

TECHNICAL
CATALOGUE
RESIDENTIAL
AIR CONDITIONING
2024

- WALL MOUNTED AC
- MULTI VARIABLE SERIES
- UNI SPLIT 2 SERIES
- PORTABLE DEVICES



SINCLAIR

AIR CONDITIONING

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WALL MOUNTED SPLIT AIR CONDITIONERS

SPECTRUM PLUS SERIES

MODEL			ASH-09BIS2/W	ASH-13BIS2/W	ASH-18BIS2/W	ASH-24BIS2/W	
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,7-5,0) / 3,5 (0,7-5,5)	3,5 (0,9-5,0) / 4,2 (0,9-7,2)	5,3 (1,2-7,2) / 5,6 (1,2-9,2)	7,0 (2,0-9,0) / 7,0 (2,0-9,5)	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power supply			outdoor	outdoor	outdoor	outdoor	
Power input cooling / heating 1)		W	550 / 745	840 / 950	1320 / 1320	1850 / 1750	
Maximal power input 2)		W	2400	2600	3300	3700	
Power current cooling / heating		A	3,6 / 4,7	5,1 / 5,7	5,9 / 5,9	11,0 / 11,0	
Maximal power current 2)		A	10,7	12,0	13,0	16,4	
Energy class cooling 3)			A+++	A+++	A++	A++	
Pdesign cooling		kW	2,7	3,5	5,3	7,0	
SEER			8,5	8,5	6,6	6,5	
Annual power consumption		kWh / annum	111	144	247	377	
Energy class heating 3)	Aver. / Warm. / Cool.		A+++ / A+++ / A	A+++ / A+++ / A+	A+ / A+++ / A	A+ / A+++ / A	
Pdesign heating	Average climate	kW	3,5	3,5	5,9	7,0	
SCOP	Average climate		5,1	5,1	4,4	4,1	
Annual power consumption	Average climate	kWh / annum	961	961	1877	2390	
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	800/720/570/620/560/500/450	800/730/680/630/580/530/430	1200/1150/1050/950/850/780/600	1200/1050/950/900/850/800/750	
Airflow of OD	H	m³ / h	2400	2400	4000	4000	
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	43/41/38/36/33/31/18	46/43/41/38/36/34/21	48/45/43/40/37/35/33	50/46/43/41/39/37/35/27	
Sound pressure level of OD at 1m 4)	H	dB(A)	53	54	56	58	
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	58/51/48/46/43/41/28	58/55/53/50/48/46/33	60/57/55/52/49/47/45	64/60/57/55/53/51/49/41	
Sound power of OD 4)	H	dB(A)	62	62	63	66	
Dehumidifying volume		l / h	0,8	1,4	1,8	2,0	
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 1,00 / 0,67	R32 / 1,00 / 0,67	R32 / 1,50 / 1,01	R32 / 2,00 / 1,35	
Additional refrigerant		g / m	20	20	40	50	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 16,0	¾ / 16,0	
Max pipe length without additional refrigerant 6)		m	5	5	5	7,5	
Allowed pipe length 7)	min. / max.	m	3 / 15	3 / 20	3 / 40	3 / 50	
Max. elevation / Drop height		m	10	10	20	30	
Dimension of ID	w × h × d	mm	996 × 301 × 225	996 × 301 × 225	1101 × 327 × 249	1101 × 327 × 249	
Dimensions of outdoor unit	w × h × d	mm	899 × 596 × 378	899 × 596 × 378	1003 × 790 × 427	1003 × 790 × 427	
Package dimension of ID	w × h × d	mm	1060 × 380 × 322	1060 × 380 × 322	1167 × 405 × 354	1167 × 405 × 354	
Package dimensions of outdoor unit	w × h × d	mm	948 × 645 × 420	948 × 645 × 420	1083 × 855 × 488	1083 × 855 × 488	
Weight of ID	netto / brutto	kg	13,0 / 16,0	13,5 / 16,5	16,5 / 20,0	16,5 / 20,0	
Weight of OD	netto / brutto	kg	44,5 / 47,5	45,5 / 48,5	62,5 / 67,5	65,0 / 70,0	
Set temperature range	cooling / heating	°C	16~30 / 8~30	16~30 / 8~30	16~30 / 8~30	16~30 / 8~30	
Operating temperature range cooling 8)		°C	-18~54	-18~54	-18~52	-18~52	
Operating temperature range heating 8)		°C	-30~24	-30~24	-30~24	-30~24	
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	490 × 354	490 × 354	610 × 395	610 × 395	
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 2,5	3 × 4,0	
Recommended air switch		A	13	13	16	20	
EQUIPMENT							
Plasma generator	indoor		✓	✓	✓	✓	
WiFi module			✓	✓	✓	✓	
Drain pump			-	-	-	-	
Max. lift (from bottom of ID unit)		mm	-	-	-	-	
Door contact			✓	✓	✓	✓	
Alarm contact			-	-	-	-	
Left-right guide louvres			✓	✓	✓	✓	
Throttling method	outdoor		EXV	EXV	EXV	EXV	
Bottom chassis heater			Heating belt	Heating belt	Heating belt	Heating belt	
Crankcase heater			Preheating	Preheating	Preheating	Preheating	
Bottom plugs for OD			✓	✓	✓	✓	
Drain pipe connector			✓	✓	✓	✓	
STANDARD ACCESSORIES							
Standard health filter			SAF-OPWC4, SAF-OPWS4				
Remote controller (IR)			YAG1FB2	YAG1FB2	YAG1FB2	YAG1FB2	
Wired controller			-	-	-	-	
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWA4, SAF-OPWB4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SAI-01, SBG-01				

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

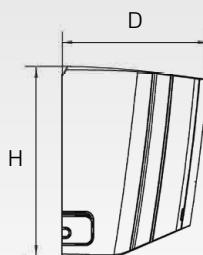
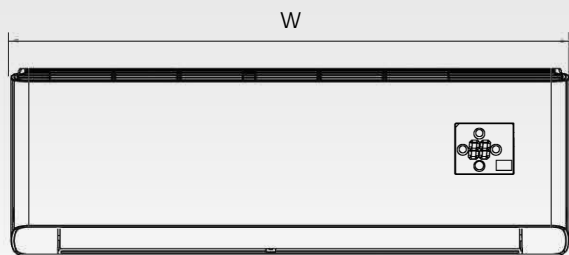
Explanatory notes on the very last page of the catalogue.

The device is being sold as a set (indoor + outdoor unit).

* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

SPECTRUM PLUS SERIES

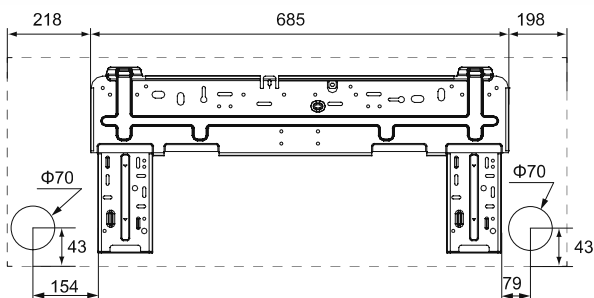
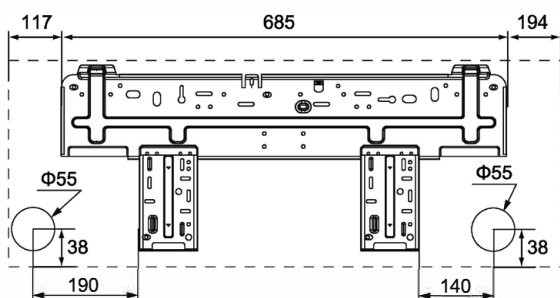


ASH-09BIS2/W

ASH-13BIS2/W

ASH-18BIS2/W

ASH-24BIS2/W



	W	H	D
ASH-09BIS2/W	996	301	225
ASH-13BIS2/W	996	301	225
ASH-18BIS2/W	1101	327	249
ASH-24BIS2/W	1101	327	249

units: mm

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

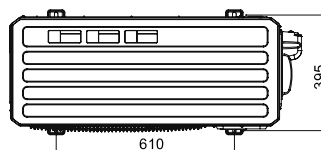
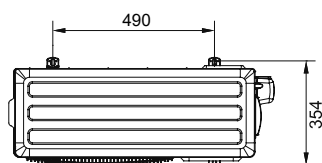
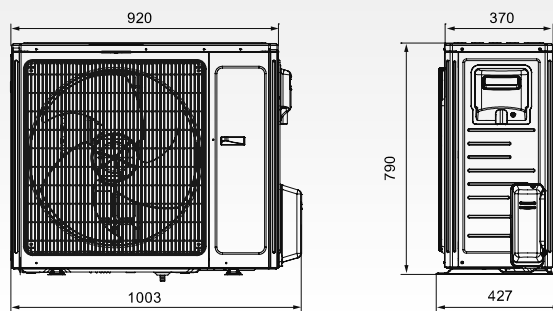
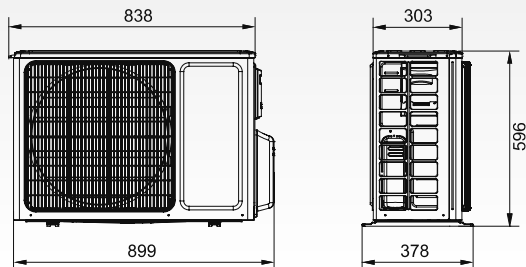
SPECTRUM PLUS SERIES

ASH-09BIS2/W

ASH-13BIS2/W

ASH-18BIS2/W

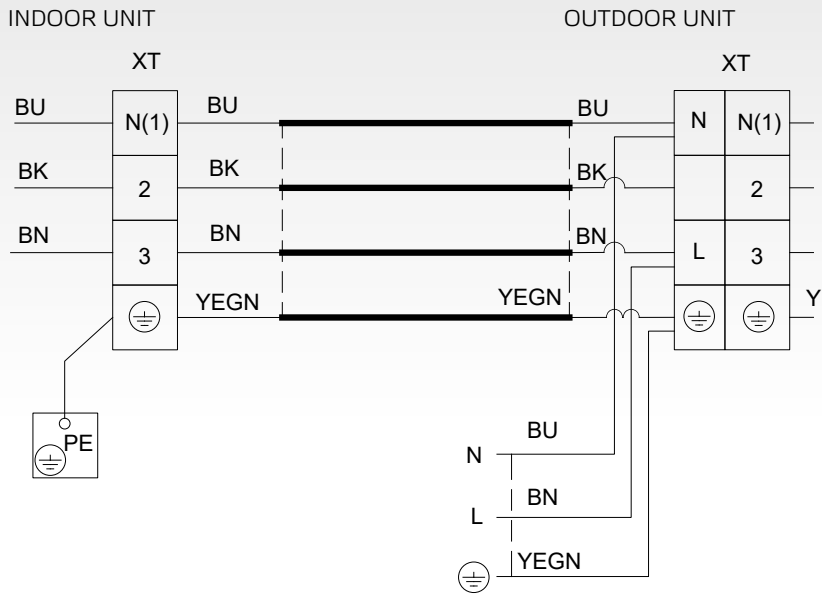
ASH-24BIS2/W



units: mm

ELECTRICAL WIRING DIAGRAM

SPECTRUM PLUS SERIES



WALL MOUNTED SPLIT AIR CONDITIONERS

MARVIN SERIES

MODEL			SIH+SOH-09BIM	SIH+SOH-12BIM	SIH+SOH-18BIM	SIH+SOH-24BIM	
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,8-3,8) / 3,0 (0,9-4,3)	3,5 (0,9-4,4) / 3,8 (0,9-4,7)	5,3 (0,9-6,3) / 5,4 (1,1-7,0)	7,1 (1,8-7,8) / 7,3 (1,5-9,4)	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power supply			outdoor	outdoor	outdoor	outdoor	
Power input cooling / heating 1)		W	670 / 680	989 / 977	1528 / 1393	2030 / 1870	
Maximal power input 2)		W	1400	1650	2350	3500	
Power current cooling / heating		A	3,1 / 3,2	4,4 / 4,4	7,2 / 6,3	9,0 / 9,3	
Maximal power current 2)		A	6,2	7,4	10,5	14,0	
Energy class cooling 3)			A+++	A++	A++	A++	
Pdesign cooling		kW	2,7	3,5	5,3	7,1	
SEER			8,5	7,2	7,3	7,0	
Annual power consumption		kWh / annum	111	170	254	355,0	
Energy class heating 3)	Aver. / Warm. / Cool.		A++ / A+++ / A	A+ / A+++ / B	A+ / A+++ / A	A+ / A+++ / A	
Pdesign heating	Average climate	kW	2,7	3,2	4,2	5,6	
SCOP	Average climate		4,6	4,1	4,2	4,3	
Annual power consumption	Average climate	kWh / annum	822	1093	1380	1823,0	
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	610/570/540/470/440/420/390	680/620/560/490/450/420/390	1000/850/760/650/580/520/450	1000/850/760/580/520/450/400	
Airflow of OD	H	m³ / h	1950	1950	2200	3600	
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	38/37/34/31/26/23/22/19	41/38/36/33/30/27/25/19	45/42/40/37/34/29/26/23	48/44/41/40/38/36/33/27	
Sound pressure level of OD at 1m 4)	H	dB(A)	50	52	56	59	
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	58/51/48/45/40/37/36	60/52/50/47/44/41/39	60/55/53/50/47/42/39	65/59/56/55/53/51/48	
Sound power of OD 4)	H	dB(A)	61	63	65	70	
Dehumidifying volume		l / h	0,8	1,4	1,9	2,4	
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,53 / 0,36	R32 / 0,57 / 0,38	R32 / 0,85 / 0,57	R32 / 1,40 / 0,94	
Additional refrigerant		g / m	16	16	16	40	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0	
Max pipe length without additional refrigerant 6)		m	5	5	5	5	
Allowed pipe length 7)	min. / max.	m	3 / 15	3 / 15	3 / 25	3 / 25	
Max. elevation / Drop height		m	10	10	10	10	
Dimension of ID	w × h × d	mm	837 × 293 × 200	837 × 293 × 200	993 × 311 × 222	993 × 311 × 222	
Dimensions of outdoor unit	w × h × d	mm	732 × 555 × 330	732 × 555 × 330	802 × 555 × 350	958 × 660 × 402	
Package dimension of ID	w × h × d	mm	896 × 373 × 272	896 × 373 × 272	1055 × 385 × 298	1055 × 385 × 298	
Package dimensions of outdoor unit	w × h × d	mm	794 × 376 × 615	794 × 376 × 615	872 × 398 × 620	1032 × 456 × 737	
Weight of ID	netto / brutto	kg	9,5 / 11,5	9,5 / 11,5	12,5 / 15,0	13,0 / 15,5	
Weight of OD	netto / brutto	kg	25,0 / 27,5	25,5 / 28,0	31,5 / 34,0	45,0 / 49,5	
Set temperature range	cooling / heating	°C	16-30 / 8-30	16-30 / 8-30	16-30 / 8-30	16-30 / 8-30	
Operating temperature range cooling 8)		°C	-15-50	-15-50	-15-50	-15-50	
Operating temperature range heating 8)		°C	-25-30	-25-30	-25-30	-25-30	
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	455 × 310	455 × 310	512 × 332	570 × 371	
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 2,5	3 × 4,0	
Recommended air switch		A	13	13	16	20	
EQUIPMENT							
UV-C technology	indoor		✓	✓	✓	✓	
Plasma generator			✓	✓	✓	✓	
WiFi module			✓	✓	✓	✓	
Drain pump			-	-	-	-	
Max. lift (from bottom of ID unit)		mm		-	-	-	-
Door contact				✓	✓	✓	✓
Alarm contact			-	-	-	-	
Left-right guide louvres	outdoor		✓	✓	✓	✓	
Throttling method			Capillary	EXV	EXV	EXV	
Bottom chassis heater			Heating belt	Heating belt	Heating belt	Heating belt	
Crankcase heater			Preheating	Preheating	Preheating	Preheating	
Bottom plugs for OD				-	-	-	-
Drain pipe connector				✓	✓	✓	✓
STANDARD ACCESSORIES							
Standard health filter			SAF-OPWC4, SAF-OPWB4				
Remote controller (IR)			YBE1F				
Wired controller			-	-	-	-	
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWA4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SAI-01, SBG-01				

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675. Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

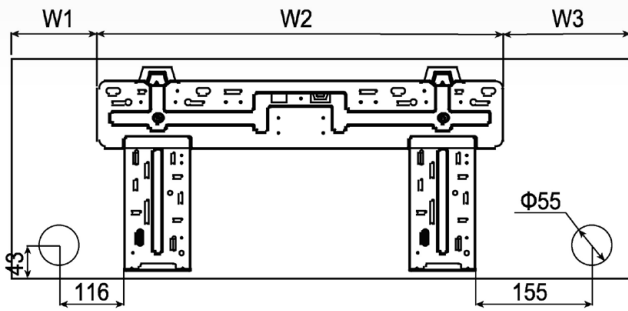
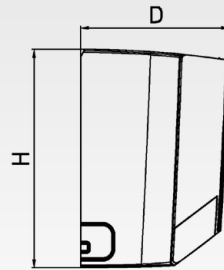
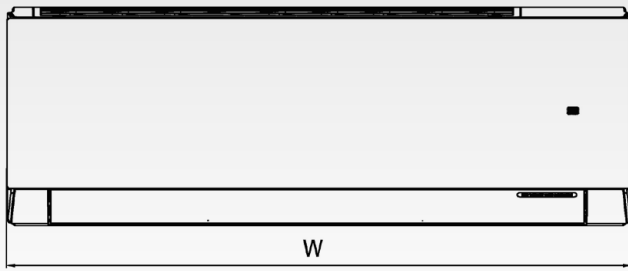
Explanatory notes on the very last page of the catalogue.

The device is being sold as a set (indoor + outdoor unit).

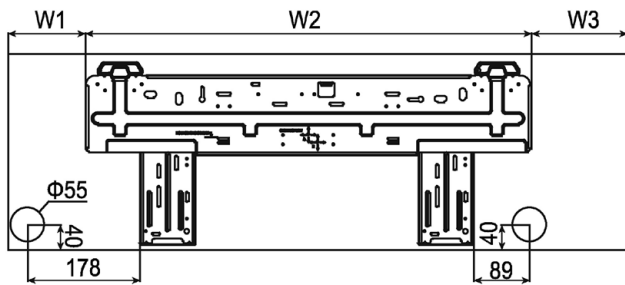
* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

MARVIN SERIES



SIH-09BIMx
SIH-12BIMx



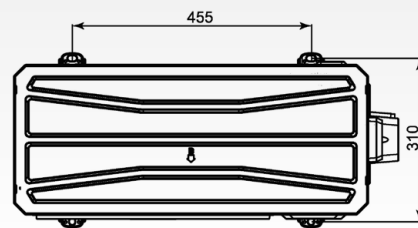
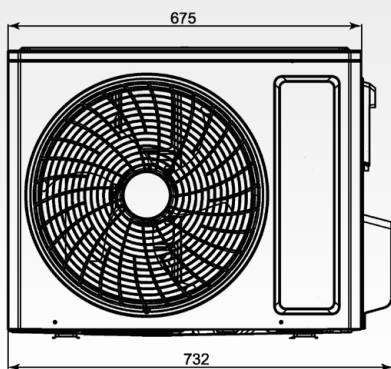
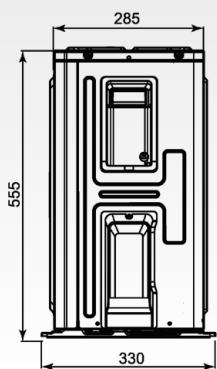
SIH-18BIMx
SIH-24BIMx

Model	W	H	D	W1	W2	W3
SIH-09/12BIMx	837	293	200	119	542	176
SIH-18/24BIMx	993	311	222	128	707.5	157.5

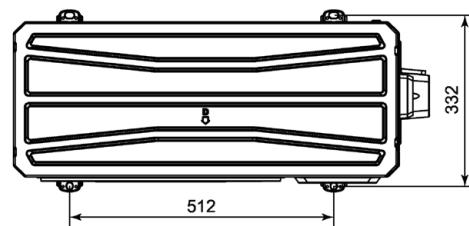
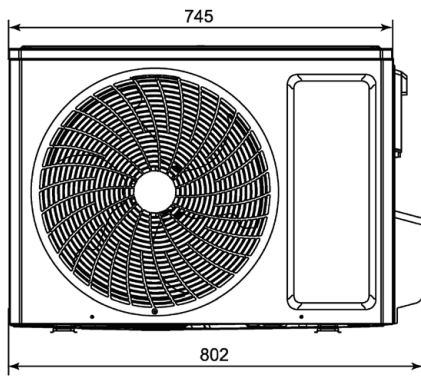
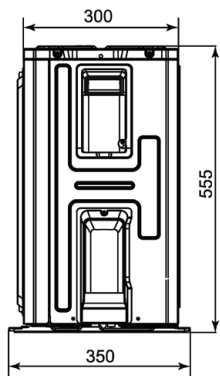
APPEARANCE AND DIMENSIONS OF INDOOR UNIT

MARVIN SERIES

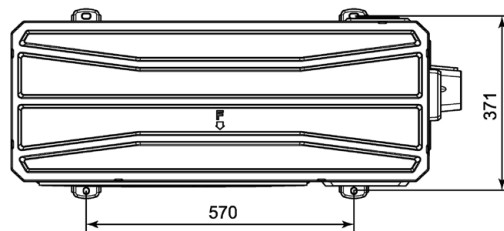
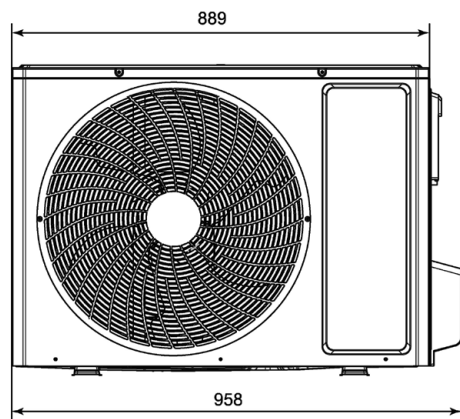
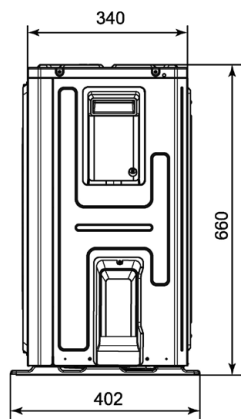
SOH-09BIM, SOH-12BIM



SOH-18BIM

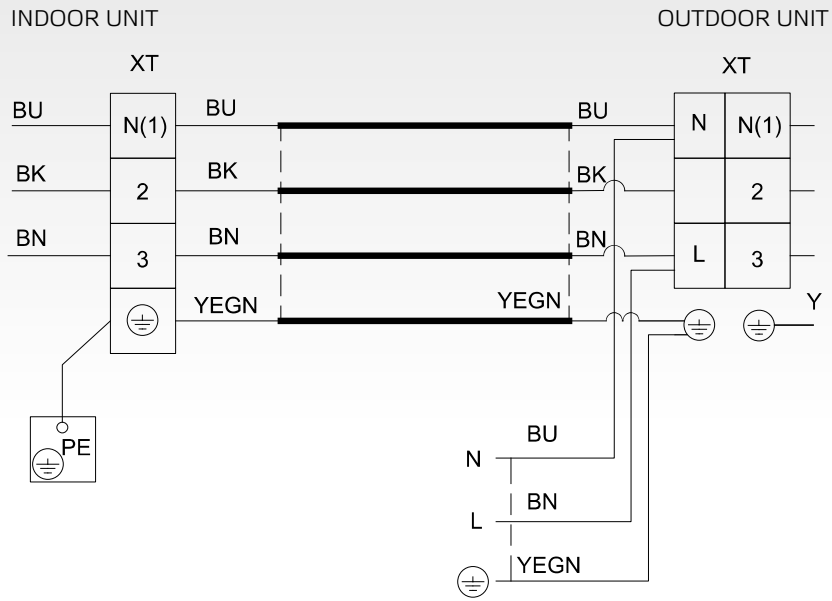


SOH-24BIM



ELECTRICAL WIRING DIAGRAM

MARVIN SERIES



WALL MOUNTED SPLIT AIR CONDITIONERS

TERREL SERIES

MODEL			SIH+SOH-09BIT	SIH+SOH-13BIT	SIH+SOH-18BIT2	SIH+SOH-24BIT2	
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,8-3,8) / 3,0 (0,9-4,2)	3,5 (1,0-3,8) / 3,8 (0,9-4,7)	5,3 (1,3-6,6) / 5,6 (1,4-7,5)	7,1 (2,0-8,9) / 7,8 (1,8-9,5)	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power supply			outdoor	outdoor	outdoor	outdoor	
Power input cooling / heating 1)		W	695 / 700	962 / 953	1413 / 1333	2030 / 2000	
Maximal power input 2)		W	1400	1550	2500	3000	
Power current cooling / heating		A	3,1 / 3,2	4,3 / 4,6	6,5 / 6,2	9,0 / 9,3	
Maximal power current 2)		A	6,2	6,9	12,5	13,5	
Energy class cooling 3)			A++	A++	A++	A++	
Pdesign cooling		kW	2,7	3,5	5,3	7,1	
SEER			7,5	7,1	7,6	7,0	
Annual power consumption		kWh / annum	126	173	244	355	
Energy class heating 3)	Aver. / Warm. / Cool.		A+ / A+++ / A	A+ / A+++ / B	A+ / A+++ / A	A+ / A+++ / A	
Pdesign heating	Average climate	kW	2,7	3,2	4,3	5,6	
SCOP	Average climate		4,2	4,1	4,3	4,2	
Annual power consumption	Average climate	kWh / annum	900	1093	1400	1867	
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	610/570/540/470/440/420/390	700/650/600/540/480/420/360	850/750/680/610/570/520/460	1250/1100/1000/950/900/850/800/600	
Airflow of OD	H	m³ / h	1950	1950	3600	3600	
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	38/36/34/31/29/27/25	42/38/35/32/29/27/25	47/41/39/37/35/32/31/21	50/47/43/41/40/36/35/27	
Sound pressure level of OD at 1m 4)	H	dB(A)	50	52	57	59	
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	56/48/46/43/41/39/37	57/50/47/44/41/39/37	60/57/55/54/52/50/46/34	64/59/56/55/53/51/48/42	
Sound power of OD 4)	H	dB(A)	61	63	64	70	
Dehumidifying volume		l / h	0,8	1,4	1,9	2,4	
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,53 / 0,36	R32 / 0,57 / 0,38	R32 / 1,00 / 0,68	R32 / 1,50 / 1,01	
Additional refrigerant		g / m	16	16	16	40	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0	
Max pipe length without additional refrigerant 6)		m	5	5	5	5	
Allowed pipe length 7)	min. / max.	m	3 / 15	3 / 15	3 / 25	3 / 25	
Max. elevation / Drop height		m	10	10	10	10	
Dimension of ID	w × h × d	mm	889 × 294 × 212	889 × 294 × 212	1013 × 307 × 221	1122 × 329 × 247	
Dimensions of outdoor unit	w × h × d	mm	732 × 555 × 330	732 × 555 × 330	958 × 660 × 402	958 × 660 × 402	
Package dimension of ID	w × h × d	mm	940 × 365 × 284	940 × 365 × 284	1060 × 374 × 297	1177 × 406 × 332	
Package dimensions of outdoor unit	w × h × d	mm	794 × 615 × 376	794 × 615 × 376	1032 × 456 × 737	1032 × 456 × 737	
Weight of ID	netto / brutto	kg	11,0 / 13,0	11,0 / 13,0	13,5 / 15,5	16,5 / 19,5	
Weight of OD	netto / brutto	kg	23,5 / 26,0	24,5 / 27,0	40,5 / 45,0	41,5 / 46,0	
Set temperature range		°C	16~30	16~30	16~30	16~30	
Operating temperature range cooling 8)		°C	-15~50	-15~50	-15~50	-15~50	
Operating temperature range heating 8)		°C	-25~30	-25~30	-25~30	-25~30	
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	455 × 310	455 × 310	570 × 371	570 × 371	
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 1,5	3 × 4,0	
Recommended air switch		A	13	13	13	20	
EQUIPMENT							
Plasma generator	indoor		✓	✓	✓	✓	
WiFi module			✓	✓	✓	✓	
Drain pump			-	-	-	-	
Max. lift (from bottom of ID unit)		mm	-	-	-	-	
Door contact			✓	✓	✓	✓	
Alarm contact			-	-	-	-	
Left-right guide louvres			✓	✓	✓	✓	
Throttling method	outdoor		Capillary	EXV	EXV	EXV	
Bottom chassis heater			Heating belt	Heating belt	Heating belt	Heating belt	
Crankcase heater			Preheating	Preheating	Preheating	Preheating	
Bottom plugs for OD			-	-	✓	✓	
Drain pipe connector			✓	✓	✓	✓	
STANDARD ACCESSORIES							
Standard health filter			SAF-OPWC4, SAF-OPWB4				
Remote controller (IR)			YAC1FB9 (WiFi)				
Wired controller			-	-	-	-	
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWA4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SAI-01, SBG-01				

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.

* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

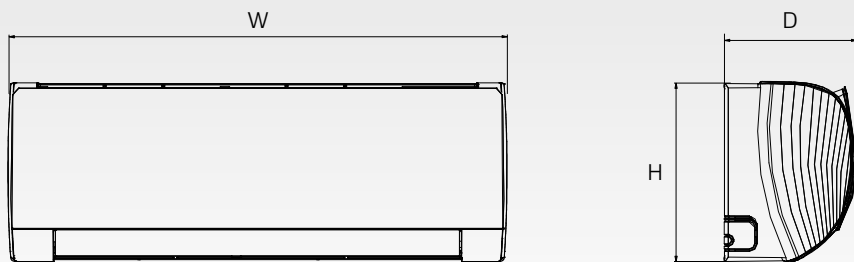
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

The device is being sold as a set (indoor + outdoor unit).

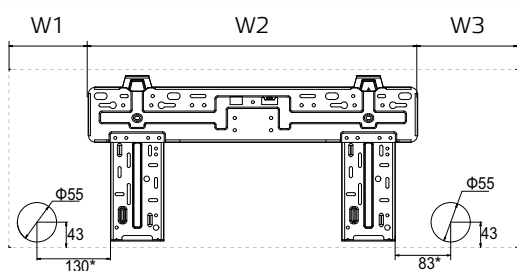
APPEARANCE AND DIMENSIONS OF INDOOR UNIT

TERREL SERIES



SIH-09BITx

SIH-13BITx



Model	W	H	D	W1	W2	W3
SIH-09/13BITx	889	294	212	146	542	201

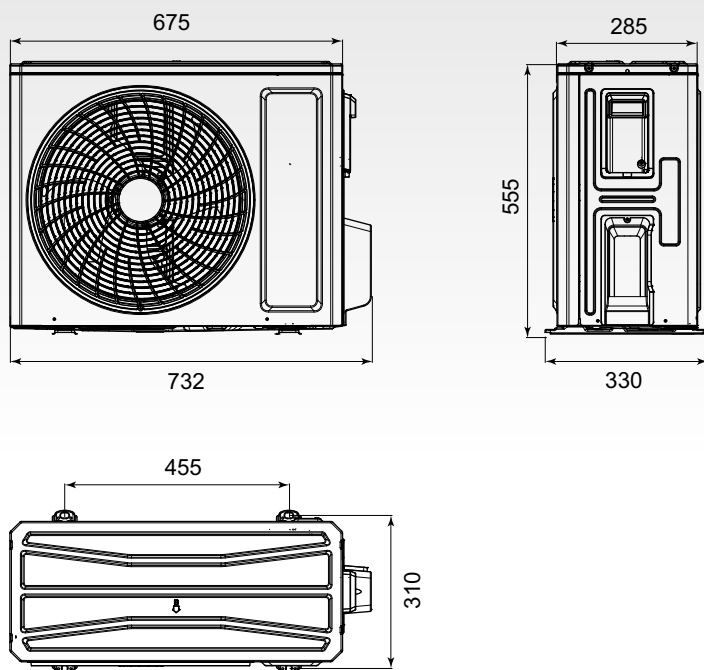
units: mm

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

TERREL SERIES

SOH-09BIT

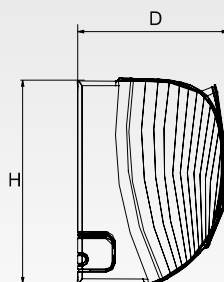
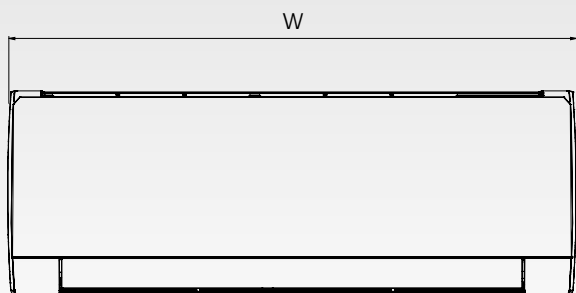
SOH-13BIT



units: mm

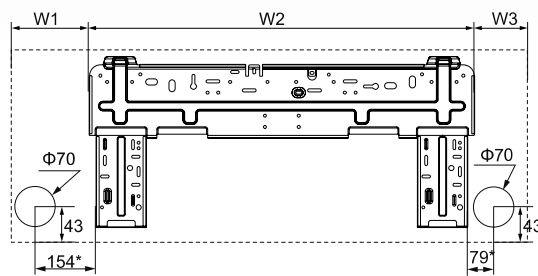
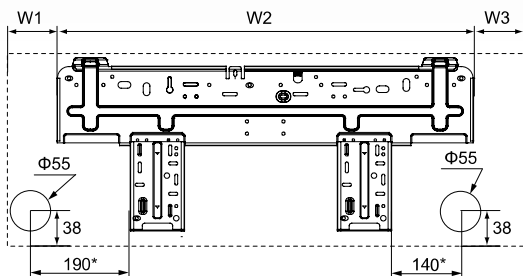
APPEARANCE AND DIMENSIONS OF INDOOR UNIT

TERREL SERIES



SIH-18BIT2

SIH-24BIT2



Model	W	H	D	W1	W2	W3
SIH-18BIT2x	1013	307	221	125.5	685	202.5
SIH-24BIT2x	1122	329	247	207	685	230

units: mm

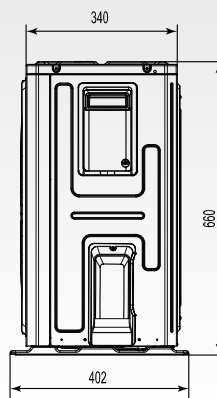
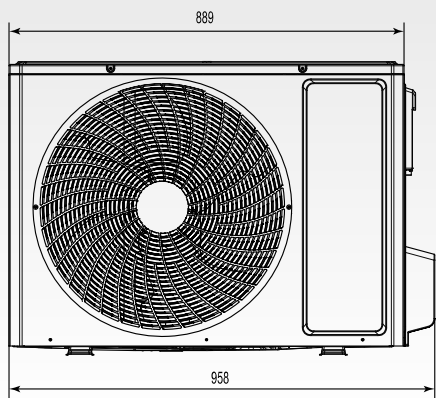
* Recommended distance

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

TERREL SERIES

SOH-18BIT2

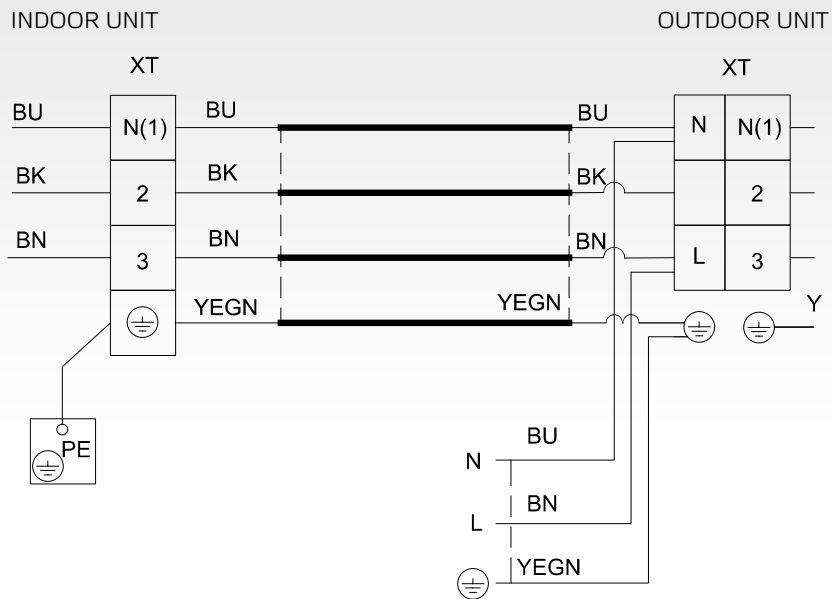
SOH-24BIT2



units: mm

ELECTRICAL WIRING DIAGRAM

TERREL SERIES



WALL MOUNTED SPLIT AIR CONDITIONERS

KEYON SERIES

MODEL			SIH+SOH-09BIK2	SIH+SOH-12BIK2	SIH+SOH-18BIK	SIH+SOH-24BIK		
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 / 2,8	3,2 (0,9-3,7) / 3,4 (0,9-4,1)	4,6 (1,0-5,3) / 5,2 (1,0-5,7)	6,2 (1,8-6,4) / 6,5 (1,6-6,6)		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Power supply			outdoor	outdoor	outdoor	outdoor		
Power input cooling / heating 1)		W	725 / 685	933 / 872	1355 / 1340	1771 / 1646		
Maximal power input 2)		W	1500	1500	1900	2200		
Power current cooling / heating		A	3,5 / 3,2	4,1 / 3,9	5,9 / 5,8	7,9 / 7,3		
Maximal power current 2)		A	7,5	7,5	9,0	10,0		
Energy class cooling 3)			A++	A++	A++	A++		
Pdesign cooling		kW	2,7	3,2	4,6	6,2		
SEER			6,8	6,5	6,4	6,8		
Annual power consumption		kWh / annum	139	172	251	319		
Energy class heating 3)	Aver. / Warm. / Cool.		A+ / A+++ / -	A+ / A+++ / -	A+ / A+++ / -	A+ / A+++ / -		
Pdesign heating	Average climate	kW	2,6	2,7	3,7	4,7		
SCOP	Average climate		4,2	4,1	4,0	4,0		
Annual power consumption	Average climate	kWh / annum	867	922	1295	1645		
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	550/520/480/400/340/310/280	680/560/450/390	850/750/650/550	1100/950/750/650		
Airflow of OD	H	m³ / h	1950	1950	1950	2800		
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	40/37/35/33/29/26/23	41/36/32/23	48/41/37/31	48/44/40/35		
Sound pressure level of OD at 1m 4)	H	dB(A)	51	52	53	58		
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	56/49/47/45/41/37/36	57/46/42/37	58/51/47/34	61/58/53/49		
Sound power of OD 4)	H	dB(A)	60	63	63	67		
Dehumidifying volume		l / h	0,8	1,4	1,8	1,8		
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,5 / 0,34	R32 / 0,57 / 0,38	R32 / 0,75 / 0,51	R32 / 1,30 / 0,88		
Additional refrigerant		g / m	16	16	16	16		
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0		
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 9,5	½ / 12,0		
Max pipe length without additional refrigerant 6)		m	5	5	5	5		
Allowed pipe length 7)	min. / max.	m	3 / 15	3. / 20	3 / 25	3 / 25		
Max. elevation / Drop height		m	10	10	10	10		
Dimension of ID	w × h × d	mm	770 × 251 × 190	849 × 289 × 215	972 × 300 × 225	1081 × 325 × 248		
Dimensions of outdoor unit	w × h × d	mm	732 × 555 × 330	732 × 550 × 330	732 × 550 × 330	873 × 555 × 376		
Package dimension of ID	w × h × d	mm	822 × 324 × 262	902 × 357 × 279	1022 × 374 × 299	1137 × 407 × 334		
Package dimensions of outdoor unit	w × h × d	mm	794 × 615 × 376	794 × 615 × 376	792 × 615 × 393	951 × 620 × 431		
Weight of ID	netto / brutto	kg	8,0 / 9,5	10,5 / 12,5	13,5 / 16,0	16,5 / 19,5		
Weight of OD	netto / brutto	kg	24,5 / 27,0	25,0 / 27,5	26,5 / 29,0	36,5 / 39,5		
Set temperature range		°C	16~30	16~30	16~30	16~30		
Operating temperature range cooling 8)		°C	-15~43	-15~43	-15~43	-15~43		
Operating temperature range heating 8)		°C	-15~24	-15~24	-15~24	-15~24		
ADDITIONAL TECHNICAL INFORMATION								
Screw holes distance of OD	w × d	mm	455 × 310			528 × 349		
Communication cable		mm ²	4-wire cable *					
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 1,5	3 × 1,5		
Recommended air switch		A	13	13	13	13		
EQUIPMENT								
Plasma generator	indoor		✓	✓	✓	✓		
WiFi module			✓	✓	✓	✓		
Drain pump			-	-	-	-		
Max. lift (from bottom of ID unit)		mm	-	-	-	-		
Door contact			-	✓	✓	✓		
Alarm contact			-	-	-	-		
Left-right guide louvres			-	-	-	-		
Throttling method	outdoor		Capillary	Capillary	Capillary	Capillary		
Bottom chassis heater			-	-	-	-		
Crankcase heater			Preheating	Preheating	Preheating	Preheating		
Bottom plugs for OD			-	-	-	-		
Drain pipe connector			-	-	✓	✓		
STANDARD ACCESSORIES								
Standard health filter			SAF-OPWC4, SAF-OPWA4					
Remote controller (IR)			YAP1F7 (WIFI)					
Wired controller			-	-	-	-		
OPTIONAL ACCESSORIES								
Optional health filters			SAF-OPWB4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4					
Wired controller			-	SWC-02C, SWC-04C				
Central controller			-	SCC-36				
Other			G2S-T, SAI-01	G2S-T, SAI-01, SBG-01				

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

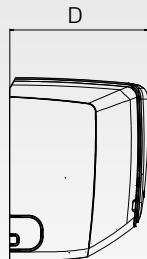
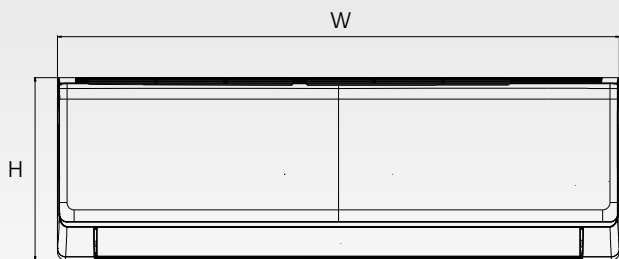
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

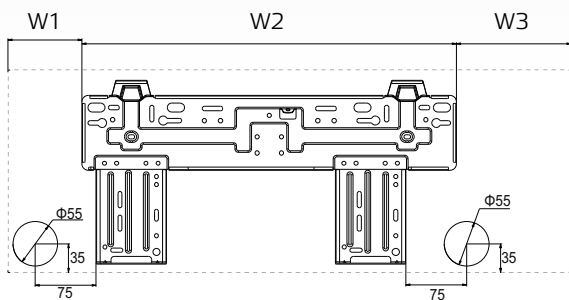
The device is being sold as a set (indoor + outdoor unit).

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

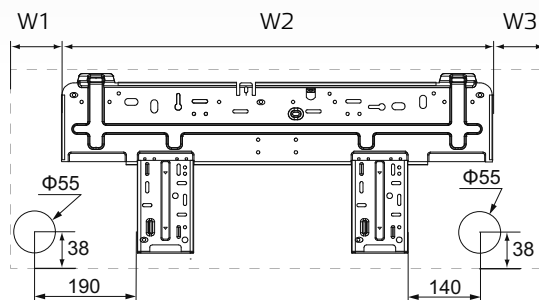
KEYON SERIES



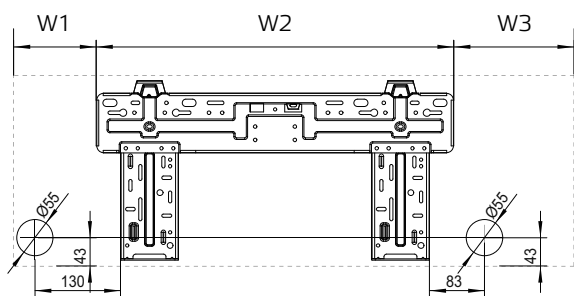
SIH-09BIK



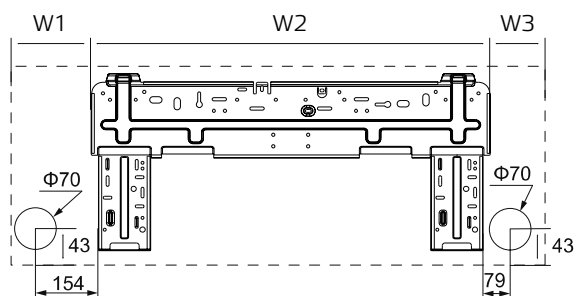
SIH-18BIK



SIH-12BIK



SIH-24BIK



Model	W	H	D	W1	W2	W3
SIH-09BIK	770	251	190	129.5	462	178.5
SIH-12BIK	849	289	215	125	542	182
SIH-18BIK	972	300	225	105	685	182
SIH-24BIK	1081	325	248	207	685	189

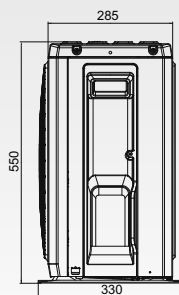
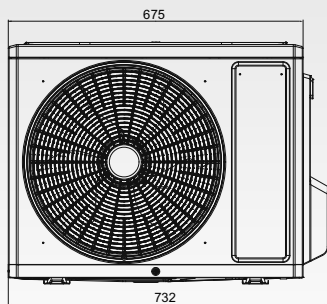
units: mm

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

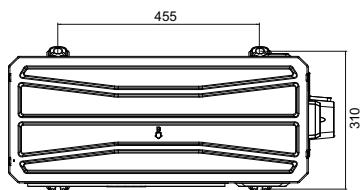
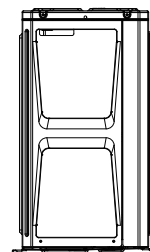
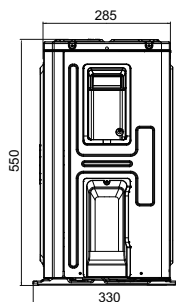
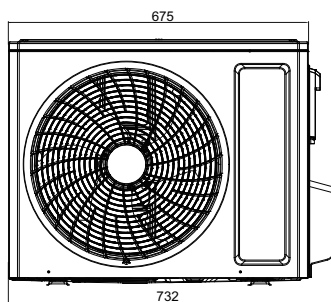
KEYON SERIES

SOH-09BIK2

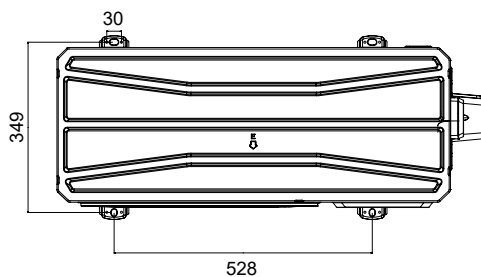
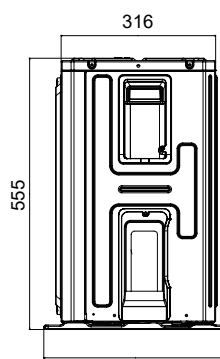
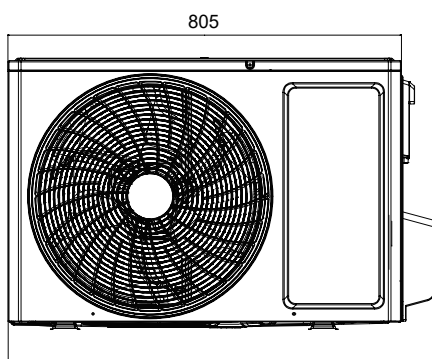
SOH-12BIK2



SOH-18BIK

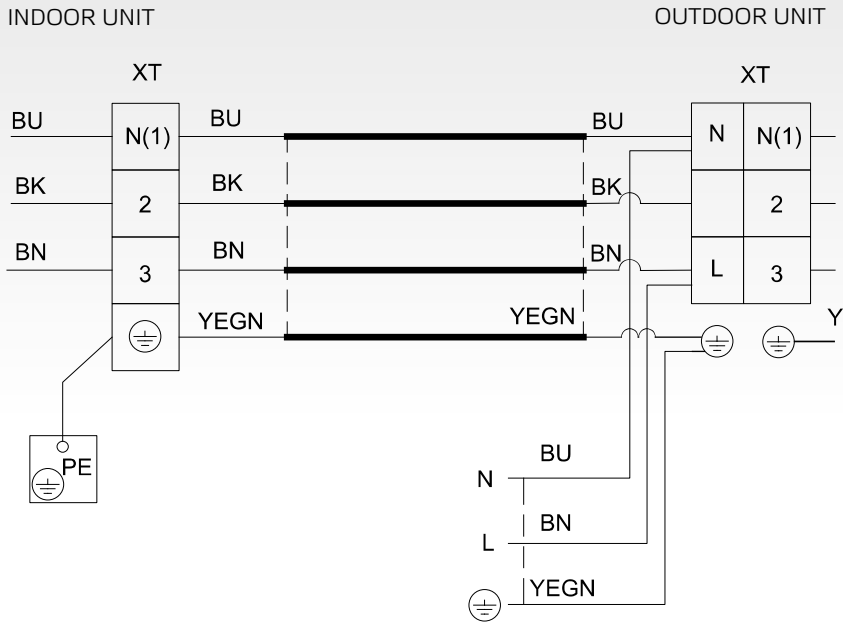


SOH-24BIK



ELECTRICAL WIRING DIAGRAM

KEYON SERIES



WALL MOUNTED SPLIT AIR CONDITIONERS

RAY SERIES

MODEL			SIH+SOH-09BIR2	SIH+SOH-12BIR3	SIH+SOH-18BIR	SIH+SOH-24BIR	
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 / 2,8	3,2 / 3,4	4,6 (1,0-5,3) / 5,2 (1,0-5,6)	6,2 (1,8-6,9) / 6,5 (1,3-7,0)	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power supply			outdoor	outdoor	outdoor	outdoor	
Power input cooling / heating 1)		W	725 / 685	993 / 872	1355 / 1340	1827 / 1912	
Maximal power input 2)		W	1500	1500	1900	2300	
Power current cooling / heating		A	3,5 / 3,2	4,1 / 3,9	5,9 / 5,8	7,6 / 7,6	
Maximal power current 2)		A	7,5	7,5	9,0	10,2	
Energy class cooling 3)			A++	A++	A++	A++	
Pdesign cooling		kW	2,7	3,2	4,6	6,2	
SEER			6,8	6,5	6,4	6,8	
Annual power consumption		kWh / annum	139	172	264	350	
Energy class heating 3)	Aver. / Warm. / Cool.		A+ / A+++ / -	A+ / A+++ / -	A+ / A+++ / -	A+ / A+++ / -	
Pdesign heating	Average climate	kW	2,6	2,7	3,7	4,7	
SCOP	Average climate		4,2	4,1	4,0	4,0	
Annual power consumption	Average climate	kWh / annum	867	922	1260	1645	
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	550/520/400/310/280	680/560/450/390	850/800/700/600	900/800/600/400	
Airflow of OD	H	m³ / h	1950	1950	1950	3200	
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	40/37/33/26/23	42/36/32/23	48/42/38/31	48/45/37/26	
Sound pressure level of OD at 1m 4)	H	dB(A)	51	52	55	57	
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	56/49/45/37/36	57/49/44/37	58/52/48/34	58/55/47/36	
Sound power of OD 4)	H	dB(A)	60	63	63	65	
Dehumidifying volume		l / h	0,8	1,4	1,8	1,8	
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,5 / 0,34	R32 / 0,57 / 0,38	R32 / 0,75 / 0,51	R32 / 1,23 / 0,83	
Additional refrigerant		g / m	16	20	16	16	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 9,5	½ / 12,0	
Max pipe length without additional refrigerant 6)		m	5	5	5	5	
Allowed pipe length 7)	min. / max.	m	3 / 15	5 / 20	3 / 25	3 / 25	
Max. elevation / Drop height		m	10	10	10	10	
Dimension of ID	w × h × d	mm	773 × 250 × 185	849 × 289 × 215	970 × 300 × 225	970 × 300 × 225	
Dimensions of outdoor unit	w × h × d	mm	732 × 555 × 330	732 × 555 × 330	732 × 555 × 330	873 × 555 × 376	
Package dimension of ID	w × h × d	mm	822 × 322 × 255	902 × 357 × 279	1020 × 369 × 295	1020 × 369 × 295	
Package dimensions of outdoor unit	w × h × d	mm	794 × 376 × 615	794 × 376 × 615	794 × 615 × 376	951 × 620 × 431	
Weight of ID	netto / brutto	kg	8,5 / 9,5	10,5 / 12,5	13,5 / 16,0	13,0 / 15,5	
Weight of OD	netto / brutto	kg	24,5 / 27,0	25,0 / 27,5	26,5 / 29,0	36,5 / 39,5	
Set temperature range		°C	16-30	16-30	16-30	16-30	
Operating temperature range cooling 8)		°C	-15-43	-15-43	-15-43	-15-43	
Operating temperature range heating 8)		°C	-15-24	-15-24	-15-24	-15-24	
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	455 × 310		455 × 310	528 × 349	
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 1,5	3 × 1,5	
Recommended air switch		A	13	13	13	13	
EQUIPMENT							
Plasma generator	indoor		✓	✓	✓	✓	
WiFi module			Optional (SWM-04)				
Drain pump			-	-	-	-	
Max. lift (from bottom of ID unit)		mm	-	-	-	-	
Door contact			-	-	-	-	
Alarm contact			-	-	-	-	
Left-right guide louvres			-	-	-	-	
Throttling method	outdoor		Capillary	Capillary	Capillary	Capillary	
Bottom chassis heater			-	-	-	-	
Crankcase heater			Preheating	Preheating	Preheating	Preheating	
Bottom plugs for OD			-	-	-	-	
Drain pipe connector			-	-	-	-	
STANDARD ACCESSORIES							
Standard health filter			-	-	-	-	
Remote controller (IR)			YAW1F5 (WiFi)				
Wired controller			-	-	-	-	
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWA4, SAF-OPWB4, SAF-OPWC4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			-	-	-	-	
Central controller			-	-	-	-	
Other			G2S-T, SAI-01, SWM-04				

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

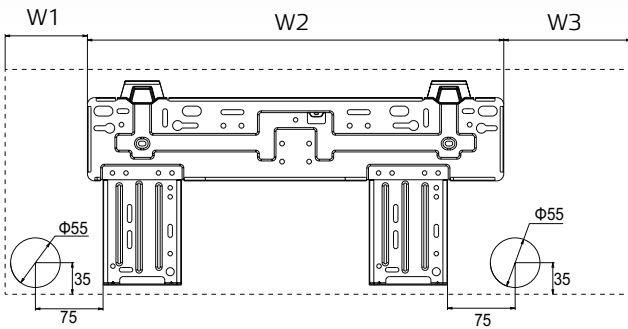
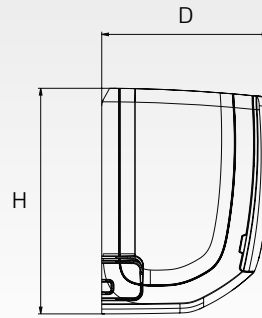
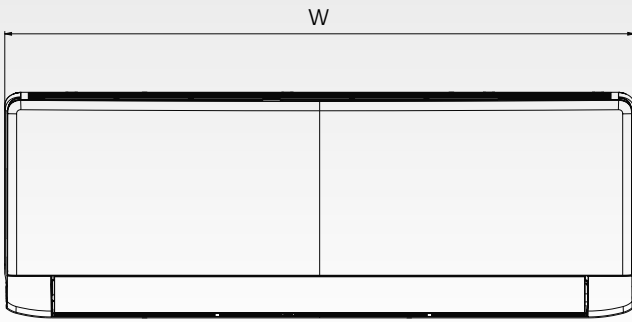
The device is being sold as a set (indoor + outdoor unit).

* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

RAY SERIES

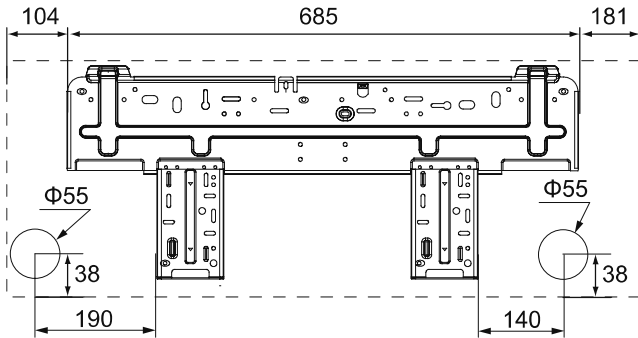
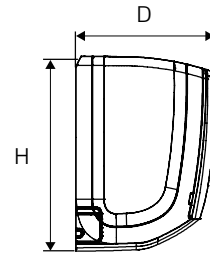
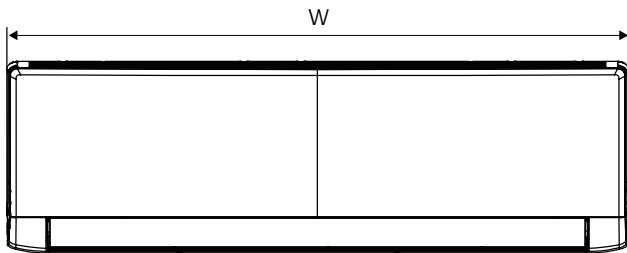
SIH-09BIR, SIH-12BIR3



units: mm

Model	W	H	D	W1	W2	W3
SIH-09	773	250	185	131	462	180
SIH-12BIR3	849	289	215	131	462	180

SIH-18BIR, SIH-24BIR



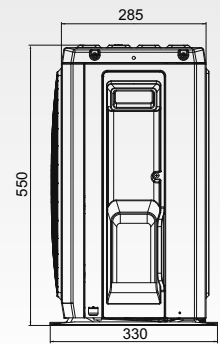
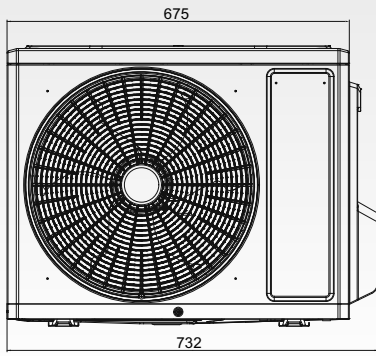
Model	W	H	D
SIH-18/24BIR	970	300	225

units: mm

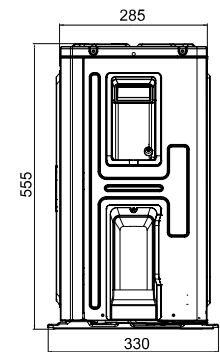
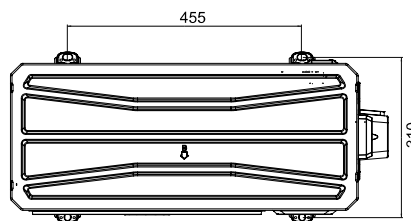
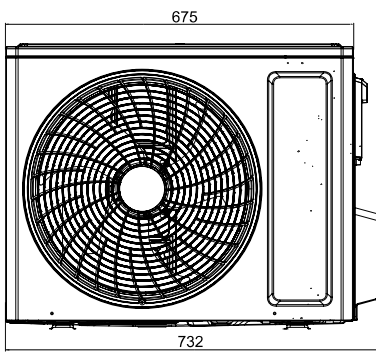
APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

RAY SERIES

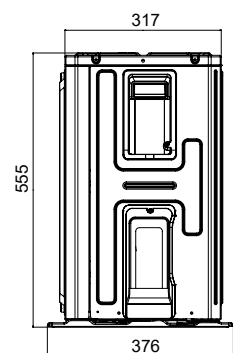
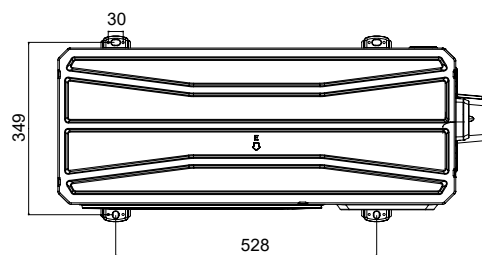
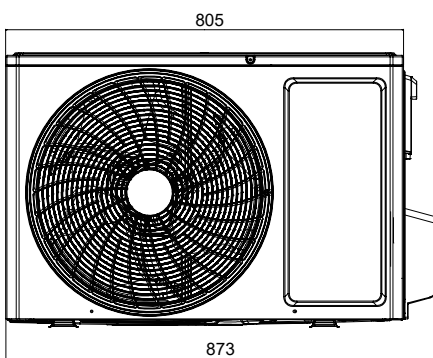
SOH-09BIR2, SOH-12BIR3



SOH-18BIR



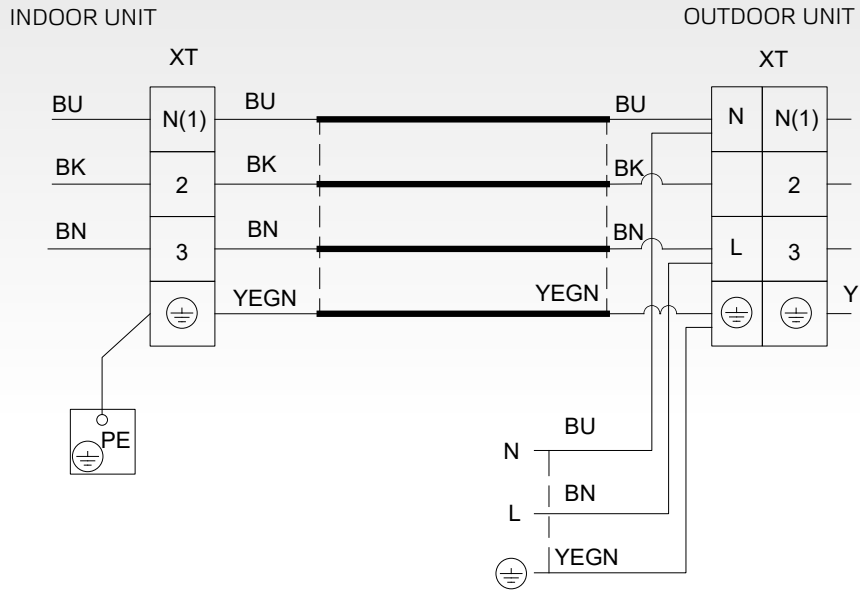
SOH-24BIR



units: mm

ELECTRICAL WIRING DIAGRAM

RAY SERIES



CONSOLE SPLIT AIR CONDITIONERS

CONSOLE SERIES

MODEL			ASP-09BI	ASP-12BI	ASP-18BI		
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,7-3,4) / 2,9 (0,6-3,5)	3,5 (0,8-4,4) / 3,8 (1,1-4,4)	5,2 (1,3-6,6) / 5,3 (1,1-6,8)		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Power supply			outdoor	outdoor	outdoor		
Power input cooling / heating 1)		W	720 / 730	1000 / 960	1550 / 1500		
Maximal power input 2)		W	1350	1500	2500		
Power current cooling / heating		A	3,5 / 3,6	4,5 / 4,3	7,1 / 6,7		
Maximal power current 2)		A	6,0	6,7	11,1		
Energy class cooling 3)			A++	A++	A++		
Pdesign cooling		kW	2,7	3,5	5,2		
SEER			7,2	7,0	6,6		
Annual power consumption		kWh / annum	131	175	276		
Energy class heating 3)	Aver. / Warm. / Cool.		A+ / A+++ / -	A+ / A+++ / -	A+ / A+++ / -		
Pdesign heating	Average climate	kW	2,6	3,2	5,0		
SCOP	Average climate		4,0	4,1	4,1		
Annual power consumption	Average climate	kWh / annum	910	1093	1707		
Air flow of ID	SH/MH/H/ML/ML/SL	m³ / h	500/430/410/370/330/280/250	600/520/480/440/400/360/280	700/650/580/520/460/410/320		
Airflow of OD	H	m³ / h	1600	2200	3200		
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	39/36/33/31/29/26/22	44/40/38/36/33/29/25	47/45/42/40/37/35/31		
Sound pressure level of OD at 1m 4)	H	dB(A)	49	52	57		
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	50/48/45/44/42/38/34	54/50/48/46/43/39/35	57/55/52/50/47/45/41		
Sound power of OD 4)	H	dB(A)	60	62	65		
Dehumidifying volume		l / h	0,8	1,2	1,8		
Refrigerant type / charge	Type / kg / t eq. CO ₂		R32 / 0,55 / 0,37	R32 / 0,75 / 0,51	R32 / 0,95 / 0,64		
Additional refrigerant		g / m	16	16	20		
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0		
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 12,0		
Max pipe length without additional refrigerant 6)		m	5	5	5		
Allowed pipe length 7)	min. / max.	m	3 / 20	3 / 20	3 / 25		
Max. elevation / Drop height		m	10	10	10		
Dimension of ID	w × h × d	mm	700 × 600 × 215	700 × 600 × 215	700 × 600 × 215		
Dimensions of outdoor unit	w × h × d	mm	782 × 540 × 320	848 × 596 × 320	965 × 700 × 396		
Package dimension of ID	w × h × d	mm	788 × 685 × 295	788 × 685 × 295	788 × 697 × 283		
Package dimensions of outdoor unit	w × h × d	mm	823 × 595 × 358	881 × 645 × 363	1029 × 458 × 750		
Weight of ID	netto / brutto	kg	15,5 / 18,5	15,5 / 18,5	15,5 / 18,5		
Weight of OD	netto / brutto	kg	27,5 / 30,0	30,5 / 33,5	46,0 / 50,5		
Set temperature range		°C	16-30	16-30	16-30		
Operating temperature range cooling 8)		°C	-15-43	-15-43	-15-43		
Operating temperature range heating 8)		°C	-22-24	-22-24	-22-24		
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	510 × 286	540 × 286	560 × 364		
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 1,5	3 × 1,5	3 × 2,5		
Recommended air switch		A	10	13	16		
EQUIPMENT							
Plasma generator	indoor		✓	✓	✓		
WiFi module			✓	✓	✓		
Drain pump			-	-	-		
Max. lift (from bottom of ID unit)		mm	-	-	-		
Door contact			-	-	-		
Alarm contact			-	-	-		
Fresh air inlet			-	-	-		
Throttling method	outdoor		EXV	EXV	EXV		
Bottom chassis heater			Heating belt	Heating belt	Heating belt		
Crankcase heater			Preheating	Preheating	Preheating		
Bottom plugs for OD			-	-	✓		
Drain pipe connector			✓	✓	✓		
STANDARD ACCESSORIES							
Standard health filter			SAF-OPWA4, SAF-OPWC4				
Remote controller (IR)			YAA1FB8	YAA1FB8	YAA1FB8		
Wired controller			-	-	-		
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWB4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SBG-01, SAI-01				

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

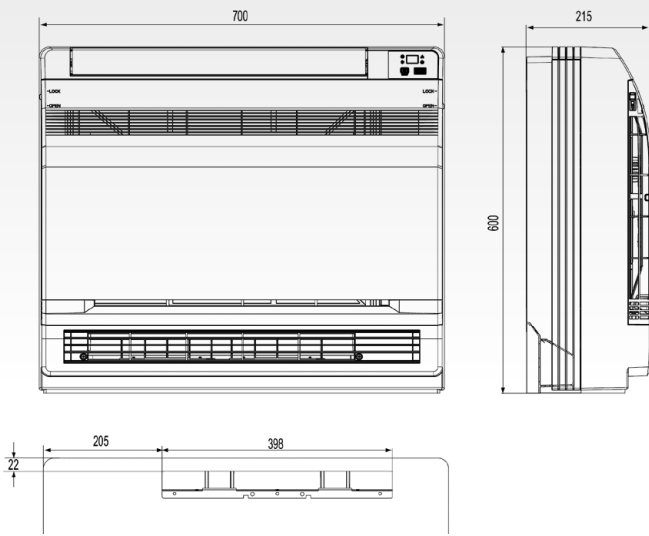
Explanatory notes on the very last page of the catalogue.

The device is being sold as a set (indoor + outdoor unit).

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

CONSOLE SERIES

ASP-09BI, ASP-12BI, ASP-18BI

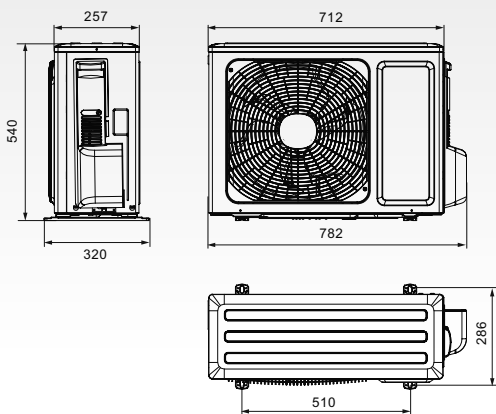


units: mm

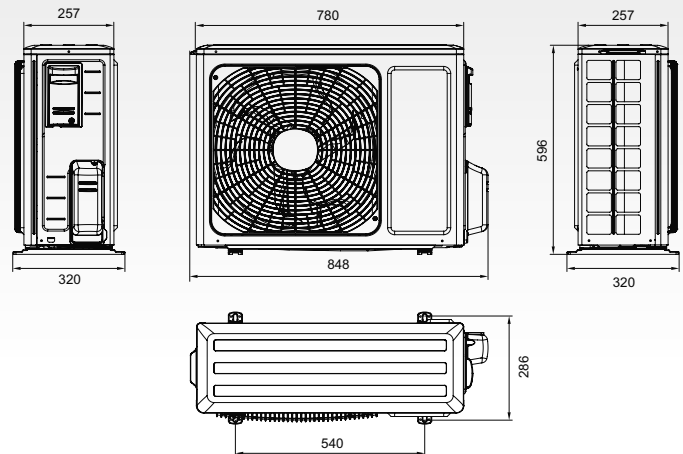
DIMENSIONS OF OUTDOOR UNIT

CONSOLE SERIES

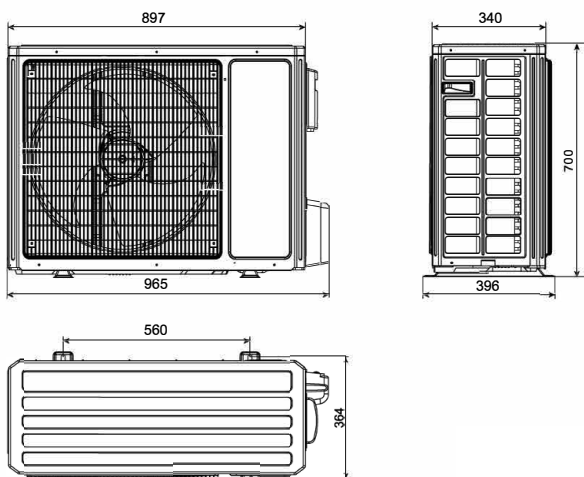
ASP-09BI



ASP-12BI



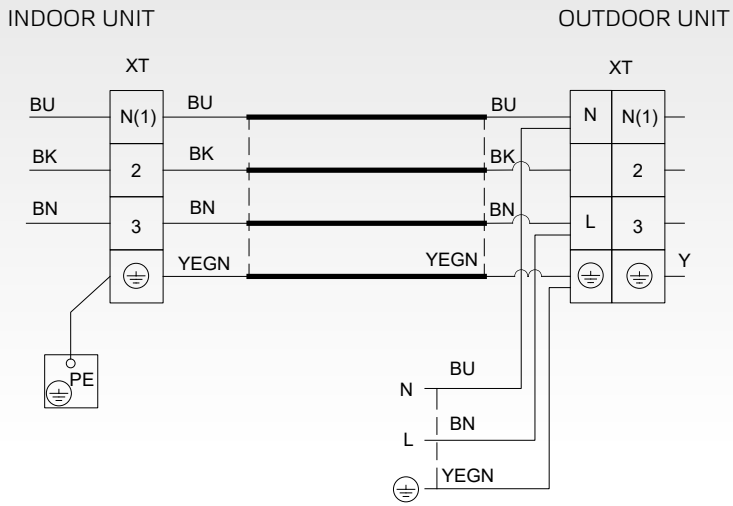
ASP-18BI



units: mm

ELECTRICAL WIRING DIAGRAM

CONSOLE SERIES



MULTI VARIABLE SERIES

MODEL			SIH-09BIM	SIH-12BIM	SIH-18BIM	SIH-24BIM
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,8-3,8) / 3,0 (0,9-4,3)	3,5 (0,9-4,4) / 3,8 (0,9-4,7)	5,3 (0,9-6,3) / 5,4 (1,1-7,0)	7,1 (1,8-7,8) / 7,3 (1,5-9,4)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow of ID	SH/MH/H/M/L/ML/SL	m ³ / h	610/570/540/470/440 /420/390	680/620/560/490/450 /420/390	1000/850/760/650/580 /520/450	1000/850/760/580/520 /450/400
Sound pressure level of ID at 1m 4)	SH/MH/H/M/L/ML/SL	dB(A)	38/37/34/31/26/23/22/19	41/38/36/33/30/27/25/19	45/42/40/37/34/29/26/23	48/44/41/40/38/36/33/27
Sound power of ID 4)	SH/MH/H/M/L/ML/SL	dB(A)	58/51/48/45/40/37/36	60/52/50/47/44/41/39	60/55/53/50/47/42/39	65/59/56/55/53/51/48
Dehumidifying volume		l / h	0,8	1,4	1,9	2,4
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0
Dimension of ID	w × h × d	mm	837×293×200	837×293×200	993×311×222	993×311×222
Package dimension of ID	w × h × d	mm	896×373×272	896×373×272	1055×385×298	1055×385×298
Weight of ID	netto / brutto	kg	9,5 / 11,5	9,5 / 11,5	12,5 / 15,0	13,0 / 15,5
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
UV-C technology	indoor		✓	✓	✓	✓
Plasma generator			✓	✓	✓	✓
WiFi module			✓	✓	✓	✓
Drain pump			-	-	-	-
Max. lift (from bottom of ID unit)		mm	-	-	-	-
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Left-right guide louvres			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			SAF-OPWC4, SAF-OPWB4			
Remote controller (IR)			YBE1F			
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			SAF-OPWA4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4			
Wired controller			SWC-02C, SWC-04C			
Central controller			SCC-36			
Other			G2S-T, SAI-01, SBG-01			

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

These indoor units may be combined with other indoor units from MULTI VARIABLE series, it is essential to follow combinations recommended in the combination table.

* Cross-section of each wire must correspond to the IEC 60364

MULTI VARIABLE SERIES

MODEL			SIH-09BIT	SIH-13BIT	SIH-18BIT2	SIH-24BIT2		
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 (0,8-3,8) / 3,0 (0,9-4,2)	3,5 (1,0-3,8) / 3,8 (0,9-4,7)	5,3 (1,3-6,6) / 5,6 (1,4-7,5)	7,1 (2,0-8,9) / 7,8 (1,8-9,5)		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Air flow of ID	SH/MH/H/ML/ML/SL	m ³ / h	610/570/540/470/440/420/390	700/650/600/540/480/420/360	850/750/680/610/570/520/460	1250/1100/1000/950/900/850/800/600		
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	38/36/34/31/29/27/25	42/38/35/32/29/27/25	47/41/39/37/35/32/31/21	50/47/43/41/40/36/35/27		
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	56/48/46/43/41/39/37	57/50/47/44/41/39/37	60/57/55/54/52/50/46/34	64/59/56/55/53/51/48/42		
Dehumidifying volume		l / h	0,8	1,4	1,9	2,4		
Refrigerant type		Type	R32	R32	R32	R32		
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0		
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0		
Dimension of ID	w × h × d	mm	889 × 294 × 212	889 × 294 × 212	1013 × 307 × 221	1122 × 329 × 247		
Package dimension of ID	w × h × d	mm	940 × 365 × 284	940 × 365 × 284	958 × 660 × 402	1177 × 406 × 332		
Weight of ID	netto / brutto	kg	11,0 / 13,0	11,0 / 13,0	13,5 / 15,5	16,5 / 19,5		
Set temperature range		°C	16-30	16-30	16-30	16-30		
ADDITIONAL TECHNICAL INFORMATION								
Communication cable		mm ²	4-wire cable *					
Recommended power cable		mm ²	Outdoor unit power supplied					
Recommended air switch		A	Outdoor unit power supplied					
EQUIPMENT								
Plasma generator	indoor		✓	✓	✓	✓		
WiFi module			✓	✓	✓	✓		
Drain pump			-	-	-	-		
Max. lift (from bottom of ID unit)		mm	-	-	-	-		
Door contact			✓	✓	✓	✓		
Alarm contact			-	-	-	-		
Fresh air inlet			-	-	-	-		
STANDARD ACCESSORIES								
Standard health filter			SAF-OPWC4, SAF-OPWB4					
Remote controller (IR)			YAC1FB9 (WiFi)					
Wired controller			-	-	-	-		
OPTIONAL ACCESSORIES								
Optional health filters			SAF-OPWA4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4					
Wired controller			SWC-02C, SWC-04C					
Central controller			SCC-36					
Other			G2S-T, SBG-01					

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Explanatory notes on the very last page of the catalogue.

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MULTI VARIABLE SERIES

MODEL			SIH-07BIK	SIH-09BIK	SIH-12BIK	SIH-18BIK	SIH-24BIK
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,2 (0,3-2,9) / 2,4 (0,6-2,9)	2,7 (0,6-3,4) / 2,8 (0,6-3,7)	3,2 (0,9-3,7) / 3,4 (0,9-4,1)	4,6 (1,0-5,3) / 5,2 (1,0-5,7)	6,2 (1,8-6,4) / 6,5 (1,6-6,6)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow of ID	SH/MH/H/M/L/ML/SL	m ³ / h	520/470/420/250	550/500/430/290	680/560/450/390	850/750/650/550	1100/950/750/650
Sound pressure level of ID at 1m 4)	SH/MH/H/M/L/ML/SL	dB(A)	39/37/33/22	40/38/34/23	41/36/32/23	48/41/37/31	48/44/40/35
Sound power of ID 4)	SH/MH/H/M/L/ML/SL	dB(A)	55/49/45/34	55/48/44/36	57/46/42/37	58/51/47/34	61/58/53/49
Dehumidifying volume		l / h	0,6	1,4	1,4	1,8	1,8
Refrigerant type		Type	R32	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 9,5	¾ / 9,5	½ / 12,0
Dimension of ID	w × h × d	mm	696 × 251 × 190	770 × 251 × 190	849 × 289 × 215	972 × 300 × 225	1081 × 325 × 248
Package dimension of ID	w × h × d	mm	747 × 324 × 262	822 × 324 × 262	902 × 357 × 279	1022 × 374 × 299	1137 × 407 × 334
Weight of ID	netto / brutto	kg	7,5 / 9,0	8,5 / 10,0	10,5 / 12,5	13,5 / 16,0	16,5 / 19,5
Set temperature range		°C	16-30	16-30	16-30	16-30	16-30

ADDITIONAL TECHNICAL INFORMATION

Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	Outdoor unit power supplied				
Recommended air switch		A	Outdoor unit power supplied				

EQUIPMENT

Plasma generator	indoor		✓	✓	✓	✓	✓
WiFi module			optional (via SWM-04)	✓	✓	✓	✓
Drain pump			-	-	-	-	-
Max. lift (from bottom of ID unit)		mm	-	-	-	-	-
Door contact			-	-	✓	✓	✓
Alarm contact			-	-	-	-	-
Fresh air inlet			-	-	-	-	-

STANDARD ACCESSORIES

Standard health filter			SAF-OPWC4, SAF-OPWA4				
Remote controller (IR)			YAP1F7 (WIFI)				
Wired controller			-	-	-	-	-

OPTIONAL ACCESSORIES

Optional health filters			SAF-OPWB4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			-	-	SWC-02C, SWC-04C		
Central controller			-	-	SCC-36		
Other			G2S-T			G2S-T, SBG-01	

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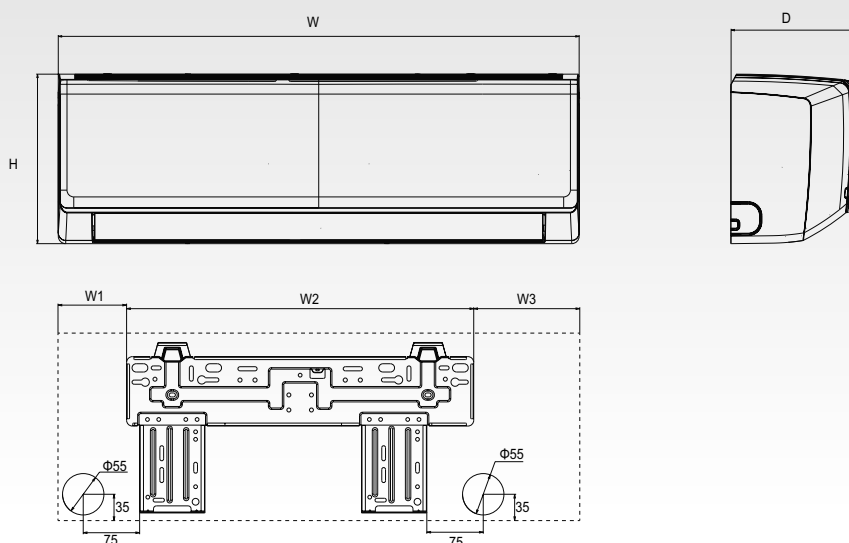
Explanatory notes on the very last page of the catalogue.

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* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

SIH-07BIK



	W	H	D	W1	W2	W3
SIH-07BIK	696	251	190	92	462	142

WALL MOUNTED AIR CONDITIONERS RAY

MULTI VARIABLE SERIES

MODEL			SIH-09BIR	SIH-12BIR3	SIH-18BIR	SIH-24BIR
Capacity cooling / heating 1)	Nominal (min-max)	kW	2,7 / 2,8	3,2 / 3,4	4,6 (1,0-5,3) / 5,2 (1,0-5,6)	6,2 (1,8-6,9) / 6,5 (1,3-7,0)
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow of ID	SH/MH/H/ML/ML/SL	m ³ / h	550/500/430/290	680/560/450/390	850/800/700/600	900/800/600/400
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	40/38/34/23	42/36/32/23	48/42/38/31	48/45/37/26
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	55/48/44/36	57/49/44/37	58/52/48/34	58/55/47/36
Dehumidifying volume		l / h	1,4	1,4	1,8	1,8
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 9,5	½ / 12,0
Dimension of ID	w × h × d	mm	773 × 250 × 185	849 × 289 × 215	970 × 300 × 225	970 × 300 × 225
Package dimension of ID	w × h × d	mm	822 × 322 × 255	902 × 357 × 279	1020 × 369 × 295	1020 × 369 × 295
Weight of ID	netto / brutto	kg	8,5 / 9,5	10,5 / 12,5	13,5 / 16,0	13,0 / 15,5
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator	indoor		✓	✓	✓	✓
WiFi module			Optional (SWM-04)			
Drain pump			-	-	-	-
Max. lift (from bottom of ID unit)		mm	-	-	-	-
Door contact			-	-	-	-
Alarm contact			-	-	-	-
Fresh air inlet			-	-	-	-
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAW1F5 (WiFi)			
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			SAF-OPWA4, SAF-OPWB4, SAF-OPWC4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4			
Wired controller			-	-	-	-
Central controller			-	-	-	-
Other			G2S-T, SWM-04			

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

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CONSOLE INDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-P09BI	MV-P12BI	MV-P18BI		
Capacity cooling / heating 1)	Nominal	kW	2,7 / 2,8	3,5 / 3,8	5,2 / 5,3		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Air flow of ID	SH/MH/H/ML/ML/SL	m ³ / h	500/430/410/370/330/280/250	600/520/480/440/400/360/280	700/650/580/520/460/410/320		
Sound pressure level of ID at 1m 4)	SH/MH/H/ML/ML/SL	dB(A)	39/36/33/31/29/26/22	44/40/38/36/33/29/25	47/45/42/40/37/35/31		
Sound power of ID 4)	SH/MH/H/ML/ML/SL	dB(A)	50/48/45/44/42/38/34	54/50/48/46/43/39/35	57/55/52/50/47/45/41		
Dehumidifying volume		l / h	0,8	1,2	1,8		
Refrigerant type		Type	R32	R32	R32		
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0		
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	¾ / 12,0		
Dimension of ID	w × h × d	mm	700 × 600 × 215	700 × 600 × 215	700 × 600 × 215		
Package dimension of ID	w × h × d	mm	788 × 685 × 295	788 × 685 × 295	788 × 697 × 283		
Weight of ID	netto / brutto	kg	15,5 / 18,5	15,5 / 18,5	15,5 / 18,5		
Set temperature range		°C	16-30	16-30	16-30		
ADDITIONAL TECHNICAL INFORMATION							
Communication cable		mm ²	4-wire cable *				
Recommended power cable 11)		mm ²	Outdoor unit power supplied				
Recommended air switch		A	Outdoor unit power supplied				
EQUIPMENT							
Plasma generator			✓	✓	✓		
WiFi module			✓	✓	✓		
Drain pump			-	-	-		
Max. lift (from bottom of ID unit)		mm	-	-	-		
Door contact			-	-	-		
Alarm contact			-	-	-		
Fresh air inlet			-	-	-		
STANDARD ACCESSORIES							
Standard health filter			SAF-OPWC1, SAF-OPWA1				
Remote controller (IR)			YAA1FB8	YAA1FB8	YAA1FB8		
Wired controller			-	-	-		
OPTIONAL ACCESSORIES							
Optional health filters			SAF-OPWB4, SAF-OPWK4, SAF-OPWM4, SAF-OPWP4, SAF-OPWS4				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SBG-01				

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

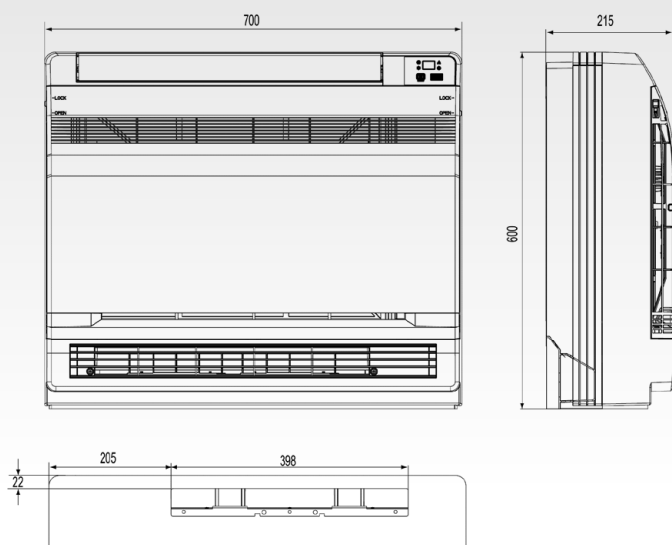
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APPEARANCE AND DIMENSIONS OF INDOOR UNIT



units: mm

FLOOR CEILING INDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-F09BI	MV-F12BI	MV-F18BI	MV-F24BI	
Capacity cooling / heating 1)	Nominal	kW	2,6 / 2,7	3,5 / 4,0	4,5 / 5,0	7,1 / 8,0	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Air flow of ID	SH/H/M/L	m ³ / h	700/610/540/420	700/610/540/420	680/590/520/410	950/870/800/720	
Sound pressure level of ID at 1m 4)	SH/H/M/L	dB(A)	38/35/30/26	38/35/30/26	38/35/30/26	38/35/30/26	
Sound power of ID 4)	SH/H/M/L	dB(A)	52/49/44/40	52/49/44/40	52/49/44/40	52/49/44/41	
Dehumidifying volume		l / h	0,8	1,4	1,8	2,5	
Refrigerant type		Type	R32	R32	R32	R32	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¾ / 9,5	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	½ / 12,0	½ / 12,0	¾ / 16,0	
Dimension of ID	w × h × d	mm	870 × 665 × 235	870 × 665 × 235	870 × 665 × 235	1200 × 665 × 235	
Package dimension of ID	w × h × d	mm	1033 × 770 × 300	1033 × 770 × 300	1033 × 770 × 300	1363 × 770 × 300	
Weight of ID	netto / brutto	kg	25,0 / 30,0	25,0 / 30,0	25,5 / 30,5	33,0 / 40,0	
Set temperature range		°C	16-30	16-30	16-30	16-30	
ADDITIONAL TECHNICAL INFORMATION							
Communication cable		mm ²	4-wire cable *				
Recommended power cable 11)		mm ²	Outdoor unit power supplied				
Recommended air switch		A	Outdoor unit power supplied				
EQUIPMENT							
Plasma generator			-	-	-	-	
WiFi module			optional (via SWC-04)	optional (via SWC-04)	optional (via SWC-04)	optional (via SWC-04)	
Drain pump			-	-	-	-	
Max. lift (from bottom of ID unit)		mm	-	-	-	-	
Door contact			✓	✓	✓	✓	
Alarm contact			-	-	-	-	
Fresh air inlet			-	-	-	-	
STANDARD ACCESSORIES							
Standard health filter			-	-	-	-	
Remote controller (IR)			YT1F	YT1F	YT1F	YT1F	
Wired controller			-	-	-	-	
OPTIONAL ACCESSORIES							
Optional health filters			-				
Wired controller			SWC-02C, SWC-04C				
Central controller			SCC-36				
Other			G2S-T, SBG-01				

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

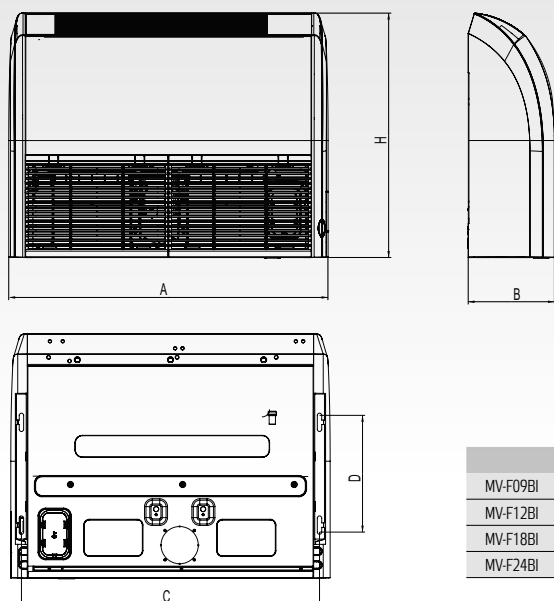
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Explanatory notes on the very last page of the catalogue.

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* Průřez jednotlivých vodičů musí být volen s ohledem na IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT



	A	B	C	D	H
MV-F09BI					
MV-F12BI	870	235	812	318	665
MV-F18BI					
MV-F24BI	1200	235	1142	318	665

units: mm

CASSETTE INDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-C12BI2	MV-C18BI2	MV-C24BI2		
Capacity cooling / heating 1)	Nominal	kW	3,5 / 4,0	5,0 / 5,5	7,0 / 8,0		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Air flow of ID	SH/H/M/L	m ³ / h	560/490/420/350	650/490/420/350	1100/950/870/800		
Sound pressure level of ID at 1,4m 4)	SH/H/M/L	dB(A)	41/36/32/28	43/36/32/28	46/42/39/37		
Sound power of ID 4)	SH/H/M/L	dB(A)	57/52/48/44	59/52/48/44	61/59/57/55		
Dehumidifying volume		l / h	1,4	1,8	2,5		
Refrigerant type		Type	R32	R32	R32		
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0		
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 12,0	¾ / 16,0		
Dimension of ID	w × h × d	mm	570 × 265 × 570	570 × 265 × 570	840 × 240 × 840		
Dimension of panel	w × h × d	mm	620 × 47,5 × 620	620 × 47,5 × 620	950 × 52 × 950		
Package dimension of ID	w × h × d	mm	698 × 295 × 653	698 × 295 × 653	963 × 325 × 963		
Package dimension of panel	w × h × d	mm	701 × 125 × 701	701 × 125 × 701	1033 × 112 × 1038		
Weight of ID	netto / brutto	kg	17,0 / 22,0	17,0 / 22,0	29,0 / 36,0		
Weight of panel	netto / brutto	kg	3,0 / 4,0	3,0 / 4,0	6,0 / 9,5		
Set temperature range		°C	16-30	16-30	16-30		
ADDITIONAL TECHNICAL INFORMATION							
Communication cable		mm ²	4-wire cable *				
Recommended power cable 11)		mm ²	Outdoor unit power supplied				
Recommended air switch		A	Outdoor unit power supplied				
EQUIPMENT							
Plasma generator			-	-	-		
WiFi module			optional (via SWC-04)	optional (via SWC-04)	optional (via SWC-04)		
Drain pump			✓	✓	✓		
Max. lift (from bottom of ID unit)		mm	1 000	1 000	1 000		
Door contact			✓	✓	✓		
Alarm contact			-	-	-		
Fresh air inlet			✓	✓	✓		
Decorative panel			✓	✓	✓		
STANDARD ACCESSORIES							
Standard health filter			-	-	-		
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7		
Wired controller			-	-	-		
OPTIONAL ACCESSORIES							
Optional health filter				-			
Wired controller				SWC-02C, SWC-04C			
Central controller				SCC-36			
Other				G2S-T, 5BG-01			

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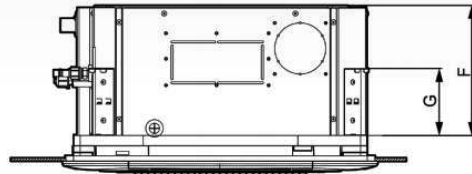
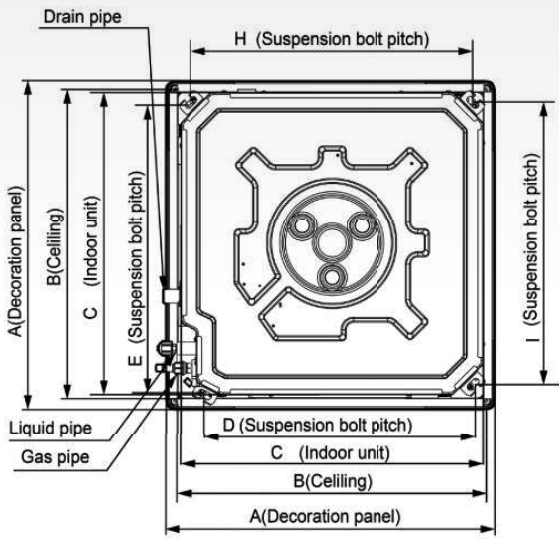
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APPEARANCE AND DIMENSIONS OF INDOOR UNIT

MULTI VARIABLE SERIES

MV-C12BI2

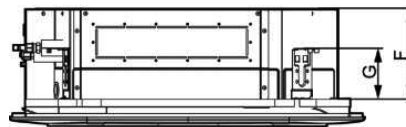
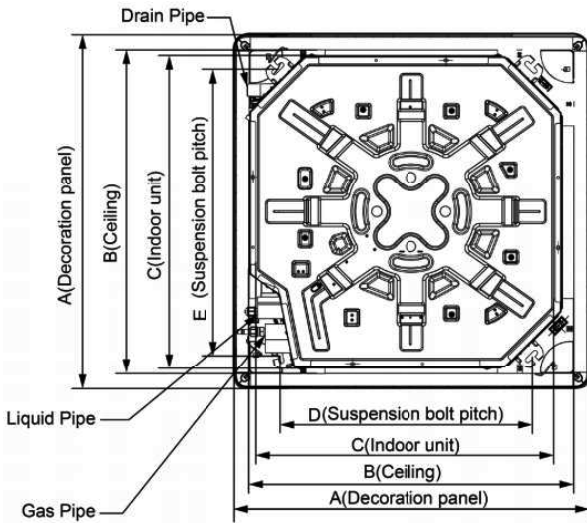
MV-C18BI2



Model	A	B	C	D	E	F	G	H	I
MV-C12BI2	620	580	570	505	550	265	140	530	530
MV-C18BI2	620	580	570	505	550	265	140	530	530

units: mm

MV-C24BI2



Model	A	B	C	D	E	F	G
MV-C24BI2	950	870	840	680	780	240	135

units: mm

DUCT INDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-D09B12	MV-D12B12	MV-D18B12	MV-D24B12
Capacity cooling / heating 1)	Nominal	kW	2,7 / 2,8	3,5 / 4,0	5,0 / 5,5	7,0 / 8,0
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Air flow of ID	SH/H/M/L	m ³ / h	560/450/340/220	600/540/420/300	800/720/610/420	1300/1200/1000/900
Sound pressure level of ID at 1,4m 4)	SH/H/M/L	dB(A)	32/28/25/22	36/34/31/27	36/31/28/25	46/42/40/36
Sound power of ID 4)	SH/H/M/L	dB(A)	47/43/40/37	51/49/46/42	51/46/43/40	61/57/55/51
External static pressure	nom / min-max	Pa	0-10	0-10	0-10	0-40
Dehumidifying volume		l / h	0,8	1,4	1,8	2,5
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0
Dimension of ID	w × h × d	mm	710 × 200 × 450	710 × 200 × 450	1010 × 200 × 450	900 × 260 × 655
Package dimension of ID	w × h × d	mm	1008 × 275 × 568	1008 × 275 × 568	1308 × 275 × 568	1115 × 320 × 772
Weight of ID	netto / brutto	kg	18,5 / 22,5	19,0 / 23,0	25,0 / 30,0	31,0 / 36,0
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²			4-wire cable *	
Recommended power cable 11)		mm ²			Outdoor unit power supplied	
Recommended air switch		A			Outdoor unit power supplied	
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module			✓ (via SWC-04C)	✓ (via SWC-04C)	✓ (via SWC-04C)	✓ (via SWC-04C)
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			SWC-04C	SWC-04C	SWC-04C	SWC-04C
OPTIONAL ACCESSORIES						
Optional health filters						
Wired controller				SWC-02C		
Central controller				SCC-36		
Other				G2S-T, SBG-01		

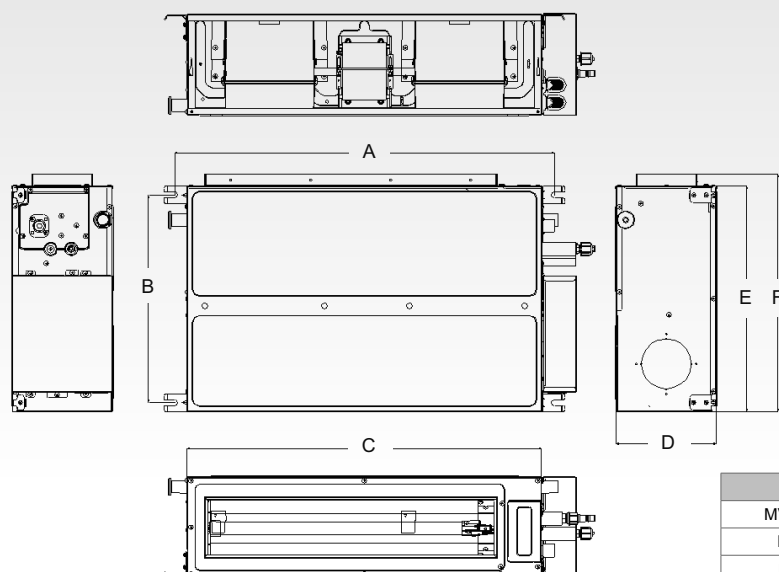
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APPEARANCE AND DIMENSIONS OF INDOOR UNIT



Model	A	B	C	D	E	F
MV-D09/12B12	760	415	710	200	450	474
MV-D18B12	1060	415	1010	200	450	474
MV-D24B12	942	530	900	260	655	685

DUCT INDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-D09BIP	MV-D12BIP	MV-D18BIP	MV-D24BIP	
Capacity cooling / heating 1)	Nominal	kW	2,7 / 2,8	3,5 / 4,0	5,0 / 5,5	7,0 / 8,0	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Air flow of ID	SH/H/M/L	m ³ / h	700/670/640/610/ 580/550/520	650/560/520/480/ 450/410/380	880/840/810/790/ 770/750/730	1500/1200/1200/1000/ 1000/900/900	
Sound pressure level of ID at 1,4m 4)	SH/H/M/L	dB(A)	41/39/38/37/36/35/34	39/37/36/35/34/33/32	41/39/39/38/38/37/34	45/40/40/38/38/36/36	
Sound power of ID 4)	SH/H/M/L	dB(A)	57/55/54/53/52/51/50	55/53/52/51/50/49/48	57/55/55/54/54/53/50	62/57/57/55/55/53/53	
External static pressure	nom / min-max	Pa	25-60	25-60	25-60	25-125	
Dehumidifying volume		l / h	0,8	1,4	1,8	2,5	
Refrigerant type		Type	R32	R32	R32	R32	
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,0	¼ / 6,0	¼ / 6,0	¼ / 6,0	
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	¾ / 9,5	½ / 12,0	¾ / 16,0	
Dimension of ID	w × h × d	mm	710×200×450	710×200×450	1010×200×450	900×260×655	
Package dimension of ID	w × h × d	mm	1008×275×568	1008×275×568	1308×275×568	1115×320×772	
Weight of ID	netto / brutto	kg	18,5 / 22,5	19,0 / 23,0	25,0 / 30,0	31,0 / 36,0	
Set temperature range		°C	16-30	16-30	16-30	16-30	

ADDITIONAL TECHNICAL INFORMATION

Communication cable		mm ²	4-wire cable *			
Recommended power cable 11)		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			

EQUIPMENT

Plasma generator			-	-	-	-
WiFi module			✓ (via SWC-04C)	✓ (via SWC-04C)	✓ (via SWC-04C)	✓ (via SWC-04C)
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			-	-	-	-

STANDARD ACCESSORIES

Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			SWC-04C	SWC-04C	SWC-04C	SWC-04C

OPTIONAL ACCESSORIES

Optional health filters			-			
Wired controller			SWC-02C			
Central controller			SCC-36			
Other			G2S-T, SBG-01			

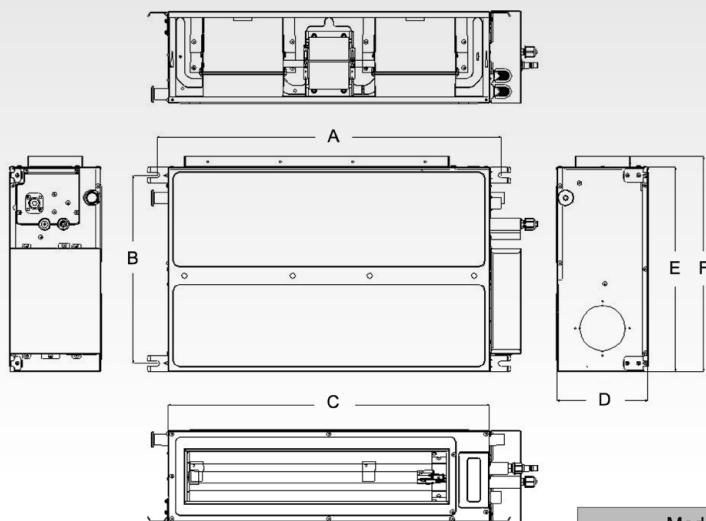
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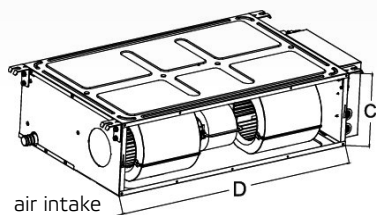
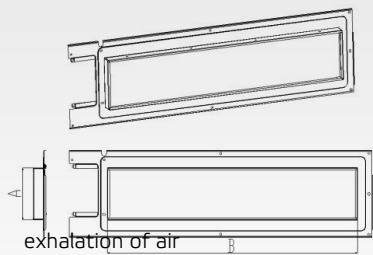
APPEARANCE AND DIMENSIONS OF INDOOR UNIT



Model	A	B	C	D	E	F
MV-D09BIP / MV-D12BIP	760	415	710	200	450	474
MV-D18BIP	1060	415	1010	200	450	474
MV-D24BIP	942	530	900	260	655	685

units: mm

DIMENSIONS OF EXHAUST AND AIR INTAKE CONNECTIONS



	Air outlet dimensions		Air intake dimensions	
	A	B	C	D
MV-D09BI2 / MV-D12BI2	122	585	200	710
MV-D18BI2	122	885	200	1010
MV-D24BI2	219	743	260	900

	Air outlet dimensions		Air intake dimensions	
	A	B	C	D
MV-D09BIP / MV-D12BIP	122	585	200	710
MV-D18BIP	122	885	200	1010
MV-D24BIP	219	743	260	900

units: mm

OUTDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-E14BI2	MV-E18BI2	MV-E21BI2	MV-E24BI2	
Qty of connectable indoor units			1-2	1-2	2-3	2-3	
Capacity cooling / heating 1)	Nominal (min-max)	kW	4,1 (2,1-4,4) / 4,4 (2,5-5,4)	5,3 (2,1-5,8) / 5,7 (2,6-6,0)	6,1 (2,2-7,3) / 6,5 (3,6-8,5)	7,1 (2,3-8,5) / 8,6 (3,7-8,8)	
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	
Power input cooling / heating 1)		W	1100 / 970	1480 / 1250	1480 / 1430	1880 / 2230	
Maximal power input 2)		W	2250	2500	2900	3400	
Power current cooling / heating		A	4,9 / 4,4	6,6 / 5,6	6,6 / 6,3	8,4 / 9,9	
Maximal power current 2)		A	10,0	11,0	12,9	14,6	
Energy class cooling 3)			-	-	-	-	
Air flow of OD	H	m ³ / h	2300	2300	3800	3800	
Sound pressure level of OD at 1m 4)	H	dB(A)	52	54	58	58	
Sound power of OD 4)	H	dB(A)	62	64	68	68	
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,75 / 0,51	R32 / 0,90 / 0,60	R32 / 1,60 / 1,08	R32 / 1,70 / 1,14	
Additional refrigerant		g / m	20	20	20	20	
Pipe diameter - liquid side 5)		qty x mm	2 x 6,0	2 x 6,0	3 x 6,0	3 x 6,0	
Pipe diameter - gas side 5)		qty x mm	2 x 9,5	2 x 9,5	3 x 9,5	3 x 9,5	
Max pipe length without additional refrigerant 6)		m	10	10	30	30	
Maximal pipe length to 1 indoor unit 9)		m	20	20	20	20	
Maximal total pipe length 7)		m	40	40	60	60	
Max. elevation / Drop height		m	15	15	15	15	
Dimension of OD	w x h x d	mm	822 x 550 x 352	822 x 550 x 352	964 x 660 x 402	964 x 660 x 402	
Package dimension of OD	w x h x d	mm	872 x 620 x 398	872 x 620 x 398	1032 x 737 x 456	1032 x 737 x 456	
Weight of OD	netto / brutto	kg	30,0 / 32,5	32,0 / 34,5	47,5 / 52,0	47,5 / 52,0	
Operating temperature range (cooling) 8)	Cooling	°C	-15-43	-15-43	-15-43	-15-43	
Operating temperature range (heating) 8)	Heating	°C	-22-24	-22-24	-22-24	-22-24	
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w x d	mm	512 x 332	512 x 332	570 x 371	570 x 371	
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 x 1,5	3 x 1,5	3 x 2,5	3 x 2,5	
Recommended air switch		A	13	13	16	16	
EQUIPMENT							
Throttling method			EXV	EXV	EXV	EXV	
Bottom chassis heater			Heating belt	Heating belt	Heating belt	Heating belt	
Crankcase heater			✓	✓	✓	✓	
Bottom plugs for OD			✓	✓	✓	✓	
Drain pipe connector			✓	✓	✓	✓	
Pipe reduction			✓	✓	✓	✓	

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

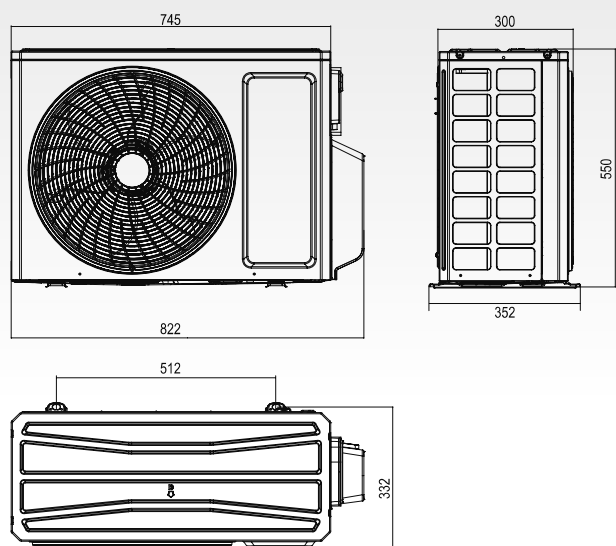
Explanatory notes on the very last page of the catalogue.

May not be used separately, must be combined with indoor units from Multi Variable (MV) series.

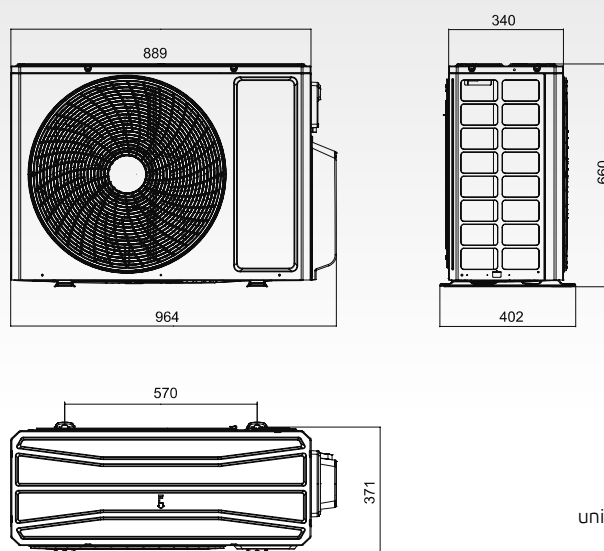
* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

MV-E14BI2, MV-E18BI2



MV-E21BI2, MV-E24BI2



units: mm

OUTDOOR UNITS

MULTI VARIABLE SERIES

MODEL			MV-E28BI2	MV-E36BI2	MV-E42BI2		
Qty of connectable indoor units			2-4	2-4	2-5		
Capacity cooling / heating 1)	Nominal (min-max)	kW	8,0 (2,3-10,3) / 9,5 (3,7-10,3)	10,6 (2,6-12,0) / 12,0 (3,0-14,0)	12,1 (2,6-15,2) / 13,0 (3,0-15,5)		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Power input cooling / heating 1)		W	2120 / 2200	3000 / 3040	3400 / 3190		
Maximal power input 2)		W	3600	5000	5000		
Power current cooling / heating		A	9,4 / 9,8	13,3 / 13,5	15,1 / 14,2		
Maximal power current 2)		A	15,9	21,7	21,7		
Energy class cooling 3)			See table below	See table below	See table below		
Air flow of OD	H	m ³ / h	3800	5800	5800		
Sound pressure level of OD at 1m 4)	H	dB(A)	58	60	60		
Sound power of OD 4)	H	dB(A)	68	70	72		
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 1,80 / 1,21	R32 / 2,40 / 1,62	R32 / 2,40 / 1,62		
Additional refrigerant		g / m	20	20	20		
Pipe diameter - liquid side 5)		qty x mm	4 x 6,0	4 x 6,0	5 x 6,0		
Pipe diameter - gas side 5)		qty x mm	4 x 9,5	4 x 9,5	5 x 9,5		
Max pipe length without additional refrigerant 6)		m	40	40	50		
Maximal pipe length to 1 indoor unit 9)		m	20	25	25		
Maximal total pipe length 7)		m	70	80	100		
Max. elevation / Drop height		m	15	25	25		
Dimension of OD	w x h x d	mm	964 x 660 x 402	1020 x 826 x 427	1020 x 826 x 427		
Package dimension of OD	w x h x d	mm	1032 x 737 x 456	1093 x 885 x 497	1093 x 885 x 497		
Weight of OD	netto / brutto	kg	51,0 / 55,5	72,0 / 79,0	73,0 / 80,0		
Operating temperature range (cooling 8)	Cooling	°C	-15-43	-15-43	-15-43		
Operating temperature range (heating 8)	Heating	°C	-22-24	-22-24	-22-24		
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w x d	mm	570 x 371	635 x 396	635 x 396		
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 x 4,0	3 x 6,0	3 x 6,0		
Recommended air switch		A	20	25	25		
EQUIPMENT							
Throttling method			EXV	EXV	EXV		
Bottom chassis heater			Heating belt	Heating belt	Heating belt		
Crankcase heater			✓	✓	✓		
Bottom plugs for OD			✓	✓	✓		
Drain pipe connector			✓	✓	✓		
Pipe reduction			✓	✓	✓		

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

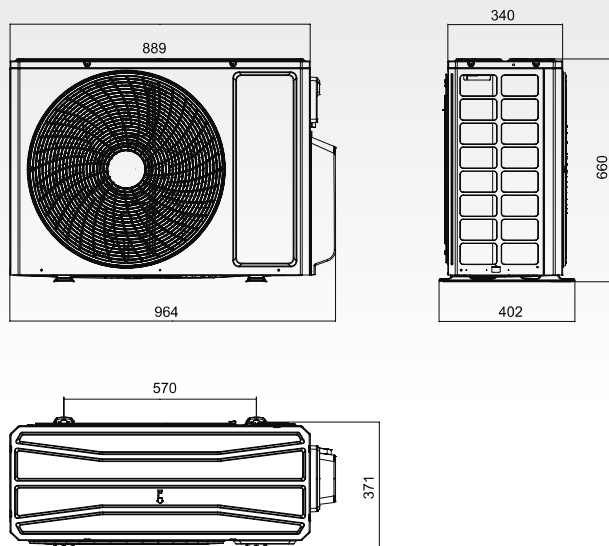
Explanatory notes on the very last page of the catalogue.

May not be used separately, must be combined with indoor units from Multi Variable (MV) series.

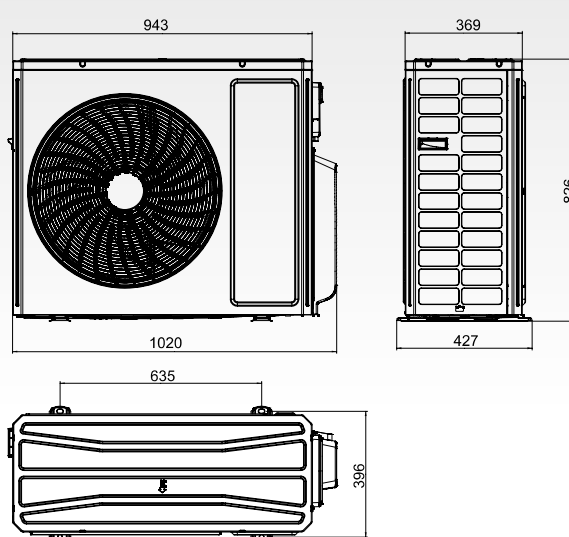
* Cross-section of each wire must correspond to the IEC 60364

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

MV-E28BI2



MV-E36BI2, MV-E42BI2



units: mm

OUTDOOR UNITS

MULTI VARIABLE SERIES

COMBINATION TABLES

(unit: x1000Btu/h)

MV-E14BI2		MV-E21BI2		MV-E24BI2			MV-E28BI2
1 UNIT	2 UNITS	2 UNITS	3 UNITS	2 UNITS	3 UNITS		2 UNITS
N/A	7+7	7+7	7+7+7	7+7	7+7+7	7+7+18	7+7
N/A	7+12	7+12	7+7+12	7+12	9+9+12	7+9+18	7+12
N/A	7+9	9+9	7+7+9	9+9	7+7+9	12+12+12*	9+9
N/A	9+9	7+9	7+9+9	9+18	7+9+9	7+12+12	9+18
N/A	9+12	7+18	9+9+9	12+18	7+7+12	9+9+18*	12+18
MV-E18BI2		9+12	7+9+12	7+9	7+9+12	9+12+12*	7+9
1 UNIT	2 UNITS	9+18	7+12+12	7+18	9+9+9		7+18
N/A	7+7	12+12	9+9+12	9+12			9+12
N/A	7+12	12+18	12+12+12*	12+12			12+12
N/A	9+12			18+18			18+18
N/A	7+9						
N/A	9+9						
MV-E28BI2		MV-E36BI2					
3 UNITS		4 UNITS		2 UNITS		3 UNITS	
7+7+7	7+12+18	7+7+7+7	7+7	9+24	7+7+7	7+12+18	9+12+18
7+7+9	9+9+9	7+7+7+9	7+9	12+12	7+7+9	7+12+24	9+12+24
7+7+12	9+9+12	7+7+9+9	7+12	12+18	7+7+12	7+18+18	9+18+18
7+7+18	9+9+18	9+9+9+9	7+18	12+24	7+7+18	7+18+24*	9+18+24*
7+9+9	9+12+18	7+7+7+12	7+24	18+18	7+7+24	9+9+9	12+12+12
7+9+12	9+12+12	7+7+9+12	9+9	18+24	7+9+9	9+9+12	12+12+18
7+9+18	12+12+12	7+9+9+9	9+12	24+24*	7+9+12	9+9+18	12+12+24
7+12+12	12+12+18	7+7+7+18	9+18		7+9+18	9+9+24	12+18+18
		7+7+9+18			7+9+24	9+12+12	18+18+18*
		7+9+9+12			7+12+12		
		9+9+12+12					
		7+7+12+12					
		9+9+9+12					
MV-E36BI2		MV-E42BI2					
4 UNITS		2 UNITS		3 UNITS			
7+7+7+7	7+7+18+18*	9+9+9+9	7+7	9+24	7+7+7	7+12+24	9+18+18
7+7+7+9	7+9+9+9	9+9+9+12	7+9	12+12	7+7+9	7+18+18	9+18+24
7+7+7+12	7+9+9+12	9+9+9+18	7+12	12+18	7+7+12	7+18+24	9+24+24
7+7+7+18	7+9+9+18	9+9+12+12	7+18	12+24	7+7+18	7+24+24	12+12+12
7+7+7+24	7+9+9+24*	9+12+12+12	7+24	18+18	7+7+24	9+9+9	12+12+18
7+7+9+9	7+9+12+12	9+9+9+24*	9+9	18+24	7+9+9	9+9+12	12+12+24
7+7+9+12	7+9+12+18	9+9+12+18	9+12	24+24	7+9+12	9+9+18	12+18+18
7+7+9+18	7+9+18+18*	9+9+18+18*	9+18		7+9+18	9+9+24	12+18+24
7+7+9+24	7+12+12+12	9+12+12+18*			7+9+24	9+12+12	18+18+18
7+7+12+12	7+12+12+18	12+12+12+12			7+12+12	9+12+18	12+24+24*
7+7+12+18					7+12+18	9+12+24	18+18+24
7+7+12+24							
MV-E42BI2		5 UNITS					
4 UNITS		5 UNITS					
7+7+7+7	7+7+18+18	9+9+9+12	7+9+18+24	7+7+7+7+7	7+7+9+9+12	9+9+9+9+18	7+9+9+12+18
7+7+7+9	7+9+9+9	9+9+9+18	7+12+12+24	7+7+7+7+9	7+7+9+9+18	9+9+9+12+12	7+9+9+12+24*
7+7+7+12	7+9+9+12	9+9+9+24	7+12+18+18	7+7+7+7+12	7+7+9+12+12	9+9+12+12+12	7+9+9+18+18
7+7+7+18	7+9+9+18	9+9+12+12	7+12+18+24	7+7+7+7+18	7+7+9+12+18	9+9+12+12+18*	7+9+12+12+18
7+7+7+24	7+9+9+24	9+9+12+18	7+18+18+18	7+7+7+7+24	7+7+12+12+12	7+7+7+12+24	7+12+12+12+12
7+7+9+9	7+9+12+12	9+9+12+24	9+9+18+24	7+7+7+9+9	7+9+9+9+9	7+7+7+18+18	7+12+12+12+18
7+7+9+12	7+9+12+18	9+9+18+18	9+12+12+24	7+7+7+9+12	7+9+9+9+12	7+7+9+9+24	9+9+9+9+24
7+7+9+18	7+9+12+24*	9+12+12+12*	9+12+18+18	7+7+7+9+18	7+9+9+9+18	7+7+9+12+24	9+9+9+12+18
7+7+9+24	7+9+18+18	9+12+12+18	9+18+18+18	7+7+7+9+24	7+9+9+12+12	7+7+9+18+18	9+9+9+18+18*
7+7+12+12	7+12+12+12	12+12+12+12	12+12+18+18	7+7+7+12+12	7+9+12+12+12	7+7+12+12+18	9+12+12+12+12
7+7+12+18	7+12+12+18	12+12+12+18	12+12+12+24	7+7+7+12+18	9+9+9+9+9	7+7+12+18+18	9+12+12+12+18*
7+7+12+24	9+9+9+9	7+7+18+24		7+7+9+9+9	9+9+9+9+12	7+9+9+9+24	12+12+12+12+12

*This combinations of indoor units capacities exceed 130% of maximum capacity of the outdoor unit.

OUTDOOR UNITS

MULTI VARIABLE SERIES

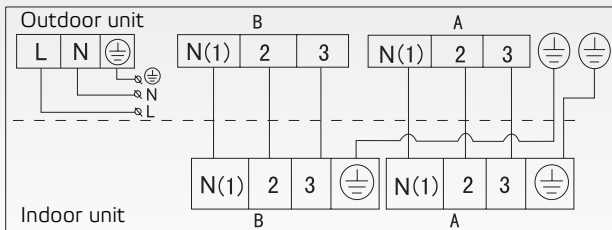
ENERGY CLASS INFORMATION

COOLING					
Outdoor unit	Indoor unit	Energy class	Pdesign cooling (kW)	SEER	Annual power consumption (kWh/a)
MV-E14BI2	2x SIH-09BIT	A++	4,1	7,2	199
MV-E18BI2	2x SIH-09BIT	A++	5,3	6,6	281
MV-E21BI2	3x SIH-09BIT	A++	6,1	7,8	273
MV-E24BI2	3x SIH-09BIT	A++	7,1	7,1	350
MV-E28BI2	4x SIH-09BIT	A++	8,0	7,2	388
MV-E36BI2	4x ASH-09BIS/W	A++	10,6	7,2	515
MV-E42BI2	not available for units with rated capacity >12kW				
HEATING-AVERAGE CLIMATE					
Outdoor unit	Indoor unit	Energy class	Pdesign heating (kW)	SCOP	Annual power consumption (kWh/a)
MV-E14BI2	2x SIH-09BIT	A+	3,8	4,2	1266
MV-E18BI2	2x SIH-09BIT	A+	4,3	4,0	1505
MV-E21BI2	3x SIH-09BIT	A+	6,1	4,3	1986
MV-E24BI2	3x SIH-09BIT	A+	6,1	4,3	1986
MV-E28BI2	4x SIH-09BIT	A+	7,2	4,2	2400
MV-E36BI2	4x ASH-09BIS/W	A+	10,5	4,0	3675
MV-E42BI2	not available for units with rated capacity >12kW				

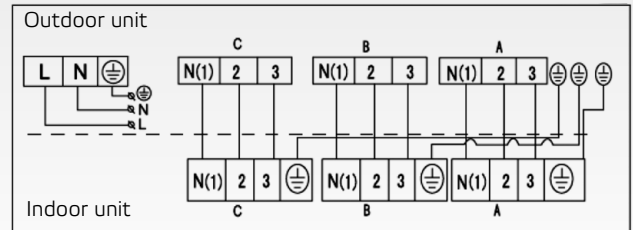
ELECTRICAL WIRING DIAGRAM

MULTI VARIABLE SERIES

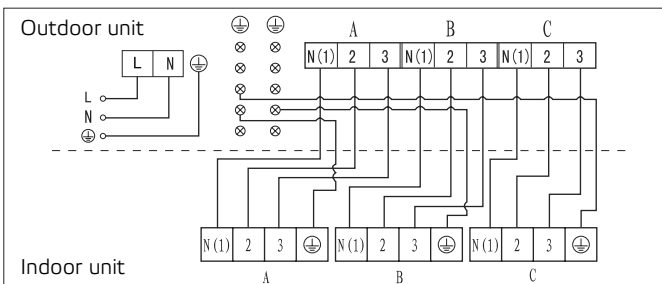
MV-E14BI2, MV-E18BI2



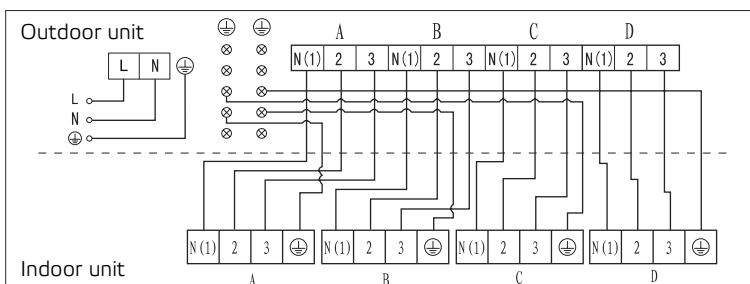
MV-E21BI2



MV-E24BI2



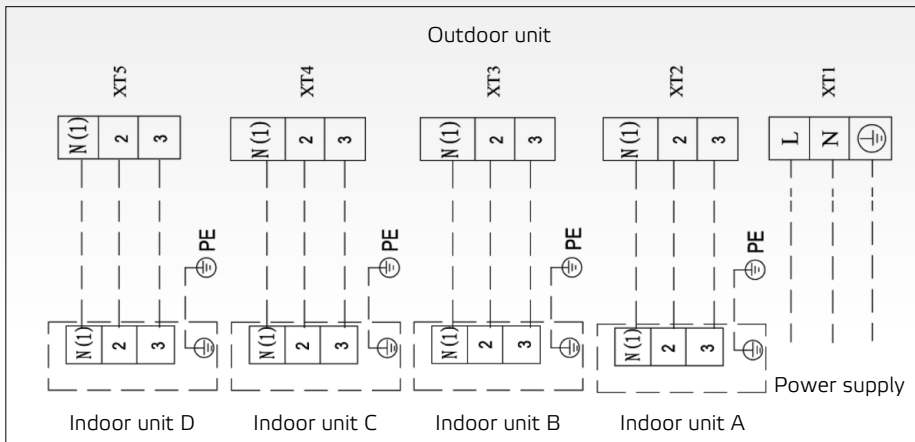
MV-E28BI2



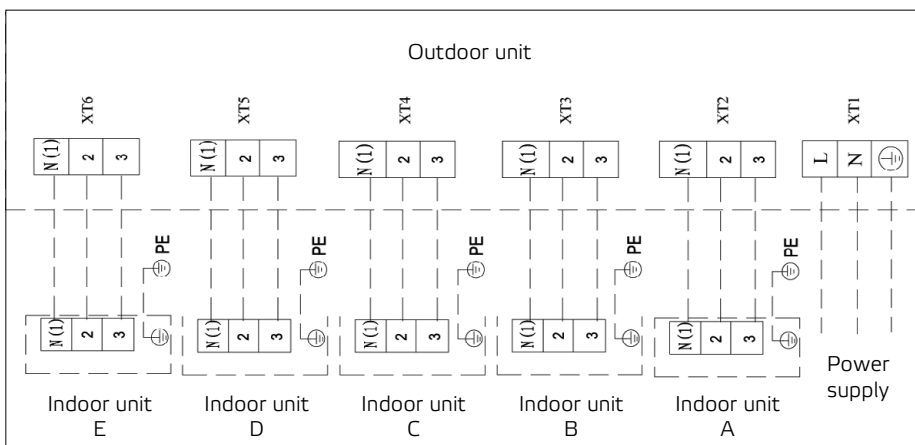
ELECTRICAL WIRING DIAGRAM

MULTI VARIABLE SERIES

MV-E36BI2



MV-E42BI2



OUTDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASGE-12BI2	ASGE-18BI2	ASGE-24BI2	ASGE-30BI2
Capacity cooling / heating 1)	Nominal (min-max)	kW	3,5 / 4,0	5,3 / 5,8	7,1 / 8,0	8,5 / 8,8
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Power input cooling / heating 1)		W	1030 / 1000	1560 / 1470	2030 / 2000	2500 / 2250
Maximal power input 2)		W	1300	1900	2800	3300
Power current cooling / heating		A	4,9 / 4,8	7,5 / 7,0	9,7 / 9,6	11,4 / 10,3
Maximal power current 2)		A	6,0	9,5	14,0	15,0
Air flow of OD	H	m ³ / h	1800	2200	3600	3600
Sound pressure of OD at 1m 4)	H	dB(A)	48	52	55	57
Sound power of OD 4)	H	dB(A)	56	65	69	70
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,57 / 0,38	R32 / 0,85 / 0,57	R32 / 1,5 / 1,01	R32 / 1,5 / 1,01
Additional refrigerant		g / m	16	16	20	20
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,4	¼ / 6,4	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	½ / 12,7	¾ / 15,9	¾ / 15,9
Max pipe length without additional refrigerant 6)		m	5	5	5	5
Allowed pipe length 7)	min / max	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. elevation / Drop height		m	15	20	20	25
Dimension of OD	w × h × d	mm	675 × 553 × 285	745 × 555 × 300	889 × 660 × 340	889 × 660 × 340
Package dimension of OD	w × h × d	mm	794 × 605 × 376	872 × 609 × 398	1032 × 730 × 456	1032 × 730 × 456
Weight of OD	netto / brutto	kg	24,5 / 27,0	30,5 / 33,0	41,5 / 45,0	46,0 / 50,0
Operating temperature range cooling 8)		°C	-20~52	-20~52	-20~52	-20~52
Operating temperature range heating 8)		°C	-20~24	-20~24	-20~24	-20~24
ADDITIONAL TECHNICAL INFORMATION						
Screw holes distance of OD	w × d	mm	455 × 310	512 × 331	570 × 371	570 × 371
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	3 × 1,5	3 × 2,5	3 × 2,5	3 × 2,5
Recommended air switch		A	13	16	16	16
EQUIPMENT						
Throttling method			EXV	EXV	EXV	EXV
Bottom chassis heater			✓	✓	✓	✓
Crankcase heater			Preheating	Preheating	Preheating	Preheating
Bottom plugs for OD			✓	✓	✓	✓
Drain pipe connector			✓	✓	✓	✓
OPTIONAL ACCESSORIES						
Communication module			SCMI-01.5C	SCMI-01.5C	SCMI-01.5C	SCMI-01.5C

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.

* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate indoor unit from UNI SPLIT 2 series (ASC-xxBI2, ASD-xxBI2, ASF-xxBI2).

OUTDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASGE-36B12	ASGE-36B12-3	ASGE-42B12	ASGE-42B12-3
Capacity cooling / heating 1)	Nominal (min-max)	kW	10,5 / 11,5	10,5 / 11,5	12,1 / 13,5	12,1 / 13,5
Power supply		Hz / V	1~ / 50-60 / 220-240	3~ / 50-60 / 380-415	1~ / 50-60 / 220-240	3~ / 50-60 / 380-415
Power input cooling / heating 1)		W	3100 / 2950	3100 / 2950	3900 / 3970	3900 / 3970
Maximal power input 2)		W	4700	4400	5200	5200
Power current cooling / heating		A	14,8 / 14,1	4,9 / 4,7	17,5 / 19,0	6,2 / 6,3
Maximal power current 2)		A	21,0	7,0	23,0	9,0
Air flow of OD	H	m ³ / h	4800	4800	5200	5200
Sound pressure of OD at 1m 4)	H	dB(A)	57	57	58	58
Sound power of OD 4)	H	dB(A)	70	70	73	73
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 2,1 / 1,42	R32 / 2,1 / 1,42	R32 / 2,25 / 1,52	R32 / 2,25 / 1,52
Additional refrigerant		g / m	20	20	20	20
Pipe diameter - liquid side 5)		inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side 5)		inch / mm	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9
Max pipe length without additional refrigerant 6)		m	5	5	5	5
Allowed pipe length 7)	min / max	m	5 / 7,5	5 / 7,5	5 / 7,5	5 / 7,5
Max. elevation / Drop height		m	30	30	30	30
Dimension of OD	w × h × d	mm	940 × 820 × 370	940 × 820 × 370	940 × 820 × 370	940 × 820 × 370
Package dimension of OD	w × h × d	mm	1093 × 885 × 497	1093 × 885 × 497	1093 × 885 × 497	1093 × 885 × 497
Weight of OD	netto / brutto	kg	65,0 / 72,0	75,0 / 82,0	66,0 / 73,0	76,0 / 83,0
Operating temperature range cooling 8)		°C	-20~-52	-20~-52	-20~-52	-20~-52
Operating temperature range heating 8)		°C	-20~-24	-20~-24	-20~-24	-20~-24
ADDITIONAL TECHNICAL INFORMATION						
Screw holes distance of OD	w × d	mm	635 × 396	635 × 396	635 × 396	635 × 396
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	3 × 6,0	5 × 1,5	3 × 6,0	5 × 1,5
Recommended air switch		A	25	10	25	10
EQUIPMENT						
Throttling method			EXV	EXV	EXV	EXV
Bottom chassis heater			✓	✓	✓	✓
Crankcase heater			Preheating	Preheating	Preheating	Preheating
Bottom plugs for OD			✓	✓	✓	✓
Drain pipe connector			✓	✓	✓	✓
OPTIONAL ACCESSORIES						
Communication module			SCMI-01.5C	SCMI-01.5C	SCMI-01.5C	SCMI-01.5C

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.

* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate indoor unit from UNI SPLIT 2 series (ASC-xxB12, ASD-xxB12, ASF-xxB12).

OUTDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASGE-48B12	ASGE-48B12-3	ASGE-60B12-3		
Capacity cooling / heating 1)	Nominal (min-max)	kW	13,4 / 15,5	13,4 / 15,5	16,0 / 17,0		
Power supply		Hz / V	1~ / 50-60 / 220-240	3~ / 50-60 / 380-415	3~ / 50-60 / 380-415		
Power input cooling / heating 1)		W	4600 / 4700	4600 / 4700	5400 / 5700		
Maximal power input 2)		W	5600	5600	6800		
Power current cooling / heating		A	21,0 / 21,5	7,0 / 7,1	9,2 / 9,7		
Maximal power current 2)		A	25,0	11,0	12,0		
Air flow of OD	H	m ³ / h	5200	5200	5500		
Sound pressure of OD at 1m 4)	H	dB(A)	59	59	60		
Sound power of OD 4)	H	dB(A)	73	75	75		
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 2,8 / 1,89	R32 / 2,8 / 1,89	R32 / 3,5 / 2,36		
Additional refrigerant		g / m	35	35	35		
Pipe diameter - liquid side 5)		inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5		
Pipe diameter - gas side 5)		inch / mm	3/8 / 15,9	3/8 / 15,9	3/8 / 15,9		
Max pipe length without additional refrigerant 6)		m	7,5	7,5	7,5		
Allowed pipe length 7)	min / max	m	7,5 / 75	7,5 / 75	7,5 / 75		
Max. elevation / Drop height		m	30	30	30		
Dimension of OD	w × h × d	mm	940 × 820 × 370	940 × 820 × 370	990 × 960 × 370		
Package dimension of OD	w × h × d	mm	1093 × 885 × 497	1093 × 885 × 497	1153 × 1110 × 478		
Weight of OD	netto / brutto	kg	73,0 / 80,0	81,0 / 88,0	94,0 / 103,0		
Operating temperature range cooling 8)		°C	-20~52	-20~52	-20~52		
Operating temperature range heating 8)		°C	-20~24	-20~24	-20~24		
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	635 × 396	635 × 396	755 × 396		
Communication cable		mm ²	4-wire cable *				
Recommended power cable		mm ²	3 × 10,0	5 × 1,5	5 × 1,5		
Recommended air switch		A	32	13	13		
EQUIPMENT							
Throttling method			EXV	EXV	EXV		
Bottom chassis heater			✓	✓	✓		
Crankcase heater			Preheating	Preheating	Preheating		
Bottom plugs for OD			✓	✓	✓		
Drain pipe connector			✓	✓	✓		
OPTIONAL ACCESSORIES							
Communication module			SCM1-01.5C	SCM1-01.5C	SCM1-01.5C		

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* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

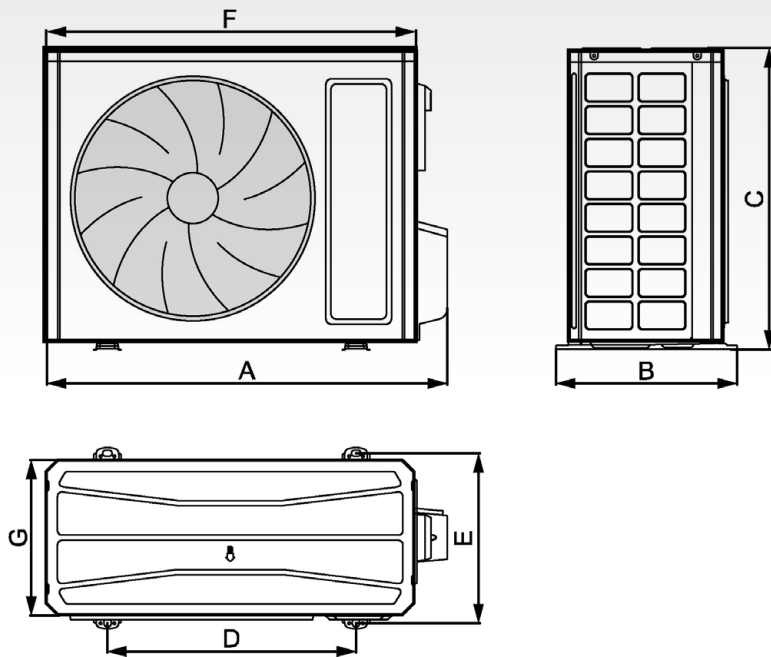
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate indoor unit from UNI SPLIT 2 series (ASC-xxB12, ASD-xxB12, ASF-xxB12).

APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

UNI SPLIT 2 SERIES



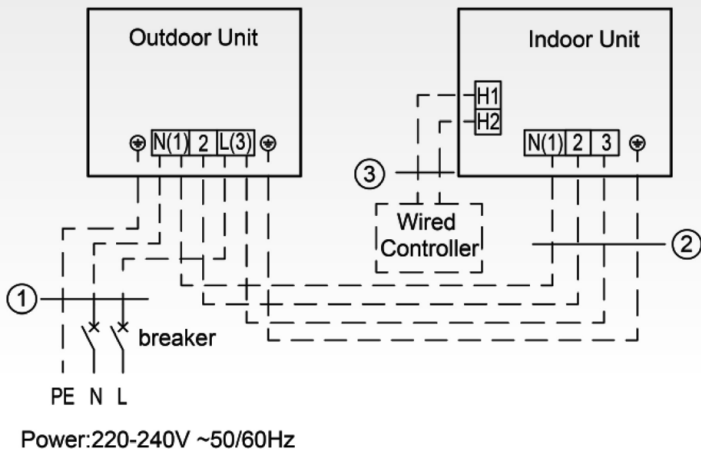
	A	B	C	D	E	F	G
ASGE-12BI2	732	330	553	455	310	675	285
ASGE-18BI2	802	350	555	512	331	745	300
ASGE-24BI2	958	402	660	570	371	889	340
ASGE-30BI2	958	402	660	570	371	889	340
ASGE-36BI2	1020	427	820	635	396	940	370
ASGE-36BI-3	1020	427	820	635	396	940	370
ASGE-42BI2	1020	427	820	635	396	940	370
ASGE-42BI-3	1020	427	820	635	396	940	370
ASGE-48BI2	1020	427	820	635	396	940	370
ASGE-48BI-3	1020	427	820	635	396	940	370
ASGE-60BI-3	1070	427	960	755	396	990	370

units: mm

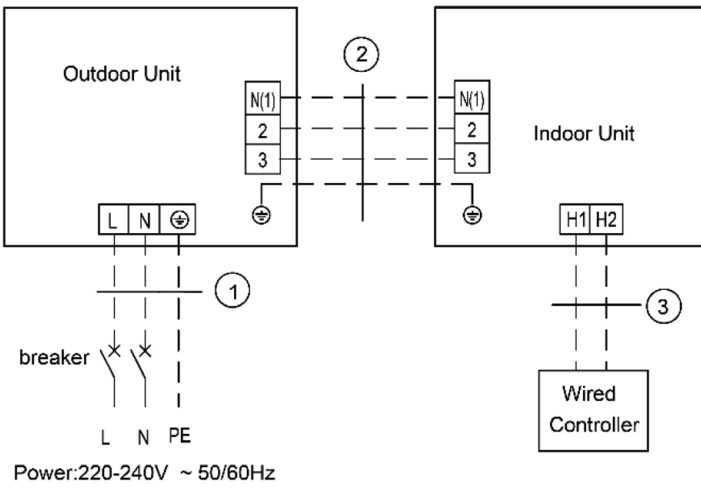
ELECTRICAL WIRING DIAGRAM

UNI SPLIT 2 SERIES

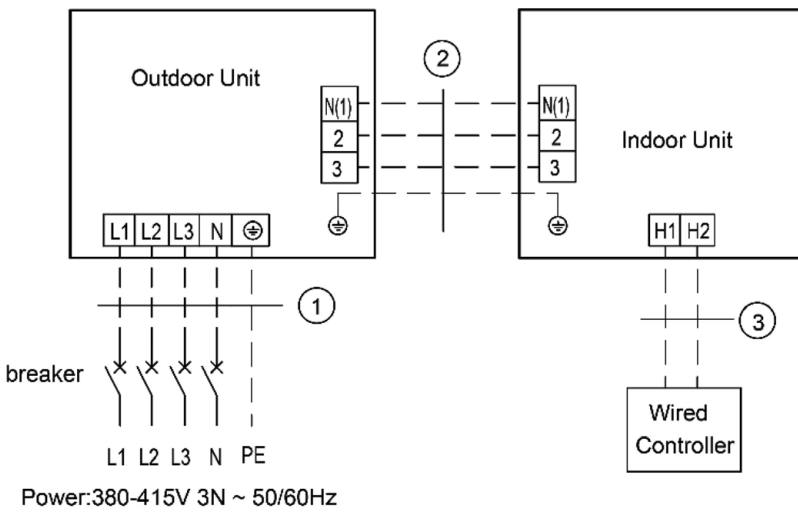
ASGE-12BI2, ASGE-18BI2, ASGE-24BI2, ASGE-30BI2



ASGE-36BI2, ASGE-42BI2, ASGE-48BI2



ASGE-36BI2-3, ASGE-42BI2-3, ASGE-48BI2-3, ASGE-60BI2-3,



CASSETTE INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASC-12B12 / ASGE-12B12	ASC-18B12 / ASGE-18B12	ASC-24B12 / ASGE-24B12	ASC-30B12 / ASGE-30B12
Capacity cooling / heating 1)	Nominal	kW	3,5 / 4,0	5,3 / 5,8	7,1 / 8,0	8,5 / 8,8
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	A++	A++	-
Pdesign cooling		kW	3,5	5,3	7,1	-
SEER			7,1	7,2	6,7	6,9
Annual power consumption		kWh / annum	173	258	371	-
Energy class heating 3)	Average climate		A+	A+	A+	-
Pdesign heating	Average climate	kW	3,1	3,9	5,0	-
SCOP	Average climate		4,2	4,3	4,3	4,3
Annual power consumption	Average climate	kWh / annum	1034	1270	1628	-
Air flow of ID	SH/H/M/L	m ³ / h	600/550/500/400	720/650/600/500	1100/1000/900/800	1400/1300/1100/1000
Sound pressure of ID at 1,4m 4)	SH/H/M/L	dB(A)	36/35/33/29	43/41/39/35	39/38/36/34	47/46/42/38
Sound power of ID 4)	H	dB(A)	47 / - / - / -	56 / - / - / -	51 / - / - / -	59 / - / - / -
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,4	¼ / 6,4	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	½ / 12,7	¾ / 15,9	¾ / 15,9
Dimension of ID	w × h × d	mm	570 × 260 × 570	570 × 260 × 570	840 × 200 × 840	840 × 200 × 840
Dimension of panel	w × h × d	mm	620 × 47,5 × 620	620 × 47,5 × 620	950 × 52 × 950	950 × 52 × 950
Package dimension of ID	w × h × d	mm	698 × 295 × 653	698 × 295 × 653	943 × 245 × 923	943 × 245 × 923
Package dimension of panel	w × h × d	mm	693 × 115 × 693	693 × 115 × 693	1033 × 110 × 1020	1033 × 110 × 1020
Weight of ID	netto / brutto	kg	16,5 / 21,0	16,5 / 21,0	21,0 / 27,0	21,0 / 27,0
Weight of panel	netto / brutto	kg	4,5	4,5	9,5	9,5
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module			optional (integrated in SWC-05W wired controller)			
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			✓	✓	✓	✓
Decorative panel			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07
Central controller			SCC-36			
MODBUS gateway			SMG-01			
BACNET gateway			SBG-01			
Dry contact gateway			SDG-02			

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* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

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CASSETTE INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASC-36BI2 / ASGE-36BI2-3 / ASGE-36BI2	ASC-42BI2 / ASGE-42BI2-3 / ASGE-42BI2	ASC-48BI2 / ASGE-48BI2-3 / ASGE-48BI2	ASC-60BI2 / ASGE-60BI2-3
Capacity cooling / heating 1)	Nominal	kW	10,5 / 11,5	12,1 / 13,5	13,4 / 15,5	14,5 / 17,0
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	-	-	-
Pdesign cooling		kW	10,5	-	-	-
SEER			6,6	6,1	6,3	6,1
Annual power consumption		kWh / annum	557	-	-	-
Energy class heating 3)	Average climate		A+	-	-	-
Pdesign heating	Average climate	kW	7,0	-	-	-
SCOP	Average climate		4,4	4,1	4,0	4,0
Annual power consumption	Average climate	kWh / annum	2227	-	-	-
Air flow of ID	SH/H/M/L	m³ / h	1500/1400/1200/1000	1700/1500/1300/1100	2000/1800/1600/1400	2300/2100/1900/1600
Sound pressure of ID at 1,4m 4)	SH/H/M/L	dB(A)	43/41/39/38	48/46/43/39	50/48/45/41	52/50/48/44
Sound power of ID 4)	H	dB(A)	56 / - / - / -	60 / - / - / -	64 / - / - / -	65 / - / - / -
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side 5)		inch / mm	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9
Dimension of ID	w × h × d	mm	840 × 240 × 840	840 × 240 × 840	840 × 290 × 840	840 × 290 × 840
Dimension of panel	w × h × d	mm	950 × 52 × 950	950 × 52 × 950	950 × 52 × 950	950 × 52 × 950
Package dimension of ID	w × h × d	mm	933 × 272 × 903	933 × 272 × 903	933 × 335 × 903	933 × 335 × 903
Package dimension of panel	w × h × d	mm	1033 × 110 × 1020	1033 × 110 × 1020	1033 × 110 × 1020	1033 × 110 × 1020
Weight of ID	netto / brutto	kg	23,0 / 29,0	23,0 / 29,0	25,0 / 32,0	26,0 / 33,0
Weight of panel	netto / brutto	kg	9,5	9,5	9,5	9,5
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm²			4-wire cable *	
Recommended power cable		mm²			Outdoor unit power supplied	
Recommended air switch		A			Outdoor unit power supplied	
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module					optional (integrated in SWC-05W wired controller)	
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			✓	✓	✓	✓
Decorative panel			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07
Central controller					SCC-36	
MODBUS gateway					SMG-01	
BACNET gateway					SBG-01	
Dry contact gateway					SDG-02	

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

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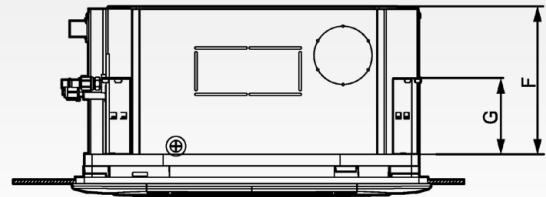
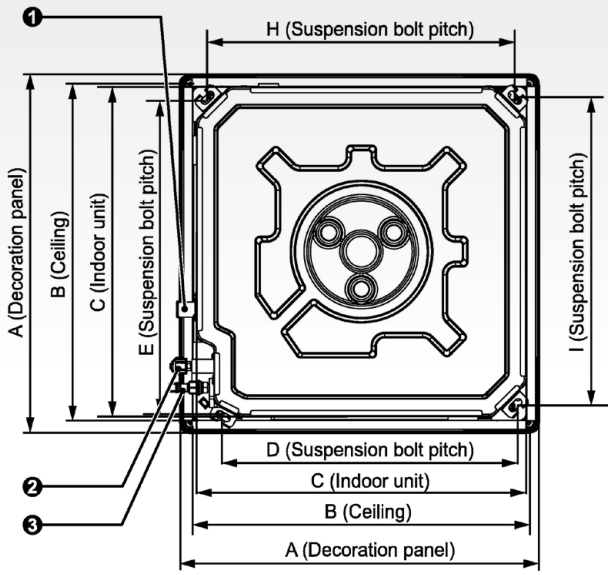
Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate outdoor unit from UNI SPLIT 2 series (ASGE-xxBI2, ASGE-xxBI2-3).

APPEARANCE AND DIMENSIONS OF CASSETTE INDOOR UNITS

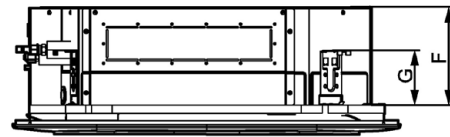
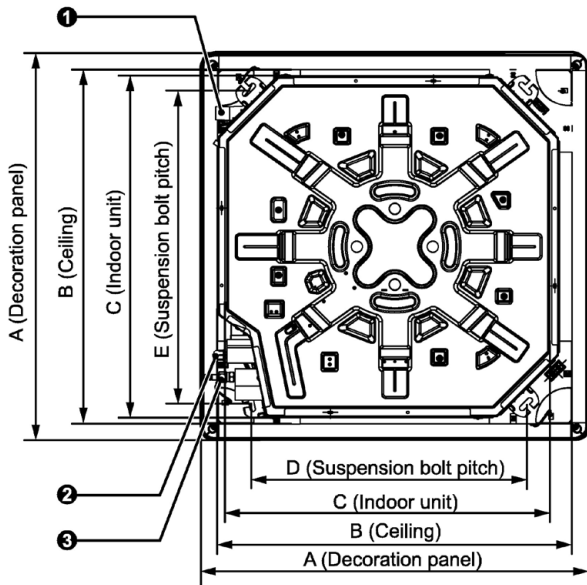
UNI SPLIT 2 SERIES

ASC-12BI2, ASC-18BI2



- ① Drain pipe
- ② Liquid pipe
- ③ Gas pipe

ASC-24BI2, ASC-30BI2, ASC-36BI2, ASC-42BI2, ASC-48BI2, ASC-60BI2



	A	B	C	D	E	F	G	H	I
ASC-12BI2	620	580	570	505	550	260	140	530	530
ASC-18BI2	620	580	570	505	550	260	140	530	530
ASC-24BI2	950	890	840	680	780	200	135	(680)	(780)
ASC-30BI2	950	890	840	680	780	200	135	(680)	(780)
ASC-36BI2	950	890	840	680	780	240	135	(680)	(780)
ASC-42BI2	950	890	840	680	780	240	135	(680)	(780)
ASC-48BI2	950	890	840	680	780	290	135	(680)	(780)
ASC-60BI2	950	890	840	680	780	290	135	(680)	(780)

units: mm

FLOOR-CEILING INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASF-12BI2 / ASGE-12BI2	ASF-18BI2 / ASGE-18BI2	ASF-24BI2 / ASGE-24BI2	ASF-30BI2 / ASGE-30BI2
Capacity cooling / heating 1)	Nominal	kW	3,5 / 4,0	5,3 / 5,6	7,1 / 7,7	8,5 / 8,8
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	A++	A++	A++
Pdesign cooling		kW	3,5	5,3	7,1	8,5
SEER			7,2	6,5	7,2	6,8
Annual power consumption		kWh / annum	170	285	345	438
Energy class heating 3)	Average climate		A+	A+	A+	A+
Pdesign heating	Average climate	kW	3,1	3,9	4,7	6,0
SCOP	Average climate		4,1	4,2	4,3	4,5
Annual power consumption	Average climate	kWh / annum	1059	1300	1530	1867
Air flow of ID	H	m ³ / h	650/600/500/400	900/800/700/600	1250/1100/1000/900	1400/1300/1200/1000
Sound pressure of ID at 1m 4)	SH/H/M/L	dB(A)	35/34/31/28	41/40/38/36	41/39/37/35	46/45/43/39
Sound power of ID 4)	H	dB(A)	49 / - / - / -	59 / - / - / -	54 / - / - / -	62 / - / - / -
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,4	¼ / 6,4	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	½ / 12,7	¾ / 15,9	¾ / 15,9
Dimension of ID	w × h × d	mm	870 × 665 × 235	870 × 665 × 235	1200 × 665 × 235	1200 × 665 × 235
Package dimension of ID	w × h × d	mm	973 × 770 × 300	973 × 770 × 300	1303 × 770 × 300	1303 × 770 × 300
Weight of ID	netto / brutto	kg	24,0 / 28,0	25,0 / 29,0	31,0 / 36,0	32,0 / 37,0
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module			optional (integrated in SWC-05W wired controller)			
Drain pump			-	-	-	-
Max. lift (from bottom of ID unit)		mm	-	-	-	-
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			-	-	-	-
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07
Central controller			SCC-36			
MODBUS gateway			SMG-01			
BACNET gateway			SBG-01			
Dry contact gateway			SDG-02			

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

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FLOOR-CEILING INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASF-36B12 / ASGE-36B12-3 / ASGE-36B12	ASF-42B12 / ASGE-42B12-3 / ASGE-42B12	ASF-48B12 / ASGE-48B12-3 / ASGE-48B12	ASF-60B12 / ASGE-60B12-3
Capacity cooling / heating 1)	Nominal	kW	10,0 / 11,5	12,1 / 13,5	13,4 / 15,5	16,0 / 17,0
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	A++	A++	A++
Pdesign cooling		kW	10,0	N/A	N/A	N/A
SEER			6,3	6,3	6,3	6,1
Annual power consumption		kWh / annum	556	N/A	N/A	N/A
Energy class heating 3)	Average climate		A+	A+	A+	A+
Pdesign heating	Average climate	kW	7,0	N/A	N/A	N/A
SCOP	Average climate		4,2	4,0	4,0	4,0
Annual power consumption	Average climate	kWh / annum	2333	N/A	N/A	N/A
Air flow of ID	H	m ³ / h	1600/1500/1400/1200	1900/1800/1600/1400	2300/2100/1800/1500	2400/2200/1900/1600
Sound pressure of ID at 1m 4)	SH/H/M/L	dB(A)	48/46/45/43	45/43/40/38	51/48/45/43	53/51/48/44
Sound power of ID 4)	H	dB(A)	65 / - / - / -	57 / - / - / -	67 / - / - / -	68 / - / - / -
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side 5)		inch / mm	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9	5/8 / 15,9
Dimension of ID	w × h × d	mm	1200 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235
Package dimension of ID	w × h × d	mm	1303 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300
Weight of ID	netto / brutto	kg	32,0 / 37,0	39,5 / 46,5	42,0 / 49,0	42,0 / 49,0
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module						
Drain pump			-	-	-	-
Max. lift (from bottom of ID unit)		mm	-	-	-	-
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			-	-	-	-
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			YAP1F7	YAP1F7	YAP1F7	YAP1F7
Wired controller			-	-	-	-
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07	SWC-05W / SWC-07
Central controller			SCC-36			
MODBUS gateway			SMG-01			
BACNET gateway			SBG-01			
Dry contact gateway			SDG-02			

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.

* Cross-section of each wire must correspond to the IEC 60364

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

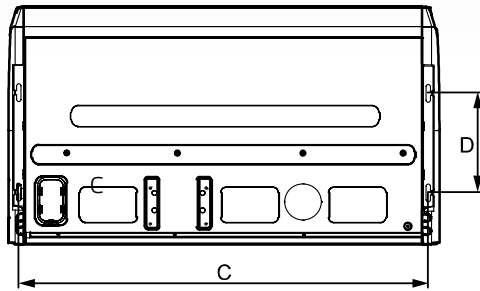
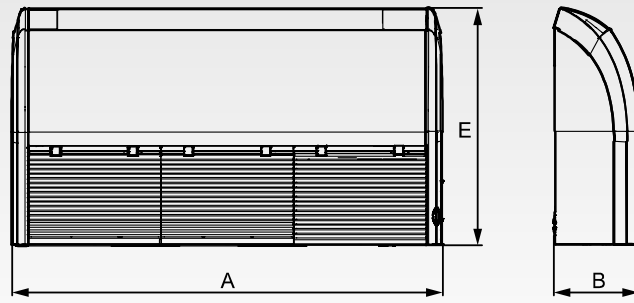
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate outdoor unit from UNI SPLIT 2 series (ASGE-xxB12, ASGE-xxB12-3).

APPEARANCE AND DIMENSIONS OF FLOOR-CEILING INDOOR UNITS

UNI SPLIT 2 SERIES



units: mm

	A	B	C	D	E
ASF-12BI2	870	235	812	280	665
ASF-18BI2	870	235	812	280	665
ASF-24BI2	1200	235	1142	280	665
ASF-30BI2	1200	235	1142	280	665
ASF-36BI2	1200	235	1142	280	665
ASF-42BI2	1570	235	1512	280	665
ASF-48BI2	1570	235	1512	280	665
ASF-60BI2	1570	235	1512	280	665

DUCT INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASD-12BI2 / ASGE-12BI2	ASD-18BI2 / ASGE-18BI2	ASD-24BI2 / ASGE-24BI2	ASD-30BI2 / ASGE-30BI2
Capacity cooling / heating 1)	Nominal	kW	3,5 / 4,0	5,3 / 5,6	7,1 / 8,0	8,5 / 8,8
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	A++	A++	A++
Pdesign cooling		kW	3,5	5,3	7,1	8,5
SEER			6,5	6,3	6,6	6,4
Annual power consumption		kWh / annum	189	294	377	465
Energy class heating 3)	Average climate		A+	A+	A+	A+
Pdesign heating	Average climate	kW	3,0	3,9	4,7	6,0
SCOP	Average climate		4,0	4,0	4,1	4,1
Annual power consumption	Average climate	kWh / annum	1050	1365	1605	2049
Air flow of ID	H	m ³ / h	600/550/500/400	900/800/700/600	1100/1000/900/800	1400/1300/1100/1000
Sound pressure of ID at 1,4m 4)	SH/H/M/L	dB(A)	35/33/32/30	36/35/33/31	37/35/33/31	43/41/39/37
Sound power of ID 4)	H	dB(A)	56 / - / - / -	59 / - / - / -	58 / - / - / -	65 / - / - / -
External static pressure	nom / min-max	Pa	0-80	0-80	0-160	0-160
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,4	¼ / 6,4	¾ / 9,5	¾ / 9,5
Pipe diameter - gas side 5)		inch / mm	¾ / 9,5	½ / 12,7	¾ / 15,9	¾ / 15,9
Dimension of ID	w × h × d	mm	700 × 450 × 200	1000 × 450 × 200	900 × 655 × 260	900 × 655 × 260
Package dimension of ID	w × h × d	mm	1008 × 568 × 275	1308 × 568 × 275	1115 × 772 × 320	1115 × 772 × 320
Weight of ID	netto / brutto	kg	18,0 / 22,0	24,0 / 29,0	29,5 / 33,5	29,5 / 33,5
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module			(integrated in SWC-05W wired controller)			
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			-	-	-	-
Wired controller			SWC-05W	SWC-05W	SWC-05W	SWC-05W
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-07	SWC-07	SWC-07	SWC-07
Central controller			SCC-36			
MODBUS gateway			SMG-01			
BACNET gateway			SBG-01			
Dry contact gateway			SDG-02			

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Explanatory notes on the very last page of the catalogue.

It is necessary to combine with an appropriate outdoor unit from UNI SPLIT 2 series (ASGE-xxBI2, ASGE-xxBI2-3).

DUCT INDOOR UNITS

UNI SPLIT 2 SERIES

MODEL			ASD-36B12 / ASGE-36B12-3 / ASGE-36B12	ASD-42B12 / ASGE-42B12-3 / ASGE-42B12	ASD-48B12 / ASGE-48B12-3 / ASGE-48B12	ASD-60B12 / ASGE-60B12-3 / ASGE-60B12-3
Capacity cooling / heating 1)	Nominal	kW	10,5 / 11,5	12,1 / 13,5	13,4 / 15,5	16,0 / 17,0
Power supply		Hz / V	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240	1~ / 50-60 / 220-240
Energy class cooling 3)			A++	A++	A++	A++
Pdesign cooling		kW	10,5	N/A	N/A	N/A
SEER			6,4	6,1	6,1	6,1
Annual power consumption		kWh / annum	574	N/A	N/A	N/A
Energy class heating 3)	Average climate		A+	A+	A+	A+
Pdesign heating	Average climate	kW	7,0	N/A	N/A	N/A
SCOP	Average climate		4,2	4,1	4,0	4,0
Annual power consumption	Average climate	kWh / annum	2333	N/A	N/A	N/A
Air flow of ID	H	m ³ / h	1700/1600/1400/1200	2000/1800/1600/1400	2300/2100/1800/1500	2600/2300/2000/1700
Sound pressure of ID at 1,4m 4)	SH/H/M/L	dB(A)	39/38/37/36	43/42/41/40	43/42/40/38	46/44/42/40
Sound power of ID 4)	H	dB(A)	62 / - / - / -	66 / - / - / -	67 / - / - / -	70 / - / - / -
External static pressure	nom / min-max	Pa	0-160	0-160	0-200	0-200
Refrigerant type		Type	R32	R32	R32	R32
Pipe diameter - liquid side 5)		inch / mm	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5	3/8 / 9,5
Pipe diameter - gas side 5)		inch / mm	1/2 / 15,9	1/2 / 15,9	1/2 / 15,9	1/2 / 15,9
Dimension of ID	w x h x d	mm	1340 x 655 x 260	1340 x 655 x 260	1400 x 700 x 300	1400 x 700 x 300
Package dimension of ID	w x h x d	mm	1568 x 770 x 323	1568 x 770 x 323	1601 x 813 x 365	1601 x 813 x 365
Weight of ID	netto / brutto	kg	43,0 / 49,0	43,0 / 49,0	52,0 / 58,0	55,0 / 62,0
Set temperature range		°C	16-30	16-30	16-30	16-30
ADDITIONAL TECHNICAL INFORMATION						
Communication cable		mm ²	4-wire cable *			
Recommended power cable		mm ²	Outdoor unit power supplied			
Recommended air switch		A	Outdoor unit power supplied			
EQUIPMENT						
Plasma generator			-	-	-	-
WiFi module			(integrated in SWC-05W wired controller)			
Drain pump			✓	✓	✓	✓
Max. lift (from bottom of ID unit)		mm	1000	1000	1000	1000
Door contact			✓	✓	✓	✓
Alarm contact			-	-	-	-
Fresh air inlet			✓	✓	✓	✓
STANDARD ACCESSORIES						
Standard health filter			-	-	-	-
Remote controller (IR)			-	-	-	-
Wired controller			SWC-05W	SWC-05W	SWC-05W	SWC-05W
OPTIONAL ACCESSORIES						
Optional health filters			-	-	-	-
Wired controller with weekly timer			SWC-07	SWC-07	SWC-07	SWC-07
Central controller			SCC-36			
MODBUS gateway			SMG-01			
BACNET gateway			SBG-01			
Dry contact gateway			SDG-02			

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R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

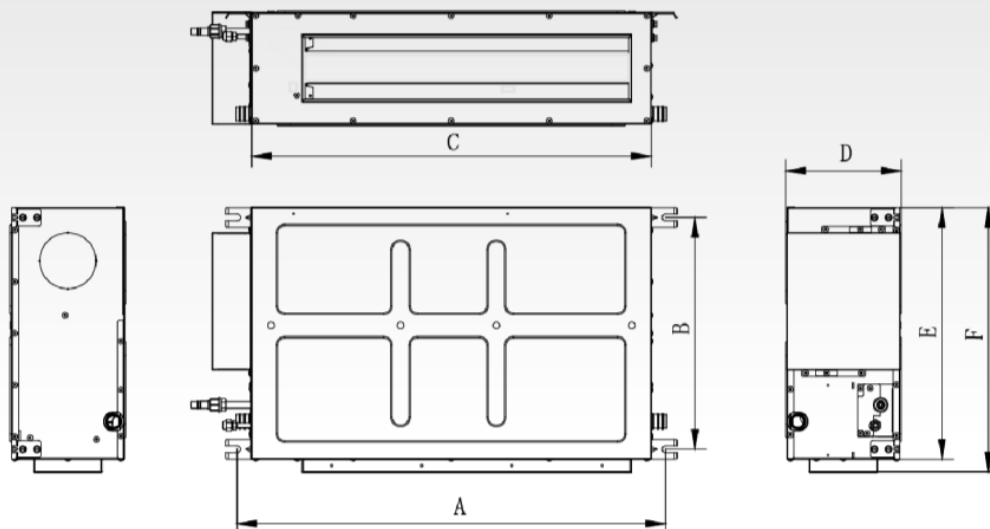
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It is necessary to combine with an appropriate outdoor unit from UNI SPLIT 2 series (ASGE-xxB12, ASGE-xxB12-3)

APPEARANCE AND DIMENSIONS OF DUCT INDOOR UNITS

UNI SPLIT 2 SERIES

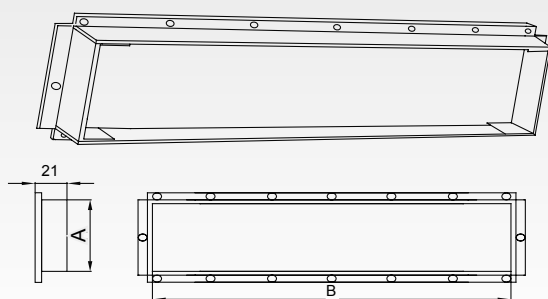


	A	B	C	D	E	F
ASD-12BI2	760	415	700	200	450	486
ASD-18BI2	1060	415	1000	200	450	486
ASD-24BI2	942	590	900	260	655	692
ASD-30BI2	942	590	900	260	655	692
ASD-36BI2	1381	585	1340	260	655	697
ASD-42BI2	1381	585	1340	260	655	697
ASD-48BI2	1440	500	1400	300	700	754
ASD-60BI2	1440	500	1400	300	700	754

DIMENSIONS OF AIR INLET AND OUTLET

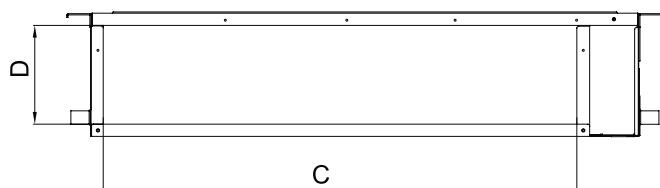
UNI SPLIT 2 SERIES

Air outlet



DIMENSIONS / MODEL	AIR OUTLET		AIR INLET	
	A	B	C	D
ASD-12BI2	120	580	680	200
ASD-18BI2	120	885	975	175
ASD-24BI2	215	740	870	235
ASD-30BI2	215	740	870	235
ASD-36BI2	215	1155	1190	220
ASD-42BI2	215	1155	1190	220
ASD-48BI2	200	1150	1360	260
ASD-60BI2	200	1150	1360	260

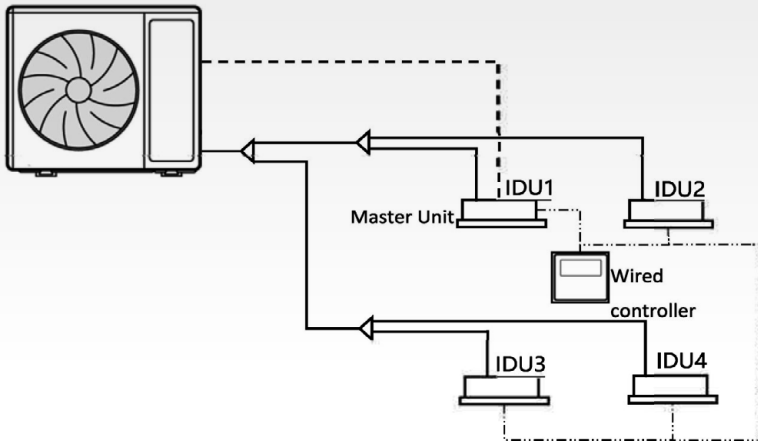
Air inlet



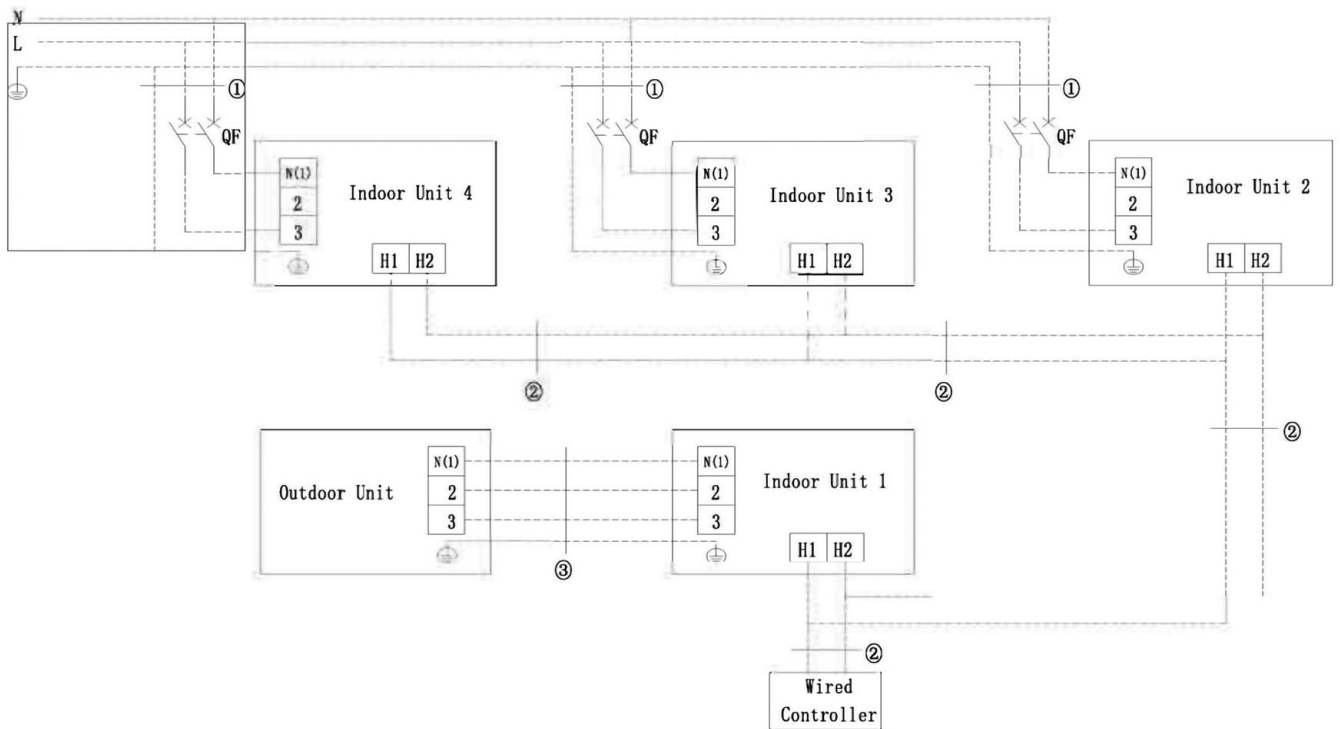
units: mm

UNI SPLIT 2 SERIES

ELECTRICAL WIRING DIAGRAM



The UNI SPLIT 2 series allows applications with two, three or four indoor units without the need for additional accessories. The refrigerant circuit is divided by refnets (optional accessories). For the correct function of the system it is necessary to follow the combination table of the units.

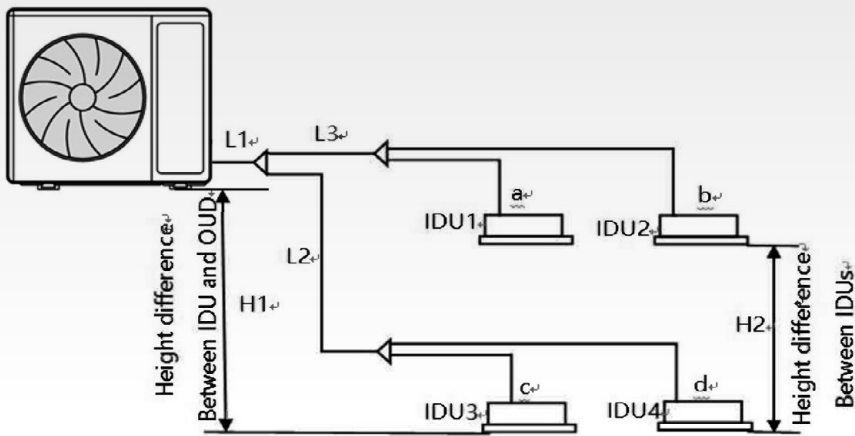


COMBINATIONS OF OUTDOOR AND INDOOR UNITS

Outdoor unit type (capacity)	Indoor units combination		
	Twin	Triple	Quatro
ASGE-24BI2 (7,1kW)	5,0 (kW)*2	—	—
ASGE-36BI2 (10,0kW)	5,0 (kW)*2	3,5 (kW)*3	—
ASGE-42BI2 (12,5kW)	7,1 (kW)*2	5,0 (kW)*3	3,5 (kW)*4
ASGE-48BI2 (14,0kW)	7,1 (kW)*2	5,0 (kW)*3	3,5 (kW)*4
ASGE-60BI2 (16,0kW)	8,5 (kW)*2	7,1 (kW)*3	5,0 (kW)*4

PIPE LENGTH CALCULATION

UNI SPLIT 2 SERIES



-	Refrigerant branches	Allowed value
Maximum pipe length	$L1+L2+L3+a+b+c+d$	Same as the outdoor unit
Minimum pipe length	$L1+L2+L3+a+b+c+d$	Same as the outdoor unit
Absolute height difference of connection pipe	H1	Same as the outdoor unit
Height difference between two IDUs	H2	<0.5m
Length difference of the connection pipe between either two IDU branch	$(L2+d)-(L3+a)$	<5m
Maximum pipe length from the first refrigerant distributor to the individual indoor units.	L3+a; L3+b; L2+c; L2+d	<20m

CALCULATION OF THE REQUIRED AMOUNT OF REFRIGERANT:

The total amount of refrigerant is defined by the following relationship:

$$Q_{TOT} = Q_{IDU} + (Q_{ODU} - Q_{PRE})$$

where:

Q_{IDU} total refrigerant amount for the liquid piping between the indoor units and the nearest Splitter, calculated according to the relation $(\sum \phi^{1/4} * 16 + \sum \phi^{3/8} * 20)$

Q_{ODU} total refrigerant amount for the liquid piping between the outdoor unit and all splitters for indoor units, multiplied by the appropriate g/m value (see the outdoor unit specification)

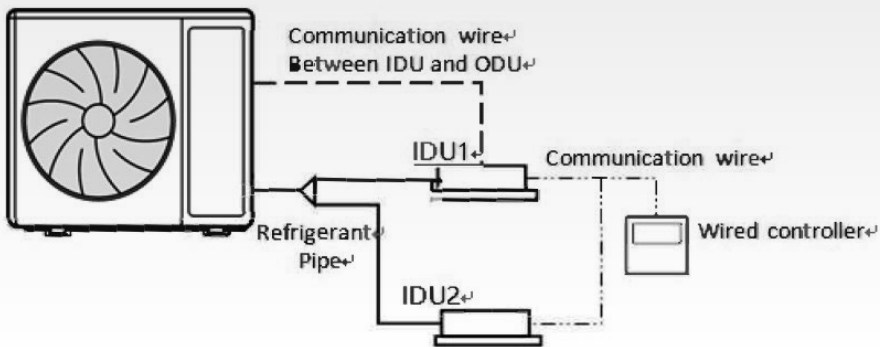
Q_{PRE} amount of refrigerant precharged from the factory, (see outdoor unit specification)

Capacity of indoor unit (kW)	Relevant pipe diameter (inches)	
	Liquid	Gas
3,5	$\Phi 1/4$ (16g/m)	$\Phi 3/8$
5,0	$\Phi 1/4$ (16g/m)	$\Phi 1/2$
7,1 - 16,0	$\Phi 3/8$ (20g/m)	$\Phi 5/8$

VARIANTS OF UNI-COMBI CONNECTION

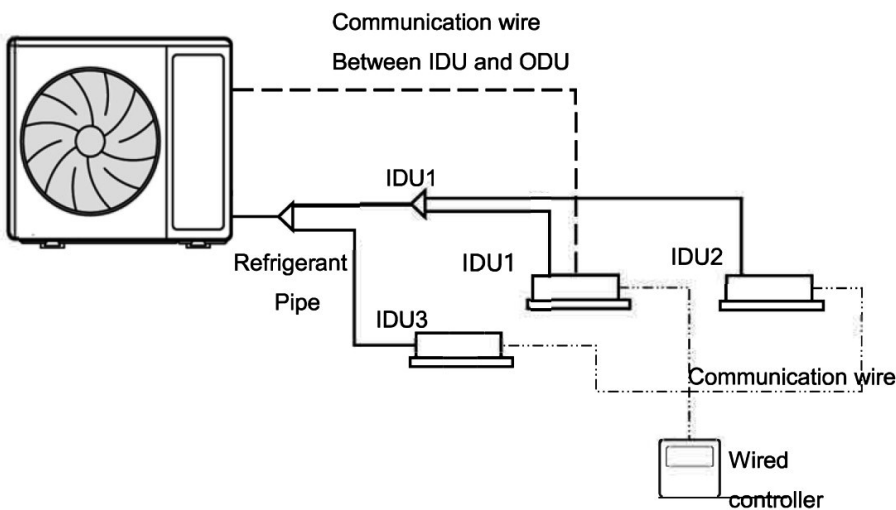
UNI SPLIT 2 SERIES

INSTALLATION DIAGRAM - TWIN



Refrigerant branches	Indoor unit capacity (kW)	Splitter type (amount)
ASGE-24BI2 (7,1kW)	5,0	SREF-01 ×1
ASGE-36BI2 (10,0kW)	5,0	SREF-01 ×1
ASGE-42BI2 (12,5kW)	7,1	SREF-01 ×1
ASGE-48BI2 (14,0kW)	7,1	SREF-01 ×1
ASGE-60BI2 (16,0kW)	8,5	SREF-01 ×1

INSTALLATION DIAGRAM - TRIPLE

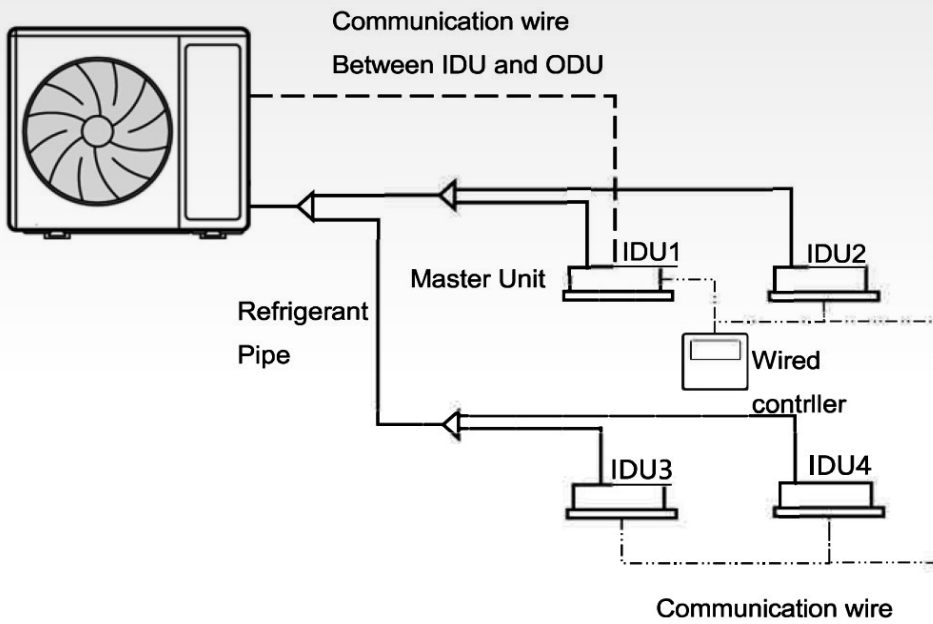


Outdoor unit (capacity)	Indoor unit capacity (kW)	Splitter type (amount)
ASGE-36BI2 (10,0kW)	3,5	SREF-01 ×2
ASGE-42BI2 (12,5kW)	5,0	SREF-01 ×2
ASGE-48BI2 (14,0kW)	5,0	SREF-01 ×2
ASGE-60BI2 (16,0kW)	7,1	SREF-01 ×2

VARIANTS OF UNI-COMBI CONNECTION

UNI SPLIT 2 SERIES

INSTALLATION DIAGRAM - QUATRO



Outdoor unit (capacity)	Indoor unit capacity (kW)	Splitter type (amount)
ASGE-42BI2 (12,5kW)	3,5	SREF-01 ×3
ASGE-48BI2 (14,0kW)	3,5	SREF-01 ×3
ASGE-60BI2 (16,0kW)	5,0	SREF-01 ×3

SPLIT AIR CONDITIONER

TOWER SERIES

MODEL			AST-24BI2	AST-48BI2			
Capacity cooling / heating 1)	Nominal (min-max)	kW	7,2 / 7,9	12,3 / 12,6			
Power supply 11)	Frequency / Voltage	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240			
Application area		m ²	32-50	55-85			
Power input cooling / heating 1)		W	2050 / 2330	4170 / 3820			
Maximal power input 2)		W	3030	5060			
Power current cooling / heating		A	9,0 / 10,5	18,0 / 16,0			
Maximal power current 2)		A	14,5	22			
Energy class cooling 3)			A++	A+			
Pdesign cooling		kW	7,2	12,5			
SEER			6,1	5,6			
Annual power consumption		kWh / annum	413	781			
Energy class heating 3)	Average climate		A	A			
Pdesign heating	Average climate	kW	5,6	9			
SCOP	Average climate		4,0	3,7			
Annual power consumption	Average climate	kWh / annum	2063	3405			
Air flow of ID	SH/H/M/L	m ³ / h	1250/950/850/750	2000/1850/1700/1580			
Air flow of OD	H	m ³ / h	3600	4000			
Sound pressure of ID 4)	SH/H/M/L	dB(A)	45/41/39/35	53/51/50/48			
Sound pressure of OD 4)	H	dB(A)	61	63			
Sound power of ID 4)	SH/H/M/L	dB(A)	56/52/50/46	64/61/60/58			
Sound power of OD 4)	H	dB(A)	70	73			
Dehumidifying volume		l / h	2,0	5,0			
Refrigerant type / charge	Type / kg / t eq. CO ₂		R32 / 1,5 / 1,01	R32 / 2,0 / 1,35			
Additional refrigerant		g / m	40	50			
Pipe diameter - liquid side 5)		inch / mm	¼ / 6,4	¼ / 6,4			
Pipe diameter - gas side 5)		inch / mm	¾ / 15,9	¾ / 15,9			
Max pipe length without additional refrigerant 6)		m	5	5			
Maximal allowed pipe length 7)		m	25	30			
Max. elevation / Drop height		m	10	20			
Dimension of ID	w × h × d	mm	507 × 1770 × 320	587 × 1882 × 394			
Dimensions of outdoor unit	w × h × d	mm	958 × 660 × 402	1000 × 746 × 427			
Package dimension of ID	w × h × d	mm	623 × 1988 × 440	718 × 2128 × 485			
Package dimensions of outdoor unit	w × h × d	mm	1032 × 737 × 456	1080 × 810 × 483			
Weight of ID	netto / brutto	kg	38,0 / 50,0	53,0 / 65,0			
Weight of OD	netto / brutto	kg	43,0 / 47,5	55,0 / 60,0			
Set temperature range		°C	16-30	16-30			
Operating temperature range 8)	cooling	°C	-15-50	-15-50			
	heating	°C	-15-30	-15-30			
ADDITIONAL TECHNICAL INFORMATION							
Screw holes distance of OD	w × d	mm	570 × 370	610 × 395			
Communication cable		mm ²	4 × 1,5	4 × 1,5			
Recommended power cable		mm ²	3 × 2,5	3 × 6,0			
Recommended air switch		A	16	25			
EQUIPMENT							
Plasma generator	indoor		-	-			
WiFi module			✓	✓			
Drain pump			-	-			
Max. lift (from bottom of ID unit)		mm		-	-		
Door contact				-	-		
Alarm contact				-	-		
Fresh air inlet			-	-			
Throttling method	outdoor		EXV	EXV			
Bottom chassis heater			-	-			
Crankcase heater			-	-			
Bottom plugs for OD				✓	✓		
Drain pipe connector				✓	✓		
STANDARD ACCESSORIES							
Standard health filter			-	-			
Remote controller (IR)			YAP1F4 (WiFi)	YAP1F4 (WiFi)			
Wired controller			-	-			
OPTIONAL ACCESSORIES							
Optional health filters			-	-			
Wired controller			-	-			
Central controller			-	-			

APPEARANCE AND DIMENSIONS OF UNIT

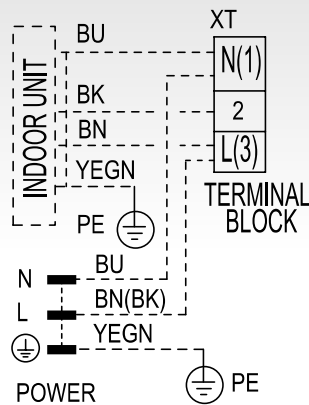
TOWER SERIES



units: mm

Model	W	H	D
AST-24BI2	507	1770	320
AST-48BI2	587	1882	394

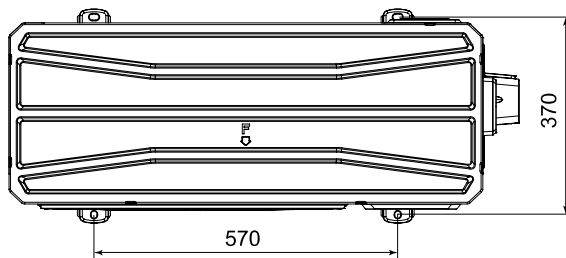
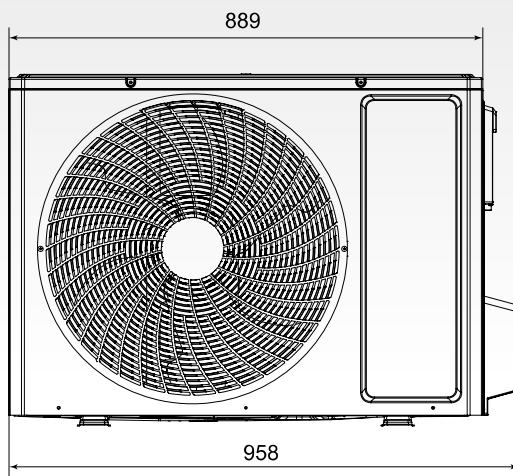
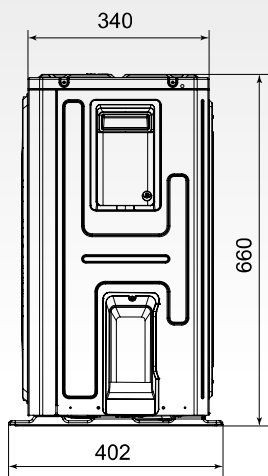
ELECTRICAL WIRING DIAGRAM



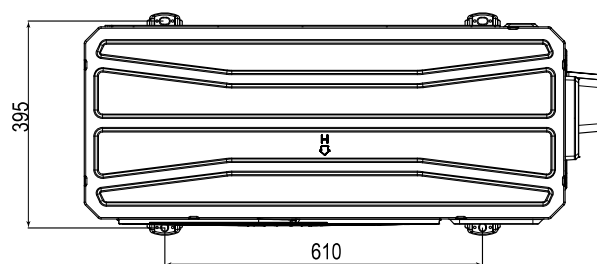
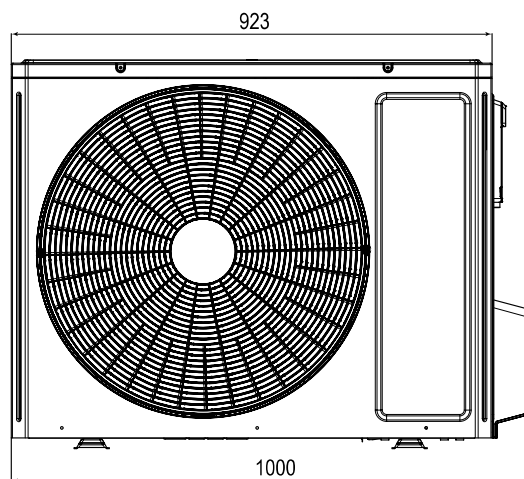
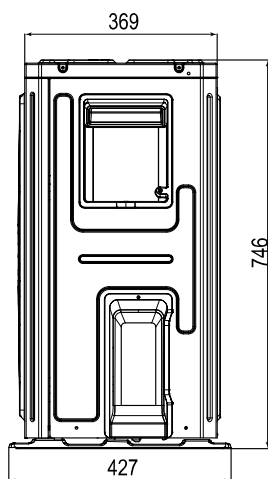
APPEARANCE AND DIMENSIONS OF THE OUTDOOR UNIT

TOWER SERIES

AST-24BI2



AST-48BI2



WINDOW MONOBLOCK AIR CONDITIONERS

WINDOW SERIES

MODEL			ASW-09BI	ASW-12BI		
Cooling capacity 1)	Nominal	kW	2,7	3,7		
Power supply	Frequency / Voltage	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240		
Application area		m ²	12-18	16-24		
Power input cooling 1)		W	782	1030		
Maximal power input 2)		W	1100	1300		
Power current cooling		A	3,5	4,6		
Maximal power current 2)		A	5,5	6,5		
SEER			5,2	5,4		
Energy class cooling			A	A		
Air flow of ID	H/M/L	m ³ / h	400/350/310	480/430/380		
Airflow of OD	H	m ³ / h	800	1200		
Sound pressure of ID 4)	H/M/L	dB(A)	50/48/46	50/48/46		
Sound pressure of OD 4)	H	dB(A)	56/54/52	58/56/54		
Sound power of ID 4)	H/M/L	dB(A)	59/57/55	59/57/55		
Sound power of OD 4)	H	dB(A)	65/63/61	65/63/61		
Dehumidifying volume		l / h	1,0	1,6		
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,51 / 0,34	R32 / 0,63 / 0,43		
Dimension	w × h × d	mm	560 × 375 × 708	660 × 428 × 700		
Package dimension	w × h × d	mm	623 × 425 × 806	739 × 505 × 793		
Weight	netto / brutto	kg	43,0 / 47,0	50,0 / 54,0		
Set temperature range		°C	16-30	16-30		
Operating temperature range cooling 8)		°C	16-43	16-43		
STANDARD ACCESSORIES						
Standard health filter			-	-		
Remote controller (IR)			YX1F	YX1F		
Wired controller			-	-		
OPTIONAL ACCESSORIES						
Optional health filters			-	-		
Wired controller			-	-		
Central controller			-	-		

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.

R32 (single component refrigerant HFC), GWP of refrigerant used: 675.

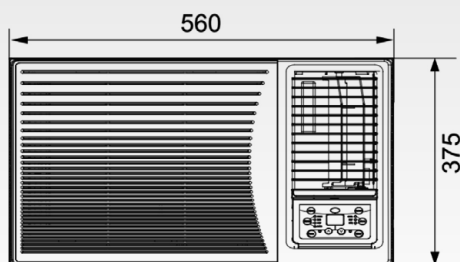
Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Hermetically sealed system.

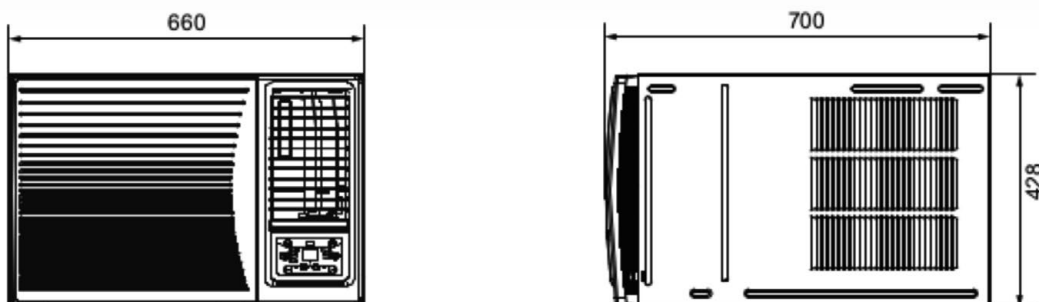
Explanatory notes on the very last page of the catalogue.

APPEARANCE AND DIMENSIONS OF UNITS

ASW-09BI



ASW-12BI



units: mm

MONOBLOCK AIR CONDITIONERS

MONOBLOCK SERIES

MODEL	ASM-12PI						
Capacity cooling / heating 1)	Nominal	kW	3,5 / 2,9				
Power supply	Frequency / Voltage	Hz / V	1~ / 50 / 220-240				
Application area		m ²	25-30				
Power input cooling / heating 1)		W	1350 / 815				
Power current cooling / heating		A	6,0 / 4,0				
EER / COP			2,6 / 3,6				
Energy class cooling / heating			A / A+				
Air flow of ID fan	H/L	m ³ / h	520 / 280				
Air flow of OD fan	H/L	m ³ / h	550 / 320				
Sound pressure level - INDOOR 4)	H/M/L/SL	dB(A)	47/46/43/39				
Sound pressure level -OUTDOOR 4)	max.	dB(A)	55				
Dehumidifying volume		l/h	1,2				
Refrigerant type / charge		Type / kg / t eq.CO ₂	R290 / 0,29 / -				
Wall thickness for installation	max.	mm	450				
Outdoor air holes diameter		mm	180				
Dimension	w×h×d	mm	1000×585×205				
Package dimension	w×h×d	mm	1120×665×335				
Weight	netto / brutto	kg	43,5 / 49,5				
Set temperature range		°C	16-30				
Operating temperature range cooling		°C	-5 ~ 43				
Operating temperature range heating		°C	-7 ~ 43				
STANDARD ACCESSORIES							
Standard health filter			-				
Remote controller (IR)			✓				
Wired controller			-				
WiFi module			✓				
Installation material			mounting template, facade grids, wall inserts				
OPTIONAL ACCESSORIES							
Optional health filters			-				
Wired controller			-				
Central controller			-				

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. R290 (100% CH₃CH₂CH₃), GWP of refrigerant used: 3. Hermetically sealed system. Explanatory notes on the very last page of the catalogue.

APPEARANCE AND DIMENSIONS OF UNIT

ASM-12PI



VEHICLE AIR CONDITIONERS

CAMPER TRAILER AIR CONDITIONER

MODEL			ASV-25BS	ASV-35BS		
Capacity cooling / heating 1)	Nominal	kW	2,6 / 2,4	3,6 / 3,4		
Power supply	Frequency/Voltage	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240		
Power input cooling / heating 1)		W	1160 / 1000	1270 / 1170		
Maximal power input 2)		W	1600	1600		
Power current cooling / heating		A	4,7 / 4,2	4,7 / 4,2		
Maximal power current 2)		A	6,6	6,6		
EER / COP		-	2,3 / 2,2	2,8 / 2,7		
Airflow of ID	SH/H/ML	m³ / h	330/250/200	350/270/220		
Airflow of OD	H/L	m³ / h	600	600		
Sound pressure of ID 4)	SH/H/ML	dB(A)	53/47/42	54/48/43		
Sound pressure of OD 4)	H/L	dB(A)	53	54		
Sound power of ID 4)	SH/H/ML	dB(A)	63/58/53/48	65/59/54/49		
Sound power of OD 4)	H/L	dB(A)	75 / 65	75 / 65		
Dehumidifying volume		l / h	1,0	1,0		
IP protection		-	IPX4	IPX4		
Roof mounting hole		mm	400 × 400	400 × 400		
Roof thickness		mm	30-80	30-80		
Refrigerant type / charge		Type / kg / t eq. CO ₂	R32 / 0,47 / 0,32	R32 / 0,47 / 0,32		
Dimension of ID	w × h × d	mm	485 × 49 × 610	485 × 49 × 610		
Dimension of OD	w × h × d	mm	720 × 283 × 1077	720 × 283 × 1077		
Package dimension of ID	w × h × d	mm	547 × 109 × 668	547 × 109 × 668		
Package dimension of OD	w × h × d	mm	783 × 322 × 1146	783 × 322 × 1146		
Weight of ID	net / gross	kg	2,7 / 4,0	2,7 / 4,0		
Weight of OD	net / gross	kg	35,0 / 44,0	35,0 / 44,0		
Set temperature range		°C	16-30	16-30		
Operating temperature range 8)	cooling	°C	18-46	18-46		
	heating	°C	-5-24	-5-24		

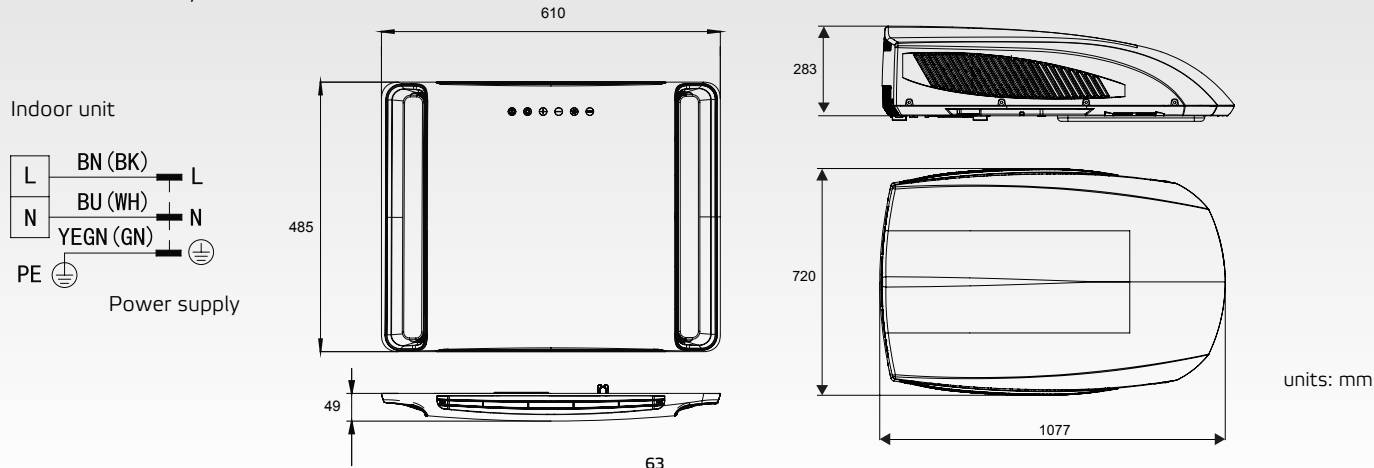
EQUIPMENT							
Plasma generator	indoor		-	-			
WiFi module			✓	✓			
Drain pump			-	-			
Max. lift (from bottom of ID unit)		mm	-	-			
LED light	outdoor		✓	✓			
Door contact			-	-			
Alarm contact			-	-			
Fresh air inlet			-	-			
Throttling method				Capillary	Capillary		
Bottom chassis heater				-	-		
Crankcase heater				-	-		
Bottom plugs for OD				-	-		
Drain pipe connector				-	-		

STANDARD ACCESSORIES						
Standard health filter			-	-		
Remote controller (IR)			YAY1F2	YAY1F2		
Wired controller			-	-		
Plastic adapter (400x400mm)			✓	✓		

OPTIONAL ACCESSORIES						
Optional health filters			-	-		
Wired controller			-	-		

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. R32 (single component refrigerant HFC), GWP of refrigerant used: 675. Contains fluorinated greenhouse gases covered by the Kyoto Protocol. Hermetically sealed system. Explanatory notes on the very last page of the catalogue.

POWER SUPPLY, APPEARANCE AND DIMENSIONS OF UNITS



WATER-TO-AIR HEAT PUMP

BOAT SERIES

MODEL			ASB-05A	ASB-09A	ASB-12A	ASB-16A	ASB-24A
Capacity cooling / heating 12)	Nominal (min-max)	kW	1,1 / 1,4	2,1 / 2,2	3,1 / 3,2	3,2 / 4,0	6,4 / 6,7
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240
Power input cooling / heating 1)	Frequency / Voltage	W	560 / 530	900 / 880	1100 / 1100	1200 / 1300	1450 / 1750
Maximal power input 2)		W	800 / 750	1350 / 1100	1600 / 1700	1650 / 1650	2400 / 2700
Power current cooling / heating		A	3,5 / 3,4	4,9 / 4,8	6,1 / 6,0	6,0 / 6,1	6,8 / 8,2
Maximal power current 2)		A	6,2 / 6,1	7,3 / 7,0	9,0 / 9,0	8,2 / 8,6	11,5 / 11,8
EER / COP			1,96 / 2,64	2,33 / 2,50	2,82 / 2,91	2,67 / 3,08	4,41 / 3,80
Air flow of ID	H	m ³ / h	320	450	466	590	951
Sound pressure of ID 4)	H	dB(A)	58	58	58	62	60
Sound power of ID 4)	H	dB(A)	68	68	68	72	70
Refrigerant type / charge		Type / kg / t ekv.CO ₂	R410A / 0,32 / 0,67	R410A / 0,34 / 0,71	R410A / 0,53 / 1,11	R410A / 0,46 / 0,96	R410A / 0,95 / 1,98
Dimension of ID	w × h × d	mm	285 × 408 × 295	380 × 408 × 310	380 × 420 × 330	450 × 465 × 330	595 × 529 × 386
Package dimension of ID	w × h × d	mm	594 × 493 × 360	683 × 513 × 360	608 × 533 × 395	663 × 558 × 395	853 × 638 × 440
Weight of ID	netto / brutto	kg	25,5 / 30,0	28,0 / 33,0	33,0 / 38,0	37,5 / 43,5	60,5 / 68,0
Set temperature range		°C	16-30	16-30	16-30	16-30	16-30
Operating temperature range cooling 8)		°C	16-43	16-43	16-43	16-43	16-43
Operating temperature range heating 8)		°C	-10-30	-10-30	-10-30	-10-30	-10-30
Operating temperature range cooling 8)	water	°C	10-35	10-35	10-35	10-35	10-35
Operating temperature range heating 8)	water	°C	4-25	4-25	4-25	4-25	4-25
STANDARD ACCESSORIES							
Standard health filter					-		
Remote controller (IR)					YX1F		
Wired controller					✓		

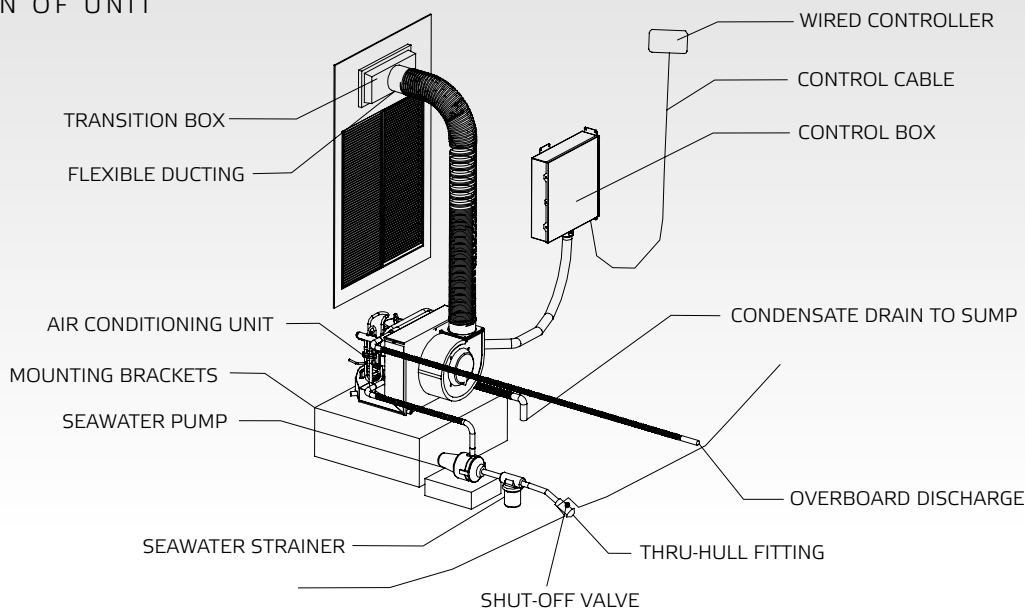
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R410A (50% HFC-32, 50% HFC-125), GWP 2088

Contains fluorinated greenhouse gases covered by the Kyoto Protocol.

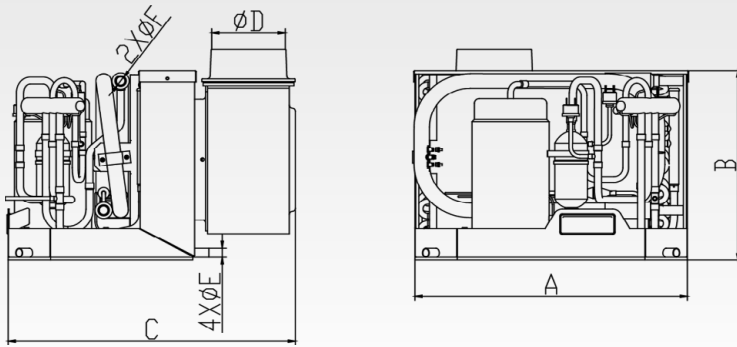
Explanatory notes on the very last page of the catalogue.

INSTALLATION OF UNIT



APPEARANCE, DIMENSIONS AND WIRING OF UNITS

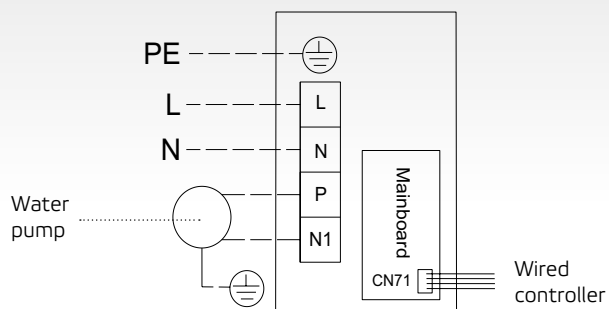
BOAT SERIES



units: mm

	A	B	C	D	E	F
ASB-05A	285	295	408	91,5	16	19
ASB-09A	380	310	408	91,5	16	19
ASB-12A	380	330	420	119,4	16	19
ASB-16A	450	330	465	119,4	16	19
ASB-24A	529	386	595	119,4	16	19

ELECTRICAL WIRING DIAGRAM



PACKAGE CONTENTS

	Package Include
Wired Controller	✓
Remote Controller	✓
Communication Cable of Wired Controller (8 m)	✓
Power Supply Wire	-
Inlet / Outlet water pipe	-
Fixed board	-
Condensing drain pipe	-
Flexible Ducting	-
Air Diffuser	-
Air Return Grill	-
Water pump	-
Filter	-

LOCAL AIR CONDITIONERS

MODEL			AMC-11P	AMC-14P		
Capacity	Cooling	kW	3,0	4,0		
	Heating	kW	3,0	4,0		
Optimal room size		m ²	15-25	25-35		
Power supply	Frequency / Voltage	Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240		
Rated current		A	5,2	6,5		
Power input	Cooling / Heating	W	1150 / 965	1535 / 1290		
EER / COP			2,6 / 3,1	2,6 / 3,1		
Energy class	Cooling / Heating		A / A++	A / A++		
Noise - indoor unit		dB(A)	56	56		
Air flow		m ³ / h	450	450		
Dehumidifying volume		l / h	2,1	2,9		
Refrigerant type / charge		Type / kg	R290 / 0,23	R290 / 0,27		
Dimension	w × h × d	mm	300 × 760 × 532	300 × 760 × 532		
Package dimension	w × h × d	mm	370 × 855 × 620	370 × 855 × 620		
Net / gross weight		kg	28,5 / 32,3	30,6 / 34,2		
Operating temperature	Cooling	°C	17-32	17-32		
	Heating	°C	7-25	7-25		

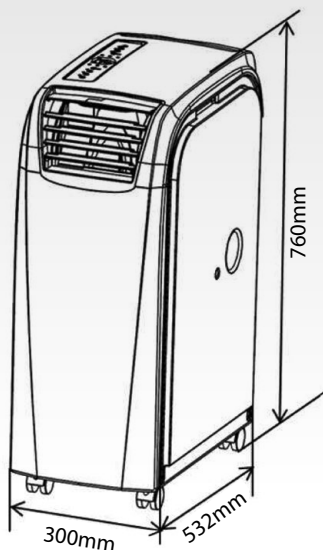
The specification of products is subject to change based on further development of the units by the producer and can be changed without prior notice. Refer to rating label.

R290 (100% CH₃CH₂CH₃), GWP of refrigerant used: 3

Hermetically sealed system.

Explanatory notes on the very last page of the catalogue.

APPEARANCE AND DIMENSIONS OF UNITS

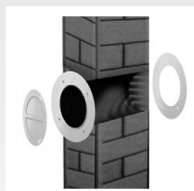


units: mm

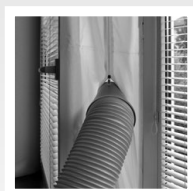
ACCESSORIES



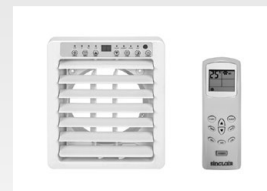
AMC-WINK
WINDOW KIT
(standard)



AMC-WK
WALL KIT
(optional)



WK-400A
WINDOW KIT
(optional)



AK-15A
(optional)

MOBILE DEHUMIDIFIERS

MODEL			CFO-18P	CFO-20P	CFO-40P		
Dehumidifying volume		l / day	18,0	20,0	40,0		
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240	1~ / 50 / 220-240		
Power input / Max. power input		W	250 / 380	360 / 450	670 / 900		
Rated current		A	1,6	2,1	4,0		
Sound pressure level		dB	43 / 41	43 / 41 / 39	48 / 45 / 42		
Air flow		m ³ / h	110 / 100	130 / 115 / 105	230 / 195 / 170		
Water tank volume		L	2,5	3,5	6,5		
Optimal room size		m ²	20	28	48		
Refrigerant type / charge		Type / kg	R290 / 0,085	R290 / 0,11	R290 / 0,15		
Dimension	w × h × d	mm	305 × 490 × 192	363 × 577 × 245	396 × 625 × 286		
Package dimension	w × h × d	mm	340 × 540 × 230	428 × 602 × 311	448 × 338 × 638		
Net / gross weight		kg	10,7 / 11,7	15,5 / 17,0	22,5 / 24,5		
Operating temperature		°C	5-32	5-32	5-32		

R290 (100% CH₃CH₂CH₃)

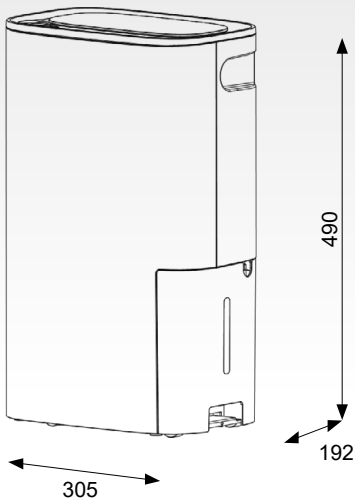
The values stated in the sheet are complying with norm EN810

Dehumidifying volume is measured according to EN60335-2-40, test conditions: DB 30%, RH 80%

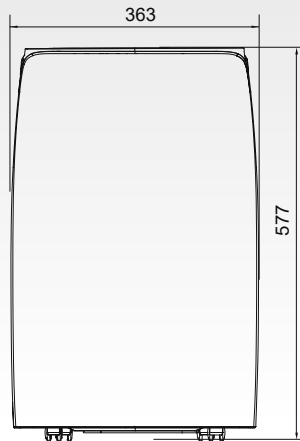
Hermetically sealed system.

APPEARANCE AND DIMENSIONS OF UNITS

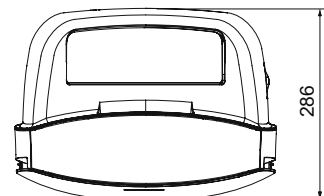
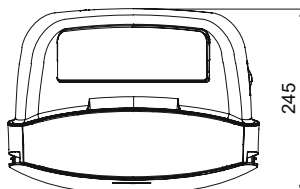
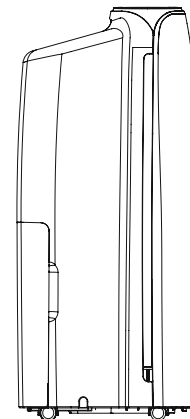
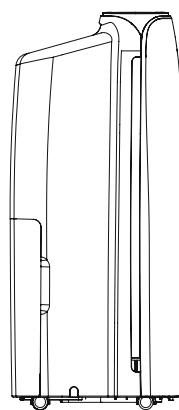
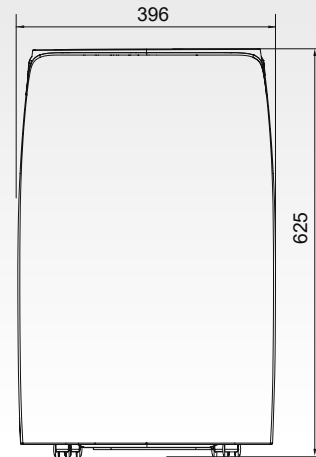
CFO-18P



CFO-20P



CFO-40P



units: mm

PORTABLE DEVICES

AIR PURIFIERS

MODEL			SP-45AN	SP-75UV			
Power supply		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-240			
Power input		W	80	70			
Rated current		A	0,4	0,3			
Sound pressure level		dB	19-51	22-57			
Cleaning volume		m ³ / h	340	600			
Optimal room size		m ²	10-45	10-75			
Dimension	w × h × d	mm	374 × 594 × 201	320 × 745 × 320			
Package dimension	w × h × d	mm	433 × 667 × 260	378 × 853 × 378			
Net / gross weight		kg	6,8 / 8,5	9,7 / 11,0			
Operating temperature		°C	0-40	0-40			

APPEARANCE AND DIMENSIONS OF UNITS

SP-45AN



Standard:

- 1pc HEPA filter
- 1pc active carbon filter
- 1pc cotton filter

Optional:

- SP-45AN: replaceable dust filters

SP-75UV



Standard:

- Filter SPF-75 (HEPA H13, active carbon filter and cotton filter)
- Colour indication of air quality
- Filter clogging indication

Optional:

- SPF-75: replaceable dust filters

COMMUNICATION MODULE SCMI-01.5C



GOAL TEMPERATURE UP TO -10 °C (COOLING) AND +50 °C (HEATING)

- SCMI-01.5C offers 4 basic operation modes:
 - Autonomous temperature control mode: The system changes its performance in order to achieve set temperature measured with T2 sensor. You can set temperature from -10 °C to +50 °C
 - Slave unit mode – OperatedU: You set the compressor performance directly via 0-10V input. Evaporating temperature depends on compressor performance and other conditions
 - When OperatedM mode is selected, the module is controlled externally via MODBUS protocol. The power is modulated by sending changes in the values of the relevant variables (according to the given instruction table), including the possibility of switching the heating/cooling mode.
 - Autonomous pressure (evaporating temperature) control mode for cooling only: The compressor performance changes based on evaporating pressure. You can set the pressure which corresponds with temperatures from -10 °C to +50 °C.
- Control of separate condensing units of UNI SPLIT 2 series
- Direct operation mode (cooling) or reverse operation mode (heating)
- Password protected setting
- Language options (CZ, EN, HU, HR, PL, DE)
- Pre-setting of all parameters via USB Communicator software including displaying the current running data.
- DIN rail compatible – 4M wide, installation in power distribution unit

DEFAULT SETTINGS

Function		Operated	
Goal Temp.	C (cooling)	+10,0 °C	
	H (heating)	+25,0 °C	
Outputs	Relay 1	Function	On/Off
		Logic	Direct
	Relay 2	Compressor	
	Relay 3	Error	
Regulation	Time constant	30sec	
	Proportional constant	150	
	Integration constant	1	
	Derivation constant	160	

TECHNICAL PARAMETERS

Power supply	V / Hz	
Rated power input	VA	230 / 50 ±10%
Dimension (wxhxd)	mm	15
Package dimension (wxhxd)	mm	90 × 71 × 58
Net / gross weight	kg	120 × 100 × 80
Storage temperature	°C	0,21 / 0,35
Operating temperature	°C	-25~+70
		-10~+55
Outputs		3x output relays 230 / 2V
Inputs		communication input
		2x input for temperature sensors
		1x voltage input 0-10V, resistance 100kΩ
		1x current input for pressure sensor 0-18bar
		1 × MODBUS communication input
Standard accessories		2x temperature sensor NTC015WF00 (10kΩ; B=3435)
Optional accessories		Pressure sensor Alco Controls PT5-18M

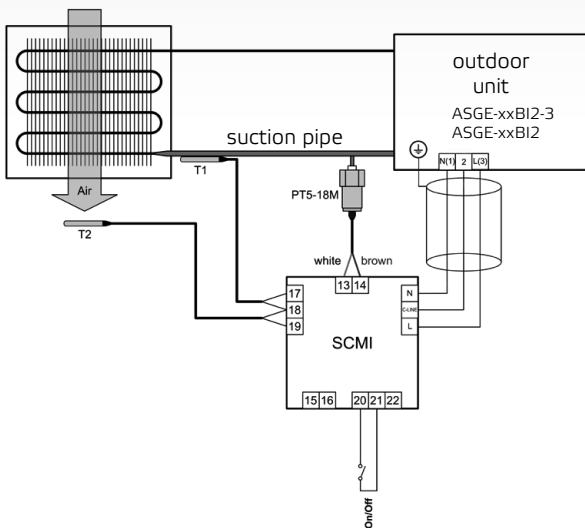
CONDENSING UNITS ASGE-XXBI2, ASGE-XXBI2-3

- Automatic protection of outdoor unit
- Automatic defrost of outdoor unit
- Informational error display placed on the main board.
- EC fan motor
- Electronic expansion valve as standard accessory
- Connection valves and terminal block on right side
- Compressor heater as standard accessory
- Bottom heater as standard accessory



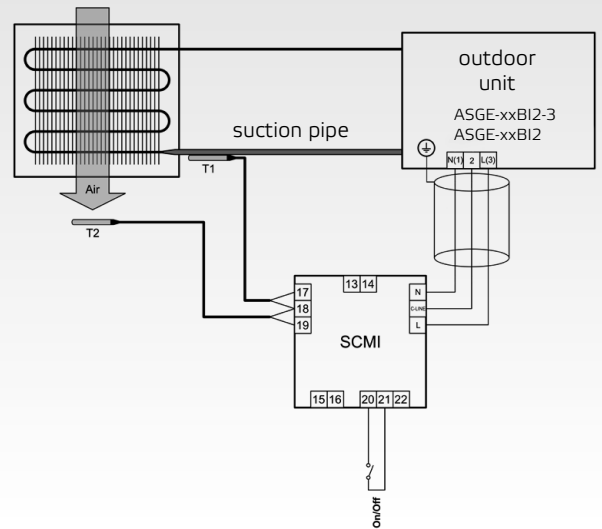
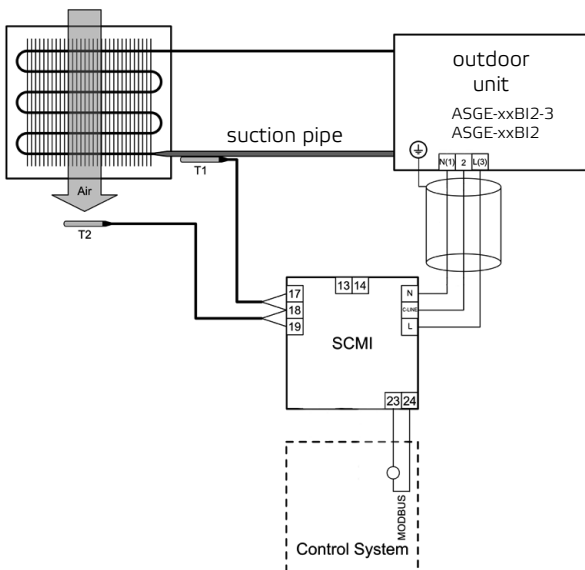
AUTONOMOUS TEMPERATURE CONTROL MODE FOR COOLING AND HEATING

Performance of the outdoor unit compressor is controlled to keep the temperature set for cooling/heating/ mode combi. The room temperature is measured with the resistance thermometer T2. It is necessary to set the requested temperature for cooling and heating manually. Use "21" and "22" non-potential contacts for switching between cooling and heating mode.



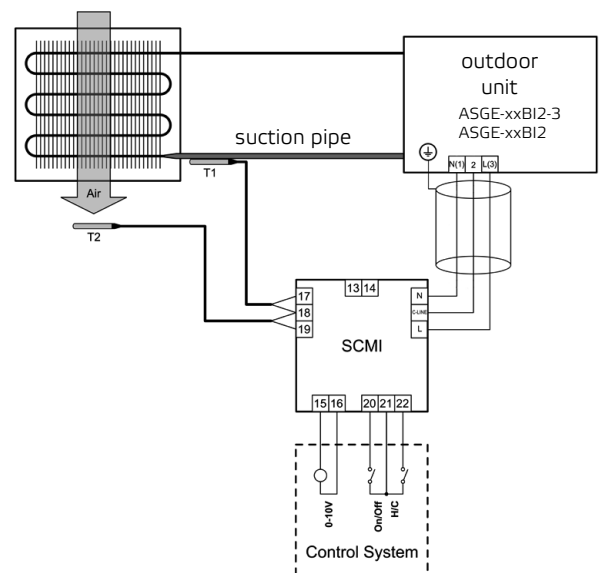
SLAVE UNIT MODE - OPERATED

Performance of the outdoor unit compressor is controlled with SCMI-01.4 module according to direct voltage 0-10V from an external supply. The voltage value corresponds with the desired compressor performance 0-100%. The unit can work in both modes – cooling and heating, H/C connectors are used for switching the modes.



AUTONOMOUS PRESSURE (EVAPORATION TEMPERATURE) CONTROL FOR COOLING

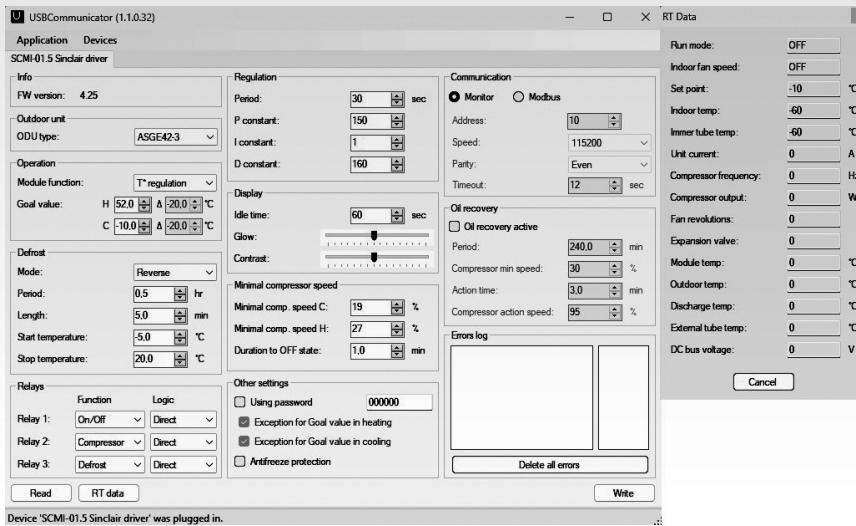
Performance of the outdoor unit compressor is controlled to keep the requested cooling temperature recalculated to appropriate refrigerant (R32) pressure.



MODBUS PROTOCOL CONTROLLED UNIT

The compressor output is controlled by writing the required value in % to the appropriate variable. Other functions (ON/OFF, cooling/heating, etc.) can be commanded in a similar way. The communication is two-way, so the system's running parameters can be read out remotely.

USB COMMUNICATOR



SOFTWARE FOR SCMI-01.5C CONTROL

- Distant setting
- Quick summary of all settings
- Real-time display of running parameters
- Language options (EN, DE, PL, CZ, HU, HR)
- Password setting
- View of error history, history eraser

OTHER FUNTIONS

SELF-DIAGNOSIS

- Stopping the system when failure has been detected
- Error code displaying on SCMI-01.5C
- Automatic defrost
- Possibility of forced defrost of the outdoor unit
- Remote control via WiFi

HEALTH FILTERS FOR WALL MOUNTED UNITS

SAF-OPWC4

CATECHIN FILTER

Catechin is a green tea extract added to the filters for its oxidizing and sterilizing effects. Active enzymes form a benzene nucleus which absorbs odors and harmful substances in the air. Catechin filter effectively captures and sterilizes dust particles. It is antibacterial and destroys more than 95% of bacteria, e.g., Staphylococcus aureus.

SAF-OPWA4

ACTIVE CARBON FILTER

Active carbon is an excellent absorbent with capability of dual absorption: physical and chemical, as from air and from fluids. Quickly absorbs harmful gases, e.g. benzene, formaldehyde and ammonia.

SAF-OPWB4

BIOLOGICAL FILTER

This filter is made of a material with excellent properties of sterilizing and capture of dust. When air flows through the filter, dust and bacteria are retained on the filter surface, which is bio-bactericidal. In case of attachment of microbes, bio-bactericidal surface disrupts its metabolism and limits its growth. Efficiency of capturing of Escherichia coli and Staphylococcus aureus is higher than 95%.

SAF-OPWS4

SILVER ION FILTER

Silver ion filter is an entirely new kind of powerful sterilizing product. Silver ions are odorless and colorless and have no side effects, such as irritation, pollution or volatility. After sterilization the ions recycle themselves, therefore have a long lifespan and effectively prevent bacterial growth. The filter is also environmentally friendly and completely safe. It is highly efficient and destroys over 99% of the bacteria. Silver ions themselves attract bacteria and microorganisms, pass through the cell membrane and inhibit the cleavage activity of the bacteria. Disrupts DNA structure of bacteria and microorganisms, causing a loss of reproductive ability of bacteria.

SAF-OPWP4

PHOTOCATALYST FILTER

Photocatalytic filter reduces odors and germs via its ultraviolet light. Effectively purifies the air and keeps it fresh. Titan TiO₂ contained in this filter has a strong photocatalytic effect, but it is also environmentally friendly. Removes from the air more than 90% of acetic acid, formaldehyde, ammonia and more than 70% of renewable pollutants.

SAF-OPWK4

COLD CATALYST FILTER

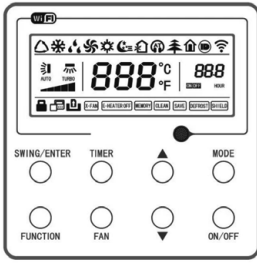
The basic material of the filter are polyurethane (PU) and various catalytic fibers. Effectively captures and removes formaldehyde and other volatile organic compounds (VOCs), as well as harmful gases and odors. The catalyst filter can remove up to 92,9% of formaldehyde from the air within 2,5 hours.

SAF-OPWM4

ANTI-MITE FILTER

Using this filter, you can quickly remove up to 90% of the dust mites from the air. This filter is especially useful for people suffering from allergies and asthma.

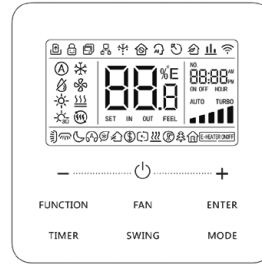
WIRED CONTROLLERS



SWC-04C

WIRED CONTROLLER

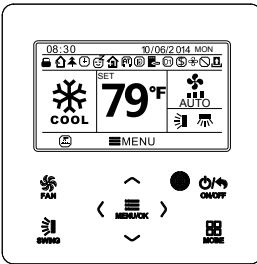
Standard accessory for new (BI2) duct MULTI VARIABLE units. Optionally can be connected to the indoor units of MULTI VARIABLE, KEYON (12k and higher), TERREL, MARVIN, SPECTRUM PLUS, SPLIT CONSOLE series. The controller allows direct communication with external MODBUS RTU system and contains WiFi module.



SWC-05W

WIRED CONTROLLER

Standard accessory for UNI SPLIT 2 duct units. Optional for UNI SPLIT 2 cassette, floor-ceiling indoor units. This controller has integrated WiFi module.



SWC-02C

WIRED CONTROLLER

Optional wired controller with weekly timer for the indoor units of MULTI VARIABLE, KEYON (12k and higher), TERREL, MARVIN, SPECTRUM PLUS, SPLIT CONSOLE series. Contains MODBUS gateway.



SWC-07

WIRED CONTROLLER

Optional wired controller for UNI SPLIT 2 series indoor units. The controller includes an integrated WiFi module and a weekly timer.



SC-H01

Cable for connection R32 split wall mounted units or MULTI VARIABLE wall mounted, console units or split CONSOLE units with wired controllers SWC-02 or SWC-04. Length of cable is about 8 meters.

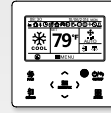
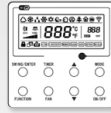


SC-CDF

Cable for connecting MULTI VARIABLE cassette, duct or floor-ceiling indoor units with wired controllers SWC-02 or SWC-04. Length of cable is about 8 meters.

TECHNICAL PARAMETERS

WIRED CONTROLLERS



Model	SWC-04C	SWC-02C	SWC-05W	SWC-07
On / Off	✓	✓	✓	✓
Mode selection	✓	✓	✓	✓
Temperature setting	✓	✓	✓	✓
Fan control	✓	✓	✓	✓
Swing louver	✓	✓	✓	✓
Save function setting	✓	✓	✓	✓
Room temperature display	✓	✓	✓	✓
Buttons lock	✓	✓	✓	✓
Function lock	-	✓	✓	✓
On / Off timer	✓	✓	✓	✓
Daily timer	-	✓	✓	✓
Weekly schedule timer	-	✓	-	✓
Two week schedule timer	-	✓	-	✓
Auto restart	✓	✓	✓	✓
Turbo mode	✓	✓	✓	✓
Blow (X-fan) mode	✓	✓	✓	✓
Quiet function	✓	✓	✓	✓
Sleep curve setting	✓	✓	✓	✓
Clock display	-	✓	✓	✓
Remote signal receiver	✓	✓	✓	✓
Clean filter reminder	-	✓	✓	✓
Error check function	✓	✓	✓	✓
Unit parameters view	-	✓	-	✓
°F / °C display	✓	✓	✓	✓
Slave / master controller setting	-	-	✓	✓
8 °C heating mode	✓	-	-	✓
Low temperature drying mode (12 °C)	-	-	✓	✓
Forced defrost mode	✓	✓	✓	✓
Setting (debugging) menu:	Error code history	✓	✓	✓
	Address setting for central controlling	✓	✓	✓
	Ambient temperature sensor setting	✓	✓	✓
	Fans speed level setting	✓	✓	✓
	Antifreeze protection of evaporator (E2) display	-	✓	✓
	Refrigerant leakage protection display	-	✓	✓
	Blow function setting	-	-	✓
	Crankcase heater setting	-	-	-
	Stand-by power consumption setting	-	-	-
	On / Off contact activation	-	✓	✓
	External device setting	-	-	✓
	Fan speed setting	-	-	✓
	Temperature compensation setting	-	✓	✓
	AUTO mode selection	-	-	✓
	Defrost mode selection	-	-	-
Heat pump enabled	✓	-	-	
Connection	SC-H01 / SC-CDF	SC-H01 / SC-CDF	2-core wire	2-core wire
Dimension	w × h × d	86 × 98 × 39	112 × 112 × 22	112 × 112 × 17

CENTRAL CONTROLLERS

SCC-36



CENTRAL CONTROLLER AND WEEKLY TIMER

- Stylish central controller with 7" touch screen
- Connects up to 36 indoor units
- User friendly interface
- Weekly timer
- Single or all units control

It can be used with UNI SPLIT 2 series (has to be connected via Modbus gateway SMG-01 – each indoor unit has to have one SMG-01) or when connected via wired controller SWC-02C or SWC-04C and communication cable SCC-36K it can be used with MULTI VARIABLE series, R32 wall mounted split units or split CONSOLE series (each indoor unit has to have one SWC-02C (SWC-04C) and two SCC-36K).

SCC-36K



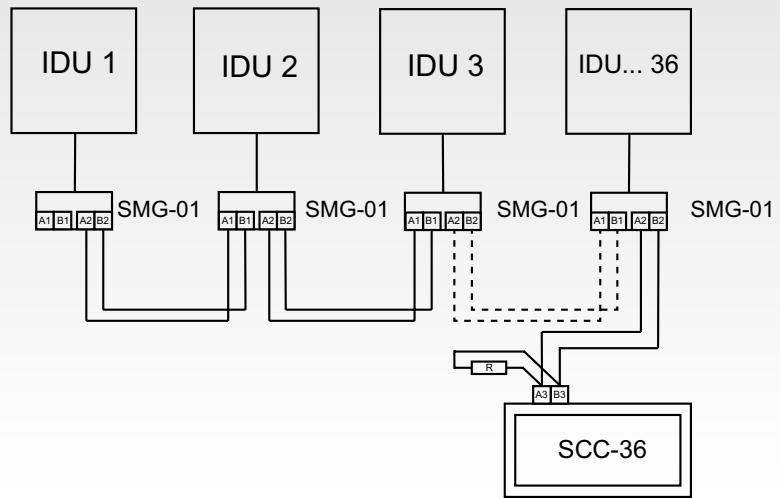
COMMUNICATION CABLE FOR CENTRAL CONTROLLER SCC-36

Used for connection of indoor units with central controller SCC-36 and wired controller SWC-02C or SWC-04C (for MULTI VARIABLE series, R32 wall mounted units or split Console series).

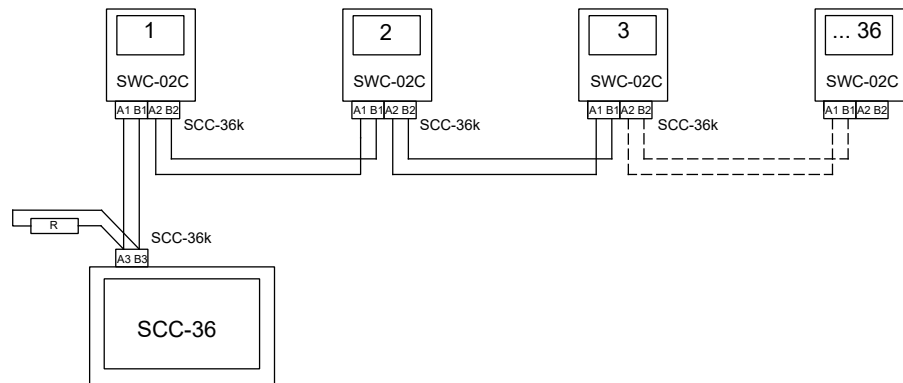
Order in amount 2N-1 where N is number of indoor units.

CONNECTING SCHEMAS

Central controller SCC-36 with UNI SPLIT 2 series



Central controller SCC-36 with multi variable, R32 wall mounted or split console series



OTHER ACCESSORIES

SBG-01



BACNET GATEWAY

Bacnet gateway allows external control via Bacnet protocol. One gateway can communicate with up to 255 indoor units. The connection is done via SWC-02C, SWC-04C or SMG-01, so the gateway is compatible with UNI SPLIT 2 series and with all indoor units that allow connection of SWC-02C or SWC-04C wired controller.

SCMI-03S



CONTROL MODULE

Control module for Air Conditioners in Server Rooms

- For 2 air conditioners in same room
- Periodic switching of the units
- Turning on the 2nd unit when there is lack of capacity
- Error signalization when limit temperature is exceeded

SMG-01



MODBUS GATEWAY FOR UNI SPLIT SERIES

Enables the communication of indoor units of UNI SPLIT 2 series via the Modbus protocol. It can be used for connecting SCC-36 central controller or for connection of external control system using Modbus protocol. Control software is not included, it has to be field supplied.

SDG-02



SINCLAIR DRY CONTACT GATEWAY

SDG-02 is an optional accessory for UNI SPLIT 2 series indoor units (ASC-xxBI2, ASD-xxBI2, ASF-xxBI2). It is a module with external contacts for safety shutdown of the air conditioner and for monitoring of the air conditioner operation and errors. It allows switching on and off the unit, forced shutdown of the unit and external switching between cooling and heating modes. Among the output signals you will find information about unit operation, error status, running mode and more.

The module is designed for indoor installation. It is connected directly to the connector on the PCB of the indoor unit with a 4-core cable, which is included in the package.

OTHER ACCESSORIES

G2S-T



GSM MODULE FOR TEMPERATURE MONITORING

G2S-T module is used for remote monitoring of room temperature. When the set temperature is exceeded, the module sends an information to user's mobile phone. Hence the module has to be equipped with a mini SIM card in order to secure the operation. G2S-T is stand-alone device, there is no connection between the module and the air conditioner itself. Therefore you can use our G2S-T module for all kinds of applications involving installations with devices of another brands.

SAI-01



ALARM INTERFACE

The SAI-01 SINCLAIR Alarm Interface is an external, separately powered module, which can be connected to the communication line of wall-mounted air conditioner to indicate the operational or malfunction status of the A/C.

SYSTEM ERROR DIAGNOSTICS

SDT-RAC

DIAGNOSTIC TOOL SDT-RAC

- For residential units - wall mounted, Multi Variable and UNI SPLIT 2 series
- Indoor and outdoor unit diagnostics
- Running parameters display
- Test of indoor and outdoor mainboard during communication malfunction
- User friendly (just 3 buttons)
- Simple display (4 lines)
- Connected to terminal boards of units



TECHHELP

SINCLAIR TECHHELP APP

- This practical tool is used for identification of error codes and their brief analysis.
- List of our products and their error codes, brief description of each error and suggested solution together with possible causes.
- Search comfortably by error code or device name
- Save the already installed devices between "My Devices" and have relevant information about errors available immediately



GENERAL OVERVIEW OF ERROR CODES

APPLIES TO WALL MOUNTED SPLIT UNITS AND TO MULTI VARIABLE SERIES

ERROR		Others	
E0	Start-up protection to adjust the frequency when the power input is low	AL	X-fan
E1	High pressure protection	C5	Malfunction of jumper cap
E2	Freeze protection	C6	Ground wire missing
E3	Low pressure protection, refrigerant lacking protection	CC	Wrong wired controller / locked buttons
E4	Compressor high discharge temperature protection	CP	Protection from cold air blowing
E5	Overcurrent protection of the complete unit	EE	Malfunction of outdoor main control memory chip
E6	Communication malfunction	ee	Malfunction of outdoor drive module memory chip
E7	Mode conflict	EU	Limit / decrease frequency due to module temperature protection
E8	Condenser overheating (IDU in heating mode)	H0	Decrease frequency for high temperature resistant in heating mode
E9	Full water protection	H1	Defrosting
Failure		H2	Electrostatic dedust protection
F0	Refrigerant lacking / system blockage protection	H3	Overload protection of compressor
F1	Indoor ambient temperature sensor is open / short circuited	H4	Overload protection
F2	Indoor evaporator temperature sensor is open / short circuited	H5	IPM protection (module current protection)
F3	Outdoor ambient temperature sensor is open / short circuited	H6	Malfunction of indoor fan motor
F4	Outdoor condenser temperature sensor is open / short circuited	H7	Desynchronizing of compressor
F5	Outdoor discharge temperature sensor is open / short circuited	H8	Water overflow protection
F6	Condenser overheat protection, lowering compressor frequency	H9	Electric heater malfunction
F7	Oil return cycle	Hc	PFC protection
F8	Limit/decrease frequency due to current protection of the complete unit	HE	Demagnetizing protection of compressor
F9	Decrease frequency due to high air discharge	Hp	Evaporator temperature is higher than 58 °C (heating mode)
FA	Limit/decrease frequency due to high evaporator or condenser temperature	JF	Malfunction of Wi-Fi module
FH	Limit/decrease frequency due to freeze protection	L3	Malfunction of ODU DC fan motor
Fo	Gathering refrigerant	L9	Power input protection
Protection	Gathering refrigerant	Lp	Indoor unit and outdoor unit do not match
P0	Drive module reset protection	U1	Malfunction of phase current circuit detection for compressor
P5	Overcurrent protection of compressor	Ld	Compressor phase lack protection
P6	Communication malfunction between main control and drive	U3	Malfunction of voltage dropping of DC bus-bar
P7	Malfunction of module temperature sensor circuit	U4	Compressor is reversing
P8	Module high temperature protection	U5	Malfunction of complete unit's current detection
P9	Zero-crossing protection	U6	High temperature protection of oil
PL	Voltage of DC bus-bar is too low	U7	The 4-way valve is abnormal
PH	Voltage of DC bus-bar is too high		
PU	Charging malfunction of capacitor		
PP	Input voltage is abnormal		

GENERAL OVERVIEW OF ERROR CODES

Module SCMI-01.5C error	
Error T1 open	Open circuit of temperature sensor T1
Error T2 open	Open circuit of temperature sensor T2
Error T1 short	Short circuit of temperature sensor T1
Error T2 short	Short circuit of temperature sensor T2
Error P open	Open circuit of pressure sensor P
Error P short	Short circuit of pressure sensor P
Error P low	Low pressure on suction side of compressor
Err. com disconnected	Communication malfunction between SCMI-01 module and outdoor unit
Error of NEW UNI DC INVERTER series outdoor unit	
A1	Outdoor fan IPM module protection
A6	Master control and DC outdoor fan driver communication error
Ac	Outdoor fan startup failure
Ad	Outdoor fan Phase-loss protection
AF	DC outdoor fan driver PFC protection
AJ	Outdoor fan out-of-step protection
AP	DC outdoor fan driver input AC voltage error protection
C2	Evaporator temperature sensor error
C3	Condenser temperature sensor error
C4	ODU jumper cap error
C6	Discharge temperature sensor error
C7	Condenser meso-temperature sensor error
C8	Compressor dial code or jumper cap abnormal
C9	Compressor driver memory chip failure
dc	Compressor suction temperature sensor error
dJ	AC sequence protection (phase loss or anti-phase protection)
E1	Compressor high pressure protection
E2	Anti-freeze protection
E3	Refrigerant lack protection or compressor low pressure protection
E4	Compressor air discharge high-temperature protection
E6	Communication error
EE	Memory chip reading and writing failure
EL	Emergency stop (fire alarm)
F3	Outdoor ambient temperature sensor error
H1	Ordinary defrosting state
H4	Overload protection
H5	IPM module current protection
H7	Compressor out-of-step protection
HC	PFC overcurrent protection
HE	Compressor demagnetize protection
L3	Outdoor fan 1 error
Lc	Compressor startup failure
LE	Compressor overspeed
LF	Power protection
LP	ODU version mismatched
oE	ODU error, for specific error please see the status of ODU main board indicator
P0	Driver reset protection
P5	Compressor phase over-current protection
P6	Master control and driver communication error
P7	Module temperature sensor circuit failure
P8	Driver module temperature protection
PA	ODU AC current protection
PE	Temperature drift protection
PF	Driveboard ambient temperature sensor error
PH	Bus high-voltage protection
PL	Bus low-voltage protection
PP	Input AC voltage error
PU	Capacitor charging failure
U5	Overall current detection failure
U7	4-way valve switch-over error
U8	Zero-crossing protection
UL	Outdoor fan overcurrent protection
Uo	Outdoor ambient temperature abnormal (Temperature high opening heat mode or temperature over low open refrigeration mode)*

EXPLANATORY NOTES:

- 1) Data are based on following conditions: Length of connection pipe: 5m. Cooling: indoor temperature 27 °C DB/19 °C WB, outdoor temperature 35 °C DB/24 °C WB. Heating condition: indoor temperature 20 °C DB/15 °C WB, outdoor temperature 7 °C DB/6 °C WB.
- 2) Data are based on following conditions: Length of connection pipe: 5m. Cooling: indoor temperature 27 °C DB/19 °C WB, outdoor temperature 35 °C DB/24 °C WB. Heating condition: indoor temperature 20 °C DB/15 °C WB, outdoor temperature 7 °C DB/6 °C WB.
- 3) SEER/SCOP was calculated according to European standards contained in EN14825, based on part load classifying and testing conditions given by norm EN14511. Energy label can be downloaded from Sinclair product web page after B2B login.
- 4) Noise is tested in the semi-anechoic room, so it should be slightly higher in the actual Operation due to environmental change.
- 5) Cooling mode
- 6) Standard length of liquid pipes pre-filled with refrigerant.
- 7) Maximum length of liquid pipes in one-way including elevation between indoor and outdoor unit.
- 8) Guaranteed range of operational temperatures.
- 9) Maximum length of liquid pipes to last indoor unit.
- 10) EER/COP in accordance with EN14511.
- 11) If the outdoor unit is power supplied, the cable between indoor unit and outdoor unit is also common for communication.
- 12) Data are based on following conditions: Cooling: indoor temperature 27 °C DB/19 °C WB, water temperature 25 °C, water temperature slope 5 °C, pressure 0Pa; Heating: indoor temperature 20 °C DB/15 °C WB, water temperature 15 °C, water flow same as for cooling, pressure 0Pa.

SH/MH/H/M/L/ML/SL super high / mid high / high / mid / low / mid low / super low

EXV electromagnetic expansion valve

R32 (100% HFC-32), GWP 675.

R290 (100% CH₃CH₂CH₃), GWP 3

R410A (50% HFC-32, 50% HFC-125), GWP 2088

R134A (100% HFC-134a), GWP 1300

R290 (100% CH₃CH₂CH₃), GWP 3

ID/OD indoor unit/outdoor unit

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The Company takes no responsibility for any damage arising out of using or interpretation of this catalogue.

The noise levels mentioned in this catalogue are values measured under ideal conditions, in an anechoic chamber.

These values can be influenced by local conditions (acoustical bouncing area, the equipment of the room, etc).

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.

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