

OUTDOOR UNITS

**MINI CHILLERS**

MODEL			SCV-50EA	SCV-70EA	SCV-100EA		
Power supply		V/Ph/Hz	220-240/1/50				
Cooling1	Capacity	kW	5,0 (1,9~5,8)	7,0 (2,1~7,8)	10,0 (2,9~10,5)		
	Rated input	W	1550	2250	2950		
	Rated current	A	6,8	9,9	13,0		
	EER	-	3,23	3,11	3,39		
Cooling2	Capacity	kW	5,6	8,0	10,6		
	Rated input	W	1150	1850	2300		
	EER	-	4,87	4,32	4,61		
	SEER	-	5,83	6,07	5,71		
Heating3	Capacity	kW	6,2 (2,1~7,0)	8,0 (2,3~9,0)	11,0 (3,2~12,0)		
	Rated input	W	1900	2500	3140		
	Rated current	A	8,3	11,0	13,8		
	COP	-	3,26	3,20	3,50		
Heating4	Capacity	kW	6,2	8,6	11,5		
	Rated input	W	1350	2100	2650		
	COP	-	4,59	4,10	4,34		
	SCOP	-	3,55	3,46	3,34		
Seasonal space heating energy efficiency (ηs)			138,9%	135,3%	130,7%		
Seasonal space heating energy efficiency class			A+	A+	A+		
Max. input current		A	11,4	13,7	25		
Compressor	Type		ROTARY	ROTARY	ROTARY		
Outdoor fan	Motor type		DC Motor	DC Motor	DC Motor		
	Air flow	m³/h	5100	5100	7000		
Air heat exchanger	Type		Fin-coil				
Water heat exchanger	Type		Plate heat exchanger				
	Water volume	L	0,53	0,53	0,7		
	Water flow	m³/h	0,86	1,20	1,72		
	Water pressure drop	kPa	15	15	18		
Water pump	Pump head	m	5,5	5,5	8,5		
	Max. water flow	m³/h	2,5	2,5	4		
Expansion tank volume		L	2	2	3		
Refrigerant	Type		R410A	R410A	R410A		
	Charged volume	kg / t eq. CO2	2,5 / 5,22	2,5 / 5,22	2,8 / 5,8		
Throttle type			Electronic expansion valve				
Sound power level <sup>5</sup>		dB(A)	63	66	68		
Sound pressure level		dB(A)	58	58	59		
Unit net dimension (WxHxD)		mm	990x966x354	990x966x354	970x1327x400		
Packing dimension (WxHxD)		mm	1120x1100x435	1120x1100x435	1082x1456x435		
Net / Gross weight		kg	81/91	81/91	110/121		
The Max. and Min. water inlet pressure <sup>6</sup>		kPa	500/150	500/150	500/150		
Pipe connections	Water inlet/outlet	inch	1	1	1-1/4		
Controller			Electronic controller (standard)				
Ambient temperature range	Cooling	°C	-5-46	-5-46	-5-46		
	Heating	°C	-15-27	-15-27	-15-27		
Water inlet temperature range	Cooling	°C	10-20	10-20	10-20		
	Heating	°C	35-50	35-50	35-50		
<b>ADDITIONAL TECHNICAL INFORMATION</b>							
Screw holes distance of chiller	w x d	mm	740x723	624x366	624x366		
Recommended power cable		mm²	3x4,0	3x4,0	3x6,0		
Recommended air switch		A	B20	B20	B30		
<b>EQUIPMENT</b>							
Crancase heater			yes	yes	yes		
Drain pipe connector			yes	yes	yes		
ON/OFF connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Cool/Heat connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Alarm connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Additional pump connector			yes	yes	yes		
<b>STANDARD ACCESSORIES</b>							
Built-in controller			yes	yes	yes		
Hydraulic module			yes	yes	yes		
Manometer			yes	yes	yes		
<b>OPTIONAL ACCESSORIES</b>							
Wire controller			KJR-120F	KJR-120F	KJR-120F		

Nominal capacity is based on the following conditions:

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

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

OUTDOOR UNITS

**MINI CHILLERS**

MODEL			SCV-120EA	SCV-140EA	SCV-160EA		
Power supply		V/Ph/Hz	380-415/ 3/50				
Cooling1	Capacity	kW	11,2 (3,1~12,0)	12,5 (3,3~14,0)	14,5 (3,5~15,5)		
	Rated input	W	3380	3900	4700		
	Rated current	A	5,5	6,4	7,7		
	EER	-	3,31	3,21	3,09		
Cooling2	Capacity	kW	12,2	14,2	15,6		
	Rated input	W	2600	3100	3600		
	EER	-	4,69	4,58	4,33		
	SEER	-	6,18	6,69	6,78		
Heating3	Capacity	kW	12,3 (3,3~13,2)	13,8 (3,5~15,4)	16,0 (3,7~17,0)		
	Rated input	W	3720	4250	4850		
	Rated current	A	6,1	7,0	8,0		
	COP	-	3,31	3,25	3,30		
Heating4	Capacity	kW	13,0	15,1	16,5		
	Rated input	W	2850	3350	3920		
	COP	-	4,56	4,51	4,21		
	SCOP	-	3,66	3,78	3,39		
Seasonal space heating energy efficiency (ηs)			143,5%	148,3%	132,6%		
Seasonal space heating energy efficiency class			A+	A+	A+		
Max. input current		A	8,9	9,6	10,1		
Compressor	Type		ROTARY	ROTARY	ROTARY		
Outdoor fan	Motor type		DC Motor	DC Motor	DC Motor		
	Air flow	m³/h	7000	7000	7000		
Air heat exchanger	Type		Fin-coil				
Water heat exchanger	Type		Plate heat exchanger				
	Water volume	L	0,78	0,78	1,06		
	Water flow	m³/h	1,92	2,15	2,49		
	Water pressure drop	kPa	18	18	19		
Water pump	Pump head	m	8,5	8,5	8,5		
	Max. water flow	m³/h	4	4	4		
Expansion tank volume		L	3	3	3		
Refrigerant	Type		R410A	R410A	R410A		
	Charged volume	kg / t eq. CO <sub>2</sub>	2,8 / 5,8	2,9 / 6,0	3,2 / 6,7		
Throttle type			Electronic expansion valve				
Sound power level <sup>5</sup>		dB(A)	68	70	72		
Sound pressure level		dB(A)	62	62	62		
Unit net dimension (WxHxD)		mm	970x1327x400	970x1327x400	970x1327x400		
Packing dimension (WxHxD)		mm	1082x1456x435	1082x1456x435	1082x1456x435		
Net / Gross weight		kg	110/121	111/122	111/122		
The Max, and Min, water inlet pressure <sup>6</sup>		kPa	500/150	500/150	500/150		
Pipe connections	Water inlet/outlet	inch	1-1/4	1-1/4	1-1/4		
Controller			Electronic controller (standard)				
Ambient temperature range	Cooling	°C	-5-46	-5-46	-5-46		
	Heating	°C	-15-27	-15-27	-15-27		
Water inlet temperature range	Cooling	°C	10-20	10-20	10-20		
	Heating	°C	35-50	35-50	35-50		
<b>ADDITIONAL TECHNICAL INFORMATION</b>							
Screw holes distance of chiller	w x d	mm	600x360	600x360	600x360		
Recommended power cable		mm²	5x2,5	5x2,5	5x2,5		
Recommended air switch		A	B16	B16	B16		
<b>EQUIPMENT</b>							
Crancase heater			yes	yes	yes		
Drain pipe connector			yes	yes	yes		
ON/OFF connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Cool/Heat connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Alarm connector			yes (dry-contact)	yes (dry-contact)	yes (dry-contact)		
Additional pump connector			yes	yes	yes		
<b>STANDARD ACCESSORIES</b>							
Built-in controller			yes	yes	yes		
Hydraulic module			yes	yes	yes		
Manometer			yes	yes	yes		
<b>OPTIONAL ACCESSORIES</b>							
Wire controller			KJR-120F	KJR-120F	KJR-120F		

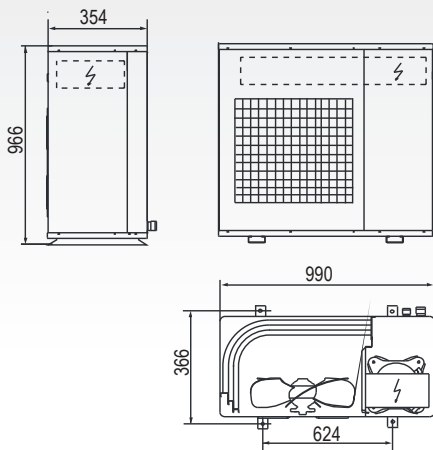
Nominal capacity is based on the following conditions:

1. Condenser air in 35 °C. Evaporator water in/out 12/7 °C
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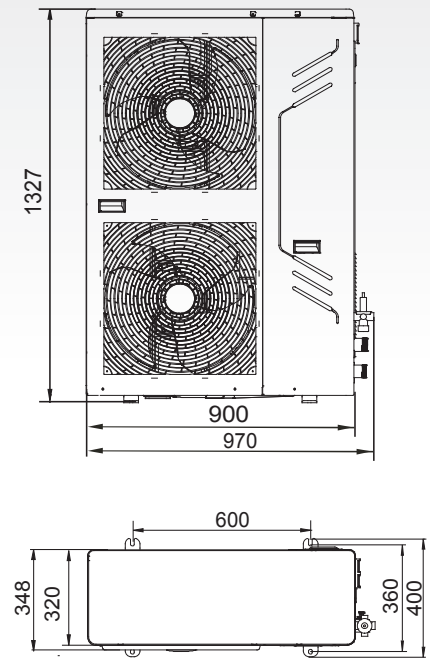
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APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

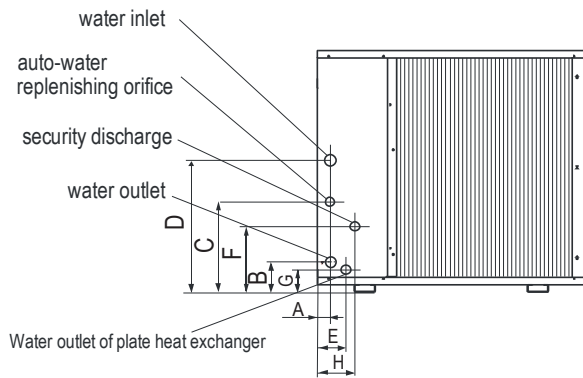
SCV-50/70EA



SCV-100/120/140/160EA

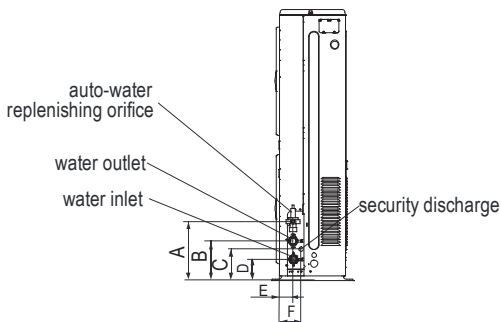


SCV-50/70EA



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Water inlet/outlet (Ø)	Auto-water replenishing (Ø)	Security discharge (Ø)
SCV-50EA SCV-70EA	70	106	230	362	108	161	76	119	R1	G1/2	G1/2

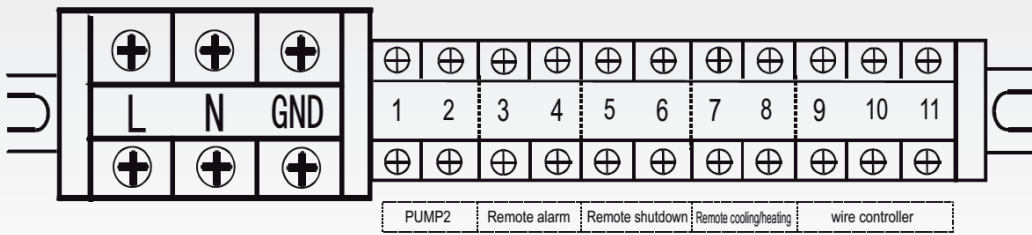
SCV-100/120/140/160EA



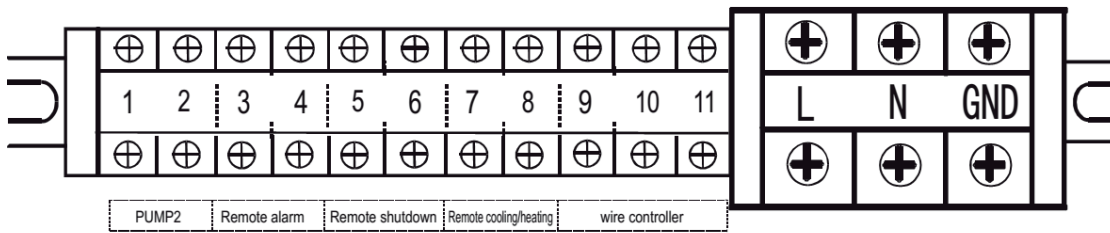
Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Water inlet/outlet (Ø)	Auto-water replenishing (Ø)	Security discharge (Ø)
SCV-100EA SCV-120EA SCV-140EA SCV-160EA	300	195	155	105	68	105	R5/4	G1/2	G1/2

ELECTRICAL WIRING

SCV-50/70EA



SCV-100EA



SCV-120/140/160EA

