

COMPACT UNITS ROOF TOP or ROOM TOP
WATER TO WATER and WATER TO AIR
CHILLER
HEAT PUMP

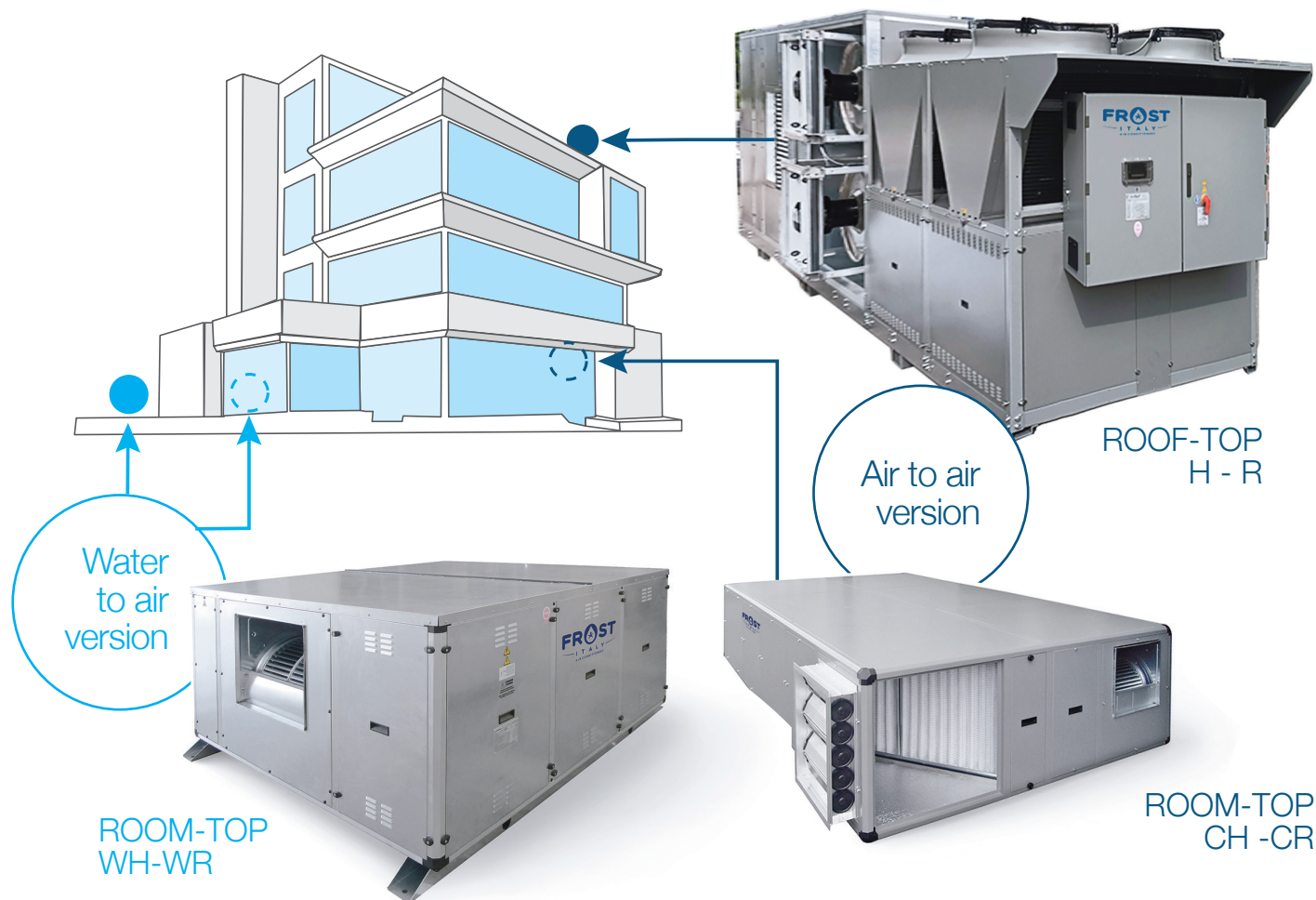
MIRAC

8 kW-318 kW



ROOF-TOP ROOM-TOP MIRAC

Frost Italy offers a complete range of monobloc **cooling** and/or **heating** units designed to meet the needs of **residential**, **commercial** and **industrial** environments.



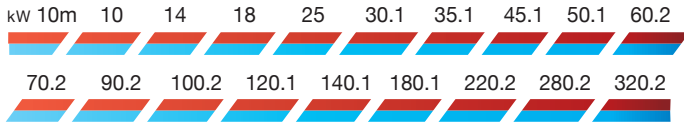
All Frost Italy units are designed for easy installation and maintenance. Our solutions are **reliable**, **highly efficient**, **sustainable** and **suitable** for every type of environmental requirement.

PLUS

- ✓ Plug and play
- ✓ Silent
- ✓ Efficient
- ✓ Reliable
- ✓ Compact
- ✓ Easy to install
- ✓ Minimal maintenance
- ✓ Uniform air distribution
- ✓ Adaptable to customer requests
- ✓ Wide range of accessories
- ✓ Extended operating limits
- ✓ Wide range of configurations
- ✓ Each unit is tested individually in our headquarters.

ROOF-TOP MIRAC H and R SERIES

- **Air to air packaged units**
- External installation.
- Ideal for small/medium/large buildings.
- Heating capacity 9.0 - 311.64 kW.
- Cooling capacity 9.1-318.0 kW.
- Micro-channel heat exchangers reduce refrigerant consumption and improve efficiency.



STANDARD COMPONENTS

- Galvanized steel FRAME painted RAL 7037PB
- Single-phase rotary/three-phase scroll compressor
- Internal fan EC motor plug fan
- Axial external fan 6 poles BLDC brushless
- Air side finned microchannell coil heat exchanger
- Thermostatic/electronic expansion valve
- G4 class air filter
- RS485 device Modbus RTU

OPERATING LIMITS

	COOLING MIN/MAX	HEATING MIN/MAX
Intake air temperature	10/35°C	15/35°C
Outdoor air temperaturure	0/45°C	-10/25°C

ROOM-TOP MIRAC CH and CR SERIES

- **Air to air packaged units**
- Internal installation.
- Ideal for medium/small buildings.
- Heating capacity 8.1-25.9 kW.
- Cooling capacity 8.9 - 28.3 kW.
- Micro-channel heat exchangers reduce refrigerant consumption and improve efficiency.



STANDARD COMPONENTS

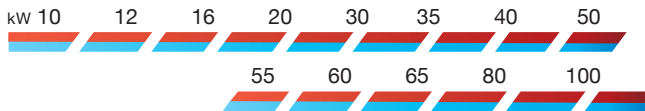
- Frame in aluminum profiles and galvanised double panel
- Compressor single-phase rotary/three-phase scroll
- Fan EC motor plug fan
- Finned coil heat exchanger
- Thermostatic expansion valve
- G4 class air filter
- RS485 device Modbus RTU

OPERATING LIMITS

	COOLING MIN/MAX	HEATING MIN/MAX
Intake air temperature	10/35°C	15/35°C
Outdoor air temperaturure	15/45°C	-10/20°C

ROOM-TOP MIRAC WH and WR SERIES

- **Water cooled.**
- Internal or external installation.
- Ideal for small/medium/large buildings.
- Heating capacity 10.2 - 116.9 kW.
- Cooling capacity 8.3 - 99.6 kW.



STANDARD COMPONENTS

- Frame in aluminum profiles and galvanised panel sandwich
- Three-phase scroll compressor
- Internal fan EC motor plug fan
- Brazed plate water side heat exchanger
- Air side heat exchanger direct expansion
- Thermostatic expansion valve
- G4 class air filter
- RS485 device Modbus RTU

OPERATING LIMITS

	COOLING MIN/MAX	HEATING MIN/MAX
Intake air temperature	10/35°C	15/35°C
Outdoor air temperaturure	30/45°C	6/20°C

► **CUSTOMIZE YOUR UNIT.** Ask for the technical data sheet for information on all available accessories.

With our MIRAC units, we guarantee excellent performance, energy efficiency and uncompromising reliability, to meet the needs of modern comfort and industry.

MIRAC H	SIZE	10m	10	14	18	25	30.1	35.1	45.1	50.1	60.2		
Cooling capacity	kW	9.1	9.3	14.2	17.9	25.0	29.0	35.8	44.2	50.0	58.0		
EER		3.09	3.06	2.93	2.77	3.10	3.18	3.14	3.17	3.16	3.20		
Heating capacity	kW	9.0	9.1	12.7	15.9	23.3	26.9	33.2	41.1	46.5	53.8		
COP		3.19	3.16	3.03	2.86	3.20	3.29	3.25	3.28	3.27	3.31		
Total flow air	m³/h	1700	1700	2600	3400	4600	5510	6650	8550	9500	11400		
Sound pressure level	dB(A)	58	58	59	60	62	62	64	66	67	69		
	SIZE	70.2	90.2	100.2	120.1	140.1	180.1	220.2	280.2	320.2			
Cooling capacity	kW	71.6	88.5	96.0	111.0	137.0	170.0	217.0	278.0	318.0			
EER		3.26	3.14	3.01	2.81	2.69	2.79	3.26	3.36	3.18			
Potenza termica	kW	66.5	82.3	94.0	108.78	134.26	166.6	212.66	272.44	311.64			
COP		3.37	3.25	3.11	3.07	2.93	3.03	3.55	3.66	3.47			
Total flow air	m³/h	13300	17000	19000	22800	25000	34200	41000	53200	60800			
Sound pressure level	dB(A)	69	71	72.5	73.5	75	75.5	82.5	87.5	90.0			
MIRAC R	SIZE	10m	10	14	18	25	30.1	35.1	45.1	50.1	60.2		
Cooling capacity	kW	9.1	9.3	14.2	17.9	25.0	29.0	35.8	44.2	50.0	58.0		
EER		3.09	3.06	2.93	2.77	3.10	3.18	3.14	3.17	3.16	3.20		
Total flow air	m3/h	1700	1700	2600	3400	4600	5510	6650	8550	9500	11400		
Sound pressure level	dB(A)	58	58	59	60	62	62	64	66	67	69		
	SIZE	70.2	90.2	100.2	120.1	140.1	180.1	220.2	280.2	320.2			
Cooling capacity	kW	71.6	88.5	96.0	111.0	137.0	170.0	217.0	278.0	318.0			
EER		3.26	3.14	3.01	2.81	2.69	2.79	3.26	3.36	3.18			
Total flow air	m³/h	13300	17000	19000	22800	25000	34200	41000	53200	60800			
Sound pressure level	dB(A)	69	71	72.5	73.5	75	75.5	82.5	87.5	90.0			
MIRAC CH	SIZE	9m	9	14	18	25	28						
Cooling capacity	kW	8.9	9.0	13.7	17.3	24.4	28.3						
EER		2.70	2.73	2.63	2.66	2.65	2.62						
Heating capacity	kW	8.1	8.2	12.5	15.8	22.3	25.9						
COP		2.45	2.48	2.40	2.43	2.42	2.40						
Portata aria totale	m³/h	1700	2600	3300	4600	1700	5400						
Sound pressure level	dB(A)	58	59	60	62	62	64						
MIRAC CR	SIZE	9m	9	14	18	25	28						
Cooling capacity	kW	8.9	9.0	13.7	17.3	24.4	28.3						
EER		2.70	2.73	2.63	2.66	2.65	2.62						
Total flow air	m3/h	2700	2700	4100	5200	7300	8500						
Sound pressure level	dB(A)	58	59	60	62	62	64						
MIRAC WH	SIZE	10	12	16	20	30	35	40	50	55	65	80	100
Cooling capacity	kW	8.3	10.3	16.0	20.1	28.3	32.8	40.7	49.8	56.6	65.6	81.4	99.6
EER		3.61	4.12	4.10	4.28	4.22	4.26	4.20	4.22	4.19	4.23	4.22	4.22
Heating capacity	kW	10.2	12.1	18.8	23.3	33.3	38.5	47.8	58.5	66.6	77.0	95.6	116.9
COP		4.43	4.84	4.82	4.96	4.97	5.00	4.93	4.96	4.93	4.97	4.95	4.95
Portata aria totale	m³/h	1600	2000	3000	3800	5300	6100	7600	9300	10500	12200	15100	18500
Sound pressure level	dB(A)	53	55	56	58	59	61	63	64	66	68	70	72
MIRAC WR	SIZE	10	12	16	20	30	35	40	50	55	65	80	100
Cooling capacity	kW	8.3	10.3	16.0	20.1	28.3	32.8	40.7	49.8	56.6	65.6	81.4	99.6
EER		3.61	4.12	4.10	4.28	4.22	4.26	4.20	4.22	4.19	4.23	4.22	4.22
Total flow air	m³/h	1600	2000	3000	3800	5300	6100	7600	9300	10500	12200	15100	18500
Sound pressure level	dB(A)	53	55	56	58	59	61	63	64	66	68	70	72



FROST ITALY S.r.l.
has been **designing**
and **producing**
special units for air
conditioning
and cooling
systems with
low environmental
impact
for over 45 years.



The mission
Design and produce
systems to satisfy
customer requests
in a functional,
reliable and
eco-friendly way.



It develops
innovative
customized
solutions
to satisfy special
requests
for size, power,
yield and
temperature.



Applications:

- Residential
- Hospital
- Airport
- Marine
- Hotel
- Data center
- Buildings
- Production processes



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