



Commercial R32 DUCTED MEDIUM PRESSURE

COMPACT DESIGN

The unit has a thickness of 248 mm which allows better adaptation and ease of installation.



CONDENSATE DRAIN

The medium-pressure ducted units includes a condensate drain pump as standard. This guarantees a maximum prevalence of 600 mm measured from the base of the machine. There is the possibility of performing condensate drain by gravity (reversible on both sides).



EASY INSTALLATION

- The connection of electrical cables is now possible through **only one screw**.
- The ducted units have two options for connecting the air extraction channel: **rear or lower**.



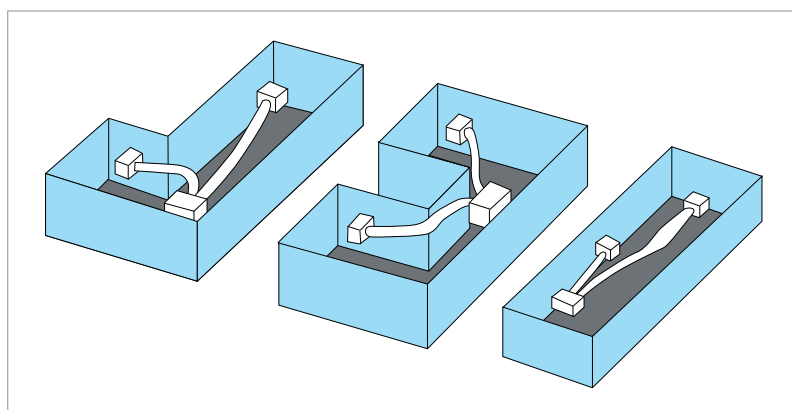
FRESH AIR

Air exchange allows introduction of clean air into the room.



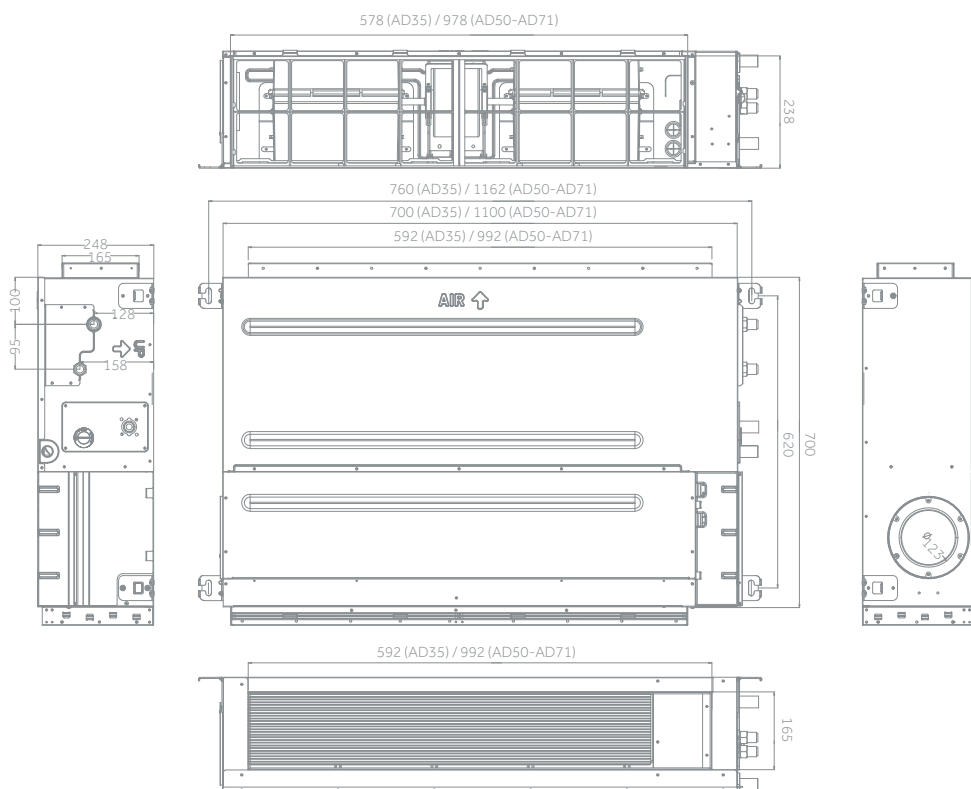
FLEXIBLE AIR DISTRIBUTION

The ducted units satisfy multiple installation solutions (circular or rectangular channels).

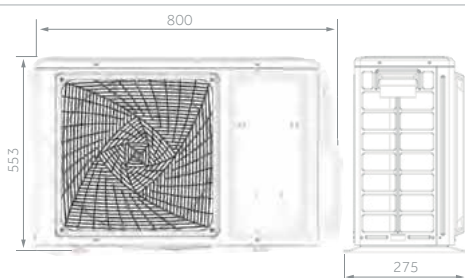




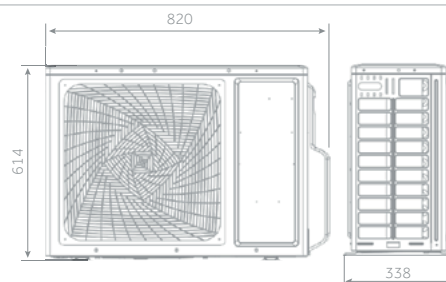
AD35 - AD50 - AD71



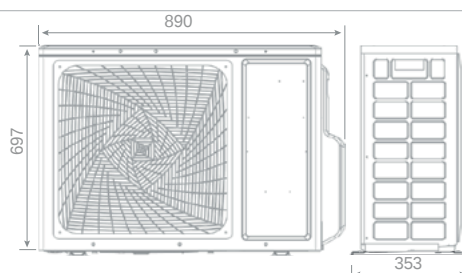
1U35



1U50



1U71



3.5kW

5.0kW

7.1kW

Commercial R32 DUCTED MEDIUM PRESSURE

Haier

3.5 kW

5.0 kW

7.1 kW

OPTIONAL CONTROL



Silence



Compact design



Fresh Air



Condensate drain
pump



Flexible installation



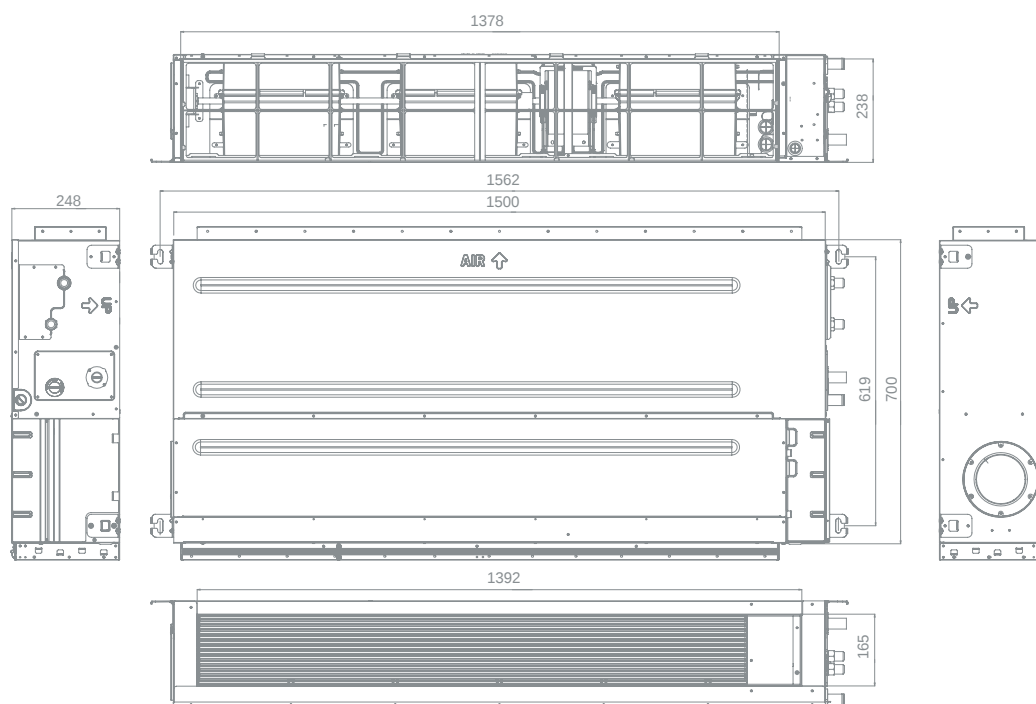
AD71S2SM3FA

- Low noise level
- Compact design
- 'Fresh air' knockout is incorporated in the chassis to allow fresh air introduction of up to 20% of nominal unit air flow without compromising the cooling capacity. More than 20% of the air conditioner's thermal cooling capacity is penalise.
- Condensate drain pump

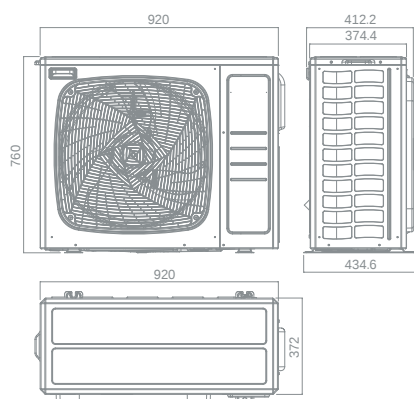
INDOOR UNIT		Model	AD35S2SM3FA	AD50S2SM3FA	AD71S2SM3FA
OUTDOOR UNIT		Model	1U35S2SM1FA	1U50S2SJ2FA	1U71S2SR2FA
Performance data					
Output power – COOLING	nom (min-max)	kW	3.5 (0.9 - 4.5)	5.0 (1.8 - 6.0)	7.1 (2.0 - 8.2)
Output power - HEATING	nom (min-max)	kW	4.0 (1.0 - 4.8)	6.0 (2.0 - 6.2)	7.5 (2.5 - 8.5)
Absorbed power - COOLING	nom (min-max)	kW	1.08 (0.28 - 1.8)	1.55 (0.55 - 2.0)	2.20 (0.5-3.0)
Absorbed power - HEATING	nom (min-max)	kW	1.08 (0.28 - 1.8)	1.48 (0.60-2.0)	2.02 (0.6 - 3.0)
Energy class	EER	w/w	3.23	3.23	3.23
	COP	w/w	3.71	3.71	3.71
COOLING Pdesign	35 °C	kW	3.5	5	7.1
HEATING Pdesign	(-10 °C)	kW	2.7	4.5	5.0
Energy class	SEER		6.10 (A++)	6.10 (A++)	6.10 (A++)
	SCOP		3.8 (A)	3.8 (A)	3.8 (A)
Annual Energy Consumption - COOLING		kWh/y	215	291	406
Annual Energy Consumption - HEATING		kWh/y	1020	1782	1827
Indoor Unit					
Power supply		Ph/V/Hz	1/220-240/50/60		
Treated air volume	H / M / L	m³/h	840/720/600/450	1020/900/780/550	1440/1260/1100/900
Dehumidification		L/h	1.2	1.8	2.5
Static pressure		Pa	25 (default)/37/50/70/ 90/100/110/120/130/150		
High sound power - COOLING		dB	55	56	58
High sound power - HEATING		dB	55	56	58
Sound pressure - COOLING		dB(A)	41/35/28/26	43/37/30/28	44/41/39/36
Sound pressure -HEATING		dB(A)	41/35/28/26	43/37/30/28	47/43/37/30
Net dimensions	WxDxH	mm	700x700x248	1100x700x248	1100x700x248
Net weight		Kg	26	32	31
Outdoor Unit					
Power supply		Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Sound power	H	dB	61	63	67
Sound pressure	H	dB(A)	48	51	54
Absorbed current	max	A	7.2	10.9	13.1
Net dimensions	WxDxH	mm	800x275x553	820x338x614	890x353x697
Net weight		Kg	31.5	37.8	45
Compressor type			Inverter rotary	Inverter twin rotary	
Compressor brand			Mitsubishi		
Installation data					
Refrigerant			R32	R32	R32
Liquid pipe	Ø	mm	6.35	6.35	9.52
Gas pipe	Ø	mm	9.52	12.7	15.88
Standard pipe length without refrigerant charge		m	7	7	10
Maximum pipe length		m	15	25	50
Maximum IU - OU elevation		m	10	15	30
Refrigerant charge in the factory		Kg	0.94	0.95	1.3
Equivalent tons of CO ₂		kg/tCO ₂ EQ	0.63	0.63	0.63
Additional charge ref. beyond std. length		g/m	20	20	45
Operating limits - COOLING	min-max	°C	21-35°C (in) / -10-43°C (out)		21-35°C (in) / -10-46°C (out)
Operating limits - HEATING	min-max	°C	10-27°C (in) / -15-24°C (out)		10-27°C (in) / -15-24°C (out)



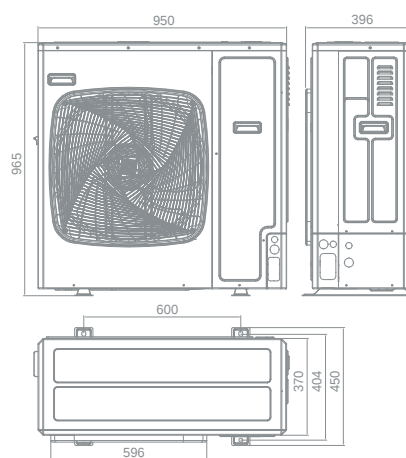
AD105 - AD125



1U105



1U125



10,5 kW



12,5 kW

Commercial R32 DUCTED MEDIUM PRESSURE

Haier

10.5 kW

12.5 kW

OPTIONAL CONTROL



Silence



Compact design



Fresh Air



Condensate drain
pump



Flexible installation



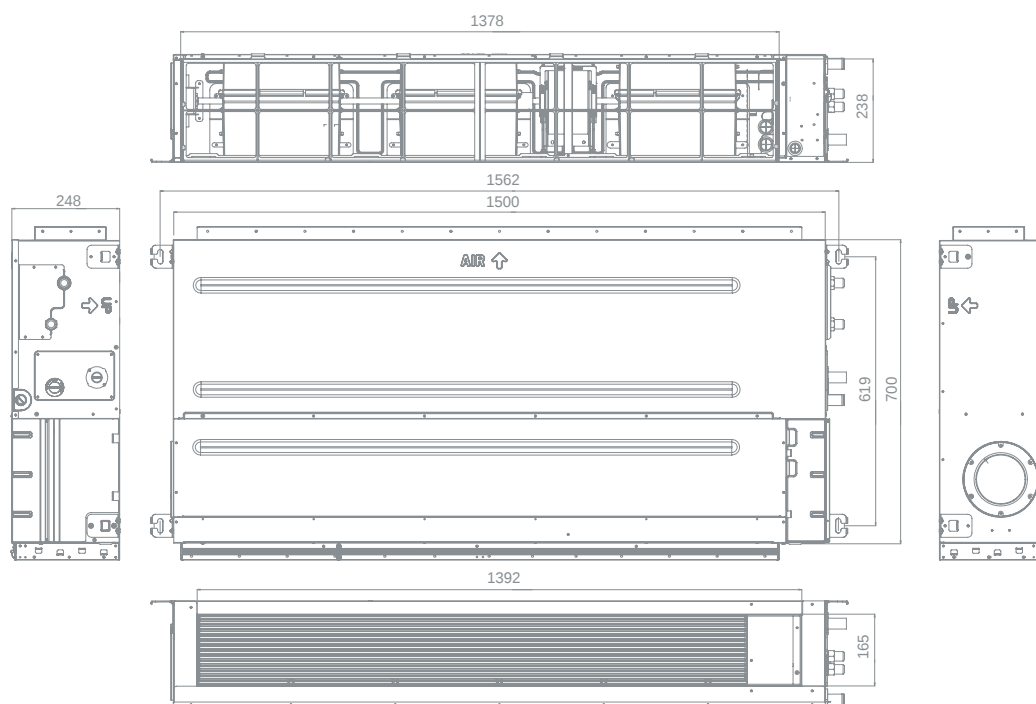
- Low noise level
- Compact design
- 'Fresh air' knockout is incorporated in the chassis to allow fresh air introduction of up to 20% of nominal unit air flow without compromising the cooling capacity. More than 20% of the air conditioner's thermal cooling capacity is penalise.
- Condensate drain pump

INDOOR UNIT	Model		AD105S2SM3FA	AD105S2SM3FA	AD125S2SM3FA	AD125S2SM3FA
OUTDOOR UNIT	Model		1U105S2SS1FA	1U105S2SS1FB	1U125S2SN2FA	1U125S2SN2FB
Performance data						
Output power – COOLING	nom (min-max)	kW	9.5 (2.5 - 10.0)	9.5 (2.5 - 10.0)	12.3 (3.0 - 13.0)	12.4 (3.0 - 13.0)
Output power - HEATING	nom (min-max)	kW	10.2 (3.0 - 10.5)	10.2 (3.0 - 10.5)	12.7 (3.5 - 13.5)	12.8 (3.5 - 13.5)
Absorbed power - COOLING	nom (min-max)	kW	3.16 (0.5 - 4.0)	3.00 (0.5 - 4.0)	4.60 (1.0 - 6.0)	4.51 (1.0 - 6.0)
Absorbed power - HEATING	nom (min-max)	kW	2.91 (0.5 - 4.0)	2.91 (0.5 - 4.0)	3.97 (1.0 - 6.0)	3.87 (1.0 - 6.0)
Energy class	EER		3.01	3.16	2.67	2.75
	COP		3.5	3.50	3.23	3.31
COOLING Pdesign	capacity (35°)	kW	9.5	9.5	12.3	12.4
HEATING Pdesign	capacity (-10°)	kW	7.2	7.0	8.0	8.0
Energy class	SEER		6.1 (A++)	6.1 (A++)	5.72	5.85
	SCOP		3.8 (A)	3.8 (A)	3.93	3.96
Annual Energy Consumption - COOLING		kWh/y	544	582	735	718
Annual Energy Consumption - HEATING		kWh/y	2792	2734	3032	3003
Indoor Unit						
Power supply		Ph-V-Hz	1/220-240/50/60			
Treated air volume	H / M / L	m³/h	1600/1480/1360/1240	1600/1480/1360/1240	2250/1960/1680/1500	2250/1960/1680/1500
Static pressure		Pa	25/37 (default) /50/70/90/100/110/120/130/150			
Sound power		dB	61	64	65	65
Sound pressure		dB(A)	47/44/40/37	47/44/40/37	39/36/33/31	39/36/33/31
Dimensions	WxDxH	mm	1500x700x248			
Net weight		Kg	46	46	48	48
Outdoor Unit						
Power supply		Ph-V-Hz	1/220-240/50/60	3/380-415/50/60	1/220-240/50/60	3/380-415/50/60
Sound power		dB	66	66	72	72
Sound pressure		dB(A)	53	53	58	58
Dimensions	WxDxH	mm	920x372x760	920x372x760	950x370x965	950x370x965
Net weight		Kg	60	61	89	90
Compressor type			Inverter twin rotary			
Compressor brand			Mitsubishi			
Installation data						
Refrigerant			R32	R32	R32	R32
Liquid pipe	Ø	mm	9.52	9.52	9.52	9.52
Gas pipe	Ø	mm	15.88	15.88	15.88	15.88
Standard pipe length without refrigerant charge		m	30	30	10	10
Maximum pipe length		m	50	50	70	70
Refrigerant charge in the factory		Kg	1.5	30	30	30
Maximum IU - OU elevation		m	30	1.5	2.3	2.3
Equivalent tons of CO ₂		kg/tCO ₂ EQ	1.01	1.01	1.55	1.55
Additional charge ref. beyond std. length		g/m	45	45	45	45
Operating limits - COOLING		min-max °C	(-10°C) - (46°C)			
Operating limits - HEATING		min-max °C	(-15°C) - (24°C)			

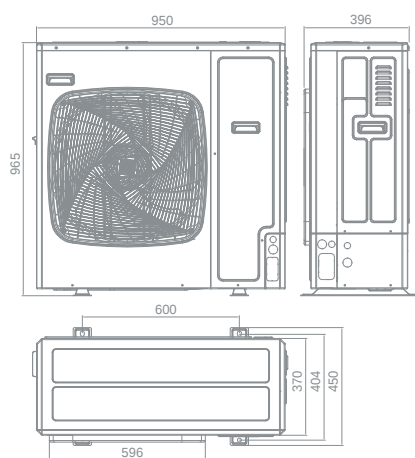
COMMERCIAL R32



AD140 - AD160



1U140



NEW



14,0 kW



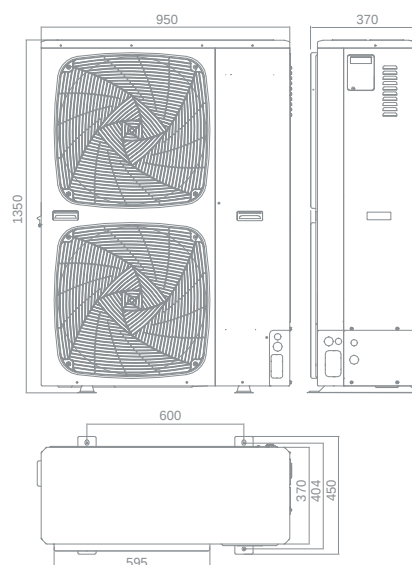
14,0 kW (IN ESAURIMENTO)

NEW



16,0 kW

1U140 - 1U160



Commercial R32 DUCTED MEDIUM PRESSURE

Haier

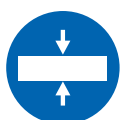
14.0 kW

16.0 kW

OPTIONAL CONTROL



Silence



Compact design



Fresh Air



Condensate drain
pump



Flexible installation



- Low noise level
- Compact design
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- Condensate drain pump

INDOOR UNIT	Model		AD140S2SM3FA	AD140S2SM3FA	AD140S2SM3FA	AD140S2SM3FA	AD160S2SM3FA
OUTDOOR UNIT	Model		1U140S2SP2FA	1U140S2SP2FB	1U140S2SN1FA	1U140S2SN1FA	1U160S2SP1FB
Performance data							
Output power – COOLING	nom (min-max)	kW	13.4 (3.5 - 14.0)	13.4 (3.5 - 14.0)	13.4 (4.0 - 15.0)	13.4 (4.0 - 15.0)	16.0 (4.5 - 16.5)
Output power - HEATING	nom (min-max)	kW	15.0 (4.0 - 15.5)	15.0 (4.0 - 15.5)	15.0 (4.5 - 16.0)	15.0 (4.5 - 16.0)	17.0 (5.0 - 18.0)
Absorbed power - COOLING	nom (min-max)	kW	5.28 (1.0 - 6.5)	5.18 (1.0 - 6.5)	4.17 (1.0 - 6.0)	4.15 (1.0 - 6.0)	5.48 (1.0 - 6.5)
Absorbed power - HEATING	nom (min-max)	kW	4.92 (1.0 - 6.5)	4.79 (1.0 - 6.5)	4.04 (1.0 - 6.0)	4.02 (1.0 - 6.0)	4.82 (1.0 - 6.5)
Energy class	EER		2.54	2.59	3.21	3.23	2.92
	COP		3.05	3.13	3.71	3.73	3.53
COOLING Pdesign	capacity (35°)	kW	13.4	13.4	13.4	13.4	16.0
HEATING Pdesign	capacity (-10°)	kW	8.5	8.5	11.0	11.0	11.0
Energy class	SEER		5.62	5.64	6.16	6.19	5.94
	SCOP		3.93	3.96	4.06	4.06	4.06
Annual Energy Consumption - COOLING		kWh/y	835	832	761	758	943
Annual Energy Consumption - HEATING		kWh/y	3032	3003	3796	3798	3798
Indoor Unit							
Power supply		Ph-V-Hz	1/220-240/50/60				
Treated air volume	H / M / L	m³/h	2500/2160 /1780/1500	2500/2160 /1780/1500	2500/2160 /1780/1500	2500/2160 /1780/1500	2500/2160 /1780/1500
Static pressure		Pa	25/37 (default) /50/70/90/100/110/120/130/150				
Sound power		dB	66	66	66	66	67
Sound pressure		dB(A)	41/36/33/31	41/36/33/31	41/36/33/31	41/36/33/31	41/36/33/31
Dimensions	WxDxH	mm	1500x700x248				
Net weight		Kg	48	48	48	48	48
Outdoor Unit							
Power supply		Ph-V-Hz	1/220-240/50/60	3/380-415/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60
Sound power		dB	72	72	70	72	72
Sound pressure		dB(A)	58	58	53	58	58
Dimensions	WxDxH	mm	950x370x965	950x370x965	950x370x1350	950x370x1350	950x370x1350
Net weight		Kg	89	90	105	101	101
Compressor type			Inverter twin rotary				
Compressor brand			Mitsubishi				
Installation data							
Refrigerant			R32	R32	R32	R32	R32
Liquid pipe	Ø	mm	9.52	9.52	9.52	9.52	9.52
Gas pipe	Ø	mm	15.88	15.88	15.88	15.88	19.05
Standard pipe length without refrigerant charge		m	30	30	30	30	30
Maximum pipe length		m	70	70	75	70	70
Refrigerant charge in the factory		Kg	30	30	30	30	30
Maximum IU - OU elevation		m	2.3	2.3	2.9	3.5	3.5
Equivalent tons of CO ₂		kg/tCO ₂ EQ	1.55	1.55	1.9	1.9	1.9
Additional charge ref. beyond std. length		g/m	45	45	45	45	45
Operating limits - COOLING		min-max °C	(-10°C) ~ (46°C)		(-10°C) ~ (50°C)		
Operating limits - HEATING		min-max °C	(-15°C) ~ (24°C)		(-20°C) ~ (24°C)		(-15°C) ~ (24°C)