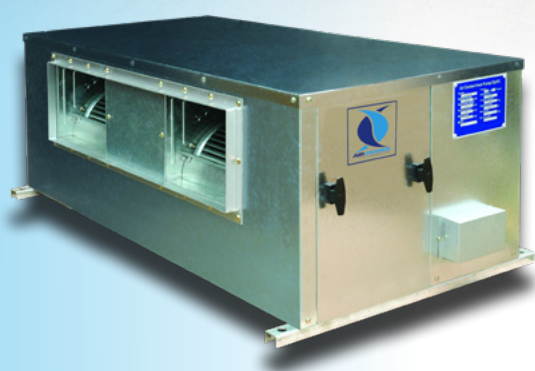
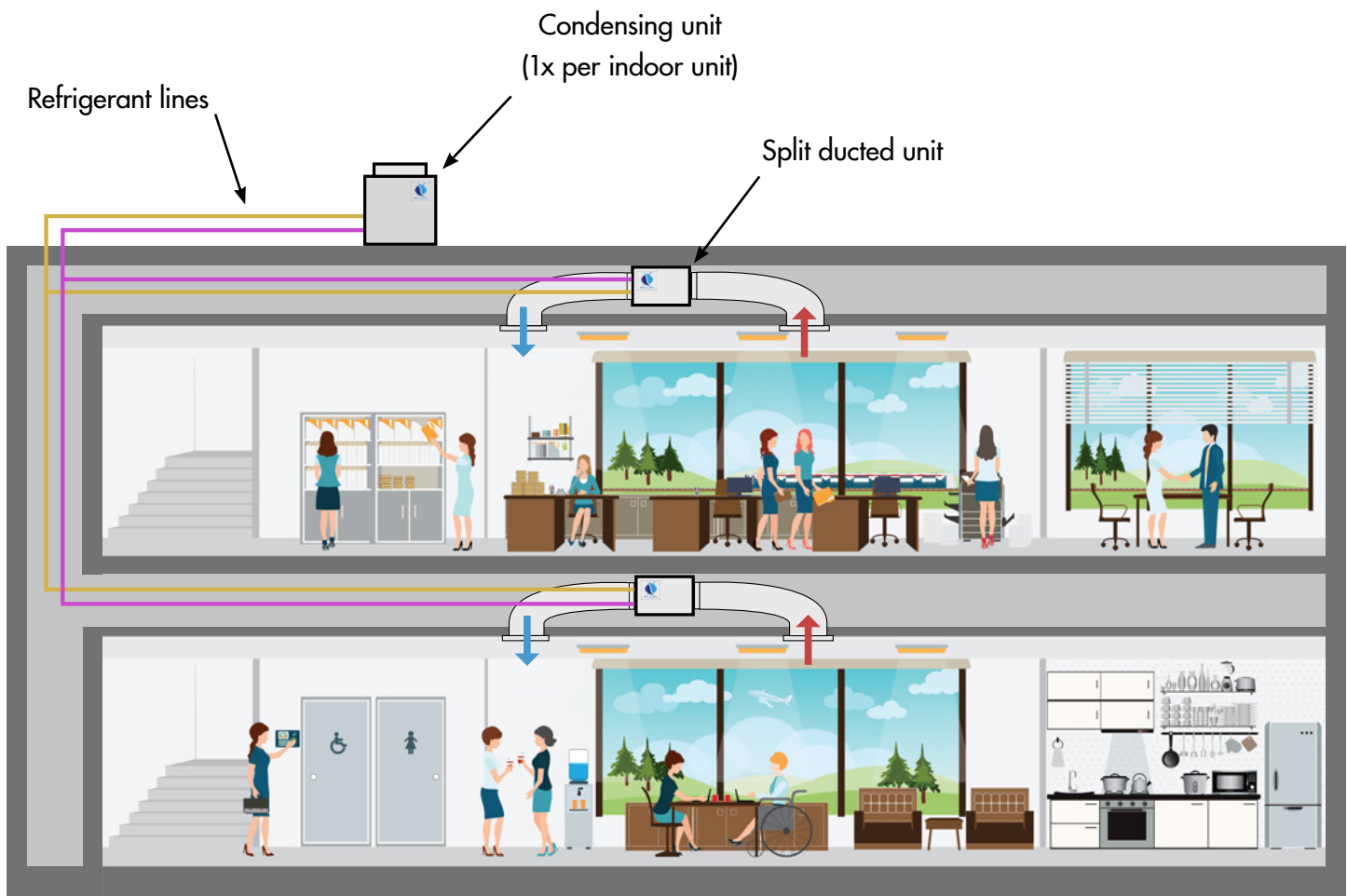




SH Range

Air Cooled Split Ducted Units

How it Works



Air Change air cooled split ducted units are available in horizontal configurations for ceiling installation, and vertical configurations for plantroom installation.

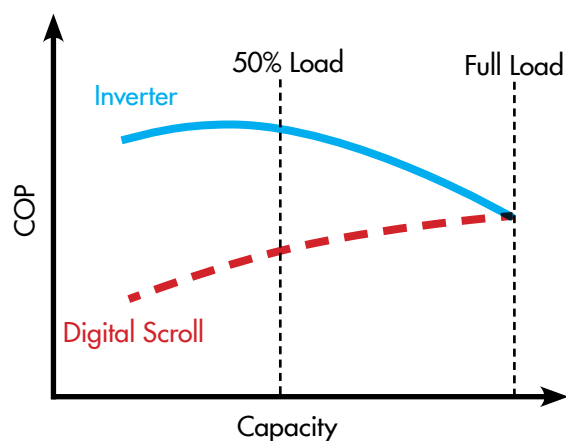
Features



BLDC Inverter Compressors (Option)

BLDC inverter compressors have a high efficiency permanent magnet motor that can be electronically speed controlled to modulate the refrigerant mass flow rate through the refrigeration circuit. The benefits are:

- Greater temperature control precision with capacity turn-down ratios of typically 5:1
- Significantly improved COP during capacity turn-down because of the reduced condensing to evaporating pressure differential. This results in large overall energy savings as air conditioners typically spend minimal time at design capacity
- Reduced compressor wear due to the largely diminished need for compressor on/off cycling
- Reduced stress on refrigeration pipework due to compressor soft-starting
- No spikes in current draw during compressor start-up due to soft-starting
- Reduced compressor noise during capacity turn-down
- The ability to be used in Variable Air Volume (VAV) installations



Indicative COP vs. capacity profiles of inverter and digital scroll compressors.

EC Supply and Condenser Fans (option)

EC supply fans permit variable capacity airflow to the space when required offering optimal energy efficiency.

Variable capacity condenser fans provide head pressure control and increase the efficiency of the refrigeration circuit.



Technical Data

Horizontal Configuration

Model Number:	SHS					SH					
	18	20	25	30	35	40	45	50	56	66	73
Capacity											
Total Cooling (kW)	17.2	19.6	24.2	30.6	34.8	39.1	44.4	48.6	55.6	65.5	72.8
Sensible Cooling (kW)	14.4	15.7	19.3	25.4	28.8	32.6	36.8	39.8	45	50.9	59.3
Heating (kW)	17.4	19.3	24.5	30.6	32.4	38	43.5	44.2	57.4	60.7	66.6
Airflow											
Nominal (l/s)	928	1030	1390	1800	2000	2200	2700	2800	3000	3500	3900
Power											
Power Supply (V/Ph/Hz)	415 / 3 / 50										
Full Load Amps (A)	16	17	22.4	25.9	27.6	30.8	37.2	41.2	47.7	54.5	60.6
Compressors											
Compressor Type	Fixed Speed Scroll (standard) or BLDC Inverter (option)										
Refrigerant	R410A or R407C										
Fans											
Indoor Type	Forward Curve Centrifugal (standard) or EC Plug/Scroll (option)										
Outdoor Type	Axial										
Indoor Unit Dimensions											
Length (mm)	1550	1600	1650	1900	2100	1300	1500	1600	1600	2000	2000
Width (mm)	620	620	720	720	720	1200	1200	1200	1200	1250	1250
Height (mm)	420	420	485	485	485	940	940	940	940	1040	1040
Outdoor Unit Dimensions											
Length (mm)	950	950	1300	1300	1300	1550	1550	1800	1800	1800	1800
Width (mm)	340	340	950	950	1000	1200	1400	1755	1755	1755	1755
Height (mm)	1230	1230	700	930	930	900	900	910	910	910	910

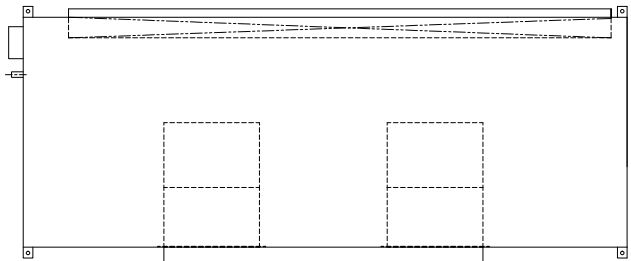
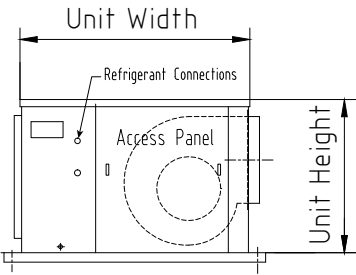
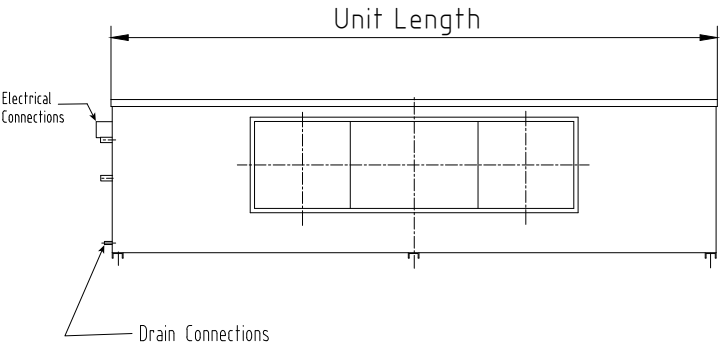
Model Number:	SH							
	80	90	100	120	140	160	180	200
Capacity								
Total Cooling (kW)	80.4	88.5	102.2	117.6	137.8	156.2	176.8	201.8
Sensible Cooling (kW)	65.5	71	82.9	95.2	110.6	127.5	143.6	164.3
Heating (kW)	80.7	85	98.5	116.2	132	152.5	169.4	196.2
Airflow								
Nominal (l/s)	4300	4800	5500	6500	7500	8500	9500	10500
Power								
Power Supply (V/Ph/Hz)								
Full Load Amps (A)	66.2	74.4	85.2	98.8	117.5	133.9	153.2	163.7
Compressors								
Compressor Type	Fixed Speed Scroll (standard) or BLDC Inverter (option)							
Refrigerant	R410A or R407C							
Fans								
Indoor Type	Forward Curve Centrifugal (standard) or EC Plug/Scroll (option)							
Outdoor Type	Axial							
Indoor Unit Dimensions								
Length (mm)	2200	2430	2150	2300	2650	2850	3050	3050
Width (mm)	1250	1350	1450	1550	1600	1800	1850	1850
Height (mm)	1040	1140	1350	1550	1550	1550	1650	1650
Outdoor Unit Dimensions								
Length (mm)	1800	1800	2050	2050	2050	2050	2150	2150
Width (mm)	1803	2080	2050	2050	2050	2050	2200	2150
Height (mm)	910	1100	1350	1350	1750	1750	2350	2350

Notes:

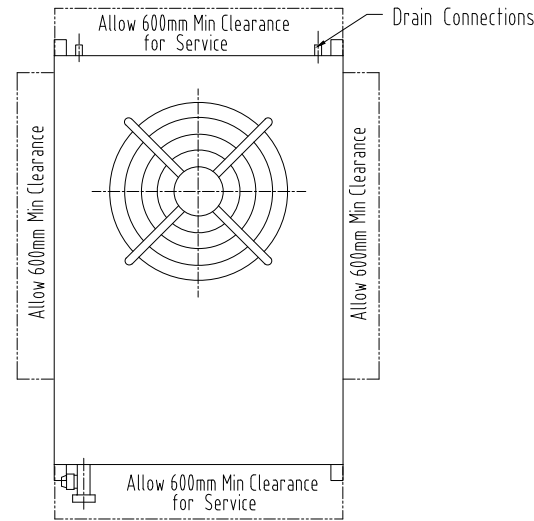
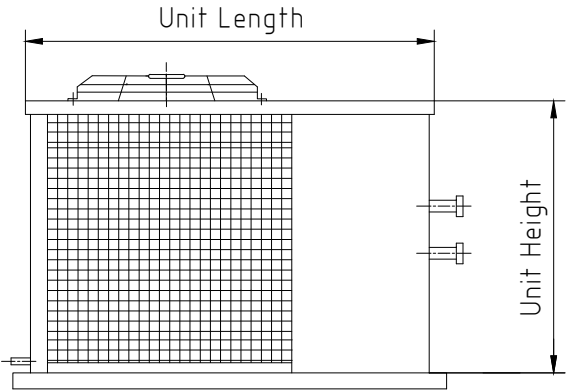
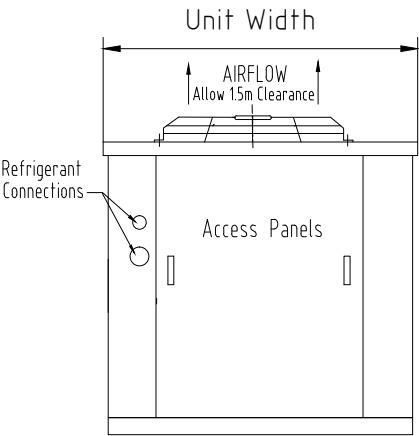
- Specifications are subject to change. Refer to project certified documentation for finalised details.
- Cooling capacity based on: OA 35/24°C, RA 27/19°C. Heating capacity based on: OA 7°C, RA 20°C.

Technical Data

Indoor Unit



Outdoor Unit



Technical Data

Vertical Configuration

	SHS-L								SH-L		
Model Number:	8	12	15	18	20	25	30	35	40	45	50
Capacity											
Total Cooling (kW)	7.8	12.2	14.3	17.2	19.6	24.2	30.6	34.8	39.1	44.4	48.6
Sensible Cooling (kW)	7.2	9.9	13	14.4	15.7	19.3	25.4	28.8	32.6	36.8	39.8
Heating (kW)	7.6	12.6	14.2	17.4	19.3	24.5	30.6	32.4	38	43.5	44.2
Airflow											
Nominal (l/s)	467	695	840	928	1030	1390	1800	2000	2200	2700	2800
Power											
Power Supply (V/Ph/Hz)	415 / 3 / 50										
Full Load Amps (A)	10.4	14	13.9	16	17	22.4	25.9	27.6	30.8	37.2	41.2
Compressors											
Compressor Type	Fixed Speed Scroll (standard) or BLDC Inverter (option)										
Refrigerant	R410A or R407C										
Fans											
Indoor Type	Forward Curve Centrifugal (standard) or EC Plug/Scroll (option)										
Outdoor Type	Axial										
Indoor Unit Dimensions											
Length (mm)	560	850	750	850	850	1050	1200	1200	1400	1600	1800
Width (mm)	500	500	500	550	550	750	750	750	750	750	750
Height (mm)	1120	1200	1405	1530	1530	1830	1880	1880	1830	1830	1830
Outdoor Unit Dimensions											
Length (mm)	860	860	860	860	1300	1300	1300	1300	1550	1550	1800
Width (mm)	800	800	860	860	950	950	950	1000	1200	1400	1755
Height (mm)	915	915	915	915	700	700	930	930	900	900	910

	SH-L										
Model Number:	56	66	73	80	90	100	120	140			
Capacity											
Total Cooling (kW)	55.6	65.5	72.8	80.4	88.5	102.2	117.6	137.8			
Sensible Cooling (kW)	50.9	50.9	59.3	65.5	65.5	82.9	95.2	110.6			
Nominal Heating (kW)	57.4	60.7	66.6	80.7	80.7	98.5	116.2	132			
Airflow											
Nominal (l/s)	3000	3500	3900	4300	4800	5500	6500	7500			
Power											
Power Supply (V/Ph/Hz)	415 / 3 / 50										
Full Load Amps (A)	47.7	54.5	60.6	66.2	74.4	85.2	98.8	117.5			
Compressors											
Compressor Type	Fixed Speed Scroll (standard) or BLDC Inverter (option)										
Refrigerant	R410A or R407C										
Fans											
Indoor Type	Forward Curve Centrifugal (standard) or EC Plug/Scroll (option)										
Outdoor Type	Axial										
Indoor Unit Dimensions											
Length (mm)	1800	1950	1950	2100	2300	2300	2600	2670			
Width (mm)	750	750	750	800	800	900	1150	1150			
Height (mm)	1830	1930	1930	1980	1980	2200	2320	2500			
Outdoor Unit Dimensions											
Length (mm)	1800	1800	1800	1803	2080	2050	2050	2050			
Width (mm)	1755	1755	1755	1800	1800	2050	2050	2050			
Height (mm)	910	910	910	910	1100	1350	1350	1750			

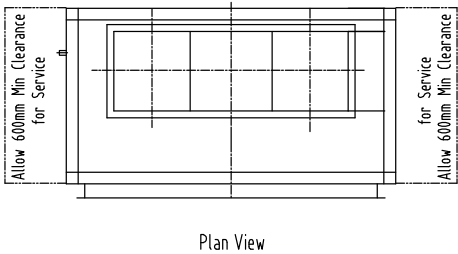
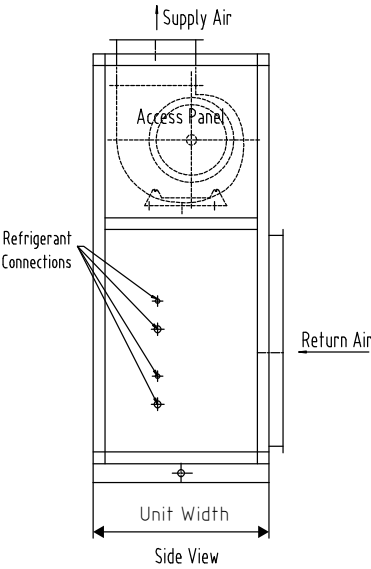
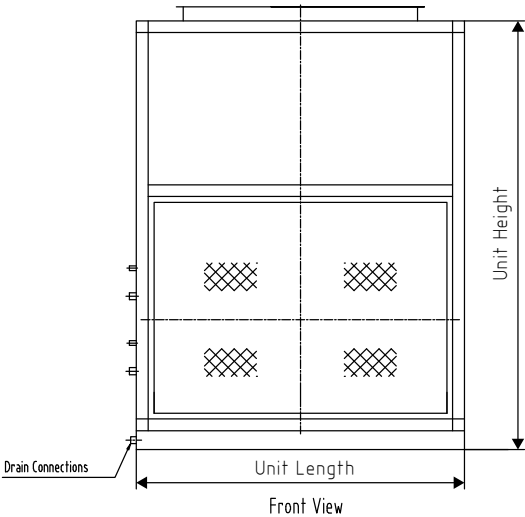
Notes:

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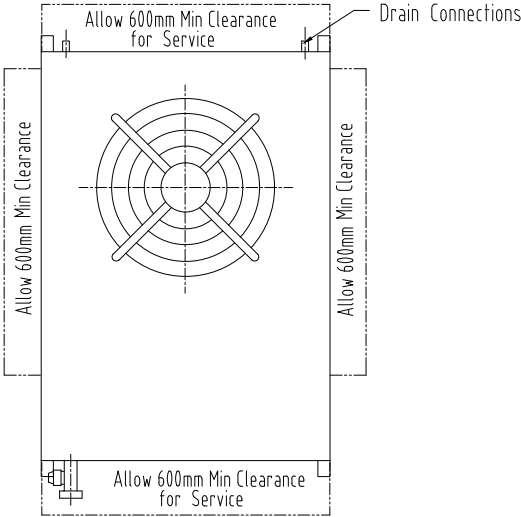
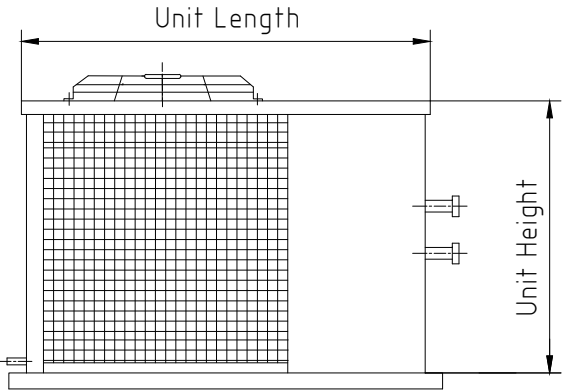
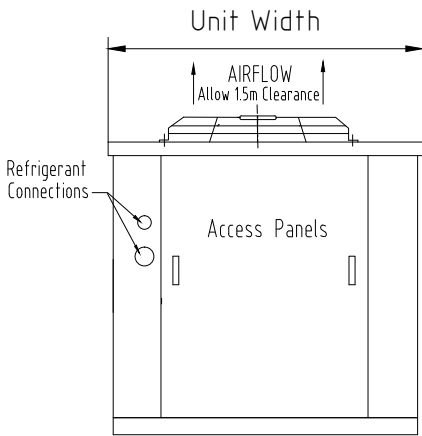
-Cooling capacity based on: OA 35/24°C, RA 27/19°C. Heating capacity based on: OA 7°C, RA 20°C.

Technical Data

Indoor Unit



Outdoor Unit



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