



TRANE



Airfinity One Rooftop



TRANE
TECHNOLOGIES

Airfinity One Rooftop



Cooling capacity: 40-136 kW

Heating capacity: 37-128 kW

- Optimum comfort and high Indoor Air Quality
- Energy savings: Free cooling and heat recovery solutions for maximum energy savings
- High performance: High efficiency hermetic scroll type compressors in tandem for high seasonal efficiency,
- Integrated and pre-configured controls that substantially reduce installation and commissioning time
- Best-in-class EC plug type ventilation fans and tandem scroll compressors, delivering high efficiency at both full load and part load



All-in-one system at the lowest operating costs

Airfinity™ rooftop air-to-air units combine heating, cooling, and ventilation all in one package, for simplified installation and operation. They are suitable for a wide range of applications, particularly where low initial cost and easy installation are important such as supermarkets, shopping malls, cinemas and restaurants.

With a strong legacy of proven reliability, Airfinity rooftops can deliver high seasonal efficiency standards capable of meeting even the most stringent European regulations. By reducing energy and maintenance costs, you can lower your cost of ownership.



Integrated plug & play solution

Our packaged system features integrated controls engineered to create the best possible comfort environment for your investment.

Equipped with EC plug fans and high efficiency tandem scroll compressors, Airfinity™ units are designed to adapt the fan rotation speed according to building load and ventilation requirements. Not only does this improve comfort for occupants by preventing cold drafts, it can also reduce energy consumption by 60% over the lifetime of the unit.

Empowering efficiency with highly configurable options and advanced Symbio™ 800 controller

Every Airfinity unit can be customized to meet your exact building type and application specifications. The wide range of options and accessories include energy saving solutions and a large selection of filtration options to increase indoor air quality.

Airfinity rooftop units connect directly to local ductwork, with or without a roof curb. Several airflow configurations are available, ensuring quick and hassle-free installation.

For colder climates, complementary heating sources are available such as gas burners or hot water coils.

The Symbio™ 800 controller efficiently manages your Airfinity One unit. This application-specific, programmable controller is factory-installed on all Trane packaged HVAC equipment. Its hardware and software are exclusively designed and manufactured by Trane, leveraging our extensive expertise in manufacturing and installing rooftop units worldwide. Experience optimal operation and enhanced efficiency with Trane's cutting-edge technology.

Simplified control solutions

Airfinity™ units are equipped with sensors that enable them to regulate the room temperature as soon as they are turned on. For tighter temperature and IAQ control, several options are available.

With the unique Trane Tracer™ Concierge building management system, you can manage multiple rooftop units in a cost-effective and easy way.



Range description

- Airfinity™ is available in 8 different sizes with a wide selection of energy saving and technical options and accessories.
- IC: Cooling-only and gas-fired units — IH: Reversible and dual fuel units

Technical specifications

Cooling capacity	40-136 kW
Heating capacity	37-128 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R454B R410A
Operating mode	Cooling only Heat pump
Energy saving	Heat recovery Free cooling
Compressor	Scroll

Product data

Airfinity One R410A cooling only

	Pc (1) kW	Pe(c) (1) kW	EER (1)	Qv nom (1) m3/h	ESP (1) Pa	Lwo Env (2) dB(A)	SEER (1) kW	ηs,c (1) %	H (3) mm	L (3) mm	W (3) mm	OW (3) kg
IC038	45,8	12,9	3,56	7800	85	83	4,88	192,4	1575	2830	2250	783
IC050	57,5	18,4	3,13	10100	110	86	4,51	177,4	1575	3020	2250	967
IC060	63,3	20,7	3,06	12100	110	86	4,23	166,2	1575	3020	2250	1005
IC065	76,2	24,3	3,14	14000	110	86	4,59	180,5	1575	3020	2250	1037
IC075	87,3	26,4	3,31	16100	135	86	4,67	184,0	1595	3900	2250	1203
IC085	92,2	29,7	3,10	17300	135	86	4,35	171,0	1595	3900	2250	1209
IC100	110,0	35,7	3,08	20200	135	87	4,03	158,2	1900	3900	2250	1399
IC110	122,8	40,9	3,00	22200	160	87	3,98	156,2	1900	3900	2250	1403
IC130	136,5	46,4	2,94	26000	160	91	3,78	148,2	1900	3900	2250	1403

Pc: Cooling Capacity

Qv nom: Nominal airflow rate

SEER: Seasonal energy efficiency ratio

L: Length

Pe(c): Total Power Inputs in cooling

ESP: External static pressure

ηs,c: Seasonal space cooling energy efficiency

W: Width

EER: Energy efficiency ratio in cooling

Lwo Env: A-weighted Sound Power Level outside

H: Height

OW : Operating weight

(1): Data According to EN14511:2022 nominal conditions (cooling: outdoor 35°C DB, Indoor 27°C DB/19°C WB) and Seasonal efficiency according to EN 14825:2022 (average climate).

(2): Sound power level according to ISO 9614:2009 (without accessories)

(3): Weight includes G4 filters, economizer and the full refrigerant charge

Airfinity One R454B cooling only

	Pc (1) kW	Pe(c) (1) kW	EER (1)	Qv nom (1) m3/h	ESP (1) Pa	Lwo Env (2) dB(A)	SEER (1) kW	ηs,c (1) %	H (3) mm	L (3) mm	W (3) mm	OW (3) kg
IC038 - R454B	43,8	12,3	3,54	7800	85	83	4,88	192,2	1575	2830	2250	783
IC050 - R454B	56,1	16,0	3,52	10100	110	86	4,78	188,4	1575	3020	2250	967
IC060 - R454B	61,1	18,7	3,27	12100	110	86	4,57	179,7	1575	3020	2250	1005
IC065 - R454B	71,3	22,6	3,15	14000	110	86	4,78	188,4	1575	3020	2250	1037
IC075 - R454B	83,1	25,4	3,27	16100	135	86	4,64	182,7	1595	3900	2250	1203
IC085 - R454B	88,2	31,3	2,82	17300	135	86	4,42	173,8	1595	3900	2250	1209
IC100 - R454B	105,4	35,6	2,96	20200	135	87	4,53	178,2	1900	3900	2250	1399
IC110 - R454B	117,3	41,7	2,81	22200	160	87	4,50	177,0	1900	3900	2250	1403
IC130 - R454B	134,1	46,6	2,88	26000	160	91	4,31	169,4	1900	3900	2250	1403

Pc: Cooling Capacity
 Qv nom: Nominal airflow rate
 SEER: Seasonal energy efficiency ratio
 L: Length

Pe(c): Total Power Inputs in cooling
 ESP: External static pressure
 ηs,c: Seasonal space cooling energy efficiency
 W: Width

EER: Energy efficiency ratio in cooling
 Lwo Env: A-weighted Sound Power Level outside
 H: Height
 OW : Operating weight

(1): Data According to EN14511:2022 nominal conditions (cooling: outdoor 35°C DB, Indoor 27°C DB/19°C WB) and Seasonal efficiency according to EN 14825:2022 (average climate).

(2): Sound power level according to ISO 9614:2009 (without accessories)

(3): Weight includes G4 filters, economizer and the full refrigerant charge

Airfinity One R410A

	Pc	Pe(c)	EER	Qv nom	ESP	Ph	Pe(h)	COP	Lwo Env	SEER	ηs,c	SCOP	ηs,h	H	L	W	OW
	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(1)	(1)	(1)	(1)	(3)	(3)	(3)	(3)
	kW	kW		m ³ /h	Pa	kW	kW		dB(A)		%		%	mm	mm	mm	kg
IH038	43,7	12,6	3,46	7800	85	42,1	11,4	3,70	84	5,00	196,9	3,31	129,6	1565	2830	2250	824
IH050	60,6	18,6	3,25	10600	110	57,9	16,6	3,48	87	5,16	203,3	3,25	127,0	1565	3010	2250	1022
IH060	66,3	20,8	3,19	12100	110	63,4	18,0	3,53	87	4,91	193,2	3,33	130,3	1565	3010	2250	1027
IH065	76,2	25,5	2,99	13700	110	74,4	21,6	3,44	87	4,81	189,4	3,32	129,7	1565	3010	2250	1047
IH075	87,0	27,4	3,18	15700	135	82,9	22,7	3,65	87	4,98	196,3	3,58	140,1	1585	3890	2250	1203
IH085	87,7	31,8	2,76	16700	135	81,0	23,8	3,41	87	4,56	179,4	3,35	131,0	1585	3890	2250	1217
IH100	104,9	37,3	2,81	19800	135	103,4	28,2	3,67	87	4,41	173,4	3,33	130,2	1890	3890	2250	1408
IH110	113,9	42,7	2,67	21600	135	114,3	32,3	3,54	87	4,23	166,2	3,52	137,8	1890	3890	2250	1412
IH130	129,2	48,4	2,67	25500	160	129,1	37,4	3,45	92	4,05	159,0	3,33	130,2	1890	3890	2250	1412

Pc: Cooling Capacity
 Qv nom: Nominal airflow rate
 Pe(h): Total Power Inputs in heating
 SEER: Seasonal energy efficiency ratio
 ηs,h: Seasonal space heating energy efficiency
 W: Width

Pe(c): Total Power Inputs in cooling
 ESP: External static pressure
 COP: Coefficient of performance in heating
 ηs,c: Seasonal space cooling energy efficiency
 H: Height
 OW : Operating weight

EER: Energy efficiency ratio in cooling
 Ph: Heating Capacity
 Lwo Env: A-weighted Sound Power Level outside
 SCOP: Seasonal coefficient of performance
 L: Length

(1): Data According to EN14511:2022 nominal conditions (cooling: outdoor 35°C DB, Indoor 27°C DB/19°C WB; heating: 7°C DB.6°C WB, indoor 20°C DB) and Seasonal efficiency according to EN 14825:2022 (average climate).

(2): Sound power level according to ISO 9614:2009 (without accessories)

(3): Weight includes G4 filters, economizer and the full refrigerant charge

Airfinity One R454B

	Pc	Pe(c)	EER	Qv nom	ESP	Ph	Pe(h)	COP	Lwo Env	SEER	ηs,c	SCOP	ηs,h	H	L	W	OW
	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(1)	(1)	(1)	(1)	(3)	(3)	(3)	(3)
	kW	kW		m ³ /h	Pa	kW	kW		dB(A)		%		%	mm	mm	mm	kg
IH038 - R454B	41,5	12,1	3,44	7800	85	39,5	10,7	3,69	84	4,96	195,3	3,24	126,6	1565	2830	2250	824
IH050 - R454B	56,5	16,3	3,46	10600	110	51,5	14,0	3,67	87	5,39	212,6	3,24	126,5	1565	3010	2250	1022

IH060 - R454B	62,5	19,2	3,27	12100	110	57,8	16,2	3,57	87	5,22	205,8	3,25	127,0	1565	3010	2250	1027
IH065 - R454B	70,9	22,8	3,11	13700	110	66,6	18,8	3,55	87	5,05	199,0	3,26	127,3	1565	3010	2250	1047
IH075 - R454B	81,7	25,6	3,19	15700	135	76,2	20,8	3,66	87	4,92	193,9	3,46	135,3	1585	3890	2250	1203
IH085 - R454B	85,7	30,6	2,80	16700	135	78,8	23,5	3,36	87	4,67	183,8	3,28	128,2	1585	3890	2250	1217
IH100 - R454B	104,2	35,1	2,97	19800	135	100,6	27,2	3,70	87	4,57	179,8	3,51	137,4	1890	3890	2250	1408
IH110 - R454B	114,7	41,0	2,80	21600	135	111,8	30,7	3,64	87	4,34	170,6	3,51	137,4	1890	3890	2250	1412
IH130 - R454B	130,6	46,5	2,81	25500	160	128,0	36,8	3,48	92	4,17	164,0	3,38	132,2	1890	3890	2250	1412

Pc: Cooling Capacity

Qv nom: Nominal airflow rate

Pe(h): Total Power Inputs in heating

SEER: Seasonal energy efficiency ratio

$\eta_{s,h}$: Seasonal space heating energy efficiency

W: Width

Pe(c): Total Power Inputs in cooling

ESP: External static pressure

COP: Coefficient of performance in heating

$\eta_{s,c}$: Seasonal space cooling energy efficiency

H: Height

OW : Operating weight

EER: Energy efficiency ratio in cooling

Ph: Heating Capacity

Lwo Env: A-weighted Sound Power Level outside

SCOP: Seasonal coefficient of performance

L: Length

(1): Data According to EN14511:2022 nominal conditions (cooling: outdoor 35°C DB, Indoor 27°C DB/19°C WB; heating: 7°C DB.6°C WB, indoor 20°C DB) and Seasonal efficiency according to EN 14825:2022 (average climate).

(2): Sound power level according to ISO 9614:2009 (without accessories)

(3): Weight includes G4 filters, economizer and the full refrigerant charge

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.



Read more <https://trane.eu/rental>

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.eu or tranetechnologies.com.