

Condensing unit RAHU

Imoto 3,5-7,0 kW ^[R14]



1. Optional RCU-AHUBOX-1C module not included
2. Outdoor units have a 5-year warranty
3. RCU-AHUBOX module has a 2-year warranty

Unit features



Digital DC
Inverter SKY®



Automatic operation
mode
(heating/cooling)



Anti-corrosive
gold fins



Compatible with
AHUs
0-10V



Integrated
expansion valve



Drip tray
heater



Compressor
crankcase heater



Self-diagnostics

Characteristics of RAHU unit

The RCU-AHUBOX-1C communication module works with the Imoto I26Xo, I35Xo, I50Xo, I70Xo and UNICO UO35Xo, UO50Xo, UO70Xo, UO90Xo, UO100Xo, UO120Xo, UO140Xo, UO160Xo series of outdoor inverter units with outputs of 2,6 kW to 15,2 kW.

The Rotenso outdoor units, together with the air handling unit connection module, form an ideal solution for operating in both cooling and heating mode. One air handling unit requires at least one RAHU kit.

Control of the cooling/heating mode is via a 0-10V voltage signal in the performance range from 0 to 100%. The module is equipped with a defrost and alarm mode control output.

Technical specification

Air handling unit connection module				RCU-AHUBOX-1C			
EAN product code				5905567605130			
Control				0 - 10V			
RCU power supply type			V-Hz, Ø	220-240-50, 1f			
Control and power cables: outdoor unit - RCU			pcs × mm²	3 × 1,5			
Control cables: control unit - RCU			pcs × mm²	10 × 0,25			
Outdoor unit model				I26Xo R14	I35Xo R14	I50Xo R14	I70Xo R14
EAN product code				5905567600784	5905567600807	5905567600821	5905567600845
Capacity	Cooling	Nom. (Min. - Max.)	W	2638 (1026-3224)	3517 (1067-4381)	5275 (1934-6272)	7034 (3019-8792)
Rated input		Nom. (Min. - Max.)	W	613 (90-1140)	977 (130-1650)	1550 (150-2250)	2340 (340-3450)
Operating current		Nom. (Min. - Max.)	A	2,7 (0,4-5)	4,2 (0,6-7,2)	6,7 (0,7-9,8)	10,2 (1,5-15)
Capacity	Heating	Nom. (Min. - Max.)	W	2931 (821-3370)	3810 (1067-4381)	5568 (1290-7004)	7327 (1524-9466)
Rated input		Nom. (Min. - Max.)	W	637 (110-1080)	977 (160-1560)	1500 (220-2350)	2130 (300-3150)
Operating current		Nom. (Min. - Max.)	A	2,8 (0,5-4,7)	4,2 (0,7-6,8)	6,5 (1,0-10,2)	9,3 (1,3-13,7)
Reversible heat pump type				air-to-air	air-to-air	air-to-air	air-to-air
Fan speed		H / M / L	obr/min	780 / 640 / 450	800 / 710 / 450	810 / 700 / 650	830 / 700 / 550
Maximum air flow			m³/h	2150	2200	2100	3500
Sound pressure level			dB(A)	54	55	55	60
Sound power level			dB(A)	60	62	65	67
Net dimensions	W × D × H		mm	765 × 303 × 555	765 × 303 × 555	805 × 330 × 554	890 × 342 × 673
Gross dimensions	W × D × H		mm	887 × 337 × 610	887 × 337 × 610	915 × 370 × 615	995 × 398 × 740
Bracket spacing	W × D		(mm)	452 × 286	452 × 286	511 × 317	663 × 348
Net weight / Gross weight			kg	26,7 / 29,1	26,7 / 29,1	33,5 / 36,1	43,9 / 46,9
Refrigerant	Type			R32	R32	R32	R32
	GWP			675	675	675	675
	Quantity (up to 5 lm)	kg	0,62	0,62	1,10	1,45	
		TCO ₂ eq	0,42	0,42	0,74	0,98	
	Quantity (over 5 lm)		g/mb	12	12	12	24
Refrigerant volume for the air handling unit's exchanger			according to the technical specifications of the PBX				
Pipe connections	Liquid/Gas	mm (inches)	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ9,52 (1/4" / 3/8")	Φ6,35 / Φ12,7 (1/4" / 1/2")	Φ9,52 / Φ15,9 (3/8" / 5/8")	
Maximum installation length			m	8	8	8	8
Maximum height difference			m	1	1	1	1
Compressor type				Rotation DC	Rotation DC	Rotation DC	Rotation DC
Type of outdoor unit power supply			V-Hz, Ø	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f	220-240-50, 1f
Protection			A	C10	C10	C16	C16
Power cables: outdoor unit			pcs × mm²	3 × 1,5	3 × 1,5	3 × 2,5	3 × 2,5
Indoor operating range (Cooling / Heating)			°C	17-32 / 0-30	17-32 / 0-30	17-32 / 0-30	17-32 / 0-30
Outdoor operating range (Cooling / Heating)			°C	-15-50 / -22-30	-15-50 / -22-30	-15-50 / -22-30	-15-50 / -22-30
Outdoor unit compatibility							
1:1 SINGLE				●	●	●	●
RAHU				●	●	●	●

RAHU capacity determined based on a piping length of 8m and a level difference of 1m.
H-High, M-Mid, L-Low

Connection diagram

