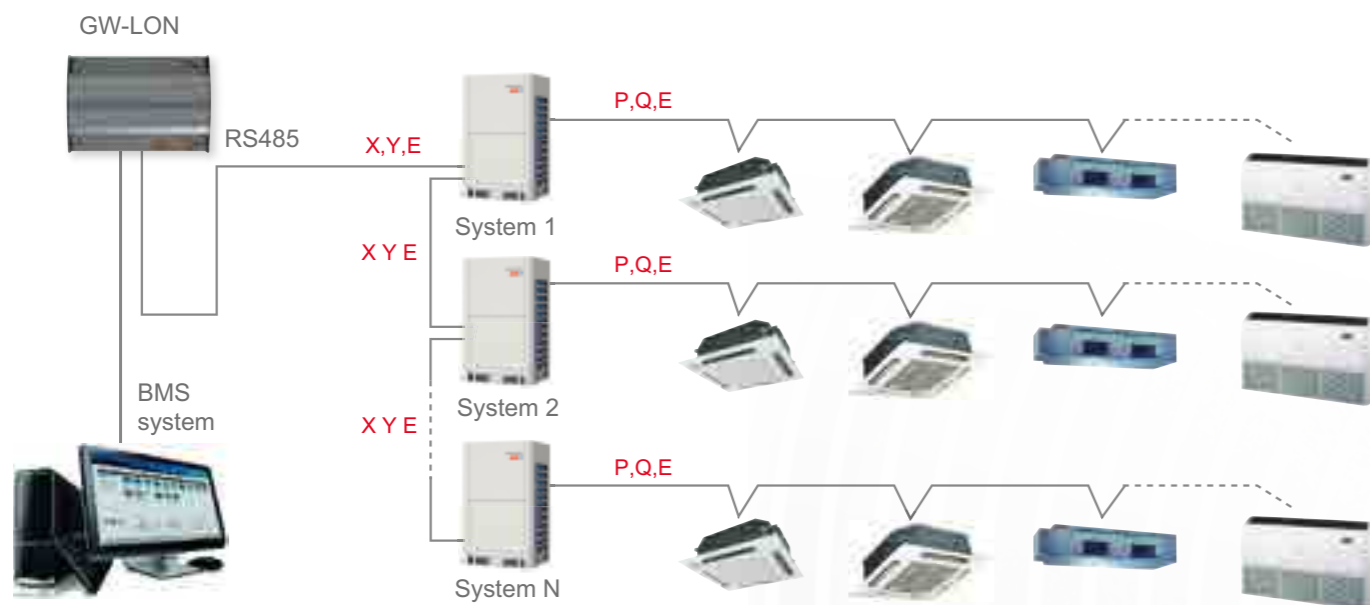


BMS Gateway LonWorks GW-LON



- Compliance with LonMark protocol, manages and controls of A/C
- Can connect up to 32 indoor units
- Uses non-polarity communication

NETWORK EXAMPLE (UP TO 32 INDOOR UNITS)



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



Distribution boxes for 3-pipes systems



Model		SDV5-01DB3P	SDV5-04DB3P	SDV5-06DB3P	SDV5-08DB3P		
Max. indoor unit groups		1	4	6	8		
Max. number of each group indoor units		8	5	5	4		
Max. number of all downstream indoor units		8	20	30	40		
Max. capacity of each group indoor units	kW	32	16	16	16		
Total capacity of all downstream indoor units	kW	≤32	≤49	≤63	≤85		
Piping connections	Connect to outdoor unit	Liquid pipe	mm	φ9,53/12,7	φ9,53/12,7/15,9/19,1	φ9,53/12,7/15,9/19,1	φ12,7/15,9/19,1/22,2
		High pressure gas pipe	mm	φ15,9/19,1/22,2	φ19,1/22,2/28,6	φ19,1/22,2/28,6	φ22,2/28,6/34,9
	Connect to indoor unit	Low pressure gas pipe	mm	φ12,7/15,9/19,1	φ15,9/19,1/22,2/28,6	φ15,9/19,1/22,2/28,6	φ19,1/22,2/28,6
		Liquid pipe	mm	φ6,4/9,5	φ6,4/9,5	φ6,4/9,5	φ6,4/9,5
	Gas pipe	mm	φ12,7/15,9	φ12,7/15,9	φ12,7/15,9	φ12,7/15,9	
Sound pressure level	dB(A)	40	44	45	47		
Net dimension (W×H×D)	mm	440×195×296	668×250×574	668×250×574	974×250×574		
Packing size (W×H×D)	mm	740×275×405	1020×390×850	1020×390×850	1320×390×850		
Net weight	kg	10,5	33	36	48		
Gross weight	kg	14	58	61	79		

Model		SDV5-10DB3P	SDV5-12DB3P		
Max. indoor unit groups		10	12		
Max. number of each group indoor units		4	4		
Max. number of all downstream indoor units		47	47		
Max. capacity of each group indoor units	kW	16	16		
Total capacity of all downstream indoor units	kW	≤85	≤85		
Piping connections	Connect to outdoor unit	Liquid pipe	mm	φ12,7/15,9/19,1/22,2	φ12,7/15,9/19,1/22,2
		High pressure gas pipe	mm	φ22,2/28,6/34,9	φ22,2/28,6/34,9
		Low pressure gas pipe	mm	φ19,1/22,2/28,6	φ19,1/22,2/28,6
	Connect to indoor unit	Liquid pipe	mm	φ6,4/9,5	φ6,4/9,5
Gas pipe		mm	φ12,7/15,9	φ12,7/15,9	
Sound pressure level	dB(A)	47	47		
Net dimension (W×H×D)	mm	974×250×574	974×250×574		
Packing size (W×H×D)	mm	1320×390×850	1320×390×850		
Net weight	kg	51	54		
Gross weight	kg	82	85		

HOT GAS FOR HEATING AND COOL LIQUID FOR COOLING

Sinclair SDV5-xxDB3P 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.



Chillers and Fan Coils Water cooling

Water. Colorless, clear, tasteless but still precious liquid essential for our everyday life. You can even use it for cooling and heating.

Chillers are used for air conditioning of buildings or for industrial cooling.

They are widely used from small family houses to buildings of the largest dimensions, due to the almost unlimited possibilities of water pipes.

FEATURES

- Convector-based indoor units
- Main part is a fan and heat exchanger
- Work similarly to air conditioning, but the medium here is water
- We offer wall, cassette, duct and floor-ceiling fan coils



MINI CHILLERS

Sinclair DC Inverter Mini Chillers adopt unitary structure design and a hydraulic module is built in the outdoor unit. It is an air-cooled water heat pump chiller so there is no need of cooling water tower at the condensing side.

Cooling capacity of DC inverter Mini Chillers range is from 5 kW to 16 kW and it can be freely combined with fan coil units & floor heating. These units are designed for residential applications or light commercial applications that require cold or hot water.

MODULAR CHILLERS

Sinclair DC Inverter Modular Chillers adopt inner grooved copper tubes and hydrophilic aluminium fins greatly improving heat exchange in units of 30 kW, 60 kW and 90 kW. By the maximum combination of 16 units it is possible to get capacity of 1 440 kW. These modular chillers use high efficient DC inverter compressors. The advantage of modular connection is that if one module fails, other modules can become the back-up to provide a continuing operation.

Chillers are freely combinable with fan coil units and air handling units. Project owners may choose the best types according to their design taste (for interior) or needs for functions.



Air-Cooled Full DC Inverter Mini Chillers

FEATURES

- Energy saving – energy class A+
- High efficient DC inverter compressor and DC fan motor
- Low noise emission
- Easy installation and high reliability
- Integrated and compact design - include the hydraulic module
- High-performance heat exchanger
- Reliable operation – built-in controller & water pressure gauge
- Water pump starts/stops compulsory function
- Built-in electronic controller
- Wide operation temperature range and outlet water temperature range

Mode	Ambient temperature range	Inlet water temperature range
Cooling	-5 °C ~ 46 °C	10 °C ~ 20 °C
Heating	-15 °C ~ 27 °C	35 °C ~ 50 °C

WIRED CONTROLLER KJR-120F (OPTIONAL)

- Touch key operation
- Multiple timer
- Real time clock



Model			SCV-50EA	SCV-70EA	SCV-100EA	SCV-120EA	SCV-140EA	SCV-160EA
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50		
Cooling ¹	Capacity	kW	5,0 (1,9-5,8)	7,0 (2,1-7,8)	10,0 (2,9-10,5)	11,2 (3,1-12,0)	12,5 (3,3-14,0)	14,5 (3,5-15,5)
	Rated input	W	1550	2250	2950	3380	3900	4700
	Rated current	A	6,8	9,9	13,0	5,5	6,4	7,7
	EER	-	3,23	3,11	3,39	3,31	3,21	3,09
Cooling ²	Capacity	kW	5,6	8,0	10,6	12,2	14,2	15,6
	Rated input	W	1150	1850	2300	2600	3100	3600
	EER	-	4,87	4,32	4,61	4,69	4,58	4,33
	SEER	-	5,83	6,07	5,71	6,18	6,69	6,78
Heating ³	Capacity	kW	6,2 (2,1-7,0)	8,0 (2,3-9,0)	11,0 (3,2-12,0)	12,3 (3,3-13,2)	13,8 (3,5-15,4)	16,0 (3,7-17,0)
	Rated input	W	1900	2500	3140	3720	4250	4850
	Rated current	A	8,3	11,0	13,8	6,1	7,0	8,0
	COP	-	3,26	3,20	3,50	3,31	3,25	3,30
Heating ⁴	Capacity	kW	6,2	8,6	11,5	13,0	15,1	16,5
	Rated input	W	1350	2100	2650	2850	3350	3920
	COP	-	4,59	4,10	4,34	4,56	4,51	4,21
	SCOP	-	3,55	3,46	3,34	3,66	3,78	3,39
Seasonal space heating energy efficiency (η _s)			138,9%	135,3%	130,7%	143,5%	148,3%	132,6%
Seasonal space heating energy efficiency class			A+	A+	A+	A+	A+	A+
Max. input current		A	11,4	13,7	25	8,9	9,6	10,1
Compressor	Type		ROTARY					
Outdoor fan	Motor type		DC Motor					
	Air flow	m ³ /h	5100	5100	7000	7000	7000	7000
Air heat exchanger	Type		Fin-coil					
Water heat exchanger	Type		Plate heat exchanger					
	Water volume	L	0,53	0,53	0,70	0,78	0,78	1,06
	Water flow	m ³ /h	0,86	1,20	1,72	1,92	2,15	2,49
	Water pressure drop	kPa	15	15	18	18	18	19
Water pump	Pump head	m	5,5	5,5	8,5	8,5	8,5	8,5
	Max. water flow	m ³ /h	2,5	2,5	4	4	4	4
Expansion tank volume		L	2	2	3	3	3	3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	kg / t eq. CO ₂	2,5 / 5,22	2,5 / 5,22	2,8 / 5,8	2,8 / 5,8	2,9 / 6,0	3,2 / 6,7
Throttle type			Electronic expansion valve					
Sound power level	dB(A)		63	66	68	68	70	72
Sound pressure level ⁵	dB(A)		58	58	59	62	62	62
Unit net dimension (WxHxD)	mm		990x966x354	990x966x354	970x1327x400	970x1327x400	970x1327x400	970x1327x400
Packing dimension (WxHxD)	mm		1120x1100x435	1120x1100x435	1082x1456x435	1082x1456x435	1082x1456x435	1082x1456x435
Net / Gross weight	kg		81/91	81/91	110/121	110/121	111/122	111/122
The Max. and Min. water inlet pressure ⁶		kPa	500/150	500/150	500/150	500/150	500/150	500/150
Pipe connections	Water inlet/outlet	inch	1	1	1-1/4	1-1/4	1-1/4	1-1/4
Controller			Electronic controller (standard)					
Ambient temperature range	Cooling	°C	-5-46	-5-46	-5-46	-5-46	-5-46	-5-46
	Heating	°C	-15-27	-15-27	-15-27	-15-27	-15-27	-15-27
Water inlet temperature range	Cooling	°C	10-20	10-20	10-20	10-20	10-20	10-20
	Heating	°C	35-50	35-50	35-50	35-50	35-50	35-50

Nominal capacity is based on the following conditions:

1. Condenser air in 35 °C. Evaporator water in/out 12/7 °C
2. Condenser air in 35 °C. Evaporator water in/out 23/18 °C
3. Evaporator air in 7 °C 85% R.H. Condenser water in/out 40/45 °C
4. Evaporator air in 7 °C 85% R.H. Condenser water in/out 30/35 °C
5. 1 m far from fan side of unit in open field
6. The maximum and minimum operating pressure values refer to the activation of the pressure switches
7. The above data test reference standard EN14511:2014; EN14825:2016; EN50564:2011; EN12102:2014; (EU)No:811:2013; (EU)No:813:2013

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088. Noise is tested in the semi-anechoic

room, so it should be slightly higher in the actual Operation due to environmental change. Power input is tested under standard condition.



Air-Cooled DC Inverter Modular Chillers

FEATURES

- Modular design concept
- Combination of up to 16 modules
- SCV-600EA may be connected only with the same type
- SCV-300EB and SCV-600EB use ecological refrigerant R32
- SCV-300EB + SCV-600EB may be combined
- SCV-900EA may be connected only with the same type
- Easy connection of the main unit and slave units
- All units can be connected together with a three-core wired controller in series type
- Flexible pipe connection and installation
- On PCB you can remotely control: ON/OFF, heating/cooling, alarm
- Economical operation
- Easy transportation and installation
- Back-up functions (in combined system) - if one module fails, other modules are back-up for the failed one to provide a continuing operation
- High efficient full DC inverter compressor
- SCV-900EA uses EVI compressors which increase the efficiency of the system and heat up to -20 °C of outdoor temperature
- Wide ambient and water outlet temperature range

Model			SCV-300EB	SCV-600EA	SCV-600EB	SCV-900EA
Power supply		V/Ph/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	27,5	55	55	82
	Input	kW	10,3	22	21,5	36,8
	EER	-	2,67	2,50	2,55	2,22
	SEER	-	4,62	4,20	4,00	4,32
Heating ²	Capacity	kW	32	61	62	90
	Input	kW	10	20,3	20	32,8
	COP	-	3,20	3,00	3,10	2,80
	SCOP	-	4,24	3,85	3,86	3,99
Max. running current		A	20,0	36,8	40,5	60
Compressor	Type	-	DC inverter rotary	DC inverter rotary	DC inverter rotary	DC inverter rotary
	Quantity	Pieces	1	2	2	2
Air side heat exchanger	Type	-	Finned tube	Finned tube	Finned tube	Finned tube
	Quantity of fan motor	Pieces	1	2	2	3
	Air flow	m ³ /h	12 500	24 000	24 000	38 000
Water side heat exchanger	Type	-	Plate	Plate	Plate	Plate
	Water pressure drop	kPa	55	80	61	75
	Volume	L	2,44	5,17	5,17	7,76
	Water flow volume	m ³ /h	5	9,8	9,8	15
Refrigerant	Type	-	R32	R410A	R32	R410A
	Charged volume	kg / t eq. CO ₂	7,9 / 5,33	17 / 35,5	14 / 9,5	27 / 56,4
	Throttle type	-	EXV	EXV + Capillary	EXV + Capillary	EXV
Sound pressure level ³		dB(A)	65	72	71	80
Unit net dimension (DxHxW)		mm	1870x1175x1000	2220x1325x1055	2220x1325x1055	3220x1095x1513
Packing dimension (DxHxW)		mm	1910x1225x1035	2250x1370x1090	2250x1370x1090	3270x1130x1540
Net / Gross weight		kg	300/310	480/490	480/490	710/739
Pipe connections	Water inlet/outlet	mm	DN40	DN50	DN50	DN50
Water pipe connection type		-	Threaded connection	Clasp connection	Clasp connection	Clasp connection
Controller			Wired controller KJRM-120H (standard)			
Ambient temperature range	Cooling	°C	-10-43			
	Heating	°C	-14-30	-15-30	-14-30	-20-30
Water outlet temperature range	Cooling	°C	5-20			
	Heating	°C	25-54	25-55	25-54	25-55

SCV-300EB, SCV-600EA, SCV-600EB and SCV-900EA don't include hydraulic module due to variabilities of particular projects.

1. Cooling: Chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB.
2. Heating: Warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB.
3. 1 m far from unit in open field.

The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used:2088. Noise is tested in the semi-anechoic room, so it should be slightly higher due to change of location. Power input is tested under standard conditions.R32 (100% HFC-32), GWP of refrigerant: 675.



FOUR-WAY CASSETTE, 2 PIPES

- Fresh air connection
- Possibility of air outlet into small room
- DC brushless fan motor
- Drainage water pump
- High efficient heat exchanger
- Advanced 3D spiral fan
- Long term filter
- Support Modbus RTU SF-xxxC2M



FOUR-WAY CASSETTE, 2 PIPES HAS REMOTE CONTROLLER R05 AS STANDARD

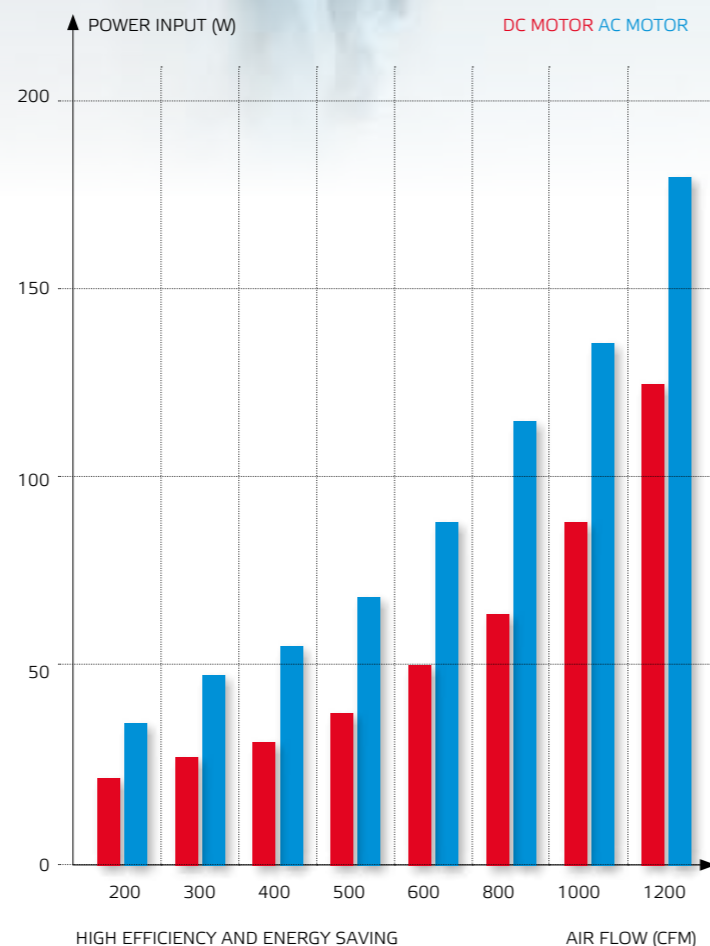
Fan Coil Units

ADVANTAGE OF FAN COIL UNITS WITH DC BRUSHLESS FAN MOTOR

The DC fan coil units are the new energy saving products improved with advanced DC driven technology. The DC fan coil units have advanced technology of high-energy efficiency, low noise operation and precise temperature control, so they are ideal for hospitals, office buildings, hotels, airports and various other applications.

TYPE OF UNIT

- C2** Four-way cassette unit, 2 pipes
- C4** Four-way cassette unit, 4 pipes
- H** Wall mounted unit, 2 pipes
- D3** Duct, 3 rows, 2 pipes
- F3** Floor ceiling, 3 rows, 2 pipes
- SF** Designation for sinclair fan coil



HIGH EFFICIENCY AND ENERGY SAVING

Sinclair DC FCU adopts the brushless DC motor whose efficiency is up to 90%. In contrast with the original FCU, DC FCU power consumption can be reduced by more than 30%.

Model		SF-300C2(M)	SF-400C2(M)	SF-500C2(M)	SF-600C2(M)	SF-750C2(M)	SF-850C2(M)	SF-950C2(M)	SF-1500C2(M)	
Power supply	V/Ph/Hz	220-240/1/50			220-240/1/50					
Air flow (H/M/L)	m³/h	535/429/322	610/477/381	781/611/494	1175/987/768	1229/1020/810	1451/1146/1012	1530/1224/1101	1871/1415/1198	
	CFM	314/252/189	359/281/224	459/359/290	691/580/451	722/600/476	853/674/595	900/720/647	1100/832/704	
Cooling	Capacity (H/M/L)	2,98/2,53/2		3,96/3,26/2,76	4,2/3,48/3,01	5,93/5,3/4,4	6,12/5,45/4,6	7,52/6,46/5,89	7,84/6,84/6,35	11,19/8,82/7,48
	Water flow rate	0,53/0,45/0,35		0,7/0,58/0,51	0,75/0,61/0,54	1,05/0,92/0,77	1,10/0,96/0,81	1,37/1,18/1,07	1,43/1,24/1,13	1,96/1,53/1,28
	Water pressure drop	10/7/5		11,48/8,2/6,54	12,32/8,62/7,4	19,2/15,4/11	21,3/21,3/12,4	20,1/15,3/12,6	22/17/14,1	36,6/22,7/16,4
Heating	Capacity (H/M/L)	4,01/3,35/2,61		5,4/4,34/3,57	5,76/4,69/3,84	8,42/7,37/6,06	8,62/7,49/6,27	10,37/8,72/7,88	10,86/9,24/8,49	14,92/11,73/10,07
	Water pressure drop	8,2/6/3,8		16,68/6,4/4,92	12,68/6,4/4,92	11,41/6,5/5,41	19,1/14,8/10,6	18,2/13,6/11,1	19,9/15,2/12,6	34,3/21,3/15
Max. power input	W	15	28	43	42	49	68	76	128	
Sound pressure level (H/M/L)	dB(A)	39/33/27	42/36/30	43/38/32	43/39/33	44/40/34	45/40/37	46/42/39	49/43/39	
Fan motor	Type	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	
	Quantity	1	1	1	1	1	1	1	1	
Fan	Type	Centrifugal, forward-curved blades			Centrifugal, forward-curved blades					
	Quantity	1	1	1	1	1	1	1	1	
Coil	Row	2	2	2	2	2	2	2	3	
	Max. working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6	
	Diameter	mm	φ7	φ7	φ7	φ7	φ7	φ7	φ7	
Panel	Net dimensions (WxHxD)	mm	647x50x647	647x50x647	647x50x647	950x45x950	950x45x950	950x45x950	950x45x950	
	Packing size (WxHxD)	mm	715x123x715	715x123x715	715x123x715	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	
	Net weight	kg	2,5	2,5	2,5	6	6	6	6	
	Gross weight	kg	4,5	4,5	4,5	9	9	9	9	
Body	Net dimensions (WxHxD)	mm	575x261x575	575x261x575	575x261x575	840x230x840	840x230x840	840x300x840	840x300x840	
	Packing size (WxHxD)	mm	670x290x670	670x290x670	670x290x670	900x260x900	900x260x900	900x330x900	900x330x900	
	Net weight	kg	16,5	16,5	16,5	23	23	27	29,5	
	Gross weight	kg	22,5	22,5	22,5	28	28	33	34,5	
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4	RC3/4	RC3/4	RC3/4	RC3/4	
	Drain pipe	mm	φ25	φ25	φ25	φ32	φ32	φ32	φ32	

Four-way cassette with 2 pipes doesn't include 3 or 2-way valve in the package. The valve uses the characteristics of NC (normally closed) and power supply 230V from fan coil unit. SINCLAIR doesn't offer valves.

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7 °C, temperature rise 5 °C, entering air temperature 27 °C DB/19 °C WB. Heating conditions: entering water 50 °C, entering air temperature 20 °C DB, the same water flow as the cooling conditions.
3. Noise is tested in a semi-anechoic test room.

FOUR-WAY CASSETTE, 4 PIPES

- Independent connection to the heating and cooling circuits
- Fresh air connection
- Possibility of air outlet into small room
- DC brushless fan motor
- Drainage water pump
- High efficient heat exchanger
- Advanced 3D spiral fan
- Long term filter
- Support Modbus RTU SF-xxxC4M



FOUR-WAY CASSETTE, 4 PIPES HAS REMOTE CONTROLLER R05 AS STANDARD

Model		SF-300C4 (M)	SF-400C4 (M)	SF-500C4 (M)	SF-600C4 (M)	SF-750C4 (M)	SF-950C4 (M)	SF-1200C4 (M)	SF-1500C4 (M)	
Power supply	V/Ph/Hz	220-240/1/50								
Air flow (H/M/L)	m³/h	493/395/295	669/523/415	673/526/425	1184/997/783	1278/1057/855	1403/1115/1001	1642/1421/1285	1708/1297/1096	
	CFM	290/232/173	393/307/244	395/309/250	696/586/460	751/621/502	824/655/588	965/835/755	1004/762/644	
Cooling	Capacity (H/M/L)	2,16/1,86/1,49	2,78/2,38/2,05	2,77/2,38/2,07	4,96/4,38/3,64	5,18/4,56/3,88	5,31/4,59/4,28	7,98/7,25/6,7	8,04/6,62/5,84	
	Water flow rate	m³/h	0,42/0,37/0,3	0,53/0,46/0,4	0,56/0,49/0,43	0,9/0,8/0,67	0,94/0,83/0,71	0,96/0,84/0,78	1,42/1,29/1,2	1,43/1,19/1,05
	Water pressure drop	kPa	17,4/13,5/9,3	13,15/9,4/7	16,8/13,1/10,3	14,8/11,5/8,1	15,9/12,4/9	16,4/12,6/10,9	33,9/30/24	33/22,6/17,7
Heating	Capacity (H/M/L)	3,56/2,99/2,36	4,25/3,58/3,02	4,51/3,79/3,22	6,94/6,22/5,27	7,37/6,53/5,6	7,66/6,65/6,2	11,05/10,15/9,5	11,34/9,6/8,7	
	Water flow rate	m³/h	0,36/0,31/0,25	0,41/0,36/0,31	0,47/0,4/0,36	0,64/0,58/0,5	0,68/0,61/0,53	0,71/0,62/0,58	1,0/0,92/0,87	1,02/0,87/0,79
	Water pressure drop	kPa	29,8/21,7/14,3	30,4/22,2/16,7	36,1/25,9/19	37,2/26,1/19,3	39,5/32,5/23,8	43,8/33,5/29,3	52,1/44,9/40,6	62,1/45,7/38,3
Max. power input	W	24	38	42	62	72	90	121	139	
Sound pressure level	dB(A)	39/33/27	42/35/30	44/39/31	42/37/31	44/39/33	46/41/38	48/44/42	49/43/38	
Fan motor	Type	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	
	Quantity	1	1	1	1	1	1	1	1	
Fan	Type	Centrifugal, forward-curved blades				Centrifugal, forward-curved blades				
	Quantity	1	1	1	1	1	1	1	1	
Coil	Row	2	2	2	2	2	2	3	3	
	Max. working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6	
	Diameter	mm	φ7	φ7	φ7	φ7	φ7	φ7	φ7	
	Diameter	mm	φ7	φ7	φ7	φ7	φ7	φ7	φ7	
Panel	Net dimensions (WxHxD)	mm	647x50x647	647x50x647	647x50x647	950x45x950	950x45x950	950x45x950	950x45x950	
	Packing size (WxHxD)	mm	715x123x715	715x123x715	715x123x715	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	
	Net weight	kg	2,5	2,5	2,5	6	6	6	6	
	Gross weight	kg	4,5	4,5	4,5	9	9	9	9	
Body	Net dimensions (WxHxD)	mm	575x261x575	575x261x575	575x261x575	840x300x840	840x300x840	840x300x840	840x300x840	
	Packing size (WxHxD)	mm	670x290x670	670x290x670	670x290x670	900x330x900	900x330x900	900x330x900	900x330x900	
	Net weight	kg	16,7	16,7	16,7	27,5	27,5	27,5	30	
	Gross weight	kg	22,7	22,7	22,7	33,5	33,5	32,4	35	
Pipe connections	Water inlet/outlet pipe	inch	Cold water: G3/4; Hot water: G1/2				Cold water: RC3/4; Hot water: RC1/2			
	Drain pipe	mm	φ25	φ25	φ25	φ32	φ32	φ32	φ32	

Four-way cassette with 4 pipes doesn't include 3 or 2-way valves for cold and hot water in the package. The valve uses the characteristics of NC (normally closed) and power supply 230V from fan coil unit. SINCLAIR doesn't offer valves.

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7 °C, temperature rise 5 °C, entering air temperature 27 °C DB/19 °C WB. Heating conditions: entering water 70 °C, temperature drop 10 °C DB, entering air temperature 20 °C DB.
3. Noise is tested in a semi-anechoic test room.

WALL MOUNTED UNITS, 2 PIPES

- Digital LED display
- Easy installation
- Built-in 3-way electromagnetic valve
- DC fan motor
- Auto swing louver
- Support Modbus RTU SF-xxxHM



WALL MOUNTED UNITS HAVE REMOTE CONTROLLER R05 AS STANDARD

Model		SF-250H (M)	SF-400H (M)	SF-600H (M)	
Power supply	V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)	m³/h	492/454/400	825/689/590	979/849/717	
	CFM	289/267/235	485/405/347	575/499/421	
Cooling	Capacity (H/M/L)	2,7/2,59/2,39	3,81/3,3/2,88	4,87/4,26/3,79	
	Water flow rate	m³/h	0,48/0,46/0,42	0,67/0,57/0,51	0,85/0,72/0,65
	Water pressure drop	kPa	31,6/28,6/25,4	56,8/41,2/33	50,7/39,5/33,7
Heating	Capacity (H/M/L)	3,29/3,03/2,63	5,08/4,33/3,77	6,31/5,57/4,77	
	Water flow rate	m³/h	0,36/0,31/0,25	0,41/0,36/0,31	0,47/0,4/0,36
	Water pressure drop	kPa	37,5/30,3/26,5	61,9/37,9/30,3	51,7/36,3/30,3
Max. power input	W	13	34	38	
Sound pressure level (H/M/L)	dB(A)	32/30/27	45/39/35	44/40/35	
Fan motor	Type	DC Motor	DC Motor	DC Motor	
	Quantity	1	1	1	
Fan	Type	Tangential fan			
	Quantity	1	1	1	
Coil	Row	2	2	2	
	Max. working pressure	MPa	1,6	1,6	
	Diameter	mm	φ7	φ7	
	Diameter	mm	φ7	φ7	
Net dimensions (WxHxD)	mm	915x290x230	915x290x230	1072x315x230	
Packing size (WxHxD)	mm	1020x390x315	1020x390x315	1180x415x315	
Net weight	kg	12,7	12,7	14,9	
Gross weight	kg	17,3	16,3	18,6	
Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4	
Drain pipe	mm	φ20	φ20	φ20	

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7 °C, temperature rise 5 °C, entering air temperature 27 °C DB/19 °C WB. Heating conditions: entering water 70 °C, temperature drop 10 °C DB, entering air temperature 20 °C DB.
3. Noise is tested in a semi-anechoic test room.

DUCT, 3 ROWS, 2 PIPES

- Intelligent electronic control
- High efficient heat exchanger
- Longer V shape drainage pan
- DC brushless fan motor
- Fresh air intake
- Possibility of using external control of fan speed (low, medium, high) by 230V



OPTIONAL WIRED CONTROLLER
KJR-18B OR SWC-86A FOR DUCT FAN COIL UNITS

Model		SF-200D3	SF-400D3	SF-600D3	SF-1000D3	
Power supply	V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)	m³/h	340/255/170	680/510/340	1020/765/510	1700/1275/850	
	CFM	200/150/100	400/300/200	600/450/300	1000/750/500	
Standard external static pressure	Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB				
Cooling	Capacity (H/M/L)	2,2/1,9/1,68	4,3/4,2/95	5,8/4,88/4,45	9,0/7,8/6,57	
	Water flow rate	m³/h	0,38	0,69	1,0	1,55
	Water pressure drop	kPa	9,4	9,7	30,1	21,8
Heating	Capacity (H/M/L)	3,5/3,08/2,59	6,8/5,85/5,1	9,8/8,6/7,4	15,5/14,24/12	
	Water pressure drop	kPa	8,2	11,4	25,0	18,4
Max. power input	W	16	28	45	90	
Sound pressure level	12Pa (H/M/L)	dB(A)	36/32/26	37/34/27	39/36/29	42/39/32
	30Pa (H/M/L)	dB(A)	40/36/29	42/38/31	44/40/33	46/42/34
	50Pa (H/M/L)	dB(A)	42/39/31	45/41/33	47/43/35	50/45/37
Fan motor	Type	DC motor				
	Quantity	1	1	1	2	
Fan	Type	Centrifugal, forward-curved Blades				
	Quantity	1	2	2	4	
Coil	Row	3	3	3	3	
	Max. working pressure	MPa	1,6	1,6	1,6	1,6
	Diameter	mm	Φ9,52	Φ9,52	Φ9,52	Φ9,52
Net dimensions (WxHxD)	mm	741x241x522	941x241x522	1161x241x522	1566x241x522	
Packing size (WxHxD)	mm	790x260x550	990x260x550	1210x260x550	1615x260x550	
Net weight	kg	16,7	21,0	23,7	34,7	
Gross weight	kg	19,7	24,0	27,2	39,2	
Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4	RC3/4	
Drain pipe	mm	Φ24	Φ24	Φ24	Φ24	

Duct with 2 pipes doesn't include 3 or 2-way valve in the package. The valve uses the characteristics of NC (normally closed) and power supply 230V from fan coil unit. SINCLAIR doesn't offer valves.

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Air flow rate at 0Pa ESP.
3. Cooling conditions: entering water 7 °C, temperature rise 5 °C, entering air temperature 27 °C DB/19 °C WB. Heating conditions: entering water 50 °C, entering air temperature 20 °C DB, the same water flow as the cooling conditions.
4. Noise is tested in a semi-anechoic test room.

FLOOR CEILING, 3 ROWS, 2 PIPES

- High efficiency and low noise operation
- Horizontal or vertical installation
- DC brushless fan motor
- Possibility of using external control 2/3-way valve
- ON/OFF contact
- ALARM contact (230V)
- Support Modbus RTU
- Possibility of using external control of fan speed (low, medium, high) by 230V



OPTIONAL WIRED CONTROLLER KJRP-75A
FOR FLOOR CEILING FAN COIL UNITS

Model		SF-250F3	SF-350F3	SF-500F3	SF-700F3	SF-800F3	
Power supply	V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)	m³/h	400/315/190	595/470/340	790/580/410	1190/855/505	1360/1015/685	
	CFM	235/185/112	350/276/200	465/341/241	700/503/297	800/597/403	
Cooling	Capacity (H/M/L)	kW	2,35/1,94/1,19	3,5/2,89/2,22	4,3/3,48/2,71	5,60/4,47/3,14	7,35/6,12/4,57
	Water flow rate (H/M/L)	m³/h	0,41/0,35/0,23	0,61/0,51/0,40	0,77/0,73/0,62	1,01/0,80/0,56	1,28/1,10/0,81
	Water pressure drop (H/M/L)	kPa	13,3/9,98/4,59	34,1/24,63/15,39	54,2/36,22/22,78	50,7/33,38/17,73	44,1/33,7/19,41
Heating	Capacity (H/M/L)	kW	2,6/2,11/1,34	3,5/2,87/2,19	4,3/3,4/2,6	6,00/4,77/3,36	8,05/6,46/4,71
	Water flow rate (H/M/L)	m³/h	0,47/0,39/0,24	0,68/0,56/0,43	0,85/0,81/0,68	1,14/0,92/0,64	1,40/1,14/0,84
Water pressure drop (H/M/L)	kPa	14,3/10,33/4,5	35,1/24,41/14,82	54,3/36,9/22,3	55,5/37,66/19,27	46,9/31,9/18,16	
Max. power input	W	17	26	50	96	113	
Sound pressure level	(H/M/L) dB(A)	29/24/18	38/32/23	46/38/30	50/42/31	51/44/33	
Fan motor	Type	DC Motor					
	Quantity	1	1	1	1	1	
Fan	Type	Centrifugal, forward-curved Blades					
	Quantity	2	2	2	3	3	
Coil	Row	3	3	3	3	3	
	Max. working pressure	MPa	1,6	1,6	1,6	1,6	1,6
	Diameter	mm	Φ7,94	Φ7,94	Φ7,94	Φ7,94	Φ7,94
Body	Net dimensions (WxHxD)	mm	1020x495x200	1240x495x200	1240x495x200	1360x495x200	1360x591x200
	Packing size (WxHxD)	mm	1125x595x300	1345x595x300	1345x595x300	1465x595x300	1465x695x300
	Net weight	kg	21,5	25,5	25,5	28,5	32,5
Gross weight	kg	27,5	32,5	32,5	36	41	
Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4	G3/4	G3/4	
Drain pipe	mm	Φ18,5	Φ18,5	Φ18,5	Φ18,5	Φ18,5	

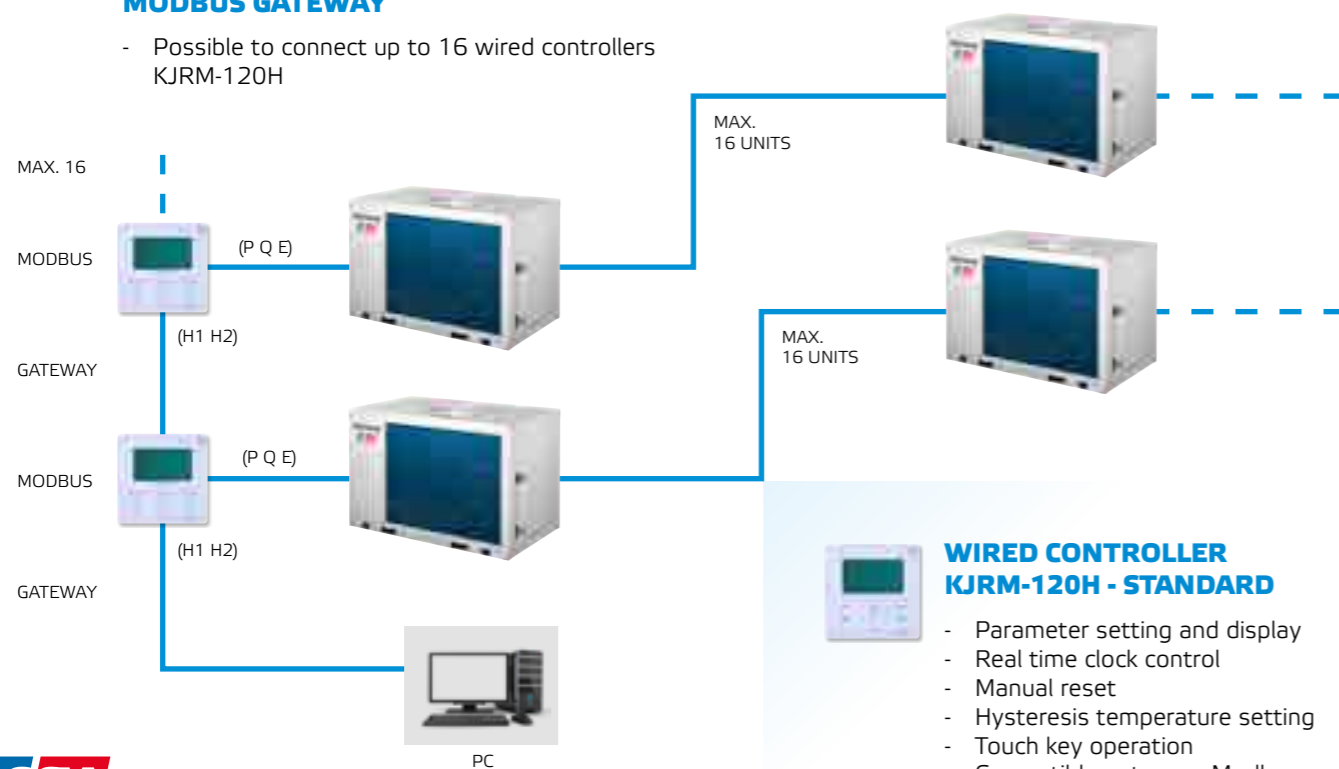
Floor ceiling with 2 pipes doesn't include 3 or 2-way valve in the package. The valve uses the characteristics of NC (normally closed) and power supply 230V from fan coil unit. SINCLAIR doesn't offer valves.

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7 °C, leaving water 12 °C, Entering air temperature 27 °C DB/19 °C WB. Heating conditions: entering water 50 °C, entering air temperature 20 °C DB/15 °C WB, the same water flow as the cooling conditions.
3. Noise is tested in a semi-anechoic test room.

Modular Chillers Accessories

MODBUS GATEWAY

- Possible to connect up to 16 wired controllers KJRM-120H



WIRED CONTROLLER KJRM-120H - STANDARD

- Parameter setting and display
- Real time clock control
- Manual reset
- Hysteresis temperature setting
- Touch key operation
- Compatible gateway: Modbus



Fan Coil Units Accessories

CONTROLLERS FOR FAN COIL UNITS



R05
Infrared controller for cassettes and wall-mounted fan coil units.



KJR-29B
Wall mounted wired controller with modern design including temperature sensor. Possible to use °C or °F. For cassettes and wall-mounted fan coil units.



KJR-18B
Wall mounted wired controller for duct SF-xxxD3 and floor-ceiling SF-xxxF fan coil units.



SWC-86A
Wall mounted digital wired controller for duct SF-xxxD3 supports MODBUS RTU.



KJRP-75A
Wired controller for floor-ceiling SF-xxxF3 fan coil units.



FCUKZ-03
Connection kit including wired controller KJR-90D and infrared sensor which allows to connect CCMxx, IMM or BMS. Used for duct SF-xxxD3.



CCM09, CCM10
Central wired controller with cooling/heating priority setting (CCM09 with weekly timer).



CCM30
Central wired controller with modern design and touchpads.





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The noise levels mentioned in this catalogue are values measured under ideal conditions, in an anechoic chamber. These values can be influenced by local conditions (acoustical bouncing area, the equipment of the room, etc.).

The pictures of units and accessories are illustrative only. The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice.

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