

ECOi-RT-Z 40-50 C/H · R32 Technical Features

Size			
ECOi-RT-Z 40-50 H - cooling only		40	50
Cooling capacity ¹⁾	kW	40.8	50.5
Input power ¹⁾	kW	11.7	15.6
EER ¹⁾		3.49	3.24
Pdesign ^{2) 3)}	kW	40.8	50.5
SEER ^{2) 3)}		4.28	4.24
Energy efficiency class ^{2) 3)}	A+ to E	B	B
n _{s,c} ^{2) 3)}		168.3	166.7
ECOi-RT-Z 40-50 H - reversible			
Cooling capacity ¹⁾	kW	40.8	50.5
Input power ¹⁾	kW	11.7	15.6
EER ¹⁾		3.49	3.24
Pdesign ^{2) 3)}	kW	40.8	50.5
SEER ^{2) 3)}		4.28	4.24
Energy efficiency class ^{2) 3)}	A+ to E	B	B
n _{s,c} ^{2) 3)}		168.3	166.7
Heating capacity ¹⁾	kW	52.0	53.0
Input power ¹⁾	kW	11.3	14.7
COP ¹⁾		3.72	3.61
Pdesign ^{2) 3)}	kW	52.0	53.0
SCOP ^{2) 3)}		3.44	3.42
Energy efficiency class ^{2) 3)}	A+ to E	B	B
n _{s,h} ^{2) 3)}		134.4	133.6
Electrical data			
Power supply	Voltage	V	400
	Phase		Three phase
	Frequency	Hz	50
Refrigerant and compressors			
Number of refrigerant circuits		1	1
Compressors	Number / type	2 / Scroll	2 / Scroll
Mounting type		Tandem	Tandem
Capacity steps	%	0 / 50 / 100	0 / 50 / 100
Indoor coil			
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins
Outdoor coil			
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins
Indoor fans - EC type			
Fan type		Backward curved centrifugal	Backward curved centrifugal
Number of fans		2	2
Air flow rate	Min. / Nominal / Max.	m³/h	7500
			9200
Outdoor fans			
Fan	Number / type	2 / Axial	2 / Axial
Dimension and weight			
Dimension	L x W x H	mm	2484 x 1850 x 1652
Weight (without option)		kg	694
			712

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.



ECOi-RT-Z 105-140 H · R32 Technical Features

Size		105	120	140
ECOi-RT-Z 105-140 H - reversible		P-RTZ0105HA	P-RTZ0120HA	P-RTZ0140HA
Cooling capacity ¹⁾	kW	106	119	139
Input power ¹⁾	kW	31.5	36.8	43.0
EER ¹⁾		3.37	3.23	3.24
Pdesign ^{2) 3)}	kW	106	119	139
SEER ^{2) 3)}		3.82	3.82	3.67
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B
$\eta_{s,c}$ ^{2) 3)}		150	150	144
Heating capacity ¹⁾	kW	106	117	142
Input power ¹⁾	kW	27.0	30.3	38.0
COP ¹⁾		3.72	3.89	3.69
Pdesign ^{2) 3)}	kW	100	118	140
SCOP ^{2) 3)}		3.36	3.56	3.32
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B
$\eta_{s,h}$ ^{2) 3)}		131	130	130
Electrical data				
Power supply	Voltage	V	400	400
	Phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50
Maximum operating intensity	A	79.0	85.0	105.0
Refrigerant and compressors				
Number of refrigerant circuits		2	2	2
Compressors	Number / type	2 / Scroll	2 / Scroll	2 / Scroll
Mounting type		Single	Single	Single
Capacity steps	%	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100
Indoor coil				
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		4	4	4
Front surface	m ²	3.24	3.24	3.24
Outdoor coil				
Coil type		Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows		3	3	3
Front surface	m ²	1.50	1.50	1.50
Indoor fans - EC type				
Fan type		Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans		2	2	2
Air flow rate	Min. / Nominal / Max. m ³ /h	15360 / 19200 / 23040	17200 / 21500 / 25800	20400 / 25500 / 30600
Motor power	kW	4.23	4.60	5.72
Outdoor fans				
Fan	Number / type	2 / Axial	2 / Axial	2 / Axial
Motor power	kW	1.51	1.51	1.51
Sound levels				
Sound power	dB(A)	79.8	79.8	86.1
Supply sound power	dB(A)	84.2	84.2	91.3
Sound pressure at 10 m	dB(A)	48.8	48.8	55.1
Dimension and weight				
Dimension	Length total / floor	mm	3740 / 3295	3740 / 3295
	Width / Height	mm	2285 / 2150	2285 / 2150
Weight (without option)	kg	1685	1805	1855

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options

2 dampers - for external air inlet

3 dampers RECO - return EC plug fans included (HPF or LFP) + Recovery

Anti-vibration mounts

Clogged filter sensor (1 or 2 stages)

Compressor soft starter

Container transportation compatibility

Dehumidification function

Electric heater 48 kW

Energy meter

Accessories and options

Fan speed control

G4, G4+F7 or G4+F9 filters

Hot water coil

Local and additional remote keyboard

Many aeraulic configurations

Room temperature sensor

Sensors (enthalpy, CO₂)

Smoke detector

Supply EC LPF plug fans

Accessories supplied loose

P-575505 Kit adjustable roof curb S1R1 - 0/2 Dampers without gas



ECOi-RT C/H · R410A Technical Features

Size		55	65	80	95	105	120	140	160	190	210
ECOi-RT C EC fan - cooling only P-RTE****CA		0055	0065	0080	0095	0105	0120	0140	0160	0190	0210
Cooling capacity ¹⁾	kW	49.60	62.80	79.00	89.27	111.08	119.87	142.09	164.98	197.06	219.12
Input power ¹⁾	kW	15.85	19.44	23.24	28.80	33.56	37.10	47.09	51.19	60.61	71.54
EER ¹⁾		3.13	3.23	3.40	3.10	3.31	3.23	3.02	3.22	3.25	3.06
Pdesign ^{2) 3)}	kW	49.57	62.81	79.00	95.10	111.08	119.87	142.09	164.98	197.06	219.12
SEER ^{2) 3)}		3.57	3.58	3.74	3.54	3.66	3.57	3.52	3.91	3.94	3.71
Energy efficiency class ^{2) 3)}	A+ to E	B	B	B	B	B	B	B	B	B	B
n _{s,c} ^{2) 3)}		140	140	147	139	143	140	138	154	154	145
ECOi-RT H EC fan - reversible P-RTE****HA		0055	0065	0080	0095	0105	0120	0140	0160	0190	0210
Cooling capacity ¹⁾	kW	48.10	61.00	76.70	87.21	107.81	116.34	137.88	160.10	191.21	212.60
Input power ¹⁾	kW	15.82	19.49	23.24	28.97	33.56	37.10	45.69	51.19	60.61	70.47
EER ¹⁾		3.04	3.13	3.30	3.01	3.21	3.14	3.02	3.13	3.15	3.02
Pdesign ^{2) 3)}	kW	48.12	60.95	76.67	92.34	107.81	116.34	137.88	160.10	191.21	212.60
SEER ^{2) 3)}		3.53	3.52	3.63	3.52	3.55	3.52	3.52	3.80	3.82	3.65
Energy efficiency class ^{2) 3)}	A+ to E	B	C	B	C	B	B	B	B	B	B
n _{s,c} ^{2) 3)}		138.12	137.80	142.20	137.80	139.17	138.00	138.00	148.92	149.82	143.15
Heating capacity ¹⁾	kW	50.65	59.65	76.63	90.66	106.95	117.10	148.70	157.90	187.31	214.37
Input power ¹⁾	kW	14.81	17.49	21.77	26.59	30.38	34.14	42.85	46.17	54.29	62.68
COP ¹⁾		3.42	3.41	3.52	3.41	3.52	3.43	3.47	3.42	3.45	3.42
Pdesign ^{2) 3)}	kW	48.00	58.00	67.00	85.00	100.00	112.00	145.00	155.00	180.00	210.00
SCOP ^{2) 3)}		3.20	3.22	3.22	3.23	3.22	3.21	3.20	3.19	3.23	3.19
n _{s,h} ^{2) 3)}		125.00	125.80	125.80	126.20	126.00	125.00	125.00	125.00	126.00	125.00
Electrical data											
Power supply	Voltage	V	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50
Maximum operating intensity	A		46.30	57.60	74.60	83.80	89.80	103.00	123.00	157.80	178.60
Start intensity (without soft starter)	A		156.10	175.00	184.60	225.80	276.80	290.00	347.00	266.80	303.80
Start intensity (with soft starter)	A		69.96	85.68	113.60	125.40	139.20	152.40	185.40	198.10	203.40
Refrigerant and compressors											
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll	4 / Scroll	4 / Scroll
Mounting type			Single	Single	Single	Single	Single	Single	Tandem	Tandem	Tandem
Capacity steps	%		0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100
Crankcase heater	W		2 x 70	2 x 70	2 x 70	2 x 70	2 x 70	2 x 120	4 x 70	4 x 70	2 x 70 - 2 x 120
Indoor coil											
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			3	3	4	3	4	4	4	6	6
Front surface	m ²		1.50	1.80	2.25	2.25	3.24	3.24	3.24	3.24	3.24
Indoor fan(s) - EC type											
Fan type			Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans			1	1	2	2	2	2	2	2	2
Air flow rate	Minimum	m ³ /h	7760	9200	11440	14000	15600	17200	20400	24000	27500
	Nominal	m ³ /h	9720	11500	14300	17500	19500	21500	25500	28000	32000
	Maximum	m ³ /h	11640	13800	17160	21000	23400	25800	30600	33600	38400
Motor power	kW		3.5	5.7	5.8	7	7	11.4	11.4	13.5	13.5
Outdoor coil											
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			2	2	3	2	3	3	2	3	3
Front surface	m ²		0.76	1.01	1.01	1.50	1.50	1.50	1.50	2.70	2.70
Outdoor fans											
Fan type			Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Number of fans			2	2	2	2	2	2	4	4	4
Diameter	mm		630	710	710	800	800	800	800	800	800
Air flow rate	Nominal	m ³ /h	9800	13000	13000	20000	20000	20000	20000	15500	15500
Motor power	kW		0.62	0.94	0.94	1.65	1.65	1.65	1.65	0.84	0.84
Sound levels											
Sound power (lwo) - outside	C type	dB(A)	80	83	80	85	85	87	91	91	92
	H type	dB(A)	80	83	80	81	85	87	91	91	94
Sound power (lwi) - in supply duct	dB(A)		87	94	89	90	91	95	100	91	92
Dimension and weight											
Length	Total	mm	3250	3250	3250	3740	3740	3740	3740	5505	5505
	Floor	mm	2895	2895	2895	3295	3295	3295	3295	5050	5050
Width	mm		2030	2030	2030	2285	2285	2285	2285	2285	2285
Height	mm		1800	1800	1800	2110	2110	2110	2110	2110	2110
Weight (without option)	kg		1085	1155	1225	1470	1637	1757	1787	2350	2555

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.



ErP: ECOi-RT H and ECOi-RT C 105/160/190/210 need to be equipped with EC fans to be ErP compliant.
Eurovent certification from size 55 to 95.

