

RoofT@ir RTL / RTH

ROOFTOP UNITS

7 Cooling models (RTL)
from 41 kW to 108 kW

7 Heat Pump models (RTH)
from 43 kW to 108 kW

OUTDOOR UNIT RTL/RTH 40-50-60-70-80



OUTDOOR UNIT RTL/RTH 100-110



PRODUCT ADVANTAGES

- Weather proofed mono-bloc casing with 25mm thick panels insulated with 62kg/m³ glass wool and painted to prevent corrosion.
- Single piece base rail with rigging holes and fork lift slots to facilitate transportation and handling.
- High EER and environmentally friendly refrigerant R410A with zero ODP (Ozone Depleting Potential).
- High efficiency scroll compressors with crankcase heater.
- Condenser coils with hydrophilic coated (blue) fins to improve removal of water droplets during defrost cycles (heat pump version only).
- Removable drain pan under indoor coil with positive slope to facilitate hygienic cleaning.
- Multiple choice of return air and supply air arrangements: down, side, front and up.
- IATC microprocessor-based controller capable of communicating with a BMS via an optional ModBus protocol RS-485 card.

FACTORY-FITTED OPTIONS

- double wall panels.
- 50mm G4 filter.
- High efficiency G4 + F5 filter.
- Low ambient temperature control for cooling operation down to -10°C outdoor temperature.
- High static pressure fan.
- 2 stage electric heater.
- Hot water heating coil.
- 2-damper economizer with rain hood and bird screen.
- Manual fresh air kit with rain hood and bird screen.
- Exhaust air kit with rain hood and bird screen.
- Exhaust blower.
- Roof curbs.

FIELD-INSTALLED ACCESSORIES

- Air flow detector.
- Clogged filter detector.
- Smoke detector.
- Vibration isolators for units without roof curb.
- IATC user interface.
- Weekly scheduling card.
- RS-485 card.



RoofT@ir RTL/RTH

			RTL/RTH 40	RTL/RTH 50	RTL/RTH 60	RTL/RTH 70	RTL/RTH 80	RTL/RTH 100	RTL/RTH 110
Cooling	Cooling capacity	kW	41.5	50.9	59.8	67.7	84.9	96.6	108.4
	Power input	kW	12.8	16.0	18.4	20.9	26.0	30.9	36.5
	EER		3.3	3.2	3.3	3.2	3.3	3.1	3.0
	Outdoor temp. operating limits (Min/Max)	°C	18/46	18/46	18/46	18/46	18/46	18/46	18/46
Heating	Heating capacity	kW	42.9	50.2	58.2	66.5	84.0	96.0	108.0
	Power input	kW	12.2	15.1	17.8	20.3	24.1	28.5	33.7
	COP/Energy Label		3.5	3.3	3.3	3.3	3.5	3.4	3.2
	Outdoor temp. operating limits (Min/Max)	°C	-10/21	-10/21	-10/21	-10/21	-10/21	-10/21	-10/21
Technical Information	Sound power level	dB(A)	82	85	80	80	84	84	85
	Sound power level to 500 Hz	dB(A)	76.2	80.0	78.6	79.2	82.3	82.0	82.7
	Available static pressure	Pa	150	150	350	350	450	450	400
	High static pressure	Pa	350	400	550	550	650	650	600
	Airflow (Nominal)	m³/h	7650	9200	11500	12500	16500	18650	20000
	Indoor coil		Copper tubes and aluminium fins						
	Number of rows		3	3	3	3	4	4	4
	Coil face area	m²	1.6	1.6	2.0	2.1	2.3	2.3	2.3
	Outdoor coil		Copper tubes and aluminium blue fins treatment						
	Number of rows		2	2	2	2	2	2	2
	Coil face area	m²	3.0	3.0	3.0	4.0	4.3	5.2	6.1
	Number of filter		4	4	9	9	9	9	9
	Efficiency/Class		> 90 % / G4						
	Type		Universal cells						
	Number of refrigerant circuit		1	1	2	2	2	2	2
	Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Number of compressor		2	2	2	2	2	2	2
	Assembly Type		Tandem	Tandem	Mono	Mono	Mono	Mono	Mono
	Dimensions (WxDxH)	mm	2450x1850x1350	2450x1850x1350	3400x2227x1732	3400x2227x1732	3400x2227x1732	3400x2227x1732	3400x2227x1732
	Foot print	m²	4.53	4.53	7.57	7.57	7.57	7.57	7.57
	Weight	kg	580	640	920	950	995	1085	1125
Electrical data	Electrical specification		PE/GE*	PE/GE*	PE/GE*	PE/GE*	PE/GE*	PE/GE*	PE/GE*
	Total running current - Without elec.heater	kW	42/47	49/55	69/73	73/77	101/108	93/99	96/102
	Fuse rating aM - Without electrical heater	A	50/50	50/63	80/80	80/80	125/125	100/100	100/100
	Total running current - With elec.heater CH1	kW	72/77	79/85	121/125	125/129	153/160	145/151	148/154
	Fuse rating aM - With elec. heater CH1	A	80/80	80/100	125/125	125/160	160/160	160/160	160/160
	Total running current - With elec.heater CH2	kW	87/92	94/101	138/142	142/146	170/177	162/169	165/172
	Fuse rating aM - With elec. heater CH2	A	100/100	100/100	160/160	160/160	200/200	200/200	200/200
* PE : Standard ventilation									
* GE : High pressure ventilation									