# 3D I-see Sensor for S & P SERIES

## Detects number of people

## Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save airconditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

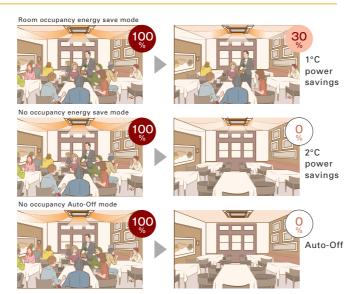
#### No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

# No occupancy Auto-OFF mode\*

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

\*When MA Remote Controller is used to control multiple refrigerant systems, "No occupancy Auto-OFF mode" cannot be used.



\*PAR-41MAA is required for each setting

# Detects people's position

### Direct/Indirect settings\*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



\*PAR-41MAA or PAR-SL101A-E is required for each setting.

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## Seasonal airflow\*

#### <When cooling>

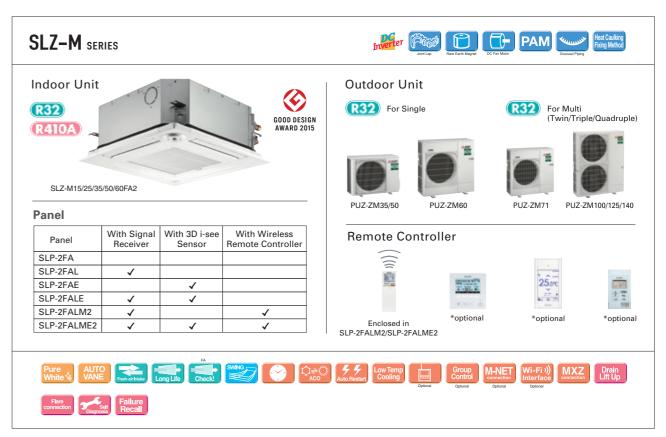
Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

#### <When heating>

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



\*PAR-41MAA is required for each setting.



Indoor Unit Combination									or Unit Cap								
		For Single								For Twin			For Triple			For Quadruple	
		35	50	60	71	100	125	140	71	100	125	100	125	140	125	140	
Power Inverter (PUZ-ZM)		35×1	50×1	60×1	-	-	-	-	35×2	50×2	60×2	35×3	50×3	50×3	35×4	35×4	
	Distribution Pipe	-	-	-	-	-	-	-	М	SDD-50TR2	2-E	N	1SDT-111R3	3-E	MSDF-1	111R2-E	

Туре					Inverter Heat Pump	
ndoor Unit				SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
utdoor U	nit			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2
frigerant	(*1)				R32	
wer	Source				Outdoor power supply	
pply	Outdoor(V/Phase/Hz)				230/Single/50	
teritor Unit effigerant of the following terms of the following learning l	Capacity	Rated	kW	3.6	5.0	6.1
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5
	Total Input Rated kW			0.800	1.315	1.648
	EER			4.50	3.80	3.70
	Design load		kW	3.6	5.0	6.1
	Annual electricity consumption(*2) kWh/a			194	280	346
	SEER(*4)	-		6.5	6.2	6.1
		Energy efficiency class		A++	SLZ-M50FA2 PUZ-ZM50VKA2 R32 Outdoor power supply 230/Single/50  5.0 2.3-5.6 1.315 3.80 5.0 280 6.2 A++ 5.0 280 6.2 A++ 5.0 3.8(-10°C) 3.8(-10°C) 3.8(-10°C) 3.7(-11°C) 0.0 1273 4.1 A+ 13.3 0.03/0.03 0.32 245-570-570-10-625-625> 245-5 15<-3> 7.0-9.0-11.5 27-34-39 56 630-809-300 46 45 45 44 46 665 13 16 6.35/12.7 50 30 -15 ~ +46	A++
ting	Capacity	Rated	kW	4.1		6.4
-		Min-Max	kW	1.6 - 5.0	2.5 - 5.5	2.8 - 7.3
perating Cudoor Unit objective of the control of th	Total Input	Rated	kW	1.205		2.064
	COP	•		3.40	3.40	3.10
	Design load		kW	2.4	5FA2 SLZ-M50FA2   SLZ-M50VKA2   PUZ-ZM50VKA2   R32   Outdoor power supply   230/Single/50   S.0   S.0	4.4
Departing Cudoor Unit United Cudoor Unit United Cudoor Unite	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)		4.4 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)		4.4 (-10°C)
		at operation limit temperature		2.2 (-11°C)		2.8 (-20°C)
	Back up heating capacity		kW	0.0		0.0
	Annual electricity consumption(*2) kWh/a			820		1560
	SCOP(*4)		1	4.0		3.9
		Energy efficiency class		A+	A+	A
erating	Current(Max)	, , , , , , , , , , , , , , , , , , , ,	IA	13.2	13.3	19.4
	Input [cooling / Heating ]	Rated	kW	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
	Operating Current(Max)		A	0.24	0.32	0.43
	Dimensions	H*W*D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	Weight	•	kg	15 <3>	15 <3>	15 <3>
eating Caperating Currer Meigh Air Vc Sound Coperating Currer Weigh Air Vc Sound Coperating Copera	Air Volume (Lo-Mi2-Mi1-Hi	)	m³/min	6.5-8.0-9.5	7.0-9.0-11.5	7.5-11.5-13.0
	Sound Level (Lo-Mi2-Mi1-H	li) (SPL)	dB(A)	25-30-34		32-40-43
	Sound Level (PWL)		dB(A)	51		60
	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)
it	Weight		kg	46		67
	Air Volume	Cooling	m³/min	45		55
		Heating	m³/min	45		55
	Sound Level (SPL)	Cooling	dB(A)	44		47
		Heating	dB(A)	46		49
	Sound Level (PWL)	Cooling	dB(A)	65		67
	Operating Current(Max)					19
	Breaker Size A			16		25
.Piping		Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55
	Max.Height	Out-In	m	30	30	30
Jarantee	d Operating Range (Outdoo	r) Cooling <sup>(*3)</sup>	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 +21	-20 ~ +21

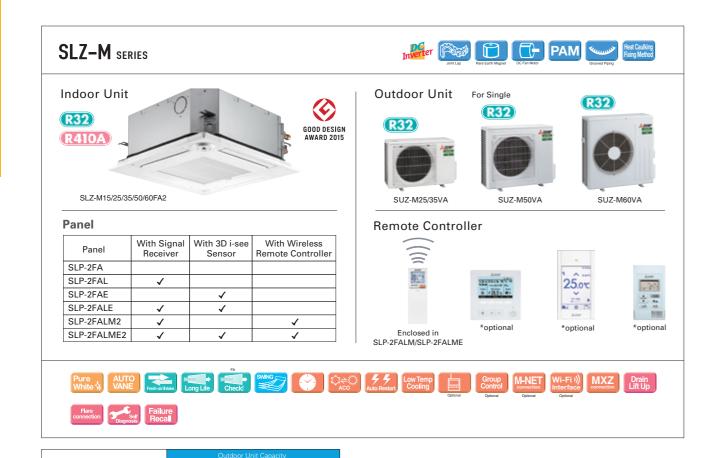
<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

\*2 Energy consumption based on standard test results. Actual energy consumption based on standard test results are the standard test results and the standard test results are the standard test results and the standard test results are the standard test results are the standard test results.

\*3 Optional air protection guide is required where ambient temperature is lower than -5°C.

\*4 SEER and SCOP are based on 2009/125/EC:Energy-related Protoucts Directive and Regulation(EU) No206/2012.

\*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.



			25	35	50	60	71			
S Seires		25×1	35×1	50×1	60×1	-				
		Distribution Pipe	-	-	-	-	-			
									Inverter H	eat Pump
Unit						S	LZ-M25FA2	SLZ-	M35FA2	S
r Unit						S	UZ-M25VA	SUZ	-M35VA	S
rant	(*1)							·	R3	12
	Source								Outdoor por	wer supply
	Outdoor(V/	Phase/Hz)							230/Sin	gle/50
3	Capacity	Rate	d	kW			2.5		3.5	
		Min	Max	kW			1.4 - 3.2	0.	7 - 3.9	
	Total Inpu	ut Rate	d		kW		0.657	1	.093	
	EER						3.80		3.20	
	Design lo				kW		2.5		3.5	
		lectricity consumption	*2)		kWh/a		139		183	
	SEER(*4)						6.3		6.7	
			rgy efficiency	/ class			A++		A++	
g	Capacity	Rate			kW		3.2		4.0	
		Min	Max		kW		1.3 - 4.2	1.0	0 - 5.0	

For Single

Refrigerar	nt(*1)				R	32	
Power	Source				Outdoor po	wer supply	
Supply	Outdoor(V/Phase/Hz)				230/Sir	ngle/50	
Cooling	Capacity		kW	2.5	3.5	4.6	5.7
		Min-Max	kW	1.4 - 3.2	0.7 - 3.9	1.0 - 5.2	1.5 - 6.3
	Total Input	Rated	kW	0.657	1.093	1.352	1.676
	EER	•		3.80	3.20	3.40	3.40
	Design load		kW	2.5	3.5	4.6	5.7
	Annual electricity consump	ption(*2)	kWh/a	139	183	253	321
	SEER(*4)			6.3	6.7	6.3	6.2
		Energy efficiency class		A++	A++	A++	A++
Heating	Capacity	Rated	kW	3.2	4.0	5.0	6.4
_		Min-Max	kW	1.3 - 4.2	1.0 - 5.0	1.3 - 5.5	1.6 - 7.3
	Total Input	Rated	kW	0.886	1.078	1.562	2.133
	COP	•		3.61	Outdoor power supply           230/Single/50           5         3.5         4.6           3.2         0.7-3.9         1.0-5.2           57         1.003         1.352           30         3.20         3.40           5         3.5         4.6           9         183         253           3         6.7         6.3           +         A++         A++           2         4.0         5.0           4.2         1.0-5.0         1.3-5.5           36         1.078         1.562           11         3.71         3.20           2         2.6         3.6           0°C)         2.3 (-10°C)         3.2 (-10°C)           2.2         2.6         3.6           0°C)         2.3 (-10°C)         3.2 (-10°C)           2.2         0.3         0.4           6         845         1192	3.00	
	Design load		kW	2.2	2.6	Outdoor power supply 230/Single/50  4.6  1.0 - 5.2  1.352  3.40  4.6  253  6.3  A++  5.0  1.3 - 5.5  1.562  3.20  3.6  3.2 (-10°C)  3.2 (-10°C)  3.2 (-10°C)  0.4  1192  4.2  A+  13.8  0.03 / 0.03  0.32  5625> 245-570-570 <10-625-625> 15 <3> 7.0-9.0-11.5  27-34-39  56  714-800-285  41  45.8  43.7  48  49  64  13.5  20  6.35 / 12.7  30  30  30	4.6
	Declared Capacity	at reference design temperature	kW	V   2.5   3.5   4.6	4.1 (-10°C)		
			kW	2.0 (-7°C)	230/Single/50   4.6	4.1 (-7°C)	
			kW	2.0 (-10°C)		4.1 (-10°C)	
	Back up heating capacity kW			0.2			0.5
	Annual electricity consumption(*2) kWh/a			716	845	1192	1560
	SCOP(*4)			4.3	4.3	4.2	4.1
		Energy efficiency class		A+	A+		A+
Operating	Current(Max)	,	А	7.0	8.7	13.8	15.2
Indoor	Input [cooling / Heating ]	Rated	kW	0.02 / 0.02	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
Unit	Operating Current(Max)	•	А	0.20	0.24	0.32	0.43
	Dimensions	H*W*D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	Weight		kg				15 <3>
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min				7.5-11.5-13.0
	Sound Level (Lo-Mi2-Mi1-Hi)		dB(A)				32-40-43
	Sound Level (PWL)		dB(A)				60
Outdoor	Dimensions		mm			714-800-285	880-840-330
Unit	Weight		kg		35		54
	Air Volume		m³/min	36.3	34.3	45.8	50.1
			m³/min	34.6	32.7	43.7	50.1
	Sound Level (SPL)		dB(A)	45	48	48	49
		Heating	dB(A)	46	48	49	51
	Sound Level (PWL)	Cooling	dB(A)				65
	Operating Current(Max)		А		8.5	13.5	14.8
	Breaker Size		А	10	10	20	20
Ext.Piping	Diameter(*5)		mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88
	Max.Length	Out-In	m	20	20	30	30
	Max.Height	Out-In	m	12	12	30	30
Guarante	ed Operating Range (Outdoor)	Cooling(*3)	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
		Dr. e	00				

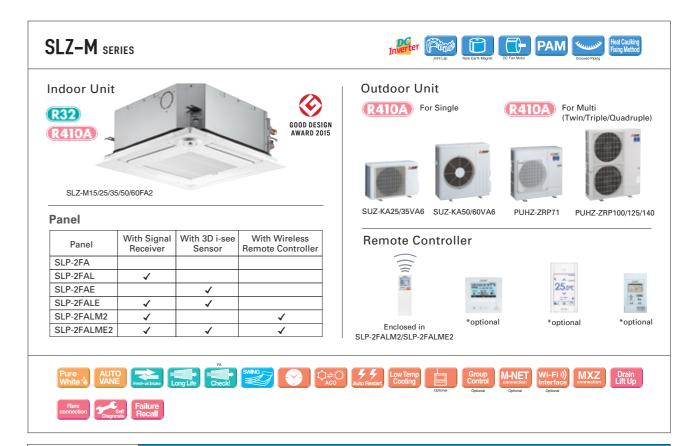
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\*2 Energy consumption based on standard test results. Actual energy consumption wow the appliance is used and where it is located.

\*3 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

\*4 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

Indoor Unit Combination



									Outdoor U	nit Capacity							
Indoor Unit Combination  Power Inverter (PUZ-ZM)  Distribution Pine					For S	Single			For Twin			For Triple			For Quadruple		
		25	35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power Inverte	er (PUZ-ZM)	25×1	35×1	50×1	60×1	-	-	-	-	35×2	50×2	60×2	35×3	50×3	50×3	35×4	35×4
	Distribution Pipe	-	-	-	-	-	-	-	-	M	SDD-50TR	-E	M	SDT-111R-E		MSDF-	1111R-E
e						Inverter Heat Pump											
	Power Inverte	Power Inverter (PUZ-ZM)  Distribution Pipe	Power Inverter (PUZ-ZM) 25x1 Distribution Pipe -	25   35     35     25   1   35   1     25   1   35   1     25   1   31     25   1     25   1     25   1     25     25   1     25	25   35   50	25   35   50   60	25   35   50   60   71	25   35   50   60   71   100	Indoor Unit Combination	Indoor Unit Combination	Power Inverter (PUZ-ZM)   25x1   35x1   50x1   60x1   -   -   -   35x2	25   35   50   60   71   100   125   140   71   100	For Single	Indoor Unit Combination	Indoor Unit Combination	Indoor Unit Combination	Indoor Unit Combination

Туре					Inverter H	leat Pump	
Indoor Unit				SLZ-M25FA2	SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor Unit				SUZ-KA25VA6	SUZ-KA35VA6	SUZ-KA50VA6	SUZ-KA60VA6
Refrigerant(*1)					R4	10A	
	urce					ower supply	
Supply Ou	rtdoor(V/Phase/Hz)				230/Sir		
Cooling	Capacity	Rated	kW	2.6	3.5	4.6	5.6
,		Min-Max	kW	1.5 - 3.2	1.4 - 3.9	2.3 - 5.2	2.3 - 6.5
1 1	Total Input	Rated	kW	0.684	0.972	1.394	1.767
	EER			3.80	3.60	3.30	3.17
	Design load		kW	2.6	3.5	4.6	5.6
	Annual electricity consump	tion(*2)	kWh/a	144	188	256	316
5	SEER(*4)			6.3	6.5	6.3	6.2
		Energy efficiency class		A++	A++	A++	A++
leating (	Capacity	Rated	kW	3.2	4.0	5.0	6.4
,		Min-Max	kW	1.3 - 4.2	1.7 - 5.0	1.7 - 6.0	2.5 - 7.4
-	Total Input	Rated	kW	0.886	1.108	1.558	2.278
	COP			3.61	3.61	3.21	2.81
	Design load			2.2	2.6	3.6	4.6
	Declared Capacity	at reference design temperature	kW kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.0 (-7°C)
- 11		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.0 (-10°C)
	Back up heating capacity		kW	0.2	0.3	0.4	0.6
	Annual electricity consumption(*2) kWh			716	846	1166	1573
	SCOP(*4)			4.3	4.3	4.3	4.0
		Energy efficiency class		A+	A+	A+	A+
perating Cu	rrent(Max)		А	7.2	8.4	12.3	14.4
door Inp	out [cooling / Heating ]	Rated	kW	0.02 / 0.02	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
nit Op	perating Current(Max)		А	0.20	0.24	0.32	0.43
		H*W*D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	eight		kg	15 <3>	15 <3>	15 <3>	15 <3>
	r Volume (Lo-Mi2-Mi1-Hi)		m³/min	6.5-7.5-8.5	6.5-8.0-9.5	7.0-9.0-11.5	7.5-11.5-13.0
	und Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	25-28-31	25-30-34	27-34-39	32-40-43
	und Level (PWL)		dB(A)	48	51	56	60
	mensions	H*W*D	mm	550-800-285	550-800-285	880-840-330	880-840-330
	eight	I	kg	30	35	54	50
Air	r Volume	Cooling	m³/min	32.6	36.3	44.6	40.9
<u>_</u>		Heating	m³/min	34.7	34.8	44.6	49.2
So	und Level (SPL)	Cooling	dB(A)	47	49	52	55
		Heating	dB(A)	48	50	52	55
	und Level (PWL)	Cooling	dB(A)	58	62	65	65
			Α	7	8.2	12	14
	eaker Size		А	10	10	20	20
xt.Piping Dia		Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88
	ax.Length	Out-In	m	20	20	30	30
	ax.Height	Out-In	m	12	12	30	30
Guaranteed C	Operating Range (Outdoor)	Cooling <sup>(*3)</sup>	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This are contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report. \*2 Energy consumption based on standard test results. Actual energy consumption on with depend on whe appliance is used and where it is located. \*3 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012. \*4 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

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