



your cooling solutions




Predator
PRT




High efficiency for outdoor installations

The **Predator** line offers a range of high-efficiency precision air conditioners for outdoor installations such as shelters/cabinets for telecommunications, power distribution, fibre optics, etc.



MICROCHANNEL CONDENSER
Thanks to smaller thickness than copper aluminium coil it allows: smaller pressure losses, best air flow and an increase of the performance, as well as reduction of quantity of refrigerant gas



ELECTRICAL CONNECTIONS
The use of spring connector allows an easy electrical connection, both for power supply and for alarms/signals.



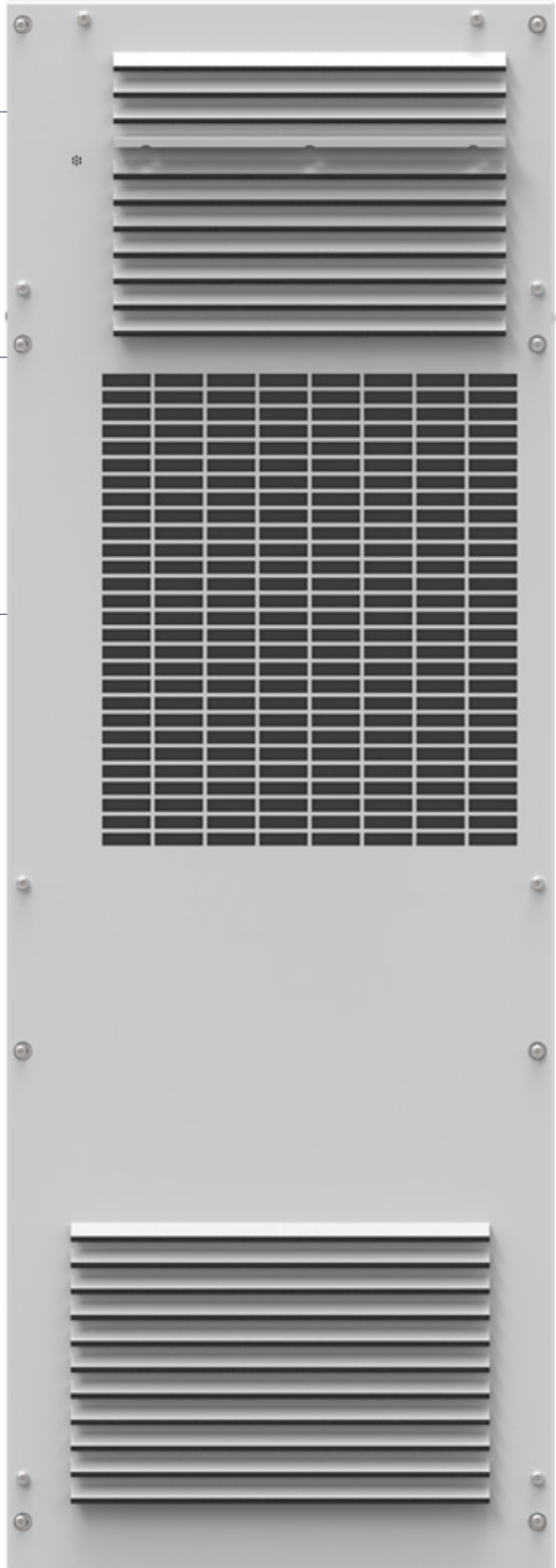
AIR FILTER
On unit with Free Cooling, the using of filters avoids the entry of large particles or insects inside the, when the external air is used.

48VDC Version

The 48Vdc version is particularly suitable for cabinets powered by renewable energy sources, such as solar, wind or battery backup.

The PRT20 at 48Vdc uses a brushless type compressor to achieve:

- continuous variation of cooling capacity
- increase in EER
- limitation of start-ups and consequent increase in compressor lifetime



Free Cooling The “energy-saving” solution in conditioning

The increasing cost of energy has prompted consideration of energy efficiency in cooling equipment such as those for telecommunications and traffic management. An economical solution is Direct Free Cooling integrated into the conditioner, which exploits the temperature difference between indoor and outdoor environments, particularly effective in temperate climates.

Predator conditioners offer this option, using filtered ambient air for cooling when conditions allow, ensuring service continuity even without main power and the consequent cost reduction.

Application examples Cooling for Optic Fiber Cabinets

The optical fiber transmits data at high speed, is lightweight, flexible, and immune to electrical and atmospheric interference, improving transmission capacity and reducing failures.

The structure of the fiber is characterized by a main point (point of presence), which is a branching point from which primary and secondary nodal points depart, and from the latter depart the termination points of the buildings. The various nodal points must ensure connectivity, service continuity, and low management costs.

With the **Predator** product line, **cosmotec** offers an Outdoor conditioning solution ideal for cooling primary or secondary cabinets. The conditioners are designed to operate full-time, seven days a week, and 365 days a year, ensuring operational continuity, maximum reliability, and energy efficiency.

Technical Features

Main features

- Cooling Capacity: 1000-1400-2000 W
- Installation: indoor, outdoor, and semi-recessed
- Electronic board: C100-C110
- Operating range up to 60°C
- Configurations:
 - Without free cooling
 - With free cooling
 - With free cooling and emergency ventilation
- Certifications: CE, EAC

Options

- Electrical heater (HA units)

Accessories

- Keypad
- Flush and semi-flush mounting frame



Technical Features

		M.U.	PRT10HA3201000	PRT10FA3201000	PRT10HA3201000	PRT10FA3201000
Power supply		V ~ Hz	230-1-50/60 + 48VDC	230 - 1 - 50/60	230-1-50/60 + 48VDC	230 - 1 - 50/60
Cooling capacity	L35L35	W	1000	1000	1000	1000
Cooling capacity	L35L50	W	750	750	750	750
Power consumption L35L50	@230VAC	W	600	600	600	600
	@48VDC	W	110	--	110	--
Current consumption L35L35	@230VAC	A	2,5	2,7	2,5	2,7
	@48VDC	A	2,6	--	2,6	--
External sound pressure		dB(A)	59	59	59	59
Height		mm	1200	1200	1200	1200
Width		mm	417	417	417	417
Depth		mm	300	300	300	300

		M.U.	PRT20HA3201000	PRT20FA3201000	PRT20FD3121000	PRT200D3121000
Power supply		V ~ Hz	230-1-50/60 +48VDC	230-1-50/60	48VDC	48VDC
Cooling capacity	L35L35	W	2000	2000	2000	2000
Cooling capacity	L35L50	W	1750	1750	1750	1750
Power consumption L35L50	@230VAC	W	1100	1200	--	--
	@48VDC	W	100	--	1390	1390
Current consumption L35L35	@230VAC	A	5,5	5,3	--	--
	@48VDC	A	2,4	--	29	29
External sound pressure		dB(A)	60	60	69	69
Height		mm	1200	1200	1200	955
Width		mm	417	417	417	417
Depth		mm	300	300	300	300

COSMOTEC
Industrial Cooling

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