



DESIGNING INNOVATIVE SOLUTIONS

AIR CONDITIONING SOLUTIONS



RELIABLE



EFFICIENT



SMART



FLEXIBLE

Packaged Rooftop Units

Cooling Capacity 22-215 kW - Heating Capacity 24-229 kW

50/48 UC-(V) / UP-(V) 025-220





50/48 UC-(V)/UP-(V) Packaged Rooftop Unit

All In One Packaged Solutions

The 50/48 UC-(V)/UP-(V) new generation rooftops are completely redesigned and all models' efficiencies are over Ecodesign (EU 2016/2281) requirements, which will be valid in Europe in 2021. According to Ecodesign regulation, seasonal efficiency should be over 3.00 and 3.53 in cooling (SEER) and 2.95 and 3.20 in heating (SCOP) for the years 2018 and 2021 respectively. The 50/48 UC-(V)/UP-(V) Carrier rooftops reach 2021 efficiency standards in seasonal efficiency, while all the models are A class in full load according to EN 14511-2018 standard.

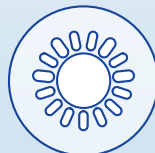
<p>13 different models between 25-220 kW</p> <hr/> <p>All Models A Class in Full Load (EER, COP)**</p>	<p>SMARTVU™ Touch Screen Coloured Human Machine Interface*</p>	<p>All Models Ecodesign 2021 Compliant in Seasonal Efficiency (SEER, SCOP)</p>	<p>High Efficient EC Plug Supply* and Return Fans</p>	<p>Thermodynamic and Rotary Energy Recovery Options</p>
<p>Unit Integrated High Efficient Condensing Gas Heater</p>	<p>Bottom, Top, Side Air Inlet-Outlet Availability</p>	<p>Inverter Compressor Single Circuit Units* (025, 035, 045, 055) Double Circuit Units (065, 075, 090, 105, 125, 140, 160, 190, 220)</p>	<p>30 mm Double Skin Panels*</p>	<p>Building Pressure Control</p>



R410A



Cooling



Heating



Natural Gas Heater



Electric Heater



Hot Water Coil



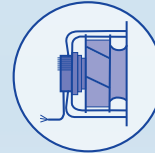
Inverter Scroll Compressor



Rotary HR



Thermodynamic HR



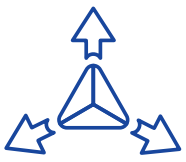
EC Plug Fan

*Supplied as standard with the unit.
**Excluding 50/48 UP-105

Your Future Technology Presented Today Packaged Rooftop Units



Model Coding					
1-2	48	ROOFTOP SERIES	>	48: With Natural Gas Heater	50: Without Natural Gas Heater
3	U	HEAT REJECTION	>	U: Air Cooled	
4	C	COOLING / HEATING	>	C: Cooling Only	P: Heat Pump
5	V	COMPRESSOR	>	-: Fixed Speed	V: Inverter
6-7-8	055	NOMINAL CAPACITY	>	025, 035, 045, 055, 065, 075, 090, 105, 125, 140, 160, 190, 220	



Unit Duct Connections

Air Duct Connections in 3 Different Ways



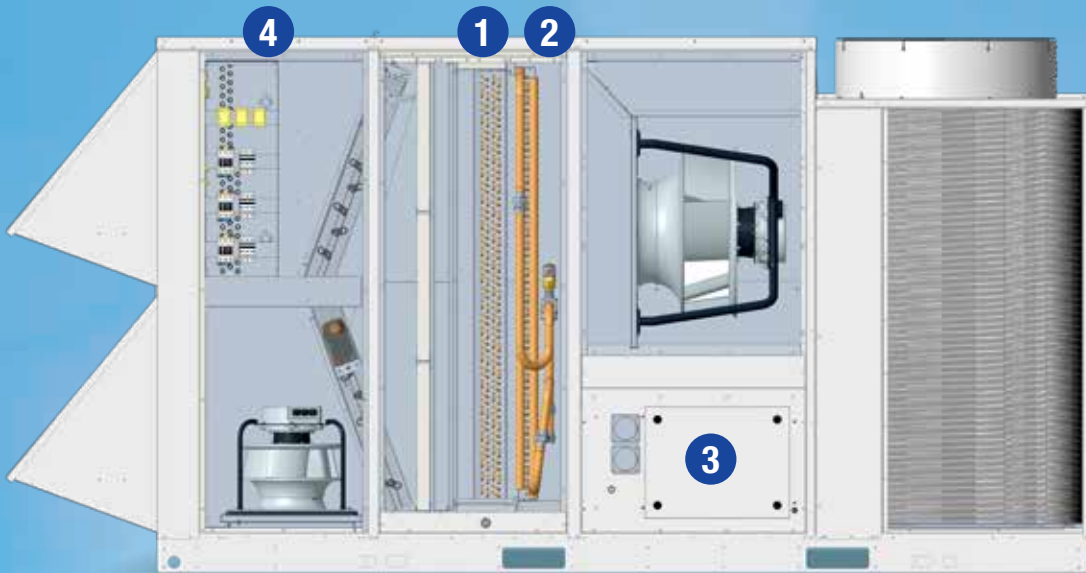
Carrier new generation rooftop units are designed to meet all customer requirements for air duct inlet and outlet connections. The flexible design allows air duct connection to the unit in three different way on both supply and return air side.

Supply				
Reference	Option No	Duct Connection Way	With Natural Gas Heater	Without Natural Gas Heater
S1	Standard	Bottom Supply	Yes	Yes
S2	231	Side Supply	No	Yes
S3	232	Top Supply	Yes	Yes
S4*	233	Side Supply via Top Plenum	Yes	Yes
S5	234	Face (Rear) Supply	No	Yes

Return						
Reference	Option No	Duct Connection Way	Economizer	Return Fan	Thermodynamic HR	Rotary HR
R1	Standard	Bottom Return	Yes	Yes	Yes	Yes
R2	241	Face (Front) Return	Yes	No	No	No
R3	242	Top Return	Yes	Yes	Yes	Yes
R4*	243	Side Return via Top Plenum	Yes	Yes	Yes	Yes
-	-	-	-	-	-	-

*Optional

Auxiliary Heating Components



1 Electric Heater

4 stage electric heater can provide precise control of the indoor comfort condition by meeting the heating load of the building in cooling only and heat pump units. Four temperature limit switches provide additional safety.



2 Hot Water Coil

It is supplied with shut-off valves and 3-way proportional control valve. Valve opening of 3-way valve are adjusted according to supply temperature and 100% modulated (0-10 V) control can be achieved. Frost protection thermostat prevents the coil from freezing in winter time.



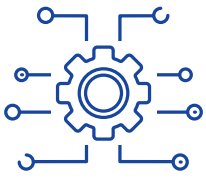
3 Natural Gas Heater

Natural gas heaters with high efficiency, low NOx emissions and the latest condensation technology, it is possible to keep indoor air in ideal conditions in winter. Thanks to its flexible design, the supply air duct connection can be made from bottom, top, or side of the unit with a plenum, even if the natural gas heater option is used. With combustion efficiency up to 109% and condensing technology and proportional control between 22%-100%, it consumes natural gas at the rate of heating demand.



4 Electric Pre-Heater

The electric pre-heater is placed before the economizer fresh air damper to pre-heat fresh air depending on outdoor air conditions. Shielded electric resistance heaters are fully factory-wired and tested. Each stage is protected against overloads by two thermal protectors. The low limit protector with automatic overload protection and is set to 90°C.



Technical Insight

DOUBLE SKIN INSULATED LEAK TIGHT PANELS



ENERGY RECOVERY OPTIONS

Rotary:

- Enthalpic or Sorption
 - Fresh air up to %100
 - Eurovent certified heat exchanger
 - Easy installation without ducts
- Thermodynamic:
- Additional independent refrigeration circuit



EC PLUG SUPPLY and RETURN FANS

- High efficient operation without belt and pulley
- Building pressure control
- IE4 motor efficiency class
- Air flow rate monitoring and setting over controller

THERMOSTATIC or ENTHALPIC ECONOMIZER

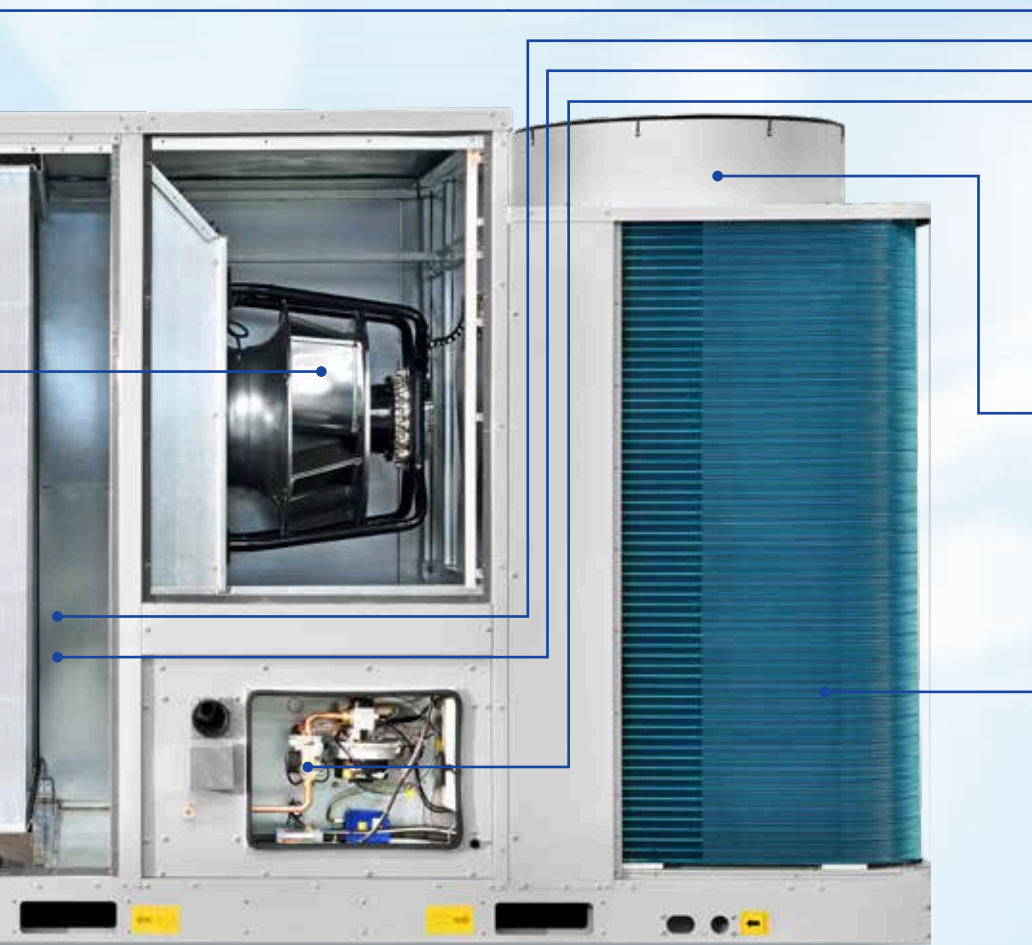
- Smart free cooling
- Fresh air control
- Room IAQ control by CO₂ sensor

TWO STAGE FILTRATION SOLUTIONS

- G4
- F7
- G4 + F7
- M6 + F7
- F7 + F9

REMOVABLE STAINLESS STEEL DRAIN PAN

- Sloped and bottom insulated
- Supplied siphon with ball



AUXILIARY HEATING OPTIONS

- Multi stage electric pre-heater
- Multi stage electric heater
- Proportional control hot water coil
- Proportional control condensing natural gas heater



**FLYING BIRD VI™
CONDENSER FANS**

- Carrier patented direct drive axial fans
- Two speed, quiet operating, night mode
- Special algorithm for fan speed control

**CU / AL CONDENSER /
EVAPORATOR COILS**

- 6 different coil leakage test at Factory
- Polyurethane coating option for extra UV and corrosion resistancy



ELECTRONIC EXPANSION VALVE

- More reliable and efficient refrigeration circuit control

ADVANCED CONTROL BOX

- Single point power supply
- Coloured and numbered cabling
- Control box cover cannot not be opened until power switch is turned off
- IP68 cable inlet-outlet
- Energy Meter option
- Leak Detection option



**HIGH EFFICIENT SCROLL
COMPRESSORS**

- Inverter or 4 capacity stages
- All models:
 - A class efficiency in full load (EER & COP)
 - Ecodesign Tier 2 - 2021 compliant in seasonal efficiency (SEER & SCOP)



**SMARTVU™
SMART CONTROL INTERFACE**

- 4.3" user friendly touch screen coloured HMI
- All major parameters are displayed on one screen visualization
- Accessible from anywhere in the world using a PC with an Ethernet connection
- Sending alarm to predetermined e-mail address



2021 Beyond Seasonal Efficiency Standards

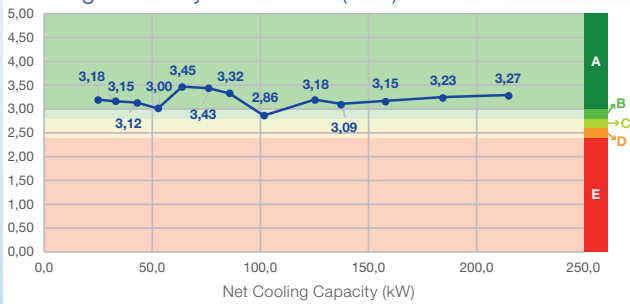


In accordance with the European Commission's 2016/2281 Regulation, rooftop units have begun to seek minimum seasonal efficiency criteria for both cooling and heating mode from the beginning of 2018. These seasonal efficiency values, which are defined as SEER and SCOP, are calculated according to EN 14511 and EN 14825 standards.

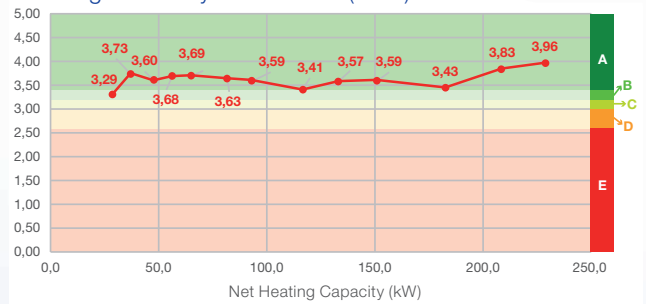


The seasonal efficiency values calculated by taking into consideration the different capacity requirements of the units at different ambient air temperatures and the determined annual working hours of the units take into consideration the power of the units not only in operation but also in the passive mode of the units such as standby and crankcase heater.

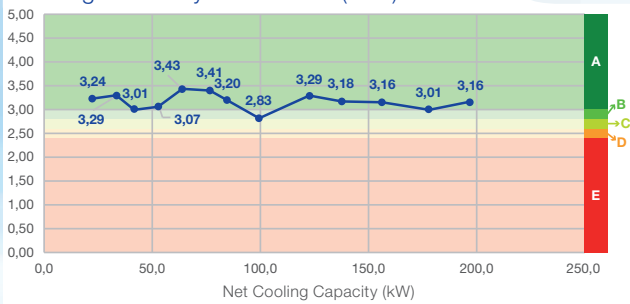
Cooling Efficiency at Full Load (EER) 50UP



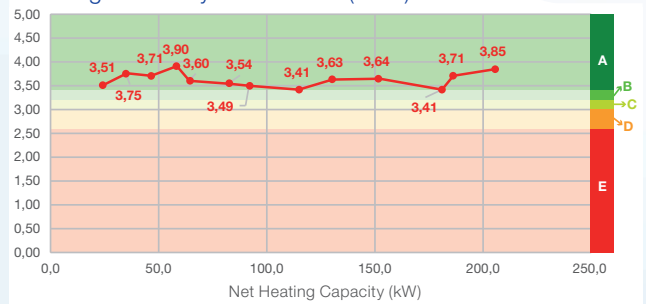
Heating Efficiency at Full Load (COP) 50UP



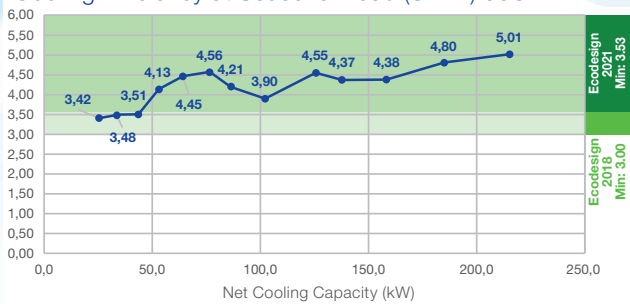
Cooling Efficiency at Full Load (EER) 50UPV



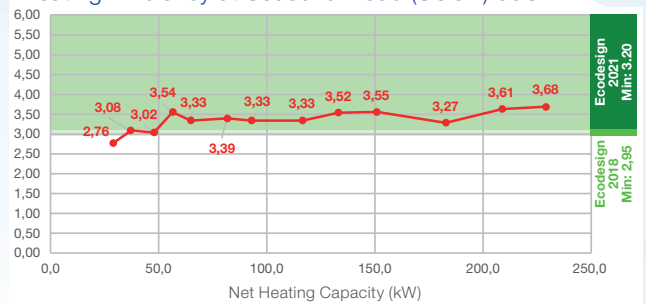
Heating Efficiency at Full Load (COP) 50UPV



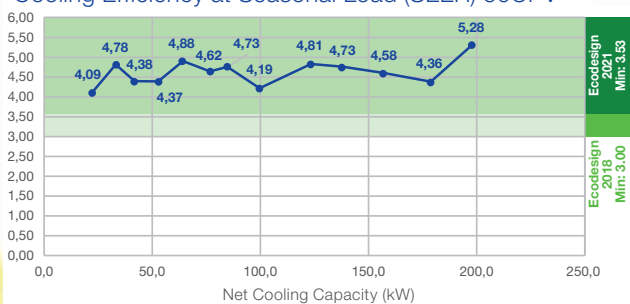
Cooling Efficiency at Seasonal Load (SEER) 50UP



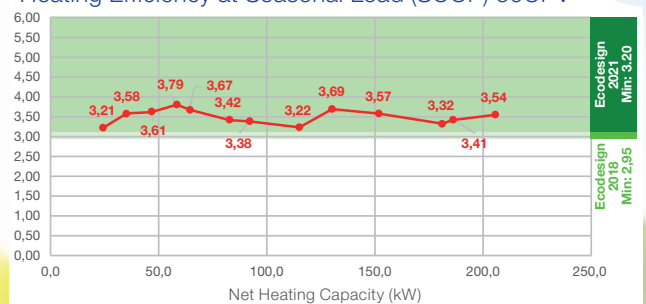
Heating Efficiency at Seasonal Load (SCOP) 50UP



Cooling Efficiency at Seasonal Load (SEER) 50UPV



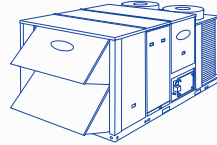
Heating Efficiency at Seasonal Load (SCOP) 50UPV



High Efficient Technology



Up to **3.45** EER*
Up to **5.28** SEER**



Up to **3.96** COP***
Up to **3.79** SCOP****

50/48 UC-(V)/UP-(V)

High Efficient Compressors and Inverter Technology

In 50/48 UCV/UPV rooftops, 025-035-045-055 models have single circuit with one special high efficiency compressor with inverter technology and 065-075-090-105-125-140-160-190-220 models have two independent circuits, circuit A with one special high efficiency compressor with inverter technology and circuit B with tandem compressors. In 50/48 UC-/UP- rooftops, 025-035-045 models have single circuit with single fixed speed compressor, 055 model has single circuit with tandem compressors and 065-075-090-105-125-140-160-190-220 models have two independent circuits, each circuit have tandem compressors. In this way, all models have an efficiency higher than the seasonal efficiency values of Ecodesign 2021. By means of inverter compressors, it is possible to respond more precisely to variable load demands, preventing compressor on/off operation, thus increasing the reliability of the cooling system and ensuring longer operating life of the compressors.

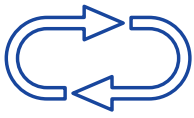


EC Plug Supply and Return Fans

EC plug fans are used as standard on supply and return air side of the rooftop units. In this view, the air flow rate is automatically reduced according to the demand, allowing the fans to draw less power and naturally achieve higher values in terms of seasonal efficiency.

The wide operating range of the fans allows to meet all kinds of duct pressure drops and the pressure of the building can be maintained at the desired level thanks to the building pressure control option. Thanks to the EC plug fans, air flow rate can be monitored and changed any time at start up or during operation of the unit over SMARTVU™.





Rotary Energy Recovery Module (ERM)

It is a high efficiency rotary energy recovery that allows the exhaust air to be recovered by transferring the energy to the fresh air.

The rotary type energy recoveries are the most efficient energy recovery systems. In particular, it is much more advantageous than other energy recovery systems when the temperature difference between the ambient air and the return air is high and fresh air is more used.

The rotary energy recovery allows maximum heat transfer either as an enthalpy or sorption type, either in fresh air ratio or in different types depending on the ambient air conditions. The rotary energy recovery is used in rooftop unit has also Eurovent certification. The site setup of the energy recovery module is quite simple. The main unit and the power supply of the ERM are made from the single point on the unit. There is an additional G4 filter to protect the rotary in the fresh air inlet.

Winter Operating Mode



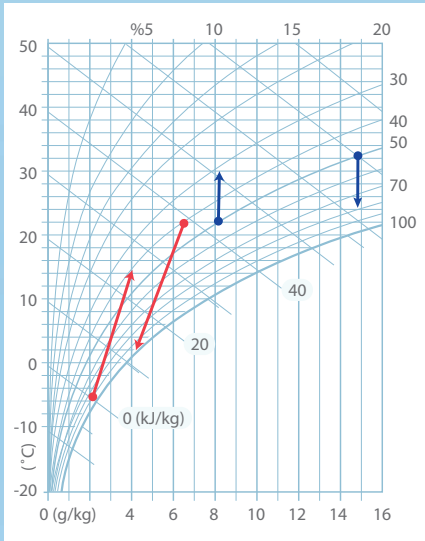
Fresh Air
up to %100

Enthalpy
of
Sorption
Type

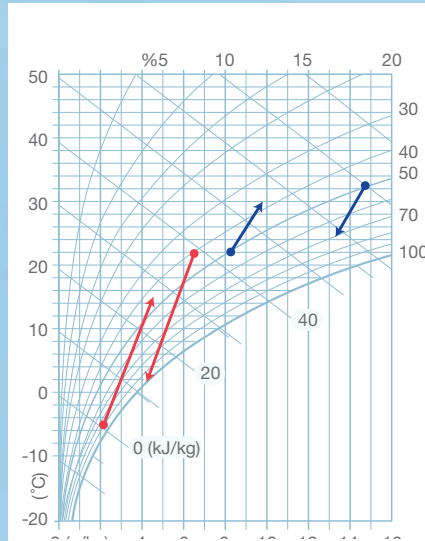
Easy
Installation

Eurovent
Certified
Performance

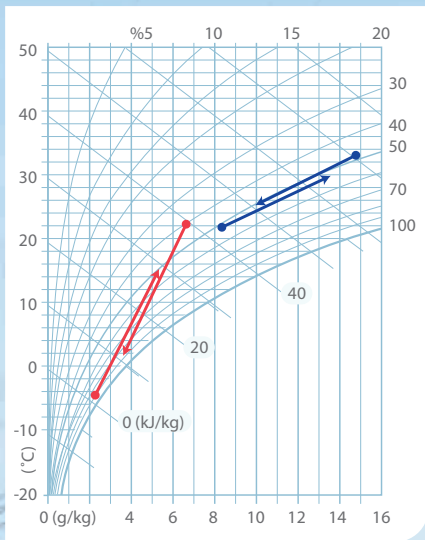
Condensation Type



Enthalpy Type

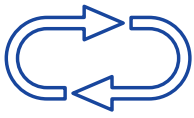


Sorption Type



As can be understood from the graphs above, the enthalpy rotary permits latent heat transfer in particular amount while the latent heat transfer is not observed in condensation type energy recoveries in summer time and high amount of latent heat transfer can be achieved with the sorption type rotary energy recoveries (depending on the humidity of the ambient air).

→ Winter Operation
→ Summer Operation



Thermodynamic Energy Recovery (THR)

Thermodynamic energy recovery is an additional independent refrigerant circuit energy recovery system that includes a DX coils on the exhaust and supply air side, a compressor and an expansion valve to recover energy by transferring the energy from exhaust air to the supply air.

It is more advantageous than other energy recovery systems, especially at seasonal passages and by

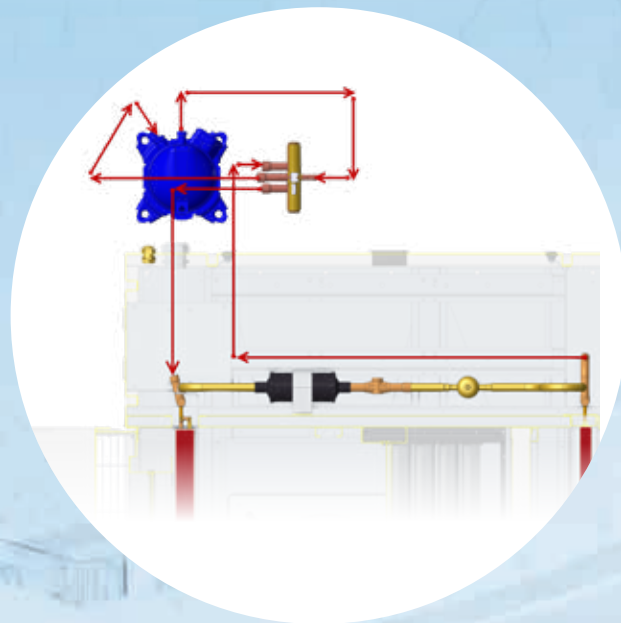
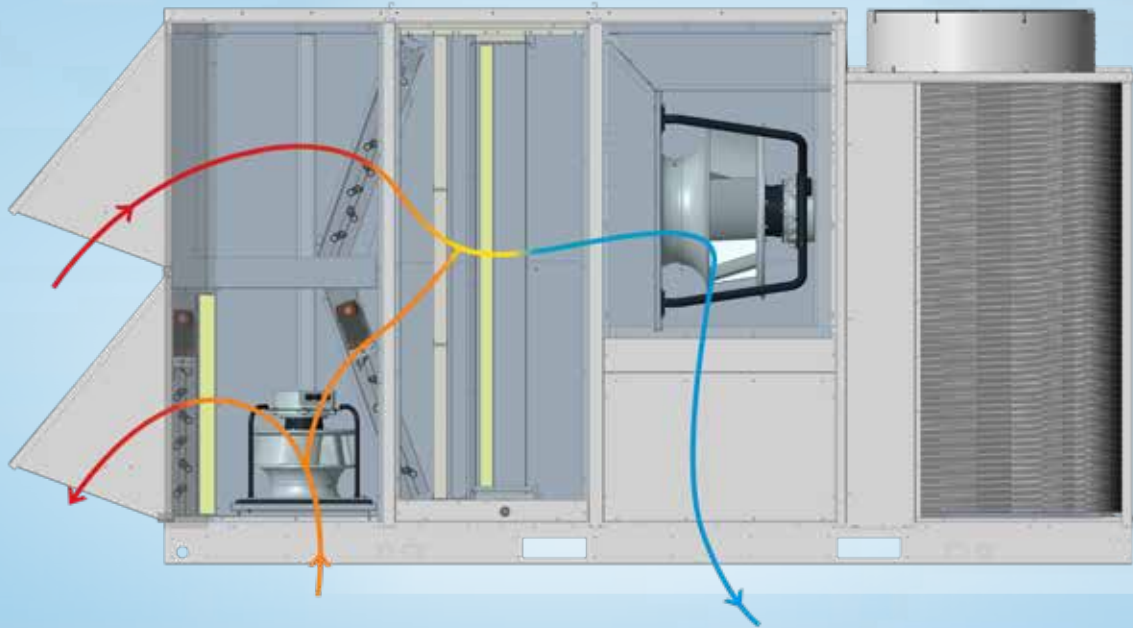
providing stable energy recovery at times when the temperature difference between indoor and ambient air is not too high. Fresh air ratio can be 20-100% in THR mode. As the energy recovery system is integrated into the unit, the unit dimensions do not increase. Depending on the amount of fresh air, 25% to 40% of the unit capacity is provided with energy recovery. The advanced controller can operate in accordance with the free cooling mode depending on the room load requirement.

Energy
Recovery
up to 40%
of Unit Nom.
Capacity

Available with
Free Cooling
Mode

No Additional
Space

Summer Operating Mode



Physical Data

50/48 UCV	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Eurovent Performances at EN14511-2018														
Nominal Cooling Capacity*	kW	22.4	33.3	41.8	54.7	64.0	76.8	84.8	99.6	123.3	137.9	156.9	178.6	197.8
Nominal Power Input	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.3	62.6
EER*	kW/kW	3.24	3.29	3.01	3.17	3.43	3.41	3.20	2.83	3.29	3.18	3.16	3.01	3.16
EER Class		A	A	A	A	A	A	A	B	A	A	A	A	A
SEER***		4.09	4.78	4.38	4.44	4.88	4.62	4.73	4.19	4.81	4.73	4.58	4.36	5.28
SEER Class		B	A	B	B	A	B	A	B	A	A	B	B	A+
ηs.c***		161	188	172	175	192	182	186	165	189	186	180	171	208
50/48 UC-	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Eurovent Performances at EN14511-2018														
Nominal Cooling Capacity*	kW	25.0	33.4	43.2	52.7	64.1	76.4	85.0	102.0	125.6	137.7	158.3	185.0	215.4
Nominal Power Input	kW	7.9	10.6	13.8	17.6	18.6	22.3	25.7	35.6	39.4	44.6	50.2	57.3	65.9
EER*	kW/kW	3.18	3.15	3.12	3.00	3.45	3.43	3.30	2.86	3.18	3.09	3.15	3.23	3.27
EER Class		A	A	A	A	A	A	A	B	A	A	A	A	A
SEER***		3.42	3.48	3.51	4.13	4.45	4.56	4.19	3.90	4.55	4.37	4.38	4.90	5.01
SEER Class		C	C	C	B	B	B	B	B	B	B	B	A	A
ηs.c***		134	136	138	162	175	180	165	153	179	172	172	189	197
50/48 UPV	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Eurovent Performances at EN14511-2018														
Cooling														
Nominal Cooling Capacity*	kW	22.4	33.3	41.8	52.8	64.0	76.8	84.8	99.6	123.3	137.9	156.9	178.6	197.8
Nominal Power Input	kW	6.9	10.1	13.9	17.2	18.7	22.5	26.5	35.2	37.5	43.4	49.7	59.3	62.6
EER*	kW/kW	3.24	3.29	3.01	3.07	3.43	3.41	3.20	2.83	3.29	3.18	3.16	3.01	3.16
EER Class		A	A	A	A	A	A	A	B	A	A	A	A	A
SEER***		4.09	4.78	4.38	4.37	4.88	4.62	4.73	4.19	4.81	4.73	4.58	4.36	5.28
SEER Class		B	A	B	B	A	B	A	B	A	A	B	B	A+
ηs.c***		161	188	172	172	192	182	186	165	189	186	180	171	208
Heating														
Nominal Heating Capacity**	kW	24.5	35.1	46.7	58.4	64.3	82.7	92.1	115.0	130.3	151.7	181.0	186.3	205.4
Nominal Power Input	kW	7.0	9.4	12.6	15.0	17.9	23.4	26.4	33.7	35.9	41.7	53.1	50.2	53.4
COP*	kW/kW	3.51	3.75	3.71	3.90	3.60	3.54	3.49	3.41	3.63	3.64	3.41	3.71	3.85
COP Class		A	A	A	A	A	A	A	B	A	A	A	A	A
SCOP**		3.21	3.58	3.61	3.79	3.67	3.42	3.38	3.22	3.69	3.57	3.32	3.41	3.54
SCOP Class		B	B	B	A	A	B	B	B	A	B	B	B	B
ηs.h***		125	140	141	149	144	134	132	126	145	140	130	134	139
50/48 UP-	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Eurovent Performances at EN14511-2018														
Cooling														
Nominal Cooling Capacity*	kW	25.0	33.4	43.2	52.7	64.1	76.4	86.1	102.0	125.6	137.7	158.3	185.0	215.4
Nominal Power Input	kW	7.9	10.6	13.8	17.6	18.6	22.3	25.9	35.6	39.4	44.6	50.2	57.3	65.9
EER*	kW/kW	3.18	3.15	3.12	3.00	3.45	3.43	3.32	2.86	3.18	3.09	3.15	3.23	3.27
EER Class		A	A	A	A	A	A	A	B	A	A	A	A	A
SEER***		3.42	3.48	3.51	4.13	4.45	4.56	4.21	3.90	4.55	4.37	4.38	4.90	5.01
SEER Class		C	C	C	B	B	B	B	B	B	B	B	A	A
ηs.c***		134	136	138	162	175	180	166	153	179	172	172	189	197
Heating														
Nominal Heating Capacity**	kW	28.9	37.1	47.8	56.4	65.0	81.6	93.1	116.6	133.1	150.9	182.6	208.6	228.8
Nominal Power Input	kW	8.8	9.9	13.3	15.3	17.6	22.5	25.9	34.2	37.3	42.0	53.2	54.5	57.8
COP*	kW/kW	3.29	3.73	3.60	3.68	3.69	3.63	3.59	3.41	3.57	3.59	3.43	3.83	3.96
COP Class		B	A	A	A	A	A	A	A	A	A	A	A	A
SCOP**		2.76	3.08	3.02	3.54	3.33	3.39	3.33	3.33	3.52	3.55	3.27	3.61	3.68
SCOP Class		D	C	C	B	B	B	B	B	B	B	B	A	A
ηs.h***		107	120	118	139	130	133	130	130	138	139	128	142	144
50 UC/UP-(V)	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Electric Heaters (Only 50 Series)														
Heating Capacity	kW	18.0	18.0	27.6	27.6	36.0	36.0	45.0	45.0	66.6	88.8	88.8	90.0	90.0
Capacity Steps		9.0	9.0	6.9	6.9	9.0	9.0	9.0	9.0	22.2	22.2	22.2	18.0	18.0
		+	+	+	+	+	+	+	+	+	+	+	+	+
		9.0	9.0	6.9	6.9	9.0	9.0	9.0	18.0	22.2	33.3	33.3	27.0	27.0
		+	+	+	+	+	+	+	+	+	+	+	+	+
Rated Current	A	26	26	40	40	52	52	65	65	96	128	128	108	108
48 UC/UP-(V)	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Gas Heaters														
Net Heat Input (Min / Max)	kW	7.60 / 34.85	7.60 / 34.85	8.50 / 42.00	8.50 / 42.00	12.40 / 65.00	12.40 / 65.00	12.40 / 65.00	12.40 / 65.00	21.00 / 100.00	21.00 / 100.00	21.00 / 100.00	16.4 / 164.00	16.4 / 164.00
Heat Output (Min / Max)	kW	8.13 / 33.56	8.13 / 33.56	8.97 / 40.45	8.97 / 40.45	13.40 / 62.93	13.40 / 62.93	13.40 / 62.93	13.40 / 62.93	22.77 / 97.15	22.77 / 97.15	22.77 / 97.15	17.77 / 160.06	17.77 / 160.06
Efficiency	%	107 / 96	107 / 96	106 / 96	106 / 96	108 / 97	108 / 97	108 / 97	108 / 97	108 / 97	108 / 97	108 / 97	108 / 97	108 / 97
Natural Gas Rate (G20)****	m³/h	0.80 / 3.69	0.80 / 3.69	0.90 / 4.44	0.90 / 4.44	1.31 / 6.88	1.31 / 6.88	1.31 / 6.88	1.31 / 6.88	2.22 / 10.58	2.22 / 10.58	2.22 / 10.58	3.48 / 17.36	3.48 / 17.36
Capacity Steps		Modülasyonlu												
Weight****	kg	48	48	58	58	72	72	72	72	118	118	118	196	196
Power Input (230 V-1 Ph-50 Hz)*****	W	11 / 74	11 / 74	15 / 65	15 / 65	15 / 97	15 / 97	15 / 97	15 / 97	20 / 130	20 / 130	20 / 130	20 / 123	20 / 123
Gas Connection		UNI/ISO 228/1-G 3/4"												

Physical Data

	Unit	025	035	045	055	65	75	90	105	125	140	160	190	220
Refrigeration System														
Compressor Type		Scroll												
Refrigerant		R410A												
50/48UCV/UPV No of Circuits / No of Compressors	pcs	1 / 1	1 / 1	1 / 1	1 / 1	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3
50/48UC-/UP- No of Circuits / No of Compressors	pcs	1 / 1	1 / 1	1 / 1	1 / 2	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
50/48UPV Charge: Circuit A - Circuit B	kg	8.0 / -	10.5 / -	12.0 / -	15.0 / -	12.0 / 12.0	15.0 / 15.0	15.0 / 15.0	15.0 / 17.0	19.0 / 21.0	23.0 / 21.0	23.0 / 22.0	30.0 / 30.0	34.0 / 34.0
Tons of CO ₂ equivalent A/B	tCO ₂ e	16.7 / -	21.9 / -	25.1 / -	31.3 / -	25.1 / 25.1	31.3 / 31.3	31.3 / 31.3	31.3 / 35.5	39.7 / 43.8	48.0 / 43.8	48.0 / 45.9	62.6 / 62.6	71.0 / 71.0
50/48UP- Charge: Circuit A - Circuit B	kg	9.0 / -	10.5 / -	12.0 / -	18.0 / -	12.0 / 12.0	15.0 / 15.0	15.0 / 15.0	17.0 / 17.0	21.0 / 21.0	21.0 / 21.0	23.0 / 22.0	32.0 / 32.0	34.0 / 34.0
Tons of CO ₂ equivalent A/B	tCO ₂ e	18.8 / -	21.9 / -	25.1 / -	37.6 / -	25.1 / 25.1	31.3 / 31.3	31.3 / 31.3	35.5 / 35.5	43.8 / 43.8	43.8 / 43.8	48.0 / 45.9	66.8 / 66.8	71.0 / 71.0
50/48UCV Charge: Circuit A - Circuit B	kg	8.0 / -	10.5 / -	12.0 / -	15.0 / -	12.0 / 12.0	15.5 / 15.5	15.5 / 15.5	15.0 / 17.0	19.0 / 21.0	23.0 / 21.0	23.0 / 22.0	30.0 / 30.0	34.0 / 34.0
Tons of CO ₂ equivalent A/B	tCO ₂ e	16.7 / -	21.9 / -	25.1 / -	31.3 / -	25.1 / 25.1	32.4 / 32.4	32.4 / 32.4	31.3 / 35.5	39.7 / 43.8	43.8 / 43.8	48.0 / 45.9	62.6 / 62.6	71.0 / 71.0
50/48UC- Charge: Circuit A - Circuit B	kg	9.0 / -	10.5 / -	12.0 / -	18.0 / -	12.0 / 12.0	15.5 / 15.5	15.5 / 15.5	17.0 / 17.0	21.0 / 21.0	21.0 / 21.0	23.0 / 22.0	32.0 / 32.0	34.0 / 34.0
Tons of CO ₂ equivalent A/B	tCO ₂ e	18.8 / -	21.9 / -	25.1 / -	37.6 / -	25.1 / 25.1	32.4 / 32.4	32.4 / 32.4	35.5 / 35.5	43.8 / 43.8	43.8 / 43.8	48.0 / 45.9	66.8 / 66.8	71.0 / 71.0
50/48UCV/UPV Oil: Circuit A - Circuit B	kg	1.3 / -	1.6 / -	3.3 / -	3.6 / -	1.6 / 3.2	3.3 / 3.2	3.3 / 3.2	3.6 / 4.92	3.6 / 6.6	7.7 / 6.6	7.7 / 6.6	7.7 / 7.2	7.7 / 9.7
50/48UC-/UP- Oil: Circuit A - Circuit B	kg	3.3 / -	3.3 / -	3.6 / -	6.6 / -	3.2 / 3.2	3.2 / 3.2	3.2 / 3.2	4.9 / 4.9	6.6 / 6.6	6.6 / 6.6	6.6 / 6.6	7.2 / 7.2	9.7 / 9.7
Indoor Coil														
Material		Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al
Coil Type		3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF
Rows / FPI		2 / 16	3 / 16	3 / 16	4 / 16	3 / 16	4 / 16	4 / 16	4 / 16	5 / 16	5 / 16	5 / 16	4 / 16	5 / 16
Condensate Drain Connection Size	mm	34	34	34	34	34	34	34	34	34	34	34	34	34
Outdoor Coil														
Material		Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al	Cu / Al
Coil Type		3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF	3/8" RTPF
Rows / FPI		2 / 16	2 / 16	2 / 16	3 / 16	2 / 16	3 / 16	3 / 16	3 / 16	4 / 16	4 / 16	3 / 16	3 / 16	4 / 16

*Nominal Eurovent conditions: outdoor air dry bulb temperature of 35°C, indoor air wet bulb temperature of 19°C.
 **Nominal Eurovent conditions: outdoor air wet bulb temperature of 6°C, indoor air dry bulb temperature of 20°C.
 ***According to Commission Regulation (EU) 2016/2281 and related standard EN14825:2016.
 ****Natural gas (G20) net calorific value 34,02 MJ/m³ @ 15°C, 1.013 mbar.
 *****Weight and power input values are valid for the heating modules.

Options

ADDITIONAL HEATERS: Condensing Gas Burner, Electric Heater, Hot Water Coil, Electric Pre-Heater

Indoor / Outdoor Coil Coating

ECONOMIZER: Thermostatic or Entalpic; IAQ control by CO₂ sensor

High Static Pressure Fan

Energy Recovery (Rotary or Thermodynamic)

High Efficient Filtration (G4, F7, G4+F7, M6+F7, F7 + F9)

Barometric Exhaust Damper, Power Exhaust Fan and Return Fan

Temperature Sensors (T55, T56, T59 or Duct)

Smoke Detector and Fire Thermostat

Building Management System Communication Protocols (Jbus/LonWorks/BACnet)

Packing

Compressor Soft Starter

Energy Meter

Leak Detection

Outdoor Coil Protection Grill

Accessories

Roofcurb

Compressor Blanket

Programmable and Non-programmable Room Thermostats

CO₂ Sensor

Dirty Filter Detection

Zone Controller

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