



... the world needs
a better climate

COMMERCIAL SYSTEMS
SDV AIR CONDITIONERS
CHILLERS
FAN COIL UNITS
CATALOGUE 2023



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.

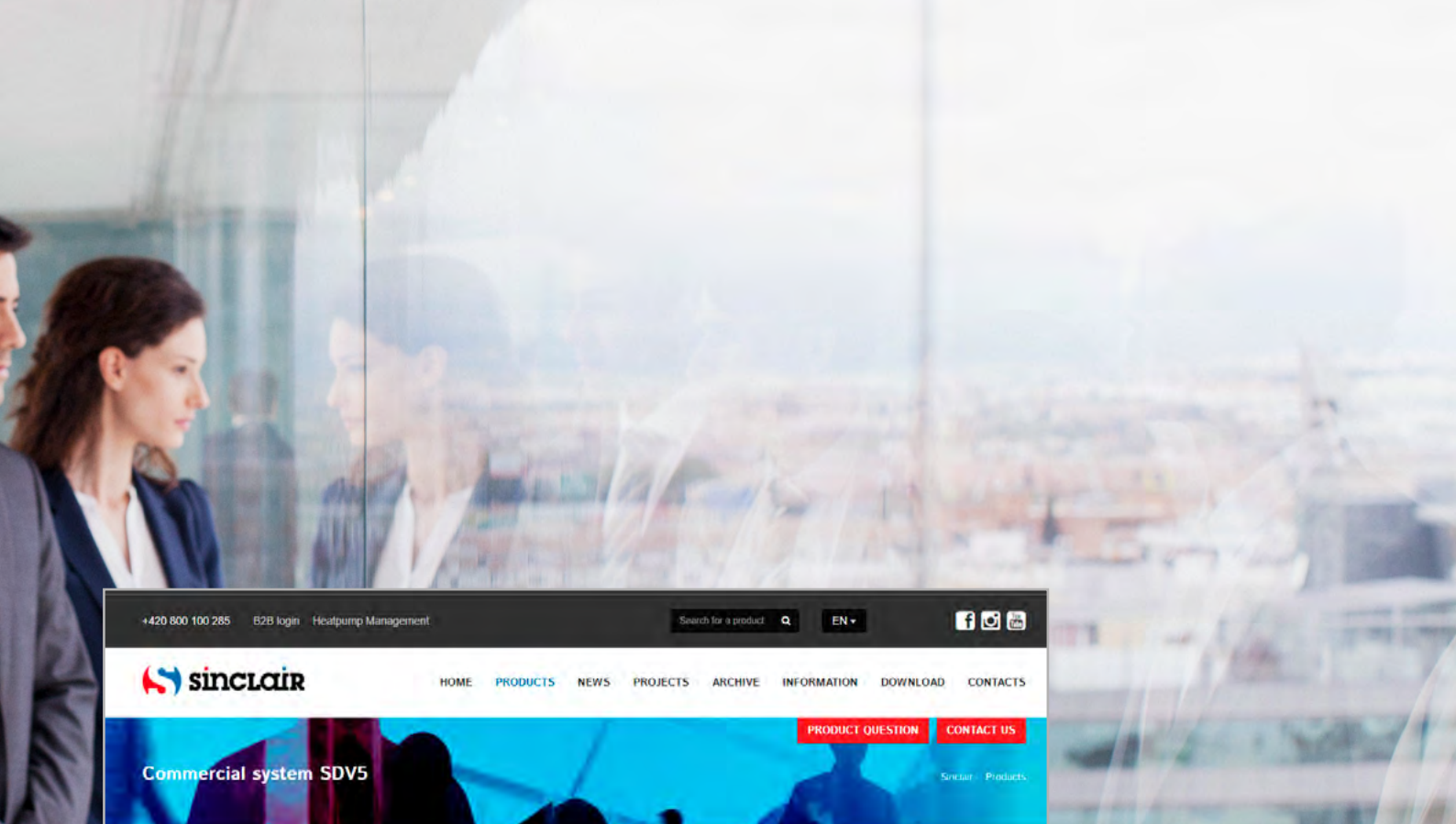
OUR VISION AND MISSION

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.

The new outdoor units of the SDV6 series use environmentally friendly R32 refrigerant.

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.





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Commercial system SDV5 PRODUCT QUESTION CONTACT US

Outdoor units – individual

Wall mounted units

- HIGH POWER MULTI SYSTEM series R410A
- MULTI VARIABLE series R32
- Tower series
- UNI SPLIT series R32
- High Static Pressure Duct Series - R410A



OUTDOOR UNITS – INDIVIDUAL

We offer individual SDV5 outdoor units in different cooling and heating capacities. Outdoor units support the option for connecting an interface for BMS. Indoor units are supplied separately.

- SDV5-280EAI Product detail
- SDV5-335EAI Product detail
- SDV5-400EAI Product detail
- SDV5-450EAI Product detail

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.

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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 capacity 7,2 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 2 240 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 SDV6 and SDV5 with side air discharge

Capacity from 7,2 kW up to 33,5 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
- SDV6 units use eco-friendly R32 refrigerant
- Devices with an capacity 12-18 kW are in 1-phase and 3-phase versions

MODEL		SDV6-E80BS	SDV6-E100BS
Power	V / ph / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Cooling Capacity	kW	7,2	9,0
Cooling Input Power	kW	1,95	2,77
EER	-	3,69	3,25
Heating Capacity	kW	7,2	9
Heating Input Power	kW	1,8	2,31
COP	-	4,00	3,90
Operating Range-Cooling	°C	-15-52	-15-52
Operating Range-Heating	°C	-20-30	-20-30
Sound Pressure Level at 1m	dB(A)	53	53
Airflow	m³/h	5200	5200
Net Weight	kg	77	77
Gross Weight	kg	88	88
Net Dimensions (WxHxD)	mm	1038x864x409	1038x864x409
Packing Dimensions (WxHxD)	mm	1120x980x560	1120x980x560
Number of indoor units	-	5	6
Refrigerant	type	R32	R32
	kg	2,00	2,00
	t eq. CO ₂	1,35	1,35
Vertical Pipe Length *	m	30/20	30/20
Actual Pipe Length	m	30	30
Equivalent Pipe Length	m	60	60
Total Pipe Length	m	150	150

* Outdoor unit on top/bellow max.
SDV6 series outdoor units available in the end of 2023.



NEW



R410A
REFRIGERANT

ECOLOGICAL
REFRIGERANT **R32**

SDV6-E120BS / BS-3	SDV6-E140BS / BS-3	SDV6-E160BS / BS-3	SDV6-E180BS / BS-3	SDV5-200EAS	SDV5-224EAS	SDV5-260EAS	SDV5-280EAS	SDV5-335EAS
220-240 / 1 / 50 380-415 / 3 / 50	220-240 / 1 / 50 380-415 / 3 / 50	220-240 / 1 / 50 380-415 / 3 / 50	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
12,3	14,0	15,5	17,5	20,0	22,4	26,0	28,5	33,5
3,73	4,67	5,34	6,46	4,90	6,83	9,6	12,3	14,4
3,30	3,00	2,90	2,71	4,08	3,28	2,70	2,32	2,33
12,3	14,0	15,5	17,5	20,0	22,4	26,0	28,5	33,5
2,86	3,29	3,73	4,49	4,21	4,98	5,53	6,16	8,1
4,30	4,26	4,16	3,90	4,75	4,50	4,70	4,63	4,14
-15-52	-15-52	-15-52	-15-52	-5-48	-5-48	-5-48	-5-48	-5-48
-20-30	-20-30	-20-30	-20-30	-20-24	-20-24	-20-24	-20-24	-20-24
55	56	56	58	58	58	59	60	61
5000	5000	5000	5500	9000	9000	10000	11000	11300
94 / 110	94 / 110	94 / 110	94 / 110	143	143	144	144	157
105 / 121	105 / 121	105 / 121	105 / 121	159	159	160	160	173
1038x864x409	1038x864x409	1038x864x409	1038x864x409	1120x1558x528	1120x1558x528	1120x1558x528	1120x1558x528	1120x1558x528
1120x980x560	1120x980x560	1120x980x560	1120x980x560	1270x1720x565	1270x1720x565	1270x1720x565	1270x1720x565	1270x1720x565
8	10	11	12	11	13	15	16	20
R32	R32	R32	R32	R410A	R410A	R410A	R410A	R410A
2,85	2,85	2,85	2,85	6,50	6,50	6,50	6,50	8,00
1,92	1,92	1,92	1,92	13,6	13,6	13,6	13,6	16,7
50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
40	40	40	40	40	40	40	40	40
120	120	120	120	110	110	110	110	110
300	300	300	300	150	150	150	150	150

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. SDV6-E80BS: SCOP 3,8; SEER 5,8 and SDV6-E100BS: SCOP 3,8; SEER 5,7.

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. Outdoor units heat up to -25 °C outside temperature. Condensing outdoor units cool up to 48 °C outside temperature. Possibility to connect up to 53 indoor units.

FEATURES

- EVI technology enhances system efficiency
- Efficiency EER (up to 2,7) and COP (up to 3,8)
- 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

**USE OF MODERN TECHNOLOGY ENHANCED VAPOUR INJECTION (EVI) DC INVERTER COMPRESSORS
WITH EFFICIENT HEATING DOWN TO -25°C.**





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	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling capacity	kW	28,0	33,5	40,0	45,0	50,0	56,0
Cooling Input Power	kW	10,7	13,6	15,4	21,0	28,1	34,2
EER	-	2,6	2,5	2,6	2,2	1,8	1,6
Heating capacity	kW	28,0	33,5	40,0	45,0	50,0	56
Heating Input Power	kW	7,4	9,8	11,3	13,8	14,9	16,0
COP	-	3,8	3,4	3,5	3,3	3,4	3,5
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.

R410A REFRIGERANT



Model		SDV5-615EAI	SDV5-670EAI	SDV5-785EAI	SDV5-850EAI	SDV5-900EAI		
Power supply	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	59,0	67,0	75,5	85,0	85,0		
Cooling Input Power	kW	35,4	36,7	37,3	44,9	44,9		
EER	-	1,7	1,8	2,0	1,9	1,9		
Heating capacity	kW	59,0	67,0	75,5	85,0	90,0		
Heating Input Power	kW	19,6	20,9	24,0	23,0	25,7		
COP	-	3,0	3,2	3,1	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	429	475		
Gross Weight	kg	364	430	452	452	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	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling capacity	kW	28,0	33,5	40,0	45,0	50,0	56,0
Cooling Input Power	kW	10,6	13,6	15,2	20,7	21,7	29,6
EER	-	2,7	2,5	2,6	2,2	2,3	1,9
Heating capacity	kW	28,0	33,5	40,0	45,0	50,0	56
Heating Input Power	kW	7,3	9,7	11,2	13,7	13,2	15,1
COP	-	3,8	3,5	3,6	3,3	3,8	3,7
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	348	348
Gross Weight	kg	242	242	304	304	368	368
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.



R410A
REFRIGERANT

Model		SDV5-615EAM	SDV5-670EAM	SDV5-785EAM	SDV5-850EAM	SDV5-900EAM		
Power supply	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	59,0	67,0	75,5	85,0	85,0		
Cooling Input Power	kW	34,6	31,9	37,2	44,9	44,9		
EER	-	1,7	2,1	2,0	1,9	1,9		
Heating capacity	kW	59,0	67,0	75,5	85,0	90,0		
Heating Input Power	kW	18,4	17,3	23,3	22,8	25,4		
COP	-	3,2	3,9	3,2	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	348	430	430	475	475		
Gross Weight	kg	368	453	453	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.



SDV5-3P 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.

Possibility of modular connection up to 3 outdoor units.

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

R410A
REFRIGERANT

Model		SDV5-252EA3P	SDV5-280EA3P	SDV5-335EA3P	SDV5-400EA3P	SDV5-450EA3P	SDV5-500EA3P
Power	V / ph / Hz	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	22,4	28,0	33,5	40,0	45,0	50,0
Cooling Input Power	kW	6,5	9,8	11,9	13,2	17,5	22,0
EER	-	3,4	2,9	2,8	3,0	2,6	2,3
Heating Capacity	kW	22,4	28,0	33,5	40,0	45,0	50,0
Heating Input Power	kW	5,0	6,9	9,0	10,0	12,2	13,5
COP	-	4,5	4,1	3,7	4,0	3,7	3,7
Operation Range-Cooling	°C	-15-52	-15-52	-15-52	-15-52	-15-52	-15-52
Operation Range-Heating	°C	-25-27	-25-27	-25-27	-25-27	-25-27	-25-27
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	110/110					
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, SDV5 AND SDV6 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

Max. number of indoor units

Model	Max. number of indoor units
SDV6-E80BS	5
SDV6-E100BS	6
SDV6-E120BS / BS-3	8
SDV6-E140BS / BS-3	10
SDV6-E160BS / BS-3	11
SDV6-E180BS / BS-3	12
SDV5-200EAS	11
SDV5-224EAS	13
SDV5-260EAS	15
SDV5-280EAS	16
SDV5-335EAS	20

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



XYE






PQE









Indoor units

Just choose. We offer 9 types and more than 100 models 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)	1,5 1,7	1,8	2,2	2,8	3,6	4,5	5,6	6,3	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
Compact four-way cassette units 	•		•	•	•	•	•	•														
Four-way cassette units 									•	•	•	•	•		•							
One-way cassette units 		•	•	•	•	•	•		•													
Wall mounted units 	•		•	•	•	•	•		•	•	•											
Duct units 	•		•	•	•	•	•		•	•	•		•	•	•	•						



Series and cooling capacity (kW)	1,5 1,7	1,8	2,2	2,8	3,6	4,5	5,6	6,3	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
High static-pressure duct units 									•	•	•		•		•	•	•	•	•	•	•	•
Fresh air processing duct units 														•	•		•	•	•			
Floor & ceiling units 					•	•	•		•	•	•		•		•							
Floor concealed units 			•	•	•	•	•		•													

COMPACT FOUR-WAY UNITS

- Very quiet operation of the device from 25dB(A)
- New 360° decorative panel and condensate pump included
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- New lower and higher capacities 1,7 kW, 5,6 kW and 6,3 kW

NEW

MODEL			SDV6-CC15	SDV6-CC22	SDV6-CC28	SDV6-CC36
Capacity	Cooling	kW	1,5	2,2	2,8	3,6
	Heating	kW	1,8	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	14	14	16	18
Air flow volume		m³/h	450/425/400/370/345/320/295	450/425/400/370/345/320/295	510/480/455/425/395/370/340	530/500/470/440/405/375/345
Sound pressure level at 1,4m		dB(A)	29/28/27/27/26/26/25	29/28/27/27/26/26/25	30/29/28/27/26/26/25	31/30/29/28/27/26/26
Sound power level		dB(A)	40/39/39/39/38/38/38	40/39/39/39/38/38/38	42/41/40/39/39/38/38	42/40/39/38/38/38/38
Net dimensions	Body(WxHxD)	mm	638x235x575	638x235x575	638x235x575	638x235x575
	Panel(WxHxD)	mm	620x65x620	620x65x620	620x65x620	620x65x620
Packing dimensions	Body(WxHxD)	mm	690x285x690	690x285x690	690x285x690	690x285x690
	Panel(WxHxD)	mm	680x80x680	680x80x680	680x80x680	680x80x680
Net weight	Body	kg	13	13	13	14
	Panel	kg	2,4	2,4	2,4	2,4
Gross weight	Body	kg	15	15	15	16
	Panel	kg	3,2	3,2	3,2	3,2
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	φ25,0	φ25,0	φ25,0	φ25,0
MODEL			SDV6-CC45	SDV6-CC56	SDV6-CC63	
Capacity	Cooling	kW	4,5	5,6	6,3	
	Heating	kW	5,0	6,3	7,1	
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	
Rated power		W	25	35	50	
Air flow volume		m³/h	640/605/570/530/495/460/425	810/765/720/670/625/580/535	905/855/805/755/705/655/605	
Sound pressure level at 1,4m		dB(A)	37/35/33/31/29/28/27	39/38/37/36/35/34/32	43/42/40/38/36/35/34	
Sound power level		dB(A)	44/44/43/42/41/41/41	48/46/45/43/42/42/41	51/50/48/46/45/44/42	
Net dimensions	Body(WxHxD)	mm	638x235x575	638x235x575	638x235x575	
	Panel(WxHxD)	mm	620x65x620	620x65x620	620x65x620	
Packing dimensions	Body(WxHxD)	mm	690x285x690	690x285x690	690x285x690	
	Panel(WxHxD)	mm	680x80x680	680x80x680	680x80x680	
Net weight	Body	kg	14	15	15	
	Panel	kg	2,4	2,4	2,4	
Gross weight	Body	kg	16	17	17	
	Panel	kg	3,2	3,2	3,2	
Pipe diameter	Liquid side	mm	φ6,4	φ6,4	φ6,4	
	Gas side	mm	φ12,7	φ12,7	φ12,7	
	Drainage pipe	mm	φ25,0	φ25,0	φ25,0	

SDV6 series indoor units available end of 2023.

FOUR-WAY CASSETTE UNITS

- 360° design decorative panel and condensate pump included
- 7 speeds of fan
- Equipped with alarm and ON / OFF contact
- The units are equipped with a fresh air inlet



MODEL			SDV6-C71	SDV6-C80	SDV6-C90
Capacity	Cooling	kW	7,1	8,0	9,0
	Heating	kW	8,0	9,0	10,0
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	31	41	43
Air flow volume		m³/h	1000/943/886/829/772/715/658	1330/1239/1148/1057/965/874/783	1330/1239/1148/1057/965/874/783
Sound pressure level at 1,4m		dB(A)	37/36/34/33/32/30/29	38/37/35/34/32/31/29	38/37/35/34/32/31/29
Sound power level		dB(A)	-	-	-
Net dimensions	Body(WxHxD)	mm	840x204x840	840x204x840	840x246x840
	Panel(WxHxD)	mm	950x50x950	950x50x950	950x50x950
Packing dimensions	Body(WxHxD)	mm	940x250x940	940x250x940	940x295x940
	Panel(WxHxD)	mm	1020x90x1020	1020x90x1020	1020x90x1020
Net weight	Body	kg	22	22	22
	Panel	kg	5,8	5,8	5,8
Gross weight	Body	kg	24,5	24,5	24,5
	Panel	kg	7,6	7,6	7,6
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0
MODEL			SDV6-C100	SDV6-C112	SDV6-C140
Capacity	Cooling	kW	10,0	11,2	14,0
	Heating	kW	11,2	12,5	16,0
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	54	61	89
Air flow volume		m³/h	1445/1363/1282/1200/1118/1037/955	1600/1497/1393/1290/1186/1083/979	1600/1497/1393/1290/1186/1083/979
Sound pressure level at 1,4m		dB(A)	39/38/37/36/35/34/33	41/40/38/37/36/34/33	43/42/40/39/37/36/34
Sound power level		dB(A)	-	-	-
Net dimensions	Body(WxHxD)	mm	840x288x840	840x288x840	840x288x840
	Panel(WxHxD)	mm	950x50x950	950x50x950	950x50x950
Packing dimensions	Body(WxHxD)	mm	940x335x940	940x335x940	940x335x940
	Panel(WxHxD)	mm	1020x90x1020	1020x90x1020	1020x90x1020
Net weight	Body	kg	24	24	26,5
	Panel	kg	5,8	5,8	5,8
Gross weight	Body	kg	26,5	26,5	29
	Panel	kg	7,6	7,6	7,6
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0

SDV6 series indoor units available end of 2023.

ONE-WAY CASSETTE UNITS

- Unit height only 245 mm (1,8-3,6 kW) for flexible installation
- 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	12,3	12,3
	Panel	kg	3,5	3,5	3,5	3,5
Gross weight	Body	kg	15,3	15,3	15,8	15,8
	Panel	kg	5,2	5,2	5,2	5,2
Pipe diameter	Liquid side	mm	ø6,4 (1/4")	ø6,4 (1/4")	ø6,4 (1/4")	ø6,4 (1/4")
	Gas side	mm	ø12,7 (1/2")	ø12,7 (1/2")	ø12,7 (1/2")	ø12,7 (1/2")
	Drainage pipe	mm	ø32,0	ø32,0	ø32,0	ø32,0
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	ø6,4 (1/4")	ø9,5 (3/8")	ø9,5 (3/8")	
	Gas side	mm	ø12,7 (1/2")	ø15,9 (5/8")	ø15,9 (5/8")	
	Drainage pipe	mm	ø32,0	ø32,0	ø32,0	

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
- Option to install 30mm below the ceiling for SDV6 series
- New lowest capacity 1,5 kW

NEW



MODEL			SDV6-H15	SDV6-H22	SDV6-H28	SDV6-H36
Capacity	Cooling	kW	1,5	2,2	2,8	3,6
	Heating	kW	1,8	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	18	21	24	27
Air flow volume		m³/h	460/440/420/400/380/360/340	500/470/440/410/390/370/340	540/510/470/430/400/370/340	580/540/500/460/420/380/340
Sound pressure level at 1m		dB(A)	32/31/30/30/29/28/27	33/32/31/30/29/28/27	35/34/33/32/31/30/28	37/36/34/33/31/30/28
Sound power level		dB(A)	-	-	-	-
Net dimensions		(WxHxD)	750x295x265	750x295x265	750x295x265	750x295x265
Packing dimensions		(WxHxD)	875x385x360	875x385x360	875x385x360	875x385x360
Net weight		kg	9	9	10	10
Gross weight		kg	11	11	12	12
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			SDV6-H45	SDV6-H56	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	30	40	55	55
Air flow volume		m³/h	720/670/620/560/510/460/410	860/780/700/620/550/480/410	1195/1130/1065/1005/940/875/809	1195/1130/1065/1005/940/875/809
Sound pressure level at 1m		dB(A)	37/35/33/32/31/30/29	41/39/37/35/33/31/29	44/43/42/39/38/37/36	44/43/42/39/38/37/36
Sound power level		dB(A)	-	-	59/58/57/54/53/52/51	59/58/57/54/53/52/51
Net dimensions		(WxHxD)	950x295x265	950x295x265	1194x343x262	1194x343x262
Packing dimensions		(WxHxD)	1075x385x360	1075x385x360	1290x375x460	1290x375x460
Net weight		kg	11,5	11,5	17	17
Gross weight		kg	14	14	22,4	22,4
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			SDV5-90HA			
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)	1194x343x262			
Packing dimensions		(WxHxD)	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			

SDV6 series indoor units available end of 2023.



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 22–27 dB(A) for 1,5–2,8 kW
- External static pressure up to 160 Pa
- Units are equipped with condensate pump and fresh air inlet



NEW

MODEL			SDV6-DM15	SDV6-DM22	SDV6-DM28	SDV6-DM36	SDV6-DM45
Capacity	Cooling	kW	1,5	2,2	2,8	3,6	4,5
	Heating	kW	1,8	2,5	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	220-240, 1, 50
Rated power	W		33	36	40	45	70
Air flow volume	m³/h		470/438/407/375/ 343/312/280	500/467/433/400/ 367/333/300	540/503/467/430/ 393/357/320	575/535/495/455/ 415/375/335	665/623/580/538/ 495/453/410
Static pressure	Pa		30 (10-160)	30 (10-160)	30 (10-160)	30 (10-160)	30 (10-160)
Sound pressure level at 1,4m	dB(A)		27/26/25/24/23/23/22	27/26/25/24/23/23/22	27/26/25/24/23/23/22	29/28/27/26/25/23/22	33/32/30/28/27/25/24
Sound power level	dB(A)		46/45/43/42/40/39/37	47/46/44/43/41/40/38	47/46/44/43/41/40/38	50/49/47/45/43/41/39	53/51/49/47/45/43/41
Net dimensions	(WxHxD)	mm	710x245x770	710x245x770	710x245x770	710x245x770	710x245x770
Packing dimensions	(WxHxD)	mm	765x305x890	765x305x890	765x305x890	765x305x890	765x305x890
Net weight	kg		18,5	18,5	18,5	18,5	19,5
Gross weight	kg		21	21	21	21	22
Pipe diameter	Liquid side	mm	ø6,4	ø6,4	ø6,4	ø6,4	ø6,4
	Gas side	mm	ø12,7	ø12,7	ø12,7	ø12,7	ø12,7
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0	ø25,0	ø25,0
MODEL			SDV6-DM56	SDV6-DM71	SDV6-DM80	SDV6-DM90	SDV6-DM112
Capacity	Cooling	kW	5,6	7,1	8,0	9,0	11,2
	Heating	kW	6,3	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	220-240, 1, 50
Rated power	W		70	70	96	110	138
Air flow volume	m³/h		970/904/838/773/ 707/641/575	1150/1068/986/904/ 822/740/660	1355/1263/1172/1080/ 988/897/805	1420/1323/1225/1128/ 1030/933/835	1950/1817/1683/1550/ 1417/1283/1150
Static pressure	Pa		30 (10-160)	30 (10-160)	40 (10-160)	40 (10-160)	40 (10-160)
Sound pressure level at 1,4m	dB(A)		33/32/31/30/28/26/25	35/34/32/31/29/28/26	37/36/34/33/31/30/28	37/36/34/33/31/30/28	39/37/35/33/31/29/28
Sound power level	dB(A)		55/53/51/49/47/45/43	58/56/54/52/48/47/45	59/57/55/53/51/49/47	59/57/55/53/51/48/46	60/58/57/55/54/52/50
Net dimensions	(WxHxD)	mm	910x245x770	910x245x770	1160x245x770	1160x245x770	1510x245x770
Packing dimensions	(WxHxD)	mm	965x305x890	965x305x890	1215x305x890	1215x305x890	1565x305x890
Net weight	kg		24	25	30	31	37
Gross weight	kg		27,5	28,5	33,5	34,5	41,5
Pipe diameter	Liquid side	mm	ø6,4	ø9,5	ø9,5	ø9,5	ø9,5
	Gas side	mm	ø12,7	ø15,9	ø15,9	ø15,9	ø15,9
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0	ø25,0	ø25,0
MODEL			SDV6-DM125	SDV6-DM140	SDV6-DM160		
Capacity	Cooling	kW	12,5	14,0	16,0		
	Heating	kW	14,0	16,0	18,0		
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50		
Rated power	W		172	172	210		
Air flow volume	m³/h		2105/1971/1837/1703/ 1568/1434/1300	2105/1971/1837/1703/ 1568/1434/1300	2350/2160/2015/1871/ 1776/1533/1400		
Static pressure	Pa		50 (10-160)	50 (10-160)	50 (10-160)		
Sound pressure level at 1,4m	dB(A)		40/38/36/34/32/30/29	40/38/36/34/32/30/29	42/40/38/36/34/33/31		
Sound power level	dB(A)		64/62/62/60/58/55/53	64/62/62/60/58/55/53	65/63/61/59/57/54/52		
Net dimensions	(WxHxD)	mm	1510x245x770	1510x245x770	1510x245x770		
Packing dimensions	(WxHxD)	mm	1565x305x890	1565x305x890	1565x305x890		
Net weight	kg		39	39	39		
Gross weight	kg		43,5	43,5	43,5		
Pipe diameter	Liquid side	mm	ø9,5	ø9,5	ø9,5		
	Gas side	mm	ø15,9	ø15,9	ø15,9		
	Drainage pipe	mm	ø25,0	ø25,0	ø25,0		

SDV6 series indoor units available end of 2023.

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	ø9,5 (3/8")	ø9,5 (3/8")	ø9,5 (3/8")	ø9,5 (3/8")
	Gas side	mm	ø15,9 (5/8")	ø15,9 (5/8")	ø15,9 (5/8")	ø15,9 (5/8")
	Drainage pipe	mm	ø25	ø25	ø25	ø25
MODEL			SDV5-140DHA	SDV5-160DHA	SDV5-200DHA	SDV5-250DHA
Capacity	Cooling	kW	14,0	16,0	20,0	25,0
	Heating	kW	16,0	17,0	22,5	26,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		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	ø9,5 (3/8")	ø9,5 (3/8")	ø12,7 (1/2")	ø12,7 (1/2")
	Gas side	mm	ø15,9 (5/8")	ø15,9 (5/8")	ø22,2 (7/8")	ø22,2 (7/8")
	Drainage pipe	mm	ø25	ø25	ø32	ø32
MODEL			SDV5-280DHA	SDV5-400DHA	SDV5-450DHA	SDV5-560DHA
Capacity	Cooling	kW	28,0	40,0	45,0	56,0
	Heating	kW	31,5	45,0	50,0	63,0
Power supply	V / ph / Hz		220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power	W		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	ø12,7 (1/2")	ø15,9 (5/8")	ø15,9 (5/8")	ø15,9 (5/8")
	Gas side	mm	ø22,2 (7/8")	ø28,6 (1 1/8")	ø28,6 (1 1/8")	ø28,6 (1 1/8")
	Drainage pipe	mm	ø32	ø32	ø32	ø32

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	SDV5-200DFA	SDV5-250DFA	SDV5-280DFA
Capacity	Cooling	kW	12,5	14,0	20,0	25,0	28,0
	Heating	kW	10,5	12,0	12,8	16,0	18,0
Power supply		V / ph / Hz	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50	220-240, 1, 50
Rated power		W	480	480	850	850	850
Air flow volume		m ³ /h	2000/1917/1833/1750/1667/1583/1500			3000/2833/2667/2500/2333/2167/2000	
Static pressure		Pa	180 (30-200)	180 (30-200)	200 (30-250)	200 (30-250)	200 (30-250)
Sound pressure level at 1,4m		dB(A)	48/47/46/45/44/43/42	48/47/46/45/44/43/42	50/49/48/47/46/43	50/49/48/47/46/43	50/49/48/47/46/43
Sound power level		dB(A)	66/65/64/63/62/61/60	66/65/64/63/62/61/60	68/67/66/65/64/62/61	68/67/66/65/64/62/61	68/67/66/65/64/62/61
Net dimensions		(WxHxD)	mm	1322x423x691	1454x515x931	1454x515x931	1454x515x931
Packing dimensions		(WxHxD)	mm	1436x450x768	1509x550x990	1509x550x990	1509x550x990
Net weight		kg	68	68	130	130	130
Gross weight		kg	76	76	142	142	142
Pipe diameter	Liquid side	mm	φ9,5 (3/8")	φ9,5 (3/8")	φ12,7	φ12,7	φ12,7
	Gas side	mm	φ15,9 (5/8")	φ15,9 (5/8")	φ22,2	φ22,2	φ22,2
	Drainage pipe	mm	φ25,0	φ25,0	φ32,0	φ32,0	φ32,0

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		m ³ /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	1036x545x212	1036x545x212
Packing dimensions		(WxHxD)	mm	925x639x305	925x639x305	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 (1/4")	φ6,4 (1/4")	φ6,4 (1/4")	φ6,4 (1/4")
	Gas side	mm	φ12,7 (1/2")	φ12,7 (1/2")	φ12,7 (1/2")	φ12,7 (1/2")
	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		m ³ /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 (3/8")	φ9,5 (3/8")	φ9,5 (3/8")	
	Gas side	mm	φ15,9 (5/8")	φ15,9 (5/8")	φ15,9 (5/8")	
	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 (1/4")	φ6,4 (1/4")	φ9,5 (3/8")	φ9,5 (3/8")
	Gas side	mm	φ12,7 (1/2")	φ12,7 (1/2")	φ15,9 (5/8")	φ15,9 (5/8")
	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 (3/8")	φ9,5 (3/8")	φ9,5 (3/8")	φ9,5 (3/8")
	Gas side	mm	φ15,9 (5/8")	φ15,9 (5/8")	φ15,9 (5/8")	φ15,9 (5/8")
	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. Refrigerant: R410A(50% HFC-32, 50% HFC-125) with GWP (Global Warming Potential) 2088. R32 (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 675.

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 7,5 m, level difference is 0 m.
2. Connection piping diameter is based on the condition that the total equivalent liquid length is less than 90 m. When the total equivalent liquid length is more than 90 m 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

5. 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: 8 m (horizontal)
6. 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: 8 m (horizontal).
7. Sound values are measured at a position 1,4 m or 1 m in front of the unit.

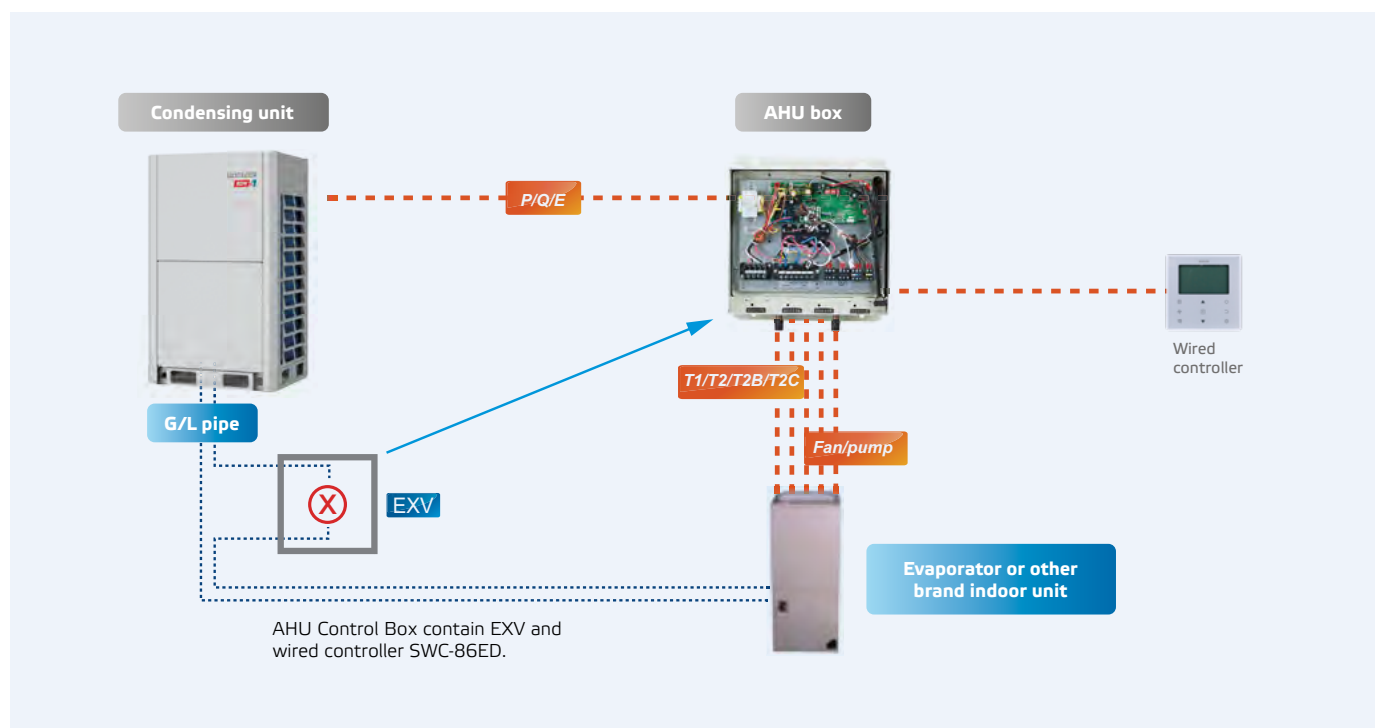
AHU Control Box

- 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 as well as a set of temperature sensors



Hydrobox SDV5-140HB3P

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

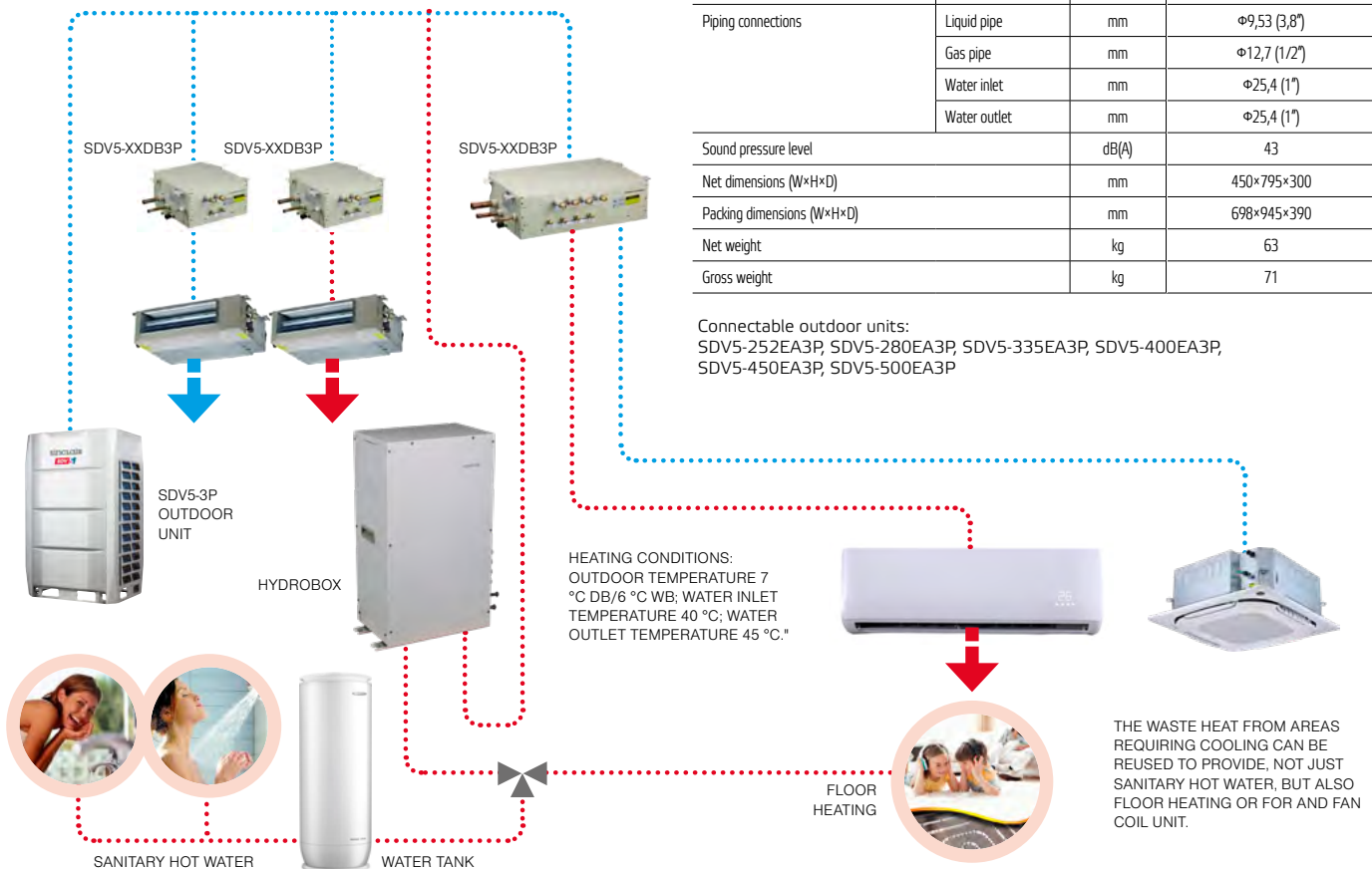


FEATURES

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

MODEL		SDV5-140HB3P	
Water heating capacity		kW	14
Power supply		V / ph / Hz	220-240 / 1 / 50
Operating temperature range	Heating	°C	-20-30
	Hot water	°C	-20-43
Refrigerant	Type		R134a
	Factory charge	kg	1,2
Piping connections	Liquid pipe	mm	φ9,53 (3/8")
	Gas pipe	mm	φ12,7 (1/2")
	Water inlet	mm	φ25,4 (1")
	Water outlet	mm	φ25,4 (1")
Sound pressure level		dB(A)	43
Net dimensions (W×H×D)		mm	450×795×300
Packing dimensions (W×H×D)		mm	698×945×390
Net weight		kg	63
Gross weight		kg	71

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



High Static Pressure Duct ASDH-96AI

Split air conditioner with 28 kW cooling capacity



FEATURES

- Mode priority settings
- External static pressure up to 150 Pa
- Dry on/off contact
- Alarm contact
- Wired controller KJR-29B in package
- Optional central controller CCM30 or CCM15 (requires IDU PCB modification)
- Optional MODBUS control support via gateway CCM18 (requires IDU PCB modification)
- Optional water pump, water level switch

MODEL		ASDH-96AI			
Capacity cooling / heating		kW	28 / 31,5		
Power supply		V / ph / Hz	380-415 / 3 / 50		
Operating temperature range	Cooling	°C	-15-48		
	Heating	°C	-15-24		
Refrigerant	Type		R410A		
	Factory charge	kg	7,2		
Piping connections	Liquid pipe	mm	φ9,53		
	Gas pipe	mm	φ25,4		
Sound pressure level at 1 m	Indoor	dB(A)	49-52		
	Outdoor	dB(A)	59		
Net dimensions (WxHxD)	Indoor	mm	1470x512x775		
	Outdoor	mm	1120x1558x528		
Packing dimensions (WxHxD)	Indoor	mm	1555x545x875		
	Outdoor	mm	1270x1720x565		
Net weight	Indoor / Outdoor	kg	83 / 147		
Gross weight	Indoor / Outdoor	kg	92 / 163		

Accessories SDV5

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.



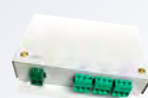
CCM-180A

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



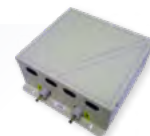
CCM-270A

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 SEM-01.



SDV5-EK

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



AHU KIT

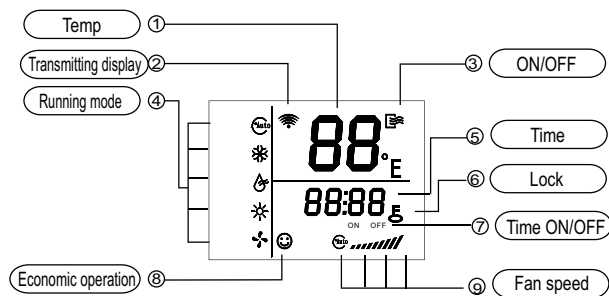
Sinclair AHU kit is device that connects the evaporator of indoor units of other manufacturers with outdoor units of SDV5 system. Can be controlled via 0-10V.

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.

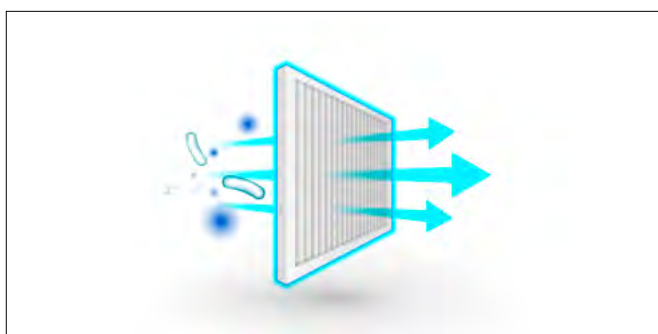


Wired controller SWC-86ED



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.

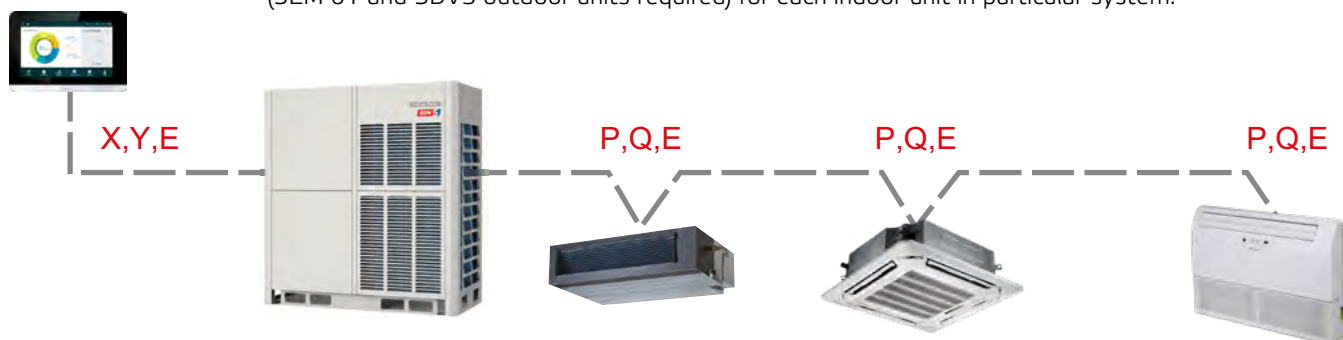


Centralized Controllers of Indoor Units CCM-180A, CCM-270A, CCM15



CENTRALIZED CONTROL

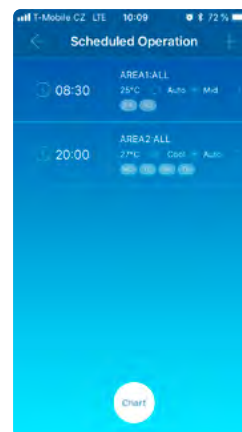
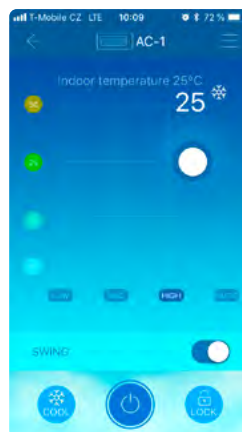
CCM-180A (CCM-270A) is a multifunctional device that can control up to 64 (384) indoor units within a maximum connection length of 1 200 m. Centralized controller is connected directly to outdoor units by X,Y,E connection. It allows to set cooling/heating priority mode. Supports individual or group control 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 system consumption (SEM-01 and SDV5 outdoor units required) for each indoor unit in particular system.



CCM15 DATA CONVERTER - REMOTE CONTROL

Enables to control the 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>

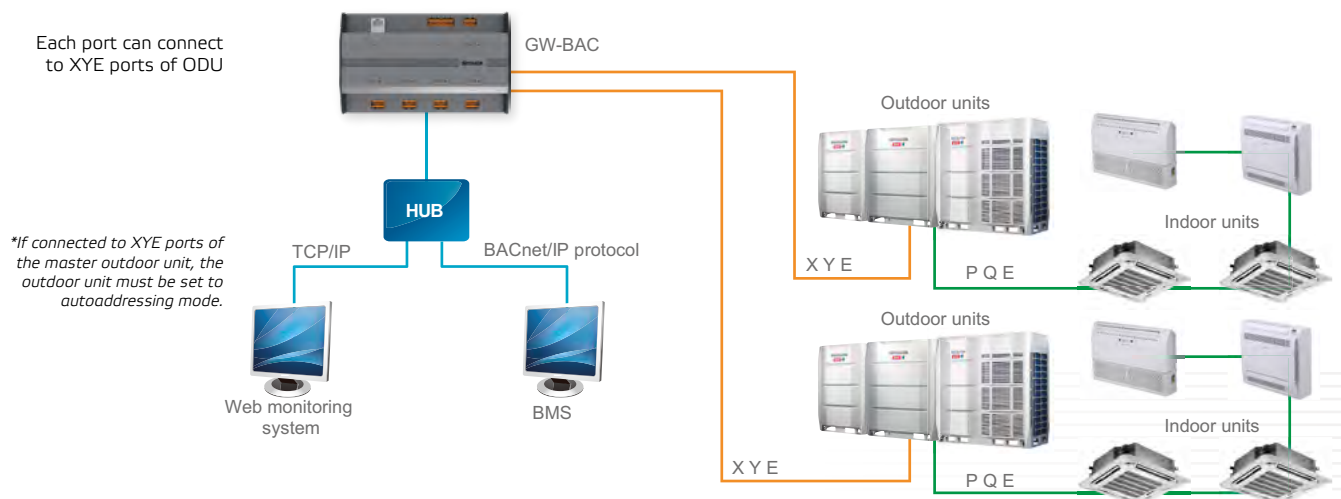


BMS Gateway BACnet GW-BAC



- Contains 4 groups of RS485 communication ports and is able to connect up to 256 indoor units or 96 outdoor units to the BMS network
- Built-in web function using IMM software

NETWORK EXAMPLE



MONITORING UNITS ONLINE

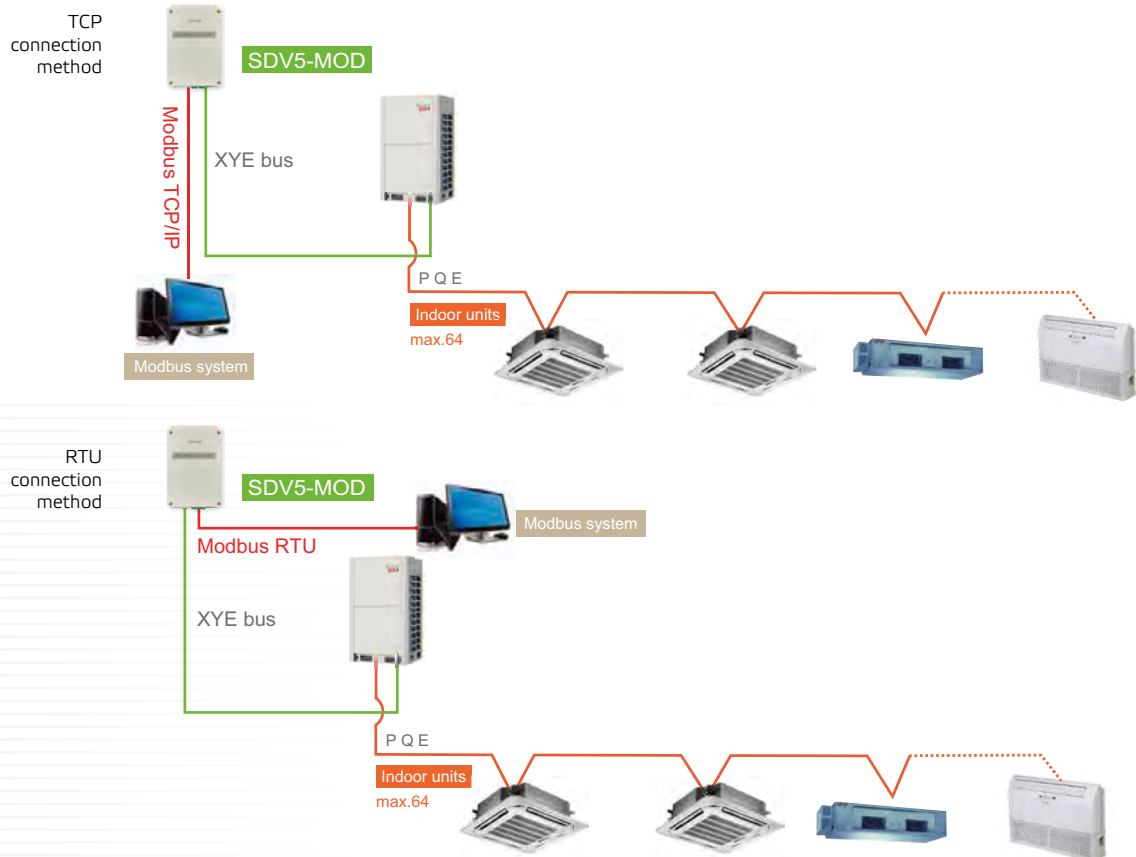
GW-BAC allows users to track unit's operational status and change their running parameters via the web browser for maximum control convenience.

BMS Gateway Modbus SDV5-MOD



- 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

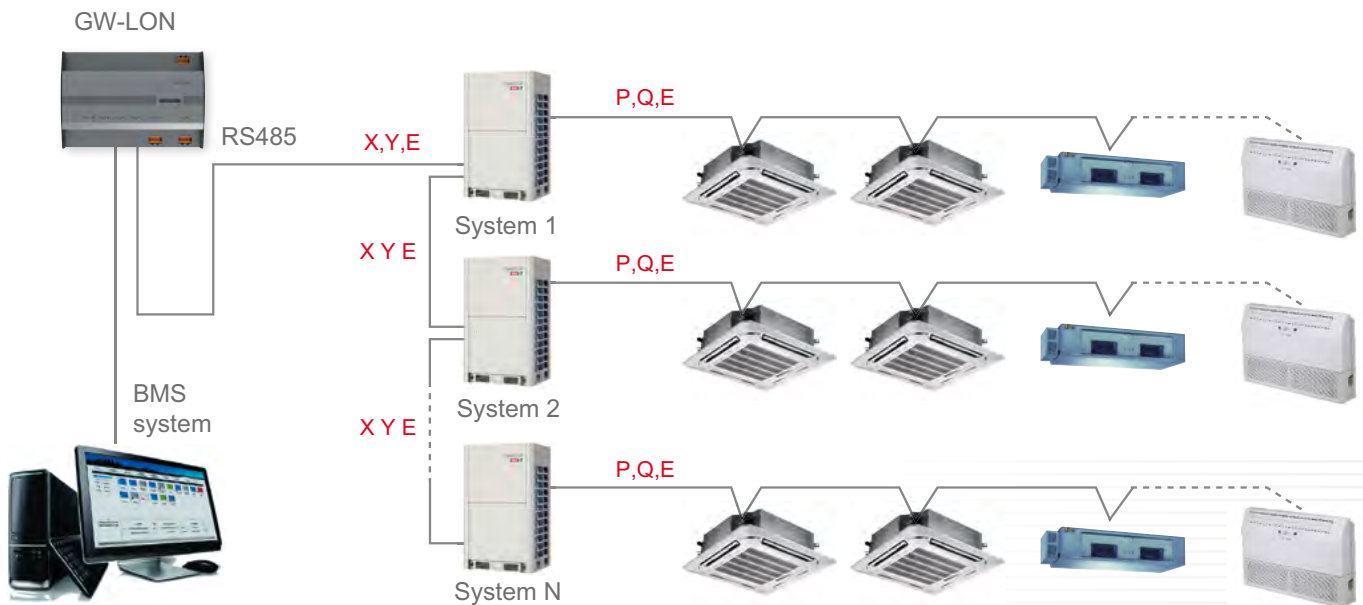


BMS Gateway LonWorks GW-LON



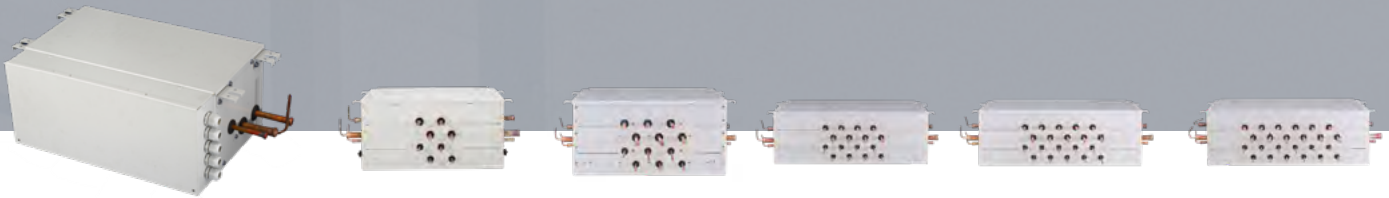
- Compliance with LonMark protocol, manages and controls of A/C
- Can connect up to 32 indoor units
- Uses non-polarity communication

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	5
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	∅9,53/12,7	∅9,53/12,7/15,9/19,1	∅9,53/12,7/15,9/19,1	∅12,7/15,9/19,1/22,2
		High pressure gas pipe	mm	∅15,9/19,1/22,2	∅19,1/22,2/28,6	∅19,1/22,2/28,6	∅22,2/28,6/34,9
		Low pressure gas pipe	mm	∅12,7/15,9/19,1	∅15,9/19,1/22,2/28,6	∅15,9/19,1/22,2/28,6	∅19,1/22,2/28,6
	Connect to indoor unit	Liquid pipe	mm	∅6,4/9,5	∅6,4/9,5	∅6,4/9,5	∅6,4/9,5
		Gas pipe	mm	∅12,7/15,9	∅12,7/15,9	∅12,7/15,9	∅12,7/15,9
		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				5	5
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	∅12,7/15,9/19,1/22,2	∅12,7/15,9/19,1/22,2
		High pressure gas pipe	mm	∅22,2/28,6/34,9	∅22,2/28,6/34,9
		Low pressure gas pipe	mm	∅19,1/22,2/28,6	∅19,1/22,2/28,6
	Connect to indoor unit	Liquid pipe	mm	∅6,4/9,5	∅6,4/9,5
		Gas pipe	mm	∅12,7/15,9	∅12,7/15,9
		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 75 kW, 90 kW, 140kW and 180 kW. By the maximum combination of 16 units it is possible to get capacity of 2 240 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.

The chillers use environmentally friendly R32 refrigerant for their operation.



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
- Water pump starts/stops compulsory function
- Wide operation temperature range and outlet water temperature range

ECOLOGICAL REFRIGERANT 

Mode	Ambient temperature range	Outlet water temperature range
Cooling	-5 °C ~ 43 °C	5 °C ~ 25 °C
Heating	-25 °C ~ 35 °C	25 °C ~ 65 °C

WIRED CONTROLLER SWC-120F - STANDARD (included with outdoor unit)



- Touch key operation
- Multiple timer
- Real time clock
- WiFi application
- Support MODBUS



MODEL		SCV-50EB	SCV-70EB	SCV-100EB	SCV-120EB	SCV-140EB	SCV-160EB	SCV-120EB-3	SCV-140EB-3	SCV-160EB-3	
Power supply(V/Ph/Hz)		220-240/1/50							380-415/3/50		
Heating A7W35	Capacity	W	6500	8400	10000	12200	14100	16000	12200	14100	16000
	Rated input	W	1226	1663	2128	2490	3000	3556	2490	3000	3556
	COP		5,30	5,05	4,70	4,90	4,70	4,50	4,90	4,70	4,50
Heating A2W35	Capacity	W	5600	7100	8200	12300	13000	14500	12300	13000	14500
	Rated input	W	1333	1797	2158	3417	3714	4462	3417	3714	4462
	COP		4,20	3,95	3,80	3,60	3,50	3,25	3,60	3,50	3,25
Cooling A35W7	Capacity	W	5500	7400	9000	11600	13400	14000	11600	13400	14000
	Rated input	W	1692	2349	3103	3742	4573	4828	3742	4573	4828
	EER		3,25	3,15	2,90	3,10	2,93	2,90	3,10	2,93	2,90
Seasonal space heating energy efficiency class	Water outlet at 35 °C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
SCOP	Average climate	35 °C	5,12	5,18	5,12	5,08	4,89	4,84	5,08	4,89	4,84
Sound pressure level ²		dB(A)	48	51	53	56	58	58	57	59	59
Compressor	Type	-	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary	DC twin rotary
Fan	Type	-	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor
	Number		1	1	1	1	1	1	1	1	1
	Air flow	m ³ /h	3900	4500	4500	5200	5200	5200	5200	5200	5200
Air side heat exchanger	Type	-	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil
Throttle	Type	-	Electronic expansion valve			Electronic expansion valve			Electronic expansion valve		
Refrigerant	Type	-	R32	R32	R32	R32	R32	R32	R32	R32	R32
	Charged volume	kg / t eq. CO ₂	1,25 / 0,84	1,25 / 0,84	1,25 / 0,84	1,8 / 1,22	1,8 / 1,22	1,8 / 1,22	1,8 / 1,22	1,8 / 1,22	1,8 / 1,22
Water side heat exchanger	Type		Plate	Plate	Plate	Plate	Plate	Plate	Plate	Plate	Plate
Rated water flow		m ³ /h	1,12	1,44	1,72	2,10	2,43	2,75	2,10	2,43	2,75
Water flow range		m ³ /h	0,40-1,25	0,40-1,65	0,40-2,10	0,70-2,50	0,70-2,75	0,70-3,00	0,70-2,50	0,70-2,75	0,70-3,00
Water pump	Type	-	DC	DC	DC	DC	DC	DC	DC	DC	DC
	Maximum pump head	m	9	9	9	9	9	9	9	9	9
Expansion vessel	Volume	L	5	5	5	5	5	5	5	5	5
	Maximum working pressure	bar	8	8	8	8	8	8	8	8	8
Safety valve		MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Flow switch		m ³ /h	0,36	0,36	0,36	0,6	0,6	0,6	0,6	0,6	0,6
Water side connection			G1" BSP	G1" BSP	G1" BSP	G5/4" BSP	G5/4" BSP	G5/4" BSP	G5/4" BSP	G5/4" BSP	G5/4" BSP
Unit dimension (W×H×D)		mm	1040×865×410	1040×865×410	1040×865×410	1040×865×410	1040×865×410	1040×865×410	1040×865×410	1040×865×410	1040×865×410
Packing dimension (W×H×D)		mm	1190×970×560	1190×970×560	1190×970×560	1190×970×560	1190×970×560	1190×970×560	1190×970×560	1190×970×560	1190×970×560
Net weight		kg	87	87	87	106	106	106	120	120	120
Gross weight		kg	103	103	103	122	122	122	136	136	136
Ambient temperature range	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43
	Heating	°C	-25-35	-25-35	-25-35	-25-35	-25-35	-25-35	-25-35	-25-35	-25-35
Water setting temperature range	Cooling	°C	5-25	5-25	5-25	5-25	5-25	5-25	5-25	5-25	5-25
	Heating	°C	25-65	25-65	25-65	25-65	25-65	25-65	25-65	25-65	25-65

Note:

1. The above data test reference standard EN14511; EN14825; EN50564; EN12102; (EU) No:811/2013; (EU)No:813/2013; OJ 2014/C 207/02.
2. Sound pressure level is measured at a position 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semi-anechoic chamber. During in-site operation, sound pressure levels may be higher as a result of ambient noise.

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. R32 (100% HFC-32), GWP of refrigerant used: 675.



Air-Cooled DC Inverter Modular Chillers

FEATURES

- Modular design concept
- Combination of up to 16 modules (75, 90, 140 kW), 8 modules (180kW)
- Units use ecological refrigerant R32
- Easy connection of the main unit and slave units
- All modularly connected chillers can be controlled by a single wired controller
- 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
- Wide ambient and water outlet temperature range
- SCV-750EBH, SCV-900EBH, SCV-1400EBH and SCV-1800EBH include hydraulic module



MODEL		
Power supply		V/Ph/Hz
Cooling1	Capacity	kW
	Input	kW
	EER	-
Heating2	Capacity	kW
	Input	kW
	COP	-
Compressor	Type	-
	Quantity	Pieces
Air side heat exchanger	Type	-
	Quantity of fan motor	Pieces
	Air flow	m3/h
Water side heat exchanger	Type	-
	Water pressure drop	kPa
	Volume	L
	Water flow range	m3/h
Refrigerant	Type	-
	Charged volume	kg / t eq. CO ₂
	Throttle type	-
Sound pressure level3		dB(A)
Unit net dimension (DxHxW)		mm
Packing dimension (DxHxW)		mm
Net / Gross weight		kg
Pipe connections	Water inlet/outlet	mm
Water pipe connection type		-
Controller		
Ambient temperature range	Cooling	°C
	Heating	°C
Water outlet temperature range	Cooling	°C
	Heating	°C

WIRED CONTROLLER KJRM-120H2 - STANDARD (included with outdoor unit)

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





SCV-750EB	SCV-750EBH	SCV-900EB	SCV-900EBH	SCV-1400EB	SCV-1400EBH	SCV-1800EB	SCV-1800EBH
380-415/3/50							
70	69,7	82	82	130	129,5	164	163
26,8	27,3	27,8	28,3	50,5	51,4	56	57,7
2,61	2,55	2,95	2,90	2,57	2,52	2,93	2,82
75	75,4	90	90	138	138,6	180	181,2
23,7	24,3	28,1	29	44,5	45,6	57	59,1
3,16	3,1	3,2	3,10	3,10	3,04	3,16	3,07
EVI DC inverter rotary							
1	1	2	2	2	2	4	4
Finned tube	Finned tube	Finned tube	Finned tube	Finned tube	Finned tube	Finned tube	Finned tube
2	2	2	2	2	2	4	4
28 500	28 500	35 000	35 000	50 000	50 000	70 000	70 000
Plate	Plate	Plate	Plate	Plate	Plate	Plate	Plate
65	-	75	-	65	-	96	-
5,17	5,17	7,05	7,05	11,1	11,1	6,96x2	6,96x2
8-15,5	8-15,5	10,2-18	10,2-18	15,6-28,5	15,6-28,5	20,0-36,1	20,0-36,1
R32	R32	R32	R32	R32	R32	R32	R32
9 / 6,08	9 / 6,08	16* (11,5+4,5) / 10,8	16* (11,5+4,5) / 10,8	15,5* (11,5+4) / 10,46	15,5* (11,5+4) / 10,46	16x2* (5,5+10,5)x2 / 10,8x2	16x2* (5,5+10,5)x2 / 10,8x2
EXV	EXV	EXV	EXV	EXV	EXV	EXV	EXV
69	69	65	65	73	74	72	72
960x1770x2000	960x1770x2000	1135x2315x2220	1135x2315x2220	1135x2300x2220	1135x2300x2220	2220x2413x2752	2220x2413x2752
1030x1890x2085	1030x1890x2085	1180x2445x2250	1180x2445x2250	1180x2425x2250	1180x2425x2250	2245x2446x2810	2245x2446x2810
440/455	475/490	635/660	686/711	670/690	746/767	1400/1420	1500/1504
DN50	DN50	DN50	DN50	DN65	DN65	DN80	DN80
Clasp connection	Clasp connection	Clasp connection	Clasp connection	Clasp connection	Clasp connection	Clasp connection	Clasp connection
Wire controller KJRM-120H2 (standard)							
-10~48							
-20~43							
5~20							
25~54							

SCV-750EB, SCV-900EB, SCV-1400EB and SCV-1800EB don't include hydraulic module due to variabilities of particular projects. SCV-750EBH, SCV-900EBH, SCV-1400EBH and SCV-1800EBH include hydraulic module.

* Total amount of refrigerant (must be supplemented with 4,5; 4 or 2x10,5 kg depending on chiller type).

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. 1m 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. R32 (100% HFC-32), GWP of refrigerant: 675.



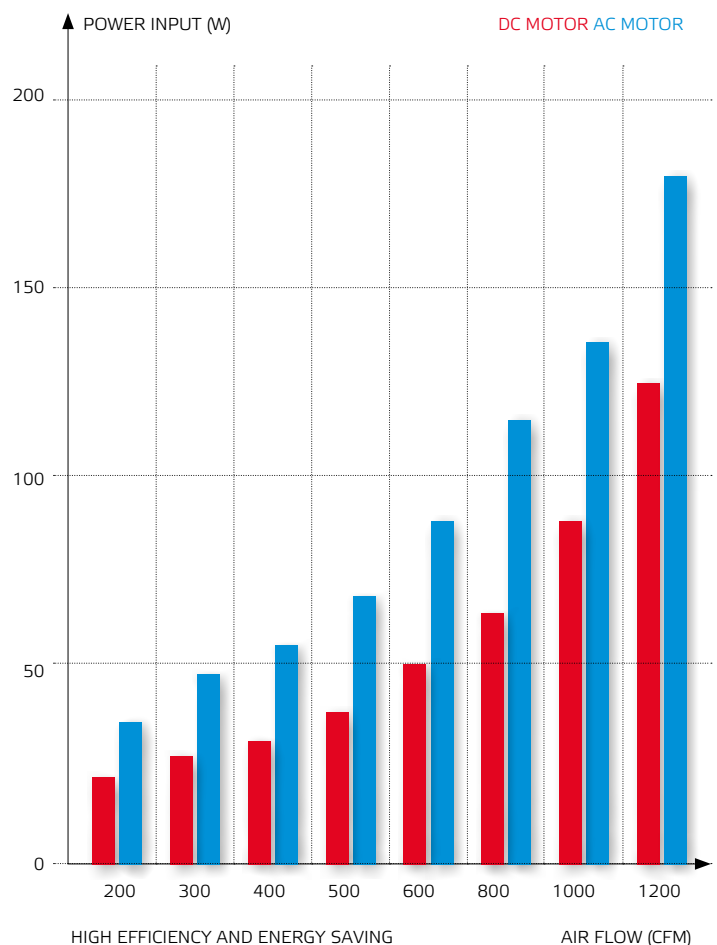
Fan Coil Units

ADVANTAGE OF FAN COIL UNITS WITH DC BRUSHLESS FAN MOTOR

The DC fan coil units are the 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

C2M	Four-way cassette unit, 2 pipes
C4M	Four-way cassette unit, 4 pipes
HM2	Wall mounted unit, 2 pipes
D3	Duct, 3 rows, 2 pipes
D4	Duct, 3 rows, 4 pipes
F3	Floor ceiling, 3 rows, 2 pipes
SF	Designation for sinclair fan coil



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%.

FOUR-WAY CASSETTE, 2 PIPES

- Decorative panel included
- Fresh air connection
- Possibility of air outlet into small room
- DC brushless fan motor
- Condensate drain pump is included
- 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



MODEL		SF-300C2M	SF-400C2M	SF-500C2M	SF-600C2M	SF-750C2M	SF-850C2M	SF-950C2M	SF-1500C2M		
Power supply		V/Ph/Hz			220-240/1/50		220-240/1/50				
Air flow (H/M/L)		m ³ /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)	kW	2,98/2,53/2,00	3,96/3,26/2,76	4,23/4,83/3,01	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	m ³ /h	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	kPa	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)	kW	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	kPa	8,2/6/3,8	12,68/6,4/4,92	11,41/6,5/5,41	16,9/12,7/8,6	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									
	Quantity	1									
Fan	Type	Centrifugal, forward-curved blades				Centrifugal, forward-curved blades					
	Quantity	1									
Coil	Row	2									
	Max. working pressure	MPa	1,6								
	Diameter	mm	φ7								
Panel	Net dimensions (WxHxD)	mm	647x50x647	647x50x647	647x50x647	950x45x950	950x45x950	950x45x950	950x45x950	950x45x950	
	Packing size (WxHxD)	mm	715x123x715	715x123x715	715x123x715	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	
	Net weight	kg	2,5		2,5	6	6	6	6	6	
	Gross weight	kg	4,5		4,5	9	9	9	9	9	
Body	Net dimensions (WxHxD)	mm	575x261x575	575x261x575	575x261x575	840x230x840	840x230x840	840x300x840	840x300x840	840x300x840	
	Packing size (WxHxD)	mm	670x290x670	670x290x670	670x290x670	900x260x900	900x260x900	900x330x900	900x330x900	900x330x900	
	Net weight	kg	16,5		16,5	23	23	27	27	29,5	
	Gross weight	kg	22,5		22,5	28	28	33	33	34,5	
Pipe connections	Water inlet/outlet pipe	inch	G3/4			RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	
	Drain pipe	mm	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

- Decorative panel included
- 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 included
- 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-300C4M	SF-400C4M	SF-500C4M	SF-600C4M	SF-750C4M	SF-950C4M	SF-1200C4M	SF-1500C4M	
Power supply	V/Ph/Hz	220-240/1/50				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	11,05/10,15/9,53	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	
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	675x320x675	675x320x675	675x320x675	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

- New stylish flat panel
- Digital LED display
- Easy installation
- Built-in 3-way electromagnetic valve
- DC fan motor
- Auto swing louver
- Support Modbus RTU
- Possibility of using external control of fan speed (low, medium, high) by 0-10V DC



WALL MOUNTED UNITS HAVE
REMOTE CONTROLLER R05 AS STANDARD

MODEL			SF-250HM2	SF-400HM2	SF-600HM2
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m ³ /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)	kW	2,7/2,59/2,39	3,81/3,3/2,88	4,87/4,26/3,79
	Water flow rate	m ³ /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)	kW	3,29/3,03/2,63	5,08/4,33/3,77	6,31/5,57/4,77
	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	1,6
	Diameter	mm	φ7	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	15,6	15,6	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 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.

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)		m ³ /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)	kW	2,2/1,9/1,68	4/3,4/2,95	5,8/4,88/4,45	9/7,8/6,57
	Water flow rate	m ³ /h	378	688	998	1548
	Water pressure drop	kPa	9,4	9,7	30,1	21,8
Heating	Capacity (H/M/L)	kW	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	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	DC Motor	DC motor	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	23,7	34,7
Gross weight		kg	19,7	24	27,2	39,2
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	R3/4	R3/4	R3/4	R3/4

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 OPa 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.

DUCT, 4 ROWS, 2 PIPES

- Independent connection to the heating and cooling circuits
- 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



NEW



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

MODEL		SF-200D4	SF-300D4	SF-400D4	SF-500D4	SF-600D4	SF-800D4	SF-1000D4	SF-1200D4	
Power supply	V/Ph/Hz	220-240/1/50								
Air flow (H/M/L)	m ³ /h	320/210/140	450/340/280	530/390/260	690/470/370	900/670/440	1240/840/670	1610/1160/790	1850/1400/970	
	CFM	190/120/85	270/200/170	320/230/160	410/280/220	530/400/260	730/500/400	950/690/470	1090/830/570	
Standard external static pressure	Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB								
Cooling	Capacity (H/M/L)	kW	1,4/1,1/0,8	2,2/1,7/1,5	2,5/2,0/1,5	3,0/2,4/1,9	4,2/3,5/2,5	5,3/4,1/3,1	6,7/5,4/3,9	8,2/6,5/4,6
	Water flow rate	m ³ /h	0,27	0,38	0,47	0,54	0,73	0,93	1,18	1,40
	Water pressure drop	kPa	10,2	10,5	11,3	13,6	15,3	12,8	21,6	34,9
Heating	Capacity (H/M/L)	kW	2,1/1,7/1,4	3,0/2,6/2,1	3,7/3,2/2,5	4,4/3,6/3,0	5,7/4,8/3,4	6,8/5,5/4,6	8,2/6,9/5,2	10,1/8,6/6,8
	Water pressure drop	kPa	8,9	9,1	10,1	11,7	12,7	12	15,5	25,73
Max. power input	W	16	21	28	36	45	57	87	95	
Sound pressure level	12Pa (H/M/L)	dB(A)	35/25/23	36/29/23	38/32/24	43/35/27	46/39/30	46/38/30	48/41/31	47/40/30
	30Pa (H/M/L)	dB(A)	41/32/25	39/30/25	44/38/28	46/37/30	49/41/33	49/43/33	49/42/33	50/42/34
	50Pa (H/M/L)	dB(A)	43/34/26	44/36/26	47/41/28	48/42/33	51/44/39	52/45/37	51/44/35	53/45/37
Fan motor	Type	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	
	Quantity	1	1	1	2	1	2	2	2	
Fan	Type	Centrifugal, forward-curved Blades								
	Quantity	2	2	2	2	2	4	4	4	
Coil	Row	3	3	3	3	3	3	3	3	
	Max. working pressure	MPa	1,6	1,6	1,6	1,6	1,6	1,6	1,6	
	Diameter	mm	φ9,52	φ9,52	φ9,52	φ9,52	φ9,52	φ9,52	φ9,52	
Net dimensions (WxHxD)	mm	741x241x522	841x241x522	941x241x522	941x241x522	1161x241x522	1461x241x522	1566x241x522	1856x241x522	
Packing size (WxHxD)	mm	790x260x550	890x260x550	990x260x550	990x260x550	1210x260x550	1510x260x550	1615x260x550	1905x260x550	
Net weight	kg	17,2	19,5	21,5	21,5	24,2	33,5	35,2	39,7	
Gross weight	kg	20,2	22,5	24,5	24,5	27,7	37,7	39,7	44,9	
Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	
Drain pipe	inch	R3/4	R3/4	R3/4	R3/4	R3/4	R3/4	R3/4	R3/4	

Duct 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. Air flow rate at OPa 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

- Elegant design
- 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
- Possibility of using external control of fan speed (low, medium, high) by 0-10V DC



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)	m ³ /h	400/315/190	595/470/340	790/580/410	1190/855/505	1360/1015/685	
	CFM	235/185/112	350/276/200	488/359/253	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)	m ³ /h	0,40/0,34/0,21	0,60/0,50/0,38	0,74/0,60/0,47	0,96/0,77/0,54	1,27/1,05/0,79
	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	3,8/3,1/2,35	4,7/3,7/2,81	6,00/4,77/3,36	8,05/6,46/4,71
	Water flow rate (H/M/L)	m ³ /h	0,45/0,37/0,23	0,65/0,53/0,40	0,81/0,64/0,48	1,04/0,83/0,59	1,39/1,12/0,82
	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.

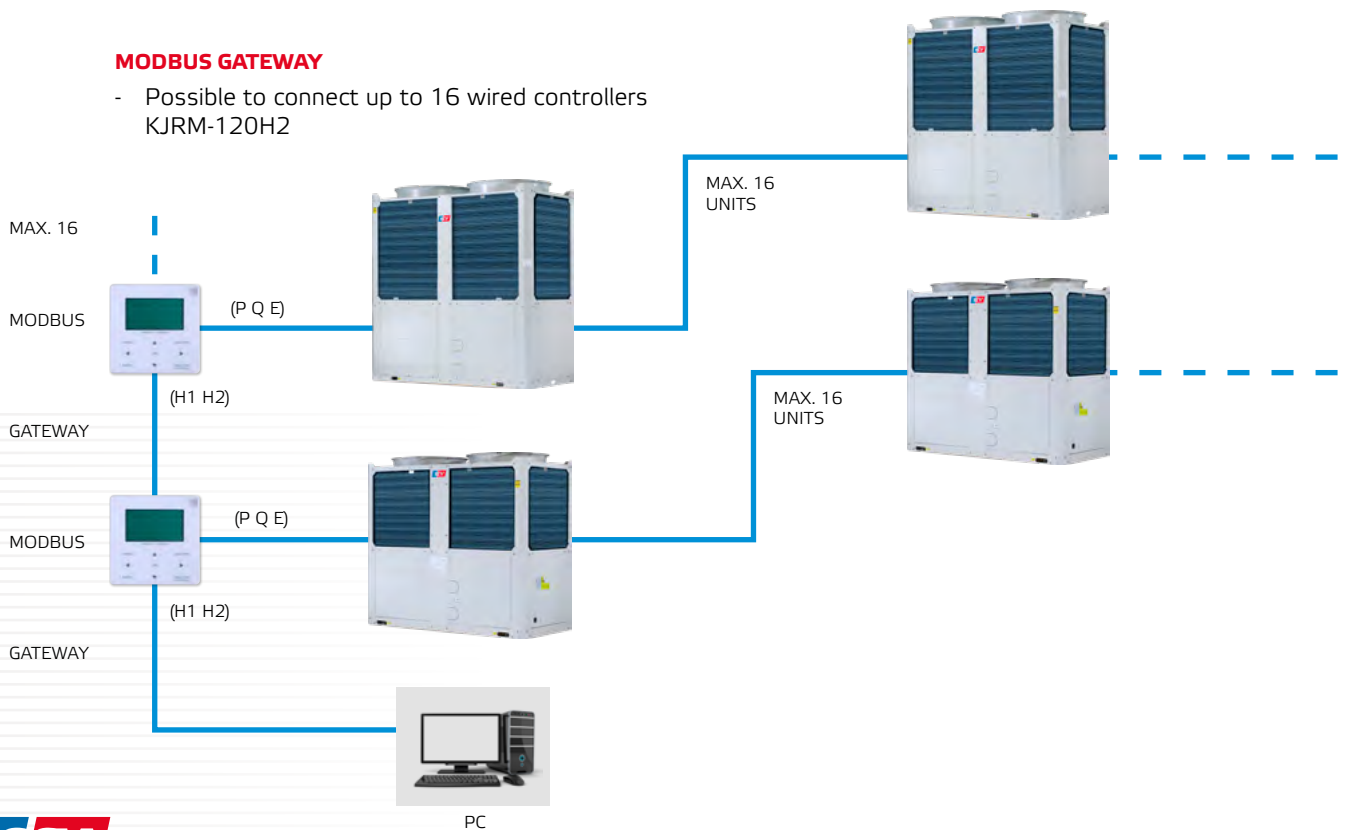
The valve uses the characteristics of NC (normally closed) and power supply 230V from fan coil unit. SINCLAIR doesn't offer valves.

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 45 °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-120H2





Fan Coil Units Accessories

CONTROLLERS FOR FAN COIL UNITS



R05/RM05

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/D4 and floor-ceiling.



SWC-86A

Wall mounted digital wired controller for duct SF-xxxD3/D4 supports MODBUS RTU.



KJRP-75A

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



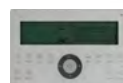
FCUKZ-03

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



CCM15

Central remote control with weekly timer via internet through cloud server. Support control via mobile app.



CCM30 / SCM-30

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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