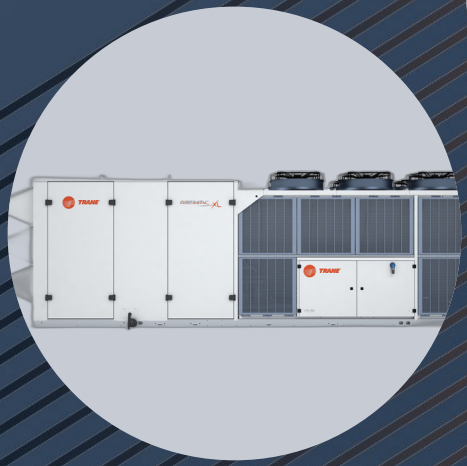

Airfinity XL Large Rooftop

TRANE
TECHNOLOGIES

Airfinity XL Large Rooftop

Cooling capacity: 140-247 kW | **Heating capacity: 136-239 kW**

- Optimum comfort and high Indoor Air Quality
- Energy savings: Free cooling and heat recovery solutions for maximum energy savings
- High performance: High efficiency variable VI type compressors, connected 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™ XL 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 XL 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™ XL is available in 7 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	140-247 kW
Heating capacity	136-239 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 XL 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
IC140	141,1	42,8	3,30	24000	160	88	4,82	189,8	2275	5618	2250	2156
IC150	154,9	50,1	3,09	26000	185	88	4,63	182,2	2275	5618	2250	2164
IC170	172,1	57,7	2,98	28000	185	88	4,45	175,0	2275	5618	2250	2232
IC190	196,9	69,1	2,85	33000	185	95	4,12	161,8	2275	5618	2250	2357
IC220	213,5	80,5	2,65	36000	185	95	3,81	149,2	2275	5618	2250	2436
IC250	234,1	87,2	2,68	42000	185	96	3,82	149,8	2275	6518	2250	2681
IC270	247,4	93,8	2,64	46000	185	96	3,69	144,7	2275	6518	2250	2686

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
*: Sizes IC 220 - 250 - 270 R410A and R45B are out of scope of Eurovent certification program

Airfinity XL 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
IC140 - R454B	139,7	41,2	3,39	24000	160	88	4,86	191,4	2275	5618	2250	2156
IC150 - R454B	153,4	47,7	3,22	26000	185	88	4,64	182,6	2275	5618	2250	2164
IC170 - R454B	170,0	54,5	3,12	28000	185	88	4,58	180,2	2275	5618	2250	2232
IC190 - R454B	194,5	64,8	3,00	33000	185	95	4,09	160,6	2275	5618	2250	2357
IC220 - R454B	212,3	75,4	2,82	36000	185	95	3,83	150,2	2275	5618	2250	2436
IC250 - R454B	233,7	82,2	2,84	42000	185	96	3,75	147,0	2275	6518	2250	2681
IC270 - R454B	247,7	88,9	2,79	46000	185	96	3,71	145,3	2275	6518	2250	2686

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
*: Sizes IC 220 - 250 - 270 R410A and R45B are out of scope of Eurovent certification program

Airfinity XL R410A

	Pc (1) kW	Pe(c) (1) kW	EER (1)	Qv nom (1) m3/h	ESP (1) Pa	Ph (1) kW	Pe(h) (1) kW	COP (1)	Lwo Env (2) dB(A)	SEER (1)	ηs,c (1) %	SCOP (1)	ηs,h (1) %	H (3) mm	L (3) mm	W (3) mm	OW (3) kg
IH140	139,4	42,8	3,26	24000	160	136,3	38,4	3,55	88	4,87	191,8	3,39	132,6	2275	5618	2250	2316
IH150	153,2	50,4	3,04	26000	185	152,6	44,5	3,43	88	4,65	183,0	3,39	132,6	2275	5618	2250	2324
IH170	163,1	57,0	2,86	28000	185	170,1	50,0	3,40	89	4,43	174,2	3,47	135,8	2275	5618	2250	2382
IH190	187,7	69,3	2,71	33000	185	196,1	61,9	3,17	95	4,29	168,6	3,28	128,2	2275	5618	2250	2493
IH220	202,3	81,9	2,47	36000	185	219,0	72,4	3,02	96	3,84	150,5	3,35	130,9	2275	5618	2250	2565
IH250	221,5	90,3	2,45	42000	185	254,7	92,9	2,74	97	3,70	145,1	3,31	129,3	2275	6518	2250	2760
IH270	236,5	97,3	2,43	42000	185	272,1	103,0	2,64	97	3,91	153,5	3,38	132,2	2275	6518	2250	2763

Pc: Cooling Capacity
Pe(c): Total Power Inputs in cooling
EER: Energy efficiency ratio in cooling
Qv nom: Nominal airflow rate
ESP: External static pressure
Ph: Heating Capacity
Pe(h): Total Power Inputs in heating
COP: Coefficient of performance in heating
Lwo Env: A-weighted Sound Power Level outside
SEER: Seasonal energy efficiency ratio
ηs,c: Seasonal space cooling energy efficiency
SCOP: Seasonal coefficient of performance
ηs,h: Seasonal space heating energy efficiency
H: Height
L: Length
W: Width
OW : Operating weight

(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
*: Sizes IH 220 - 250 - 270 R410A and IH 250 - 270 R45B are out of scope of Eurovent certification program

Airfinity XL R454B

	Pc (1) kW	Pe(c) (1) kW	EER (1)	Qv nom (1) m3/h	ESP (1) Pa	Ph (1) kW	Pe(h) (1) kW	COP (1)	Lwo Env (2) dB(A)	SEER (1)	ηs,c (1) %	SCOP (1)	ηs,h (1) %	H (3) mm	L (3) mm	W (3) mm	OW (3) kg
IH140 - R454B	137,2	42,1	3,26	24000	160	135,5	38,0	3,57	88	4,82	189,8	3,47	135,8	2275	5618	2250	2316
IH150 - R454B	150,2	48,8	3,08	26000	185	151,5	43,1	3,52	88	4,65	183,0	3,52	137,8	2275	5618	2250	2324
IH170 - R454B	161,2	55,6	2,90	28000	185	166,7	47,6	3,50	89	4,38	172,2	3,57	139,8	2275	5618	2250	2382
IH190 - R454B	185,1	67,1	2,76	33000	185	194,8	59,4	3,28	95	4,16	163,4	3,37	131,8	2275	5618	2250	2493
IH220 - R454B	200,7	79,0	2,54	36000	185	218,1	69,0	3,16	96	3,85	151,0	3,34	130,6	2275	5618	2250	2565
IH250 - R454B	223,4	88,5	2,52	42000	185	249,1	86,5	2,88	97	3,61	141,5	3,27	127,9	2275	6518	2250	2760
IH270 - R454B	238,9	95,6	2,50	42000	185	266,7	96,2	2,77	97	3,77	147,8	3,33	130,1	2275	6518	2250	2763

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
*: Sizes IH 220 - 250 - 270 R410A and IH 250 - 270 R45B are out of scope of Eurovent certification program

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 – 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.*