

OUTDOOR UNITS

**SDV6 SMALL INDIVIDUAL SIDE DISCHARGE R410A**

MODEL			SDV6-E80AS	SDV6-E100AS	SDV6-E120AS	SDV6-E140AS	
Horse power (HP)		-	2,5	3,5	4,4	5	
Power		phase / Hz / V	1 ~ / 50 / 220-240	1 ~ / 50 / 220-240	1 ~ / 50 / 220-240	1 ~ / 50 / 220-240	
Cooling capacity		kW	7,2	9	12,3	14	
Cooling input power		kW	2,21	2,9	3,97	5,19	
EER		-	3,26	3,10	3,10	2,70	
SEER			5,40	5,40	7,20	7,00	
$\eta_{s,c}$		%	-	-	285	277	
Heating capacity		kW	7,2	9	12,3	14	
Heating input power		kW	1,8	2,37	3	3,68	
COP		-	4,00	3,80	4,10	3,80	
SCOP			3,80	3,80	4,90	4,80	
$\eta_{s,h}$			-	-	193	189	
Combination of indoor units		-	50-160%*** of outdoor unit capacity				
Number of indoor units		-	5	6	8	10	
Compressor		Type	DC inverter	DC inverter	DC inverter	DC inverter	
		Qty	1	1	1	1	
		Oil	RB75EA	RB75EA	RB75EA	RB75EA	
Operating range-cooling		°C	-15-52	-15-52	-15-52	-15-52	
Operating range-heating		°C	-20-30	-20-30	-20-30	-20-30	
Sound pressure level		dB(A)	53	53	55	56	
Sound power level		dB(A)	70	72	72	73	
Airflow		m <sup>3</sup> /h	5200	5200	5000	5000	
Net weight		kg	80	80	94	94	
Gross weight		kg	90	90	104	104	
Net dimensions	w x h x d	mm	1073x864x523	1073x864x523	1073x864x523	1073x864x523	
Packing dimensions	w x h x d	mm	1120x980x560	1120x980x560	1120x980x560	1120x980x560	
Refrigerant		type	R410A	R410A	R410A	R410A	
		kg	3,1	3,1	4,1	4,1	
		t eq. CO <sub>2</sub>	6,47	6,47	8,56	8,56	
Vertical pipe length *		m	30 / 20	30 / 20	50 / 40	50 / 40	
Pipe length from 1. branch		m	30	30	40	40	
Equivalent pipe length		m	60	60	120	120	
Total pipe length		m	150	150	300	300	
Pipe diameter - liquid side		mm	9,5	9,5	9,5	9,5	
Pipe diameter - gas side		mm	15,9	15,9	15,9	15,9	
<b>ADDITIONAL TECHNICAL INFORMATION</b>							
Screw holes distance of OD	w x d	mm	656x463	656x463	656x463	656x463	
Communication cable		mm <sup>2</sup>	3x0,75 shielded in case mixed IDU SDV5 and SDV6 or 2x0,75 in case only IDU SDV6 (more than 10pcs IDU SDV6 require repeater SDV6-RPT in case separate power supply of each IDU SDV6)				
Recommended power cable		mm <sup>2</sup>	3x6,0	3x6,0	3x10,0	3x16,0	
Recommended air switch		A	B25	B25	B32	B40	
<b>EQUIPMENT</b>							
Crancase heater			yes	yes	yes	yes	
Drain pipe connector			yes	yes	yes	yes	
Alarm signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
ON/OFF signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
Defrost signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
<b>OPTIONAL ACCESSORIES</b>							
Central controller with weekly timer			CCM-180A**				
Central controller with LAN access			CCM-270A**, SCC-61, SDV6-CLOUD				
BMS gateway			SDV5-MOD**, SDV5-BAC**, SDV6-MOD, SDV6-BAC				
Extension kit (2xXYE)			SDV5-EK**, SDV6-EK				

\* Outdoor unit top max. / bottom max.

\*\* Require to set on ODU protocol SDV5.

\*\*\* If there are non SDV6 series indoor units in system the total combination ratio must not exceed 130%.

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.

R410A (50% HFC-32, 50% HFC-125), GWP of refrigerant used: 2088.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Conditions under which has been performed measurements of technical parameters see last page.

Electrical connection scheme for power supply, communication and controller connection see page 42.

OUTDOOR UNITS

**SDV6 SMALL INDIVIDUAL SIDE DISCHARGE R410A**

MODEL			SDV6-E160AS	SDV6-E120AS-3	SDV6-E140AS-3	SDV6-E160AS-3	
Horse power (HP)		-	6	4,4	5	6	
Power		phase / Hz / V	1 ~ / 50 / 220-240	3 ~ / 50 / 380-415	3 ~ / 50 / 380-415	3 ~ / 50 / 380-415	
Cooling capacity		kW	15,5	12,3	14	15,5	
Cooling input power		kW	5,96	3,97	5,19	5,96	
EER		-	2,60	3,10	2,70	2,60	
SEER		-	6,80	7,20	7,00	6,80	
$\eta_{s,c}$		%	269	285	277	269	
Heating capacity		kW	15,5	12,3	14	15,5	
Heating input power		kW	4,19	3	3,68	4,19	
COP		-	3,70	4,10	3,80	3,70	
SCOP		-	4,80	4,90	4,80	4,80	
$\eta_{s,h}$		-	189	193	189	189	
Combination of indoor units		-	50-160%*** of outdoor unit capacity				
Number of indoor units		-	11	8	10	11	
Compressor		Type	DC inverter	DC inverter	DC inverter	DC inverter	
		Qty	1	1	1	1	
		Oil	RB75EA	RB75EA	RB75EA	RB75EA	
Operating range-cooling		°C	-15-52	-15-52	-15-52	-15-52	
Operating range-heating		°C	-20-30	-20-30	-20-30	-20-30	
Sound pressure level		dB(A)	56	55	56	56	
Sound power level		dB(A)	74	72	73	74	
Airflow		m <sup>3</sup> /h	5000	5000	5000	5000	
Net weight		kg	94	109	109	109	
Gross weight		kg	104	119	119	119	
Net dimensions	w x h x d	mm	1073x864x523	1073x864x523	1073x864x523	1073x864x523	
Packing dimensions	w x h x d	mm	1120x980x560	1120x980x560	1120x980x560	1120x980x560	
Refrigerant		type	R410A	R410A	R410A	R410A	
		kg	4,1	4,1	4,1	4,1	
		t eq. CO <sub>2</sub>	8,56	8,56	8,56	8,56	
Vertical pipe length *		m	50 / 40	50 / 40	50 / 40	50 / 40	
Pipe length from 1. branch		m	40	40	40	40	
Equivalent pipe length		m	120	120	120	120	
Total pipe length		m	300	300	300	300	
Pipe diameter - liquid side		mm	9,5	9,5	9,5	9,5	
Pipe diameter - gas side		mm	15,9	15,9	15,9	15,9	
<b>ADDITIONAL TECHNICAL INFORMATION</b>							
Screw holes distance of OD	w x d	mm	656x463	656x463	656x463	656x463	
Communication cable		mm <sup>2</sup>	3x0,75 shielded in case mixed IDU SDV5 and SDV6 or 2x0,75 in case only IDU SDV6 (more than 10pcs IDU SDV6 require repeater SDV6-RPT in case separate power supply of each IDU SDV6)				
Recommended power cable		mm <sup>2</sup>	3x16,0	5x4,0	5x4,0	5x4,0	
Recommended air switch		A	B40	B20	B20	B20	
<b>EQUIPMENT</b>							
Crancase heater			yes	yes	yes	yes	
Drain pipe connector			yes	yes	yes	yes	
Alarm signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
ON/OFF signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
Defrost signal			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	yes (dry-contact)	
<b>OPTIONAL ACCESSORIES</b>							
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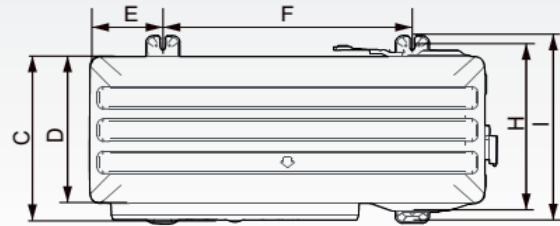
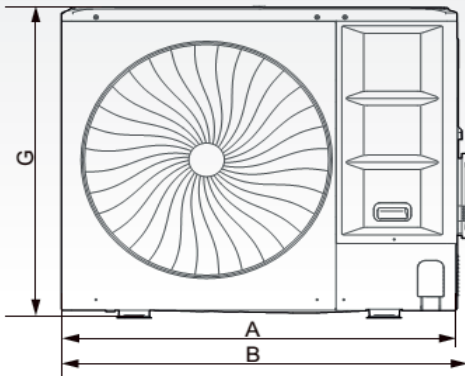
Conditions under which has been performed measurements of technical parameters see last page.

Electrical connection scheme for power supply, communication and controller connection see page 42.

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

**SDV6 SMALL INDIVIDUAL SIDE DISCHARGE R410A**

SDV6-E80-160AS/AS-3



Model	SDV6-E80-160AS/AS-3
A (mm)	1038
B (mm)	1073
C (mm)	454
D (mm)	409
E (mm)	191
F (mm)	656
G (mm)	864
H (mm)	463
I (mm)	523

ALLOWED LENGTH AND DROP HEIGHT OF CONNECTION (See installation manual)

**Additional refrigerant:**

Calculate the added refrigerant according to the diameter and the length of the liquid side pipe of the outdoor unit/indoor unit connection.

When the outdoor unit connects 1 meter.

ADDITIONAL REFRIGERANT

Liquid side piping (mm)	Additional ref. charge R410A per meter of equivalent length of piping (kg)
φ6,4	0,022
φ9,5	0,057
φ12,7	0,11
φ15,9	0,17