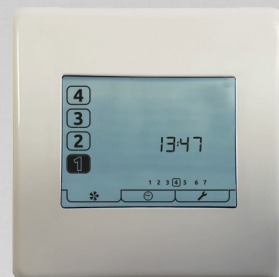


BROOKVENT
aircycle
T20

ENERGY EFFICIENT VENTILATION

WITH HEAT RECOVERY



1,73 W/m³/h
SPECIFIC FAN
POWER

92%
HEAT
RECOVERY

BROOKVENT aircycle[↻] T20

Aircycle T 20 units are designed to achieve very high: airflow levels - up to 640 m³ / h and heat recovery efficiency - up to 92%. The combination of these features makes the aircycle T 20 suitable to medium and large houses.



Features & Advantages

- Versatile, very compact
- Patented design
- Quick assembly with the use of a dedicated bracket
- Very low specific fan power - 1,73 W/m³/h
- Low energy EC centrifugal fans
- Energy class A
- Highly efficient heat exchanger: to 92%
- Air flow up to 640 m³/h at 100 Pa
- Fully configurable boost mode
- Option to use external switches to activate the boost mode
- Intelligent automatic summer bypass
- SUMMERboost function automatically increasing the flow when excessive temperature is detected
- Intelligent protection against exchanger freezing, through controlled reduction of supply air flows
- Automatic humidity control by built-in humidistat
- Independent control of supply and exhaust fans and exhaust
- G4 class filters as standard (F7 optional)
- Option to install flaps for easy filter replacement
- The option of using an enthalpy heat exchanger heat exchanger, which in addition to heat recovery also provides moisture recovery
- Enthalpy exchanger made with technology Microban®, which provides protection against mold and bacteria

Additional options available for the BC version:

- Option to use the aircycle digital T wifi controller
- Application control option (iOS, Android) using the aircycle digital T wifi controller
- Option to control an external duct pre-heater
- Compatibility with BMS via RS485



How does a heat recovery ventilation unit work?

Heat recovery is the process of recovering heat energy in order for it to be reused. In ventilation systems, this consists in recovering heat from the exhausted, used up air and transferring this heat to the supply air. Polluted air is extracted from rooms such as: kitchen, bathroom, toilet through a network of ventilation ducts and fresh air is blown into the living room, bedrooms. Air distribution is most often performed through diffusers connected to appropriate ducts. The system works continuously and the fresh and heated air is additionally cleaned thanks to built-in filters.

Thanks to the application of a modern counter-flow heat exchanger in the heat recovery ventilation unit, where the supplied and extracted air streams are tightly separated from each other, polluted air does not get mixed with fresh air. The exchanger, by making use of temperature differences between the air streams, heats up the cooler one. The Brookvent heat recovery systems are very efficient since, depending on the AHU model, they are able to recover even up to 93% heat.

The proposed ventilation system has been designed so that it guarantees effective ventilation in the entire house or apartment.

Digital T/wifi controller

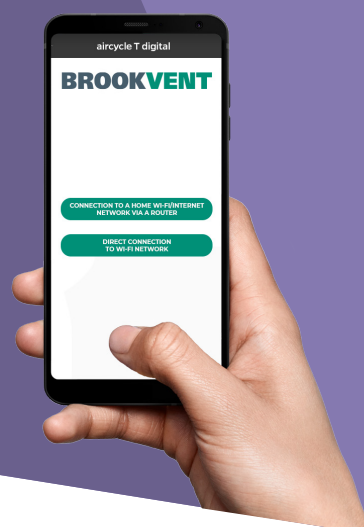
The improved remote control controller has been designed to meet the requirements of the most demanding user. The universal nature of the device allows you to adjust the system settings to the requirements of every project, giving residents freedom to control its functions.

Features & Advantages

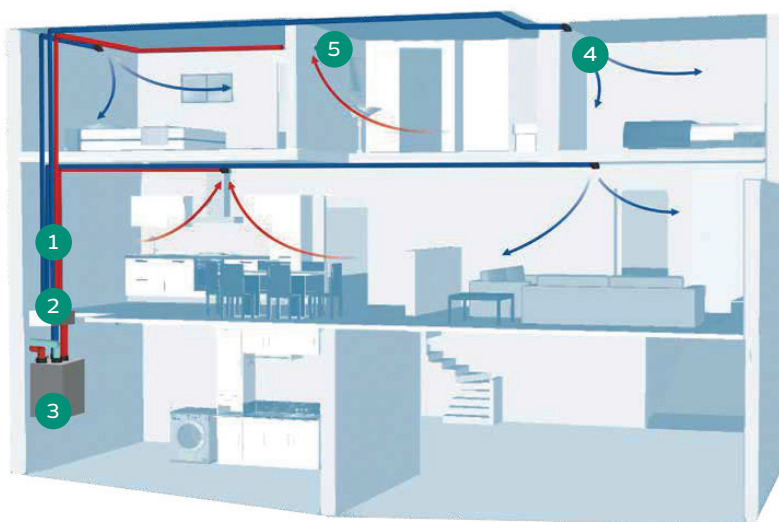
- Controller ensuring quick and simple installation and use of the heat recovery ventilation unit
- Clear menu based on universal symbols
- Continuous monitoring of the unit's technical condition
- Failure messages displayed directly on the controller
- Option to install the controller directly on the unit
- Option to install the controller outside the unit with a connection cable
- Possibility to plan the work schedule of the heat recovery unit in hourly and weekly range
- Possibility to connect to a pre-heater

Additional options available for the BC version with digital T wifi:

- Option to connect via a wifi network or the own network generated by the controller
- Application control option



An example of a complete heat recovery system:



1 Semi-rigid round cable



2 Insulated cables



3 aircycle T20



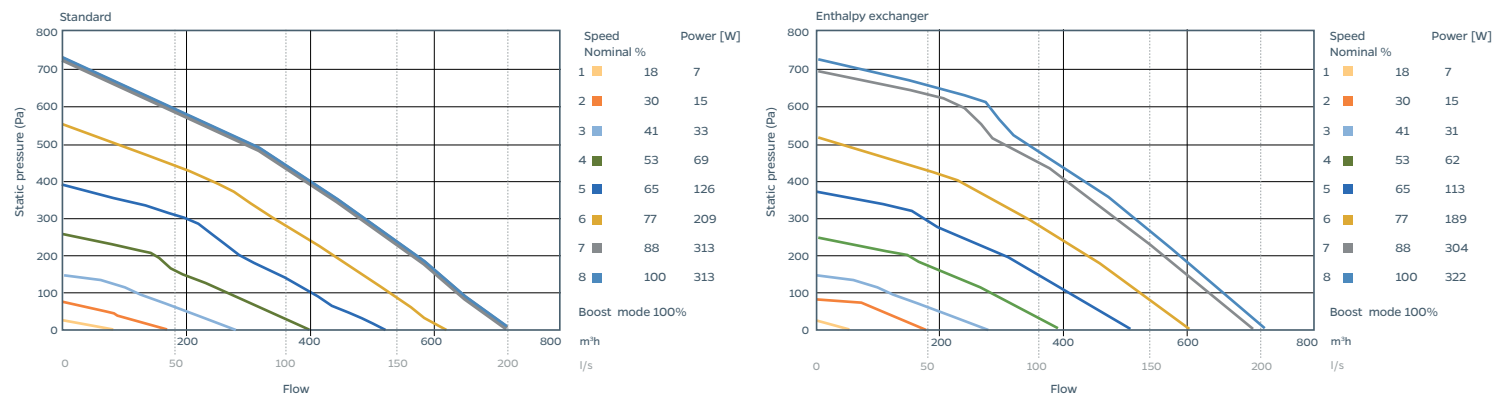
4 Diffuser – supply of air



5 Diffuser – extraction of air

aircycle T 20

Performance charts



Acoustic data

Speed							63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Tot. LW	Tot. LWA	Emissions from housing dB(A) @ 3m
18%	65	m³/h	(18 l/s)	@	2 Pa	Extract	26	27	28	27	23	20	24	22	52	34	13
						Supply	22	23	23	22	17	18	24	22	49	31	
						From the housing	8	16	20	24	24	23	24	22	38	31	
30%	158	m³/h	(44l/s)	@	7 Pa	Extract	34	46	48	44	40	37	28	23	65	51	20
						Supply	33	41	37	34	26	23	24	22	61	44	
						From the housing	13	31	30	34	29	24	24	23	49	38	
41%	259	m³/h	(72 l/s)	@	18 Pa	Extract	41	57	55	53	52	50	41	29	75	61	27
						Supply	28	48	46	43	37	34	27	23	64	51	
						From the housing	18	38	38	41	36	31	25	23	55	45	
53%	360	m³/h	(100 l/s)	@	33 Pa	Extract	46	55	62	67	59	58	50	40	77	69	35
						Supply	32	44	59	52	44	43	33	25	69	60	
						From the housing	23	35	48	49	43	38	29	23	59	52	
65%	457	m³/h	(127 l/s)	@	51 Pa	Extract	50	59	71	72	66	65	57	48	83	76	42
						Supply	37	48	63	58	50	49	39	29	73	64	
						From the housing	27	38	57	53	48	44	37	28	67	59	
77%	554	m³/h	(154 l/s)	@	77 Pa	Extract	54	62	77	75	72	70	62	53	88	80	44
						Supply	41	49	67	59	55	53	44	34	77	68	
						From the housing	31	41	59	57	53	49	40	29	67	62	
88%	652	m³/h	(181 l/s)	@	97 Pa	Extract	57	66	87	81	75	73	66	58	97	89	50
						Supply	50	51	74	68	57	56	48	39	84	45	
						From the housing	44	44	64	63	56	52	44	33	76	67	
100%	680	m³/h	(189 l/s)	@	100 Pa	Extract	57	65	87	80	75	73	67	58	96	88	49
						Supply	50	52	74	68	57	56	49	39	84	75	
						From the housing	43	44	63	62	56	52	44	33	75	66	

Specification

Weight: 46kg **Warranty:** 3 years

- Connections with the diameter: 200 mm
- Left and right versions available
- IP32 certification
- Filters: ISO Coarse 60% (G4) as a standard and ISO ePM1 50% (F7) as an option
- Warranty period: 3 years
- Electrical data: 230V ~ 50/60Hz, 3A fuse

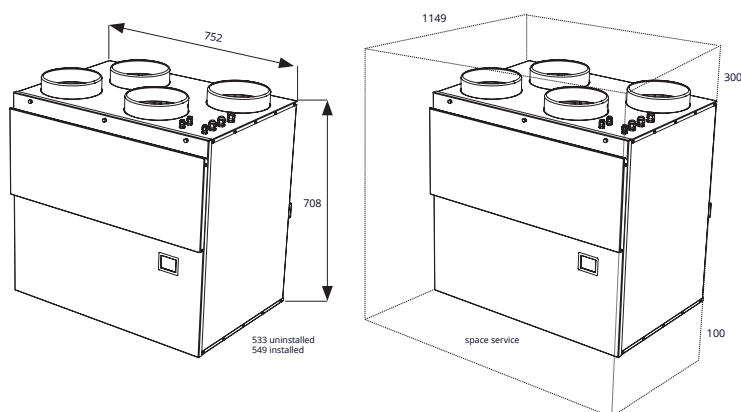
Materials used:

- Housing: galvanized sheet metal, powder coated white
- Interior: Expanded polypropylene (EPP)
- Heat exchanger: Polystyrene
- Internal insulation: Closed-cell foamed nitrile rubber, fire resistance class „O“

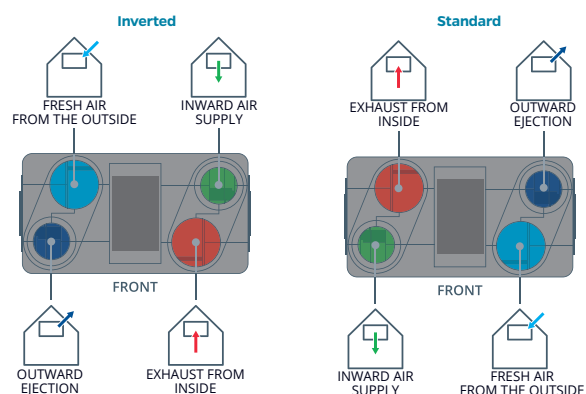
Available versions of aircycle T 20

aircycle T 20 Product codes	21213500	21213600	21213700	21213800	21213900	21214000	21214100	21214200	21214300	21214400	21214500	21214600
Configuration												
Inverted	•		•		•		•		•		•	
Standard		•		•		•		•		•		•
Version												
HMB	•	•										
BC			•	•	•	•	•	•	•	•	•	•
Exchanger												
Standard exchanger	•	•	•	•	•	•	•	•				
Enthalpy exchanger									•	•	•	•
Control												
No built-in control												
Built-in potentiometers												
Built-in Digital T controller	•	•	•	•								
Built-in Digital T wifi controller					•	•	•	•	•	•	•	•
Possibility to connect a pre-heater			•	•	•	•	•	•	•	•	•	•
Filter access												
Detachable panel												
Door	•	•	•	•	•	•	•	•	•	•	•	•
Filters												
Inlet G4 / Outlet G4	•	•	•	•	•	•			•	•		
Inlet F7 / Outlet G4							•	•			•	•

Dimensions (mm)



Channel configuration



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