

WALL MOUNTED SPLIT AIR CONDITIONERS

RAY SERIES

MODEL			SIH+SOH-09BIR	SIH+SOH-12BIR	SIH+SOH-18BIR	SIH+SOH-24BIR	
Capacity cooling/heating 1)	Nominal (min-max)	kW	2,7 (0,5-3,25) / 2,8 (0,5-3,5)	3,2 (0,9-3,6) / 3,4 (0,9-4,0)	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	735 / 695	991 / 916	1355 / 1340	1827 / 1912	
Maximal power input 2)		W	1500	1500	1900	2300	
Power current cooling/heating		A	3,5 / 3,3	4,4 / 4	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		-	6,6	6,1	6,4	6,8	
Annual power consumption cooling		kWh / annum	143	184	264	350	
Energy class heating 3)	Aver./Warm./Cool.	-	A++ / A+++ / B	A++ / A+++ / B	A++ / A+++ / B	A++ / A+++ / B	
Pdesign heating	Average climate	kW	2,5	2,7	3,7	4,7	
SCOP	Average climate	-	4,2	4,0	4,0	4,0	
Annual power consumption heating	Average climate	kWh / annum	833	945	1260	1645	
Airflow of ID	SH/H/M/L	m³ / h	550 / 500 / 430 / 290	590 / 520 / 400 / 320	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/H/M/L	dB(A)	40 / 36 / 34 / 23	41 / 37 / 33 / 26	44 / 42 / 38 / 31	48 / 45 / 37 / 30	
Sound pressure level of OD at 1m 4)	H	dB(A)	51	51	55	57	
Sound power of ID 4)	SH/H/M/L	dB(A)	55 / 48 / 44 / 36	56 / 49 / 45 / 38	54 / 52 / 48 / 41	58 / 55 / 47 / 40	
Sound power of OD 4)	H	dB(A)	62	64	63	65	
Dehumidifying volume		l / h	1,4	1,4	1,80	1,80	
Refrigerant type/charge		Type / kg / t eq. CO ₂	R32 / 0,5 / 0,34	R32 / 0,55 / 0,37	R32 / 0,75 / 0,51	R32 / 1,23 / 0,83	
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	¾ / 12,0	
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 x h x d	mm	773 x 250 x 185	773 x 250 x 185	970 x 300 x 225	970 x 300 x 225	
Dimensions of OD	w x h x d	mm	732 x 550 x 330	732 x 550 x 330	732 x 555 x 330	873 x 555 x 376	
Package dimension of ID	w x h x d	mm	822 x 322 x 255	822 x 322 x 255	1020 x 369 x 295	1020 x 369 x 295	
Package dimensions of OD	w x h x d	mm	792 x 615 x 393	792 x 615 x 393	794 x 615 x 376	951 x 620 x 431	
Weight of ID	net / gross	kg	8,5 / 9,5	8 / 9,5	13,5 / 16,0	13 / 15,5	
Weight of OD	net / gross	kg	25 / 27,5	25 / 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 x d	mm	455 x 310	455 x 310	455 x 310	528 x 349	
Communication cable		mm²	4 x 0,75 (5m included)				
Recommended power cable		mm²	3 x 1,5	3 x 1,5	3 x 1,5	3 x 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	-	-	-	-	
Dry contact (ON/OFF)			-	-	-	-	
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)	YAW1F5 (wifi)	YAW1F5 (wifi)	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, G2S-T, SAI-01, SWM-04	G2S, G2S-T, SAI-01, SWM-04	G2S, G2S-T, SAI-01, SWM-04	G2S, 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.

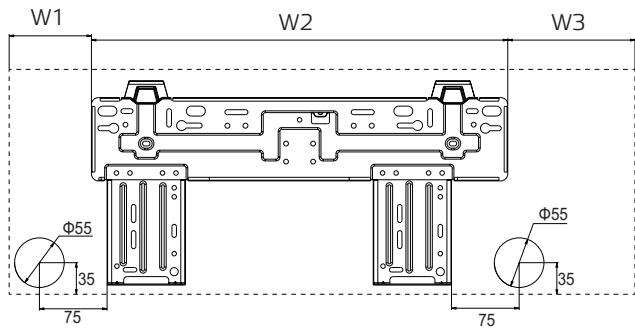
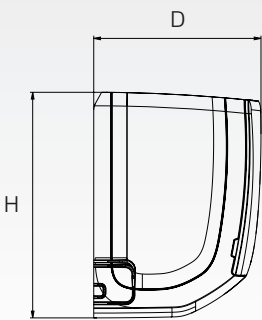
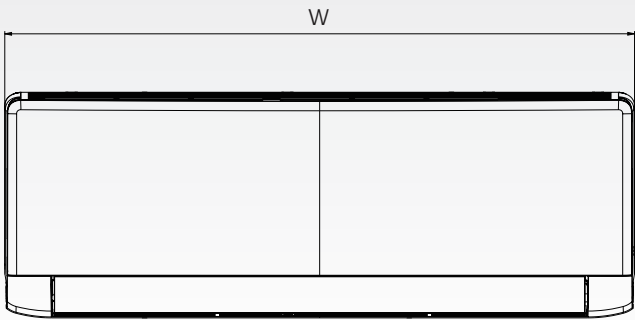
Explanatory notes on the very last page of the catalogue.

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

APPEARANCE AND DIMENSIONS OF INDOOR UNIT

RAY SERIES

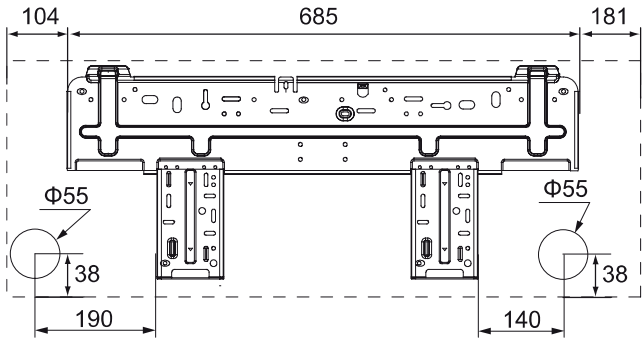
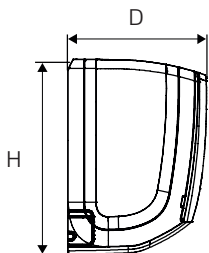
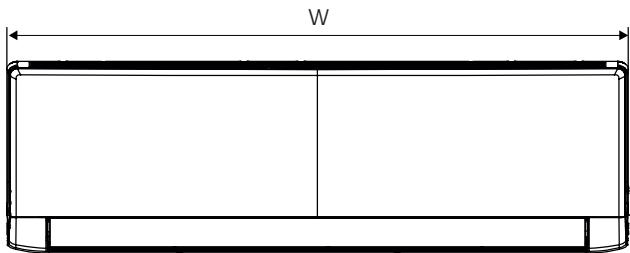
SIH-09BIR, SIH-12BIR



units: mm

Model	W	H	D	W1	W2	W3
SIH-09/12BIR	773	250	185	131	462	180

SIH-18BIR, SIH-24BIR



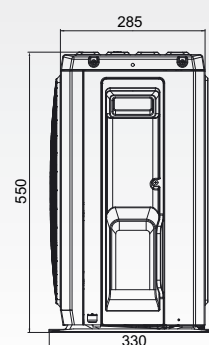
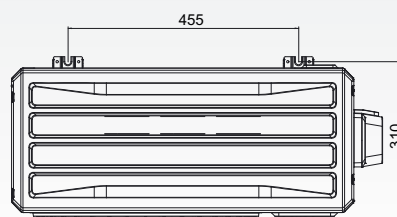
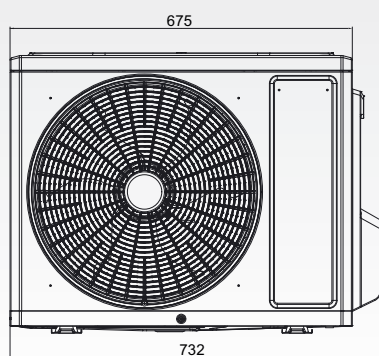
Model	W	H	D
SIH-18/24BIR	970	300	225

units: mm

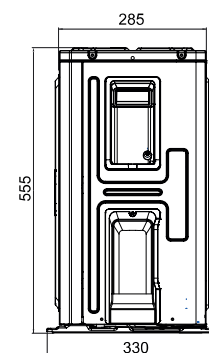
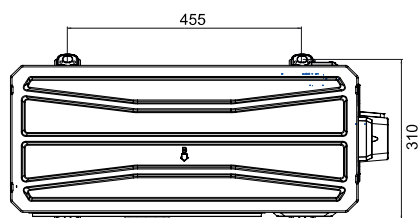
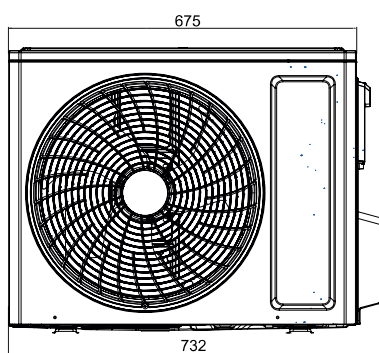
APPEARANCE AND DIMENSIONS OF OUTDOOR UNIT

RAY SERIES

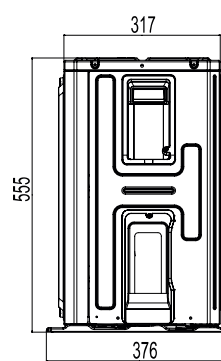
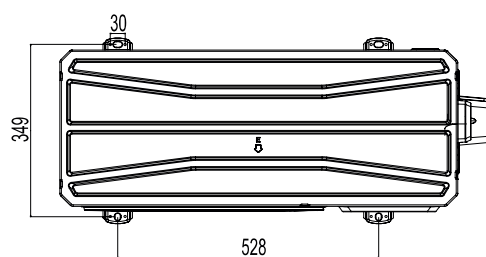
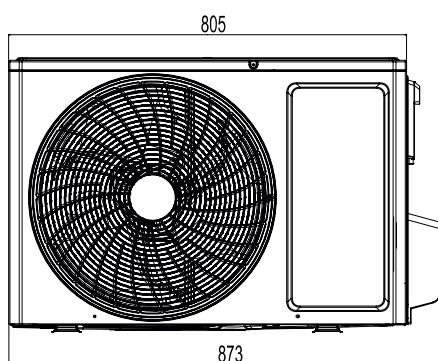
SOH-09BIR, SOH-12BIR



SOH-18BIR



SOH-24BIR



units: mm

ELECTRICAL WIRING DIAGRAM

RAY SERIES

INDOOR UNIT

