

RAHU Condensing unit

Unico 7,0-15,2 kW ^[R15]



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 settings (heating/cooling)



Anti-corrosive gold fins



Operation with 0-10V control panels



Integrated expansion valve



Drip tray heater



Compressor crankcase heater



Self-diagnostics

Characteristics of RAHU unit

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

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

Control of the cooling/heating mode is made by a 0-10V voltage signal in the capacity range from 0 to 100%. The unit 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 × mm ²		3 × 1,5			
Control cables: control unit - RCU		pcs × mm ²		10 × 0,25			
Outdoor unit model				Unico UO70Xo R15	Unico UO90Xo R15	Unico UO140Xo R15	Unico UO160Xo R15
EAN product code				5905567613050	5905567613067	5905567606427	5905567606434
Capacity	Cooling	Nom. (Min. - Max.)	W	7092 (3224-7913)	8792 (2227-9964)	14067 (3517-14947)	15240 (4103-17291)
Rated input		Nom. (Min. - Max.)	W	2280 (750-2860)	2800 (190-3450)	4700 (810-6150)	5250 (1030-6650)
Operating current		Nom. (Min. - Max.)	A	9,9 (3,3-12,4)	12,2 (0,8-15)	7,9 (1,4-10,4)	8,9 (1,7-11,2)
Capacity	Heating	Nom. (Min. - Max.)	W	7972 (2784-8558)	9378 (2696-9994)	16119 (4103-17291)	17584 (4396-20515)
Rated input		Nom. (Min. - Max.)	W	2000 (640-2500)	2400 (430-2550)	4600 (950-5700)	5150 (950-6600)
Operating current		Nom. (Min. - Max.)	A	8,7 (2,8-10,9)	10,4 (1,9-11,1)	7,8 (1,6-9,6)	8,7 (1,6-11,1)
Reversible heat pump type				air-to-air			
Fan speed		H / M / L	obr/min	830 / 700 / 550	900 / 750 / 550	850 / 600 / 400	850 / 600 / 400
Maximum air flow			m ³ /h	3500	3800	7500	7500
Sound pressure level			dB(A)	60	60	64,5	65
Sound power level			dB(A)	69	70	73	74
Net dimensions		W × D × H	mm	890 × 342 × 673	946 × 410 × 810	980 × 375 × 975	980 × 375 × 975
Gross dimensions		W × D × H	mm	995 × 398 × 740	1090 × 500 × 885	1145 × 500 × 1080	1145 × 500 × 1080
Bracket spacing		W × D	(mm)	663 × 348	673 × 403	615 × 397	615 × 397
Net weight / Gross weight			kg	41,9 / 45,2	51 / 55,7	92 / 107	92 / 107
Refrigerant	Type			R32	R32	R32	R32
	GWP			675	675	675	675
	Quantity (up to 5 lm)	kg		1,4	1,8	2,9	3,2
		TCO ₂ eq		0,95	1,22	1,96	2,16
	Quantity (over 5 lm)	g/mb		24	24	24	24
Amount of refrigerant for the air handling unit's exchanger				according to the technical specifications of the PBX			
Pipe connections		Liquid/Gas	mm (inches)	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	Φ9,52 / Φ15,9 (3/8" / 5/8")	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			
Type of outdoor unit power supply		V-Hz, Ø		220-240-50, 1f	220-240-50, 1f	380-420-50, 3f	380-420-50, 3f
Protection		A		C16	C20	C16/3	C16/3
Power cables: outdoor unit		pcs × mm ²		3 × 2,5	3 × 2,5	5 × 2,5	5 × 2,5
Indoor operating range (Cooling / Heating)		°C		16-32 / 0-30	16-32 / 0-30	16-32 / 0-30	16-32 / 0-30
Outdoor operating range (Cooling / Heating)		°C		-15-50 / -20-24	-15-50 / -20-24	-15-50 / -20-24	-15-50 / -20-24
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

