



SOLAR COOL

Heating and Cooling

Just add sun

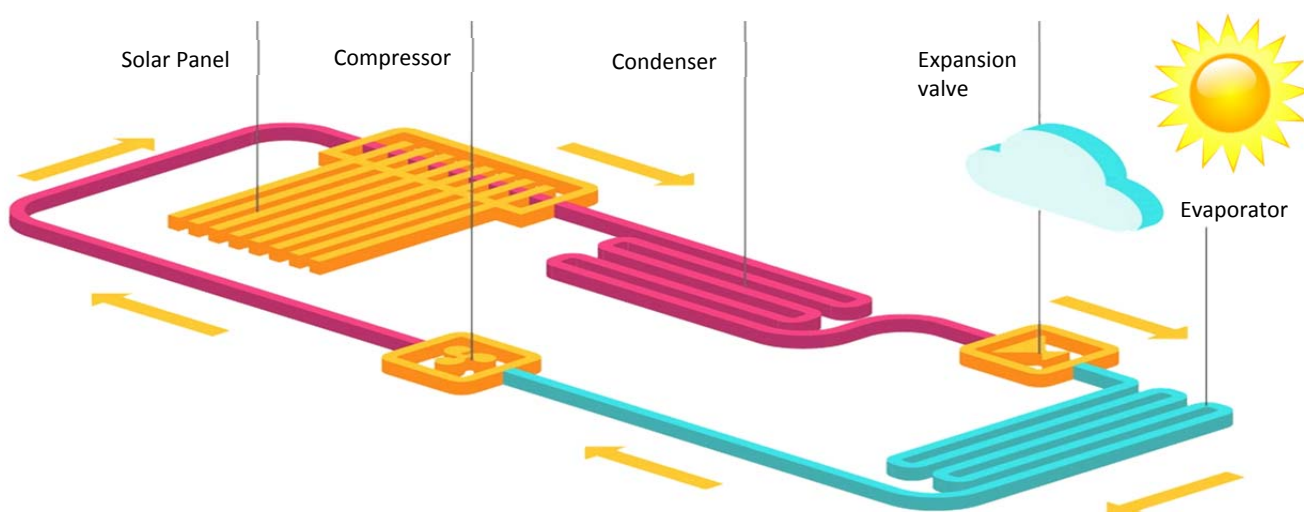
**The most energy efficient air conditioning
& refrigeration system on the planet**

How SolarCool™ saves up to 60% of your electricity

SolarCool™ relies on the well known compression cycle technology for cooling and comprises a high-efficient solar thermal panel with vacuum glass tubes into it. While in standard units the compressor has to do the full compression load, at SolarCool™ the solar panel takes over much of the compressor's load and thus frees a lot of energy. The secret behind SolarCool™ is the „Ideal Gas Law“, saying that gases heated up increase the mass flow and so the overall capacity of the heat pump - for heating and cooling. The more intense the sun shines, the better it works ! And more power is saved !

The remaining cooling circle stays the same: After compression the refrigerant is cooled down in the condenser, expanded in the expansion valve and then evaporated. By evaporating the refrigerant sucks out the heat from the environment and so „It Cools“.

SolarCool™ systems from SolarCool are available as heat pumps. The units may not only cool, but also heat with the help of the sun. This again saves power also when heating !



We use state-of-the-art technology like DC Inverter or multistage technology for our compressors. DC Inverter is a modern and efficient way to adjust the compressor's output to the real need for cooling or heating. Thus the compressors, which make up to 80% of the system's total energy consume less energy than the older On-Off units. SolarCool uses this technology in combination with our unique and patented solar panel to offer you the most energy efficient system on the planet.

Solar assisted air conditioners working this principle are exclusively manufactured by SolarCool. We invented the system and hold the patent on this system. You get these energy saving systems only from SolarCool. This ensures the best quality and reliability - for your comfort and benefit.

Who already uses SolarCool

Our systems are highly reliable and we look over many thousands of successful installations. They even stress less the compressors due physics than standard non-solar systems. Our clients proved us right with many succesful installations and many savings achieved. We only use certified components from well known and highly reputed sources delivering consistently the required quality. Some successful residential and commercial installations are shown below:



That much money will SolarCool save

Only one solar panel fits most applications. The more intense the sun shines, the better it works and you will save more energy and costs. The sun is taking over more and more the job from the compressor.

Units	Single and Multi Splits			Mini VRF	VRF	Chiller
	SWM 12	CMO 028	CMO 042	SLC-V140	SLC-400	SBL-F200
Cooling capacity	3,5 kW	8 kW	11,6 kW	14 kW	40 kW	200 kW
Number of indoor units	1	4	5	8	23	n.a.
Non-solar system - Power consumption	1,3 kW	2,5 kW	3,5 kW	4,0 kW	11,3 kW	64 kW
SolarCool™ system SolarCool - Power consumption ¹	0,5 kW	1,0 kW	1,4 kW	1,7 kW	5,5 kW	38 kW
Difference in Power consumption SolarCool to non-solar system	- 62 %	- 60%	- 60%	- 57%	- 51%	-36 %
Annual Cost saving SolarCool™ systems ²	€ 96	€ 180	€ 252	€ 1 380	€ 3 480	€ 21 100

¹ measured at SolarCool systems 2011-2013. For verification see www.sednaaireurope.com

² acc. to EU guideline CE 2002/31 for 500h cooling per year and 0,24 €/kWh, VRF- commercial systems at 2500 hours (8 hours - 6 days per week, chiller 12 hours 10 months)

Calculate your personal energy savings with our energy calculator at our website. The SolarCool™ systems will also work at lower sun radiation, e.g. during a cloudy day, since we use high-efficient vacuum tube collectors.

With SolarCool™ systems you own leading edge technology and will save a significant amount of money for many years. Over 10 years the purchase price makes up only 20%, electricity counts for 80% of all your costs. And best of all: They come at the same costs as comparable non-solar air conditioners - INCLUDING the panel !





Our models

We offer the full range for your application

<p>Single and Multi splits (2,6 - 16kW) One outdoor unit and up to 5 separate indoor units for conditioning multiple rooms</p>	<p>VRF and Mini VRF- (8 - 200 kW) One outdoor unit and up to 64 separate indoor units per module for conditioning multiple rooms</p>
	
<p>Chillers (8 - 2 000 kW) One outdoor for cooling or heating water</p>	<p>Refrigeration (20 - 60kW) Cooling food & beverages - Outdoor units and cabinets</p>
	

Single Split units



Outdoor/Indoor Unit - SWM		09	12	18	24	36	48	60
Cooling capacity (a)	kW	2,8	3,1	5,0	7,2	10,6	14,2	16,0
Heating capacity (a)	kW	2,6	3,2	4,9	8,0	11,8	14,8	18,4
Energy efficiency SEER (Cool)	W/W	7,5	7,7	8,3	8,7	8,1	8,4	8,3
Energy efficiency class (Cool)		A++	A++	A++	A+++	A+++	A+++	A+++
Power consumption min-max (Cool)	kW	0,1 - 0,8	0,1 - 0,9	0,1 - 1,4	0,2 - 2,1	0,2 - 2,9	0,3 - 3,8	0,4 - 4,8
Operating temperature range (Cool)	°C	-15/50	-15/50	-15/50	-15/50	-15/50	-15/50	-15/50
Energy efficiency SCOP (Heat)	W/W	5,5	5,3	5,2	5,0	5,0	5,0	5,0
Energy efficiency class (Heat)		A+++	A+++	A+++	A+++	A+++	A+++	A+++
Power consumption min-max (Heat)	kW	0,1 - 0,7	0,1 - 1,1	0,2 - 1,3	0,2 - 2,1	0,2 - 3,0	0,3 - 3,8	0,4 - 4,8
Operating temperature range (Heat)	°C	-15/30	-15/30	-15/30	-15/24	-15/24	-15/24	-15/24
Indoor unit: Wall mount								
Air flow indoor	m ³ /h	440 - 620	430 - 630	400 - 730	900 - 1150	 for size 36 - 60 not available		
Sound level indoor (b)	dB(A)	31 - 41	31 - 41	31 - 41	41 - 49			
Dimensions (WxDxH)	mm	800x188x275	800x188x275	940x205x275	1045x235x315			
Weight	Kg	7	7	9	12			
Indoor unit: Cassette								
Air flow indoor	m ³ /h	 for size 09 - 18 not available			1360 - 1780	1400 - 1850	1500 - 2010	1600 - 2200
Sound level indoor (b)	dB(A)				50	48	49	54
Dimensions (WxDxH)	mm				840x840x245	840x840x245	840x840x245	840x840x245
Weight	Kg				29	31	34	36
Indoor unit: Duct								
Air flow indoor	m ³ /h	 for size 09 - 18 not available			1250 - 1700	1650 - 2270	2000 - 3100	1990 - 3150
Static pressure air	Pa				70	80	100	100
Sound level indoor (b)	dB(A)				46	43	45	45
Dimensions (WxHxD)	mm				920x635x270	1200x865x300	1200x865x300	1200x865x300
Weight	Kg				28	44	44	50
Indoor unit: Floor standing								
Air flow indoor	m ³ /h	 for size 09 - 18 not available			1100 - 1400	1500 - 2200	1700 - 2300	1700 - 2300
Sound level indoor (b)	dB(A)				55	54	57	56
Dimensions (WxHxD)	mm				1068x675x235	1650x675x235	1650x675x235	1650x675x235
Weight	Kg				25	40	40	40
Outdoor unit:								
Power supply (V/Ph/Freq)		230/1/50	230/1/50	230/1/50	230/1/50	380/3/50	380/3/50	380/3/50
Breaker fuse (time-delay)	A	16A	16A	16A	16A	3 x 10A	3 x 16A	3 x 25A
Number of required solar panels	Pc	1	1	1	1	1	1	1
Outdoor unit dimensions (HxDxW)	mm	780x250x540	780x250x540	760x285x590	780x250x540	780x250x540	940x392x1365	940x392x1365
Outdoor unit weight	kg	30	30	35	59	77	102	107
Solar pannels needed (120x1610x1610 mm)		1	1	1	1	1	1	1
Refrigerant - type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Compressor		DC-Inv.	DC-Inv.	DC-Inv.	DC-Inv.	DC-Inv.	DC-Inv.	DC-Inv.
Diameter - Gas - Liquid line	inch	3/8" - 1/4"	3/8" - 1/4"	1/2" - 1/4"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"	5/8" - 3/8"
Diameter piping to solar panel (d)	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Max. pipe length/lift to panel (d)	m	18 - 8	18 - 8	18 - 8	18 - 8	18 - 8	18 - 8	18 - 8
Max. pipe length/lift to indoor (total)	m	15 - 7	20 - 8	25 - 15	50 - 25	65 - 30	65 - 30	65 - 30
Warranty	Years	2	2	2	2	2	2	2

All Single Split units (indoor and outdoor units) CE certified. According to EU-guideline 626/2011 these units are "local air conditioners"

(a) All figures given for SolarCool mode with solar panel following ISO 5151 and EU-guideline 626/2011. Actual energy consumption and number of required panels may vary and will depend on how the appliance is used and where it is located

(b) For details see technical specification (c) Sound level, measured at a distance of 1m under free field conditions

(d) To be optimized for your latitude

(e) At a piping diameter of at least 1/2", recommended ø15mm







At installation all national and local building and safety codes are to be complied to




Heat pump: cools AND heats in one model. A standard air conditioner is only able to cool

Multi Split Units



Outdoor unit - CMO		018B	028B	036B	042B
Cooling capacity (a)	kW	5,4	8,2	10,5	11,6
Heating capacity (a)	kW	6,2	8,8	12,0	13,5
Number of indoor units		1 - 2	2 - 4	2 - 4	2 - 5
Cooling capacity min - max (Cool)	kW	2,1 - 5,4	2,2 - 8,4	3,0 - 10,5	3,5 - 11,8
Seasonal Energy eff. SEER/class (cool)	W/W	7,8/A++	8,1/A++	7,1/A++	7,0/A++
Power consumption min-max (Cool)	kW	0,2 - 1,4	0,4 - 2,2	0,3 - 3,1	0,4 - 3,6
Heating capacity min - max (Heat)	kW	2,3 - 6,2	2,2 - 8,8	2,3 - 12	3,0 - 14
Seasonal Energy eff. SCOP/class (heat)	W/W	5,3/A+++	5,3/A+++	5,3/A+++	5,2/A+++
Power consumption min-max (Heat)	kW	0,2 - 1,6	0,4 - 2,3	0,4 - 2,9	0,5 - 3,4
Sound level outdoor	dB(A)	63	61	64	64
Power supply (Volt/Phases/Freq.)		230/1/50	230/1/50	230/1/50	230/1/50
Breaker fuse (time-delay)	A	16A	25A	32A	32A
Number of required solar panels	Pc	1	1	1	1
Operating temp.range (Cool)	°C	-15 / 50	-15 / 50	-15 / 50	-15 / 50
Operating temp.range (Heat)	°C	-15 / 24	-15 / 24	-15 / 24	-15 / 24
Outdoor unit dimensions (HxWxD)	Mm	845x700x320	900x860x315	990x965x345	990x965x345
Outdoor unit weight	kg	48	62	78	84
Refrigerant - type		R410A	R410A	R410A	R410A
Refrigerant - charge	Kg	1,9	2,4	2,7	3,5
Compressor		DC-Inverter	DC-Inverter	DC-Inverter	DC-Inverter
Max. pipe length - lift to solar panel	m	18 - 8	18 - 8	18 - 8	18 - 8
Max. pipe length - lift to indoor unit (total)	m	30 - 10	45 - 15	60 - 15	75 - 30
Warranty	Years	2	2	2	2

Indoor units							
Indoor units		CMI09	CMI12	CMI18	CMC12	CMC18	CMC24
Cooling capacity	kW	2,6	3,5	5,3	3,5	4,5	7,1
Heating capacity	kW	2,8	3,8	5,8	4,0	5,0	8,0
Type		Wall	Wall	Wall	Cass	Cass	Cass
Air flow indoor	m³/h	450	550	840	720	720	1 180
Sound Level (high-low)	dB(A)	41/31	43/31	43/31	46/40	46/40	46/40
Controller		IR - Remote	IR - Remote	IR - Remote	IR - Remote	IR - Remote	IR - Remote
Dimensions (WxDxH)	mm	800x188x275	800x188x275	960x195x300	570x570x230	570x570x230	840x840x240
Weight	kg	7	7	9	20	20	26
Warranty	Years	2	2	2	2	2	2

Indoor units							
Indoor units		CDI09	CDI12	CDI18			
Cooling capacity	kW	2,6	3,5	5,3			
Heating capacity	kW	2,8	3,8	5,8			
Type		Duct	Duct	Duct			
Air flow indoor	m³/h	600	680	1 000			
Sound Level	dB(A)	43	43	46			
Controller		Wired, IR optional	Wired, IR optional	Wired, IR optional			
Dimensions (WxDxH)	mm	700x635x210	700x635x210	920x635x210			
Weight	kg	10	11	13			
Warranty	Years	2	2	2			

(a) Same conditions as for single splits apply



Mini - VRF Units Outdoor

Outdoor unit - Mini-VRF - 1		SLC-V80W	SLC-V105W	SLC-V120W	SLC-V140W
Cooling capacity (a)	kW	7,2	9,0	12,3	14,0
Heating capacity (a)	kW	7,2	9,0	13,2	15,4
Number of indoor units		4	5	6	7
Seasonal Energy eff. SEER/class (cool)	W/W	7,1/A++	7,1/A++	7,2/A++	7,1/A+
Power consumption min-max (cool)	kW	0,2 - 1,9	0,2 - 2,4	0,3 - 3,2	0,4 - 3,6
Seasonal Energy eff. SCOP/class (heat)	W/W	5,1/A+++	5,0/A+++	4,9/A++	4,6/A+
Power consumption min-max (heat)	kW	0,2 - 2,3	0,2 - 2,8	0,3 - 4,4	0,4 - 5,3
Sound level outdoor	dB(A)	56	57	57	57
Power supply (Volt/Phases/Freq.)		220/50/1	220/50/1	380/50/3	380/50/3
Number of required solar panels	Pc	1	1	1	1
Operating temp. range (Cooling)	°C	-15 / 48	-15 / 48	-15 / 48	-15 / 48
Operating temp. range (Heating)	°C	-15 / 27	-15 / 27	-15 / 27	-15 / 27
Outdoor unit dimensions (WxHxD)	mm	990x966x336	990x966x336	900x1327x320	900x1327x320
Outdoor unit weight	kg	62	74	95	95
Refrigerant R410 - charge	Kg	2,8	3,0	3,3	3,9
Compressor		Rotary	Rotary	Rotary	Rotary
Max. pipe length - lift to solar panel	m	18 - 8	18 - 8	18 - 8	18 - 8
Total piping length	m	100	100	100	100
Max. pipe length -lift to indoor unit	m	30 - 8	30 - 8	30 - 8	30 - 8
Warranty	Years	2	2	2	2

Outdoor unit - Mini-VRF - 2		SLC-V160W	SLC-V200W	SLC-V224W	SLC-V260W
Cooling capacity (a)	kW	15,5	19,5	22,4	26,0
Heating capacity (a)	kW	17,0	23,0	24,5	28,5
Number of indoor units		8	10	11	12
Seasonal Energy eff. SEER/class (cool)	W/W	7,0/A++	6,9/A++	6,9/A++	6,8/A++
Power consumption min-max (cool)	kW	0,5 - 4,6	0,5 - 5,9	0,5 - 6,6	0,6 - 7,5
Seasonal Energy eff. SCOP/class (heat)	W/W	4,6/A++	4,6/A++	4,5/A+	4,5/A+
Power consumption min-max (heat)	kW	0,4 - 6,2	0,5 - 8,1	0,6 - 8,9	0,7 - 10,9
Sound level outdoor	dB(A)	57	59	59	59
Power supply (Volt/Phases/Freq.)		380/50/3	380/50/3	380/50/3	380/50/3
Number of required solar panels	Pc	1	1 - 2 (b)	1	1
Operating temp. range (Cooling)	°C	-15 / 48	-15 / 48	-15 / 48	-15 / 48
Operating temp. range (Heating)	°C	-15 / 27	-15 / 27	-15 / 27	-15 / 27
Outdoor unit dimensions (WxHxD)	mm	900x1327x320	1120x1560x415	1120x1560x415	1120x1560x415
Outdoor unit weight	kg	107	137	147	147
Refrigerant R410 - charge	Kg	3,9	4,8	6,2	6,2
Compressor		Rotary	Rotary	Rotary	Rotary
Max. pipe length - lift to solar panel	m	18 - 8	18 - 8	18 - 8	18 - 8
Total piping length	m	100	120	120	120
Max. pipe length -lift to indoor unit	m	30 - 8	30 - 8	30 - 8	30 - 8
Warranty	Years	2	2	2	2

All Mini-VRF units (Indoor and Outdoor) are CE certified. According to EU-guideline 626/2011 these units are "local air conditioners"

(a) Same conditions as for single splits apply



VRF Units Outdoor







May be combined to up to 4 modules for higher capacity







Outdoor unit -VRF		SLC-252(8)W	SLC-280(10)W	SLC-335(12)W	SLC-400(14)W	SLC-450(16)W
Cooling capacity (a)	kW	25,2	27,5	32	39	45
Heating capacity (a)	kW	27	31,5	37,5	45	50
Number of indoor units		13	16	20	23	26
Seasonal Energy eff. SEER/class (cool)	W/W	8,6/A+++	8,4/A+++	8,2/A+++	8,0/A++	7,9/A++
Power consumption min-max (cool)	kW	0,5 - 5,8	0,5 - 6,9	0,7 - 8,3	0,9 - 11,0	1 - 13,0
Seasonal Energy eff. SCOP/class (heat)	W/W	5,4/A+++	5,1/A++	5,1/A++	4,9/A++	4,7/A++
Power consumption min-max (heat)	kW	0,5 - 8,4	0,6 - 9,4	0,7 - 11,7	0,9 - 14,7	1 - 16,9
Sound level outdoor	dB(A)	57	57	59	61	61
Power supply (Volt/Phases/Freq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Number of required solar panels (b)	Pc	1 - 2	1 - 2	2 - 4	2 - 4	2 - 4
Operating temp. range (cool)	°C	-15 / 48	-15 / 48	-15 / 48	-15 / 48	-15 / 48
Operating temp. range (heat)	°C	-15 / 27	-15 / 27	-15 / 27	-15 / 27	-15 / 27
Outdoor unit dimensions (HxWxD)	mm	960x1615x765	960x1615x765	1250x1615x765	1250x1615x765	1250x1615x765
Outdoor unit weight	kg	198	198	288	288	288
Refrigerant R410 - charge	Kg	9	9	12	15	15
No and type of compressor		1 - Scroll	1 - Scroll	2 - Scroll	2 - Scroll	2 - Scroll
Max. pipe length - lift to solar panel	m	18 - 8	18 - 8	18 - 8	18 - 8	18 - 8
Total piping length	m	1 000	1 000	1 000	1 000	1 000
Max. pipe length -lift to indoor unit	m	110 - 30	110 - 30	110 - 30	110 - 30	110 - 30
Warranty	Years	2	2	2	2	2






(a) Same conditions as for single splits apply






(b) Number of required panels may be higher in countries and or times with low sun radiance. Actual energy consumption and number of required panels may vary and will depend on how the appliance is used and where it is located







VRF Units Indoor






VRF - Cassettes							
VRF indoor units		SLC-D36 Q4/N1-A3	SLC-D56 Q4/N1-D	SLC-D71 Q4/N1-D	SLC-D90 Q4/N1-D	SLC-D112 Q4/N1-D	SLC-D140 Q4/N1-D
Cooling capacity	kW	3,6	5,6	7,1	9,0	11,2	14,0
Heating capacity	kW	4,0	6,3	8,0	10,0	12,5	15,0
Air flow indoor	m ³ /h	540 - 780	660 - 865	750 - 1160	1120 - 1540	1120 - 1540	1280 - 1800
Indoor fan speeds		3	3	3	3	3	3
Sound Level (low-high)	dB(A)	35 - 42	35 - 42	39 - 45	43 - 48	43 - 48	44 - 50
Controller		Remote	Remote	Remote	Remote	Remote	Remote
EU grid		Yes	No	No	No	No	No
Dimensions (HxWxD)	mm	570x570x260	840x840x300	840x840x300	840x840x300	840x840x300	840x840x300
Weight	kg	24	32	32	38	38	38
Warranty	Years	2	2	2	2	2	2






VRF - Concealed duct A5 (Offices)							
VRF indoor units		SLC-D36 T2/N1-DA5	SLC-D56 T2/N1-BA5	SLC-D71 T2/N1-CA5	SLC-D90 T2/N1-BA5	SLC-D112 T2/N1-BA5	SLC-D140 T2/N1-BA5
Cooling capacity	kW	3,6	5,6	7,1	9,0	11,2	14,0
Heating capacity	kW	4,0	6,3	8,0	10,0	12,5	15,5
Air flow indoor	m ³ /h	320 - 570	560 - 960	820 - 1210	860 - 1400	1400 - 1750	1250 - 1800
Indoor fan speeds		4	4	4	4	4	4
Static pressure norm (Lo-Hi)	Pa	10 (10-30)	10 (10-30)	10 (10-30)	20 (10-50)	40 (10-80)	40 (10-100)
Sound Level (low-high)	dB(A)	36 - 39	36 - 41	35 - 42	37 - 45	38 - 48	39 - 48
Controller		Wired	Wired	Wired	Wired	Wired	Wired
Dimensions (HxWxD)	mm	790x635x210	1010x635x210	1010x635x210	1230x775x270	1230x775x270	1290x865x300
Weight	kg	18	27	32	40	40	49
Warranty	Years	2	2	2	2	2	2






VRF - High static duct (1) (Halls, restaurants)						
VRF indoor units		SLC-D71 T1/N1-B5	SLC-D90 T1/N1-B5	SLC-D112 T1/N1-B5	SLC-D140 T1/N1-B5	SLC-D200 T1/N1-B5
Cooling capacity	kW	7,1	9,0	11,2	14,0	20,0
Heating capacity	kW	8,0	10,0	12,5	16,0	22,5
Air flow indoor	m ³ /h	1240 - 1510	1510 - 1940	1650 - 2120	2230 - 3000	3600 - 4660
Indoor fan speeds		3	3	3	3	3
Static pressure norm (Lo-Hi)	Pa	40(30-200)	40(30-200)	50(30-200)	50(30-200)	140(50-250)
Sound Level (low-high)	dB(A)	44 - 48	47 - 52	47 - 52	48 - 53	52 - 59
Controller		Wired	Wired	Wired	Wired	Wired
Dimensions (HxWxD)	mm	952x690x420	952x690x420	952x690x420	1200x600x400	1443x810x470
Weight	kg	45	47	51	68	115
Warranty	Years	2	2	2	2	2

VRF - High static duct (2) (Halls, restaurants)						
VRF indoor units		SLC-D250 T1/N1-B5	SLC-D280 T1/N1-B5	SLC-D400 T1/N1	SLC-D450 T1/N1	SLC-D560 T1/N1
Cooling capacity	kW	25	28	40	45	56
Heating capacity	kW	26	31,5	45	50	63
Air flow indoor	m ³ /h	3600 - 4670	3600 - 4670	5000 - 7500	5000 - 7500	6550 - 9500
Indoor fan speeds		3	3	3	3	3
Static pressure norm (Lo-Hi)	Pa	140(50-250)	140(50-250)	200(50-250)	200(50-250)	200(50-250)
Sound Level (low-high)	dB(A)	52 - 59	52 - 59	56 - 61	56 - 61	57 - 63
Controller		Wired	Wired	Wired	Wired	Wired
Dimensions (HxWxD)	mm	1443x810x470	1443x810x470	1970x859x668	1970x859x668	1970x859x668
Weight	kg	115	115	232	232	232
Warranty	Years	2	2	2	2	2

VRF - Convertible floor/ceiling (restaurants)							
VRF indoor units		SLC-D36 DL/N1-C	SLC-D56 DL/N1-C	SLC-D71 DL/N1-C	SLC-D90 DL/N1-C	SLC-D112 DL/N1-C	SLC-D140 DL/N1-C
Cooling capacity	kW	3,6	5,6	7,1	9,0	11,2	14,0
Heating capacity	kW	4,0	6,3	8,0	10,0	12,5	15,5
Air flow indoor	m³/h	500 - 650	500 - 800	500 - 800	700 - 1200	1730 - 1980	1730 - 1980
Indoor fan speeds		3	3	3	3	3	3
Sound Level (low-high)	dB(A)	36 - 40	38 - 43	38 - 43	40 - 45	42 - 47	42 - 47
Controller		Remote	Remote	Remote	Remote	Remote	Remote
Dimensions (HxWxD)	mm	990x660x206	990x660x206	990x660x206	1280x660x206	1670x680x244	1670x680x244
Weight	kg	26	25	28	34	54	54
Warranty	Years	2	2	2	2	2	2

VRF - Concealed floor standing (rooms, hotel)						
VRF indoor units		SLC-D28 Z/N1-F3	SLC-D36 Z/N1-F3	SLC-D56 Z/N1-F3	SLC-D71 Z/N1-F3	SLC-D80 Z/N1-F3
Cooling capacity	kW	2,8	3,6	5,6	7,1	8,0
Heating capacity	kW	3,2	4,0	6,3	8,0	9,0
Air flow indoor	m³/h	420 - 570	380 - 620	830 - 1150	870 - 1380	1020 - 1330
Indoor fan speeds		3	3	3	3	3
Sound Level (low-high)	dB(A)	29 - 36	30 - 37	31 - 41	33 - 44	33 - 44
Controller		Remote	Remote	Remote	Remote	Remote
Dimensions (HxWxD)	mm	1000x625x220	1200x625x220	1500x625x220	1500x625x220	1500x625x220
Weight	kg	30	37	44	44	44
Warranty	Years	2	2	2	2	2

VRF - Wall mounted (rooms, hotel)						
VRF indoor units		SLC-D28 G/N1-S	SLC-D36 G/N1-S	SLC-D56 G/N1-S	SLC-D71 G-R3/N1	SLC-D90 G-R3/N1
Cooling capacity	kW	2,8	3,6	5,6	7,1	9,0
Heating capacity	kW	3,2	4,0	6,3	8,0	10,0
Air flow indoor	m³/h	430 - 525	480 - 590	755 - 925	680 - 1190	640 - 1320
Indoor fan speeds		3	3	3	3	3
Sound Level (low-high)	dB(A)	29 - 35	29 - 35	34 - 40	39 - 45	41 - 47
Controller		Remote	Remote	Remote	Remote	Remote
Dimensions (HxWxD)	mm	915x290x230	915x290x230	1072x315x230	1250x325x230	1250x325x245
Weight	kg	13	13	15	20	20
Warranty	Years	2	2	2	2	2

VRF - Fresh Air indoor units						
VRF indoor units		SLC-D125 T1/N1-FA	SLC-D140 T1/N1-FA	SLC-D200 T1/N1-FA	SLC-D250 T1/N1-FA	SLC-D280 T1/N1-FA
Cooling capacity	kW	12,5	14	20	25	28
Heating capacity	kW	10,5	12	18	20	22
Air flow indoor	m³/h	1 050 - 1 700	1 050 - 1 700	2 300 - 3 150	2 500 - 3 300	2 500 - 3 300
Indoor fan speeds		3	3	3	3	3
Sound Level (low-high)	dB(A)	50 - 54	50 - 54	51 - 54	52 - 54	52 - 54
Controller		Wired	Wired	Wired	Wired	Wired
Dimensions (HxWxD)	mm	420x1368x691	420x1368x691	470x1443x810	470x1443x810	470x1443x810
Weight	kg	70	70	115	115	115
Warranty	Years	2	2	2	2	2



Chillers - DC Inverter






Outdoor unit		SGC-V7W	SGC-V10W	SGC-V12W	SGC-V14W	SGC-V16W
Cooling capacity (a)	kW	7	10	12	14	16
Heating capacity (a)	kW	8	11	12,3	13,8	16
Number of outdoor units to be combined		-	-	-	-	-
Energy efficiency EER/class (cooling)	W/W	4,4/A+++	4,5/A+++	4,4/A+++	4,2/A+++	4,2/A+++
Power consumption min-max (cool) w. panel	W/W	0,3 - 1,7	0,6 - 2,3	0,6 - 2,7	0,6 - 3,3	0,7 - 3,7
Energy efficiency COP/class (heating)	kW	4,3/A+++	4,71/A+++	4,4/A+++	4,3/A+++	4,3/A+++
Power consumption min-max (heat) w. panel	kW	0,4 - 1,8	0,6 - 2,6	0,6 - 3,0	0,6 - 3,6	0,7 - 4,0
Sound level outdoor	dB(A)	58	59	59	60	60
Power supply (Volt/Phases/Freq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Number of required solar panels	Pc	1	1	1	1 - 2	1 - 2
Operating temp. range (cool)	°C	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46
Operating temp. range (heat)	°C	-15 / 27	-15 / 27	-15 / 27	-15 / 27	-15 / 27
Outdoor unit dimensions (HxWxD)	mm	990x966x354	970x1327x400	970x1327x400	970x1327x400	970x1327x400
Outdoor unit weight	kg	81	110	110	111	111
Compressor		1 - Scroll	1 - Scroll	1 - Scroll	1 - Scroll	1 - Scroll
Max. pipe length - lift to solar panel	m	18 - 8	18 - 8	18 - 8	18 - 8	18 - 8
Hydraulic module		With all	With all	With all	With all	With all
Heat exchanger		Plate	Plate	Plate	Plate	Plate
Water pump		WILO RS 15/6	WILO RS 25/8,5	WILO RS 25/8,5	WILO RS 25/8,5	WILO RS 25/8,5
Supplied water temperature - cooling	°C	4 - 20	4 - 20	4 - 20	4 - 20	4 - 20
Supplied water temperature - heating	°C	30 - 55	30 - 55	30 - 55	30 - 55	30 - 55
Warranty	Years	2	2	2	2	2







Chillers - Multistage

Outdoor unit		SBL-F30/W	SBL-F65/W	SBL-F130/W	SBL-F200/W	SBL-F250/W
Cooling capacity (a)	kW	30	65	130	200	250
Heating capacity (a)	kW	32	69	138	200	270
Number of outdoor units to be combined		16	16	8	5	8
Energy efficiency EER/class (cooling)	W/W	4,2/A+++	4,5/A+++	4,5/A+++	4,3/A+++	4,5/A+++
Power consumption min-max (cool) w. panel	W/W	2,1 - 7,1	2,8 - 14,6	7,6 - 29,1	8,1 - 48,6	8,1 - 55,9
Energy efficiency COP/class (heating)	kW	4,6/A+++	4,5/A+++	4,5/A+++	4,6/A+++	4,6/A+++
Power consumption min-max (heat) w. panel	kW	2,1 - 7,0	2,1 - 14,5	7,6 - 30,7	7,5 - 43,6	7,6 - 57,1
Sound level outdoor	dB(A)	65	67	70	74	74
Power supply (Volt/Phases/Freq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Number of required solar panels (c)	Pc	2 - 4	4 - 6	8 - 12	12 - 18	16 - 20
Operating temp. range (cool)	°C	-10 / 46	-10 / 46	-10 / 46	-10 / 46	-10 / 46
Operating temp. range (heat)	°C	-10 / 21	-10 / 21	-10 / 21	-10 / 21	-10 / 21
Outdoor unit dimensions (HxWxD)	mm	1514x1865x 841	2000x1880x 900	2000x2080x 1685	2850x2110x 2000	3800x2130x 2000
Outdoor unit weight	kg	400	680	1270	2000	2600
Compressor		2 - Scroll	3 - Scroll	4 - Scroll	6 - Scroll	8 - Scroll
Max. pipe length - lift to solar panel	m	36-18	36-18	36-18	36-18	36-18
Hydraulic module		Optional	Optional	Optional	Optional	Optional
Heat exchanger		Double pipes	Shell&tube	Shell&tube	Shell&tube	Shell&tube
Water pump		No	No	No	No	No
Supplied water temperature - cooling	°C	0 - 17	0 - 17	0 - 17	0 - 17	0 - 17
Supplied water temperature - heating	°C	22 - 50	22 - 50	22 - 50	22 - 50	22 - 50
Warranty	Years	2	2	2	2	2

- (a) Capacity figures for cool water given for return/supply temperatures of 12/7 °C and at 35 °C ambient temperature
 (b) Capacity figures for heated water given for return/supply temperatures of 40/45 °C and ambient temperature of 7 °C DB / °6WB
 (c) Number of panels may vary depending on your actual location

Decentral Controllers for indoor units - VRF						
VRF indoor units		R 05	KJR 10/12B	Card Interface	KJR 29B	KJR 90A
Controller type		Decentral	Decentral	Accessory to KJR 10/12B	Decentral	Decentral
Supplied units		1 indoor unit	1 indoor unit	1 KJR 10/12B	1 indoor unit	1 indoor unit
Signal Transmission		Infrared	Wired	Wired, to KJR 10/12B	Wired & remote interface	Wired & remote interface
Time scheduler		Yes	Yes	n.a.	Yes	Yes
Power supply		220V/50/1p	220V/50/1p	220V/50/1p	220V/50/1p	220V/50/1p
Warranty	Years	2	2	2	2	2

Central Controllers for VRF and Chillers					
VRF indoor units		CCM 03	CCM 09	CCM 30 Touch key	KJRM 120B
Application		VRF	VRF	VRF	Chiller - SGC/SBL
Controller type		Central	Central	Central	Central
Supplied units		64	64	64	1 - 16
Signal Transmission		3	3	3	3
Time scheduler		Yes	Yes	Yes	Yes
Week scheduler		No	Yes	No	No
Power supply		220V/50/1p	220V/50/1p	220V/50/1p	220V/50/1p
Warranty	Years	2	2	2	2

Accessories - For all our aircon units

Installation Kits for Split Outdoor Units

For installing the outdoor units:
Wall mounting, inclined roof, ground

Installation Kits for Panels

For installing the solar panel:
Wall mounting, inclined roof, ground



Cabinets e-volve® for our fridges

Unit, cabinet		1200	2400	3600	1200-i	2400-i
Length	mm	1200	2400	3600	1200	2400
Modular, may be combined		Yes	Yes	Yes	No	No
Height	mm	2050 / 2250	2050 / 2250	2050 / 2250	2050	2050
Power supply (Volt/Phases/Freq.)		220/50/1	220/50/1	220/50/1	220/50/1	220/50/1
Warranty	Years	5	5	5	5	5

Fridge split - HT 2 - 7°C



Unit, condenser separate		FW2-60M	FW2-76M	FW2-90M	FW3-90M	FW3-114M	FW3-135M	FW4-120M	FW4-152M	FW4-180M
Cooling capacity (a)	kW	20	26	30	30	36	46	40	51	61
Capacity in hp		8	10	12	12	14	18	16	20	24
Max current (MRA)	A	20,6	25,6	26,2	30,9	38,4	39,3	41,2	51,2	52,4
Power supply (V/Ph/Frq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Liquid reservoir	L	18	18	18	35	35	35	35	35	35
Outdoor unit dimensions (HxDxW)	mm	1000x450x1400	1000x450x1400	1000x450x1400	1800x450x1400	1000x450x1400	1800x450x1400	1800x450x1400	1800x450x1400	1800x450x1400
Outdoor unit weight	kg	250	250	250	375	375	375	450	450	450
Compressor (Scroll)		2	2	2	3	3	3	4	4	4
Sound level outdoor @10 m	dB(A)	37	37	37	40	40	40	43	43	43
Diameter - Gas	Inch	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
Diameter - liquid	Inch	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Warranty	Years	3	3	3	3	3	3	3	3	3



Fridge split - LT - 26°C

Unit, condenser separate		FW2-26L	FW2-30L	FW2-36L	FW3-39L	FW3-45L	FW3-54L	FW4-52L	FW4-60L	FW4-72L
Cooling capacity (a)	kW	20	26	30	30	38	46	40	51	61
Capacity in hp		8	10	12	12	15	18	16	20	24
Max current (MRA)	A	16	20	24	24	30	36	32	40	48
Power supply (V/Ph/Frq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Liquid reservoir	L	18	18	18	35	35	35	35	35	35
Outdoor unit dimensions (HxDxW)	mm	1000x450x1400	1000x450x1400	1000x450x1400	1800x450x1400	1000x450x1400	1800x450x1400	1800x450x1400	1800x450x1400	1800x450x1400
Outdoor unit weight	kg	250	250	250	375	375	375	450	450	450
Compressor (Scroll)		2	2	2	3	3	3	4	4	4
Sound level outdoor @10 m	dB(A)	37	37	37	40	40	40	43	43	43
Diameter - Gas	inch	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"
Diameter - liquid	inch	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Warranty	Years	3	3	3	3	3	3	3	3	3



Fridge incl. condenser HT 2 - 7°C

Unit, condenser integrated		SP2-42M	SP2-60M	SP2-90M	SP3-114M	SP3-135M	SP4-152M	SP4-180M
Cooling capacity (a)	kW	16	20	30	36	46	51	61
Capacity in hp		6	8	12	14	18	20	24
Max current (MRA)	A	14,4	20,6	26,2	38,4	39,3	51,2	52,4
Power supply (V/Ph/Frq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Liquid reservoir	L	18	18	18	35	35	35	35
Outdoor unit dimensions (HxDxW)	mm	1390x610x1595	1390x610x1595	1390x610x1595	2142x810x1635	2142x810x1635	2142x810x1635	2142x810x1635
Outdoor unit weight	kg	315	315	315	372	372	550	550
Compressor (Scroll)		2	2	2	3	3	4	4
Sound level outdoor @10 m	dB(A)	37	37	37	40	40	43	43
Diameter - Gas	inch	1 "	1 1/8"	1 3/8"	1 3/8"	1 5/8"	2 1/8"	2 5/8"
Diameter - liquid	inch	3/4"	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"
Warranty	Years	3	3	3	3	3	3	3



Fridge incl. condenser LT - 26°C

Unit, condenser integrated		SP2-26L	SP2-30L	SP2-36L	SP3-45L	SP3-54L	SP4-60L	SP4-72L
Cooling capacity (a)	kW	16	20	30	36	46	51	61
Capacity in hp		6	8	12	14	18	20	24
Max current (MRA)	A	14,4	20,6	26,2	38,4	39,3	51,2	52,4
Power supply (V/Ph/Frq.)		380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3	380/50/3
Liquid reservoir	L	18	18	18	35	35	35	35
Outdoor unit dimensions (HxDxW)	mm	1390x610x1595	1390x610x1595	1390x610x1595	2142x810x1635	2142x810x1635	2142x810x1635	2142x810x1635
Outdoor unit weight	kg	315	315	315	372	372	550	550
Compressor (Scroll)		2	2	2	3	3	4	4
Sound level outdoor @10 m	dB(A)	37	37	37	40	40	43	43
Diameter - Gas	inch	1 "	1 1/8"	1 3/8"	1 3/8"	1 5/8"	2 1/8"	2 5/8"
Diameter - liquid	inch	3/4"	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"
Warranty	Years	3	3	3	3	3	3	3

All European certifications passed: CE EMC ROHS

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