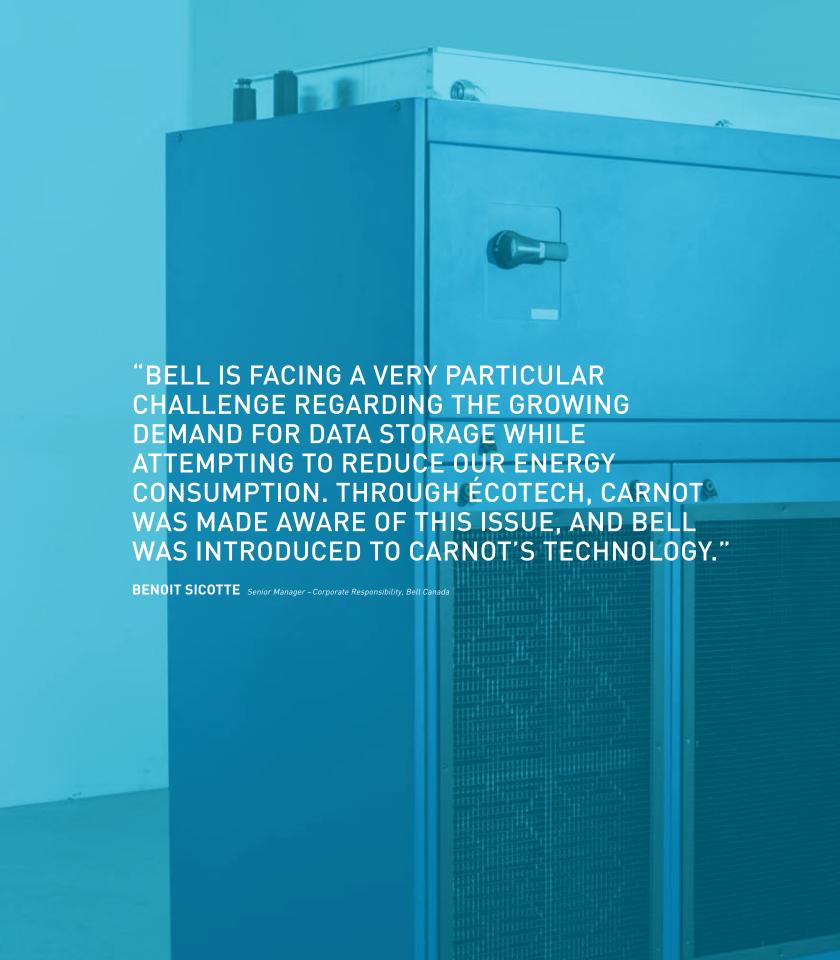
COMPUTER ROOMS AIR CONDITIONING

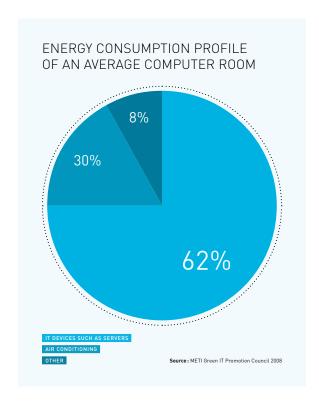
AQUILON® NATURAL REFRIGERANT

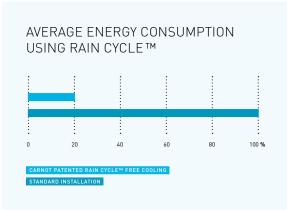
Efficiency, quality and reliability built-in all our ecofriendly products





CO₂ SOLUTION BY CARNOT: A SMART, ECOFRIENDLY AND PROFITABLE CHOICE





Made by the most experienced company in CO₂ transcritical solutions in North America, the CO₂ cooling system by Carnot is the smart choice for owners of CRAC units.

PROVEN EFFICIENCY FOR MAJOR SAVINGS

Superior quality, performance and energy stability;

Flawless redesign to replace existing R-22 solutions;

Financial savings of up to 80% year after year due to the reduction of energy costs, maintenance and service costs and the elimination of refrigerant fees.

ECOFRIENDLY CO₂

100% natural non-toxic, which eliminates the need for several pieces of equipment and safety programs;

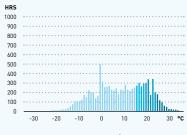
Almost total elimination of greenhouse gases GHG;

Non-flammable:

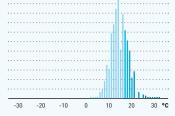
No phase out issues.

AQUILON™ -15 15 TR (50 kW) MODEL

NOMINAL COOLING CAPACITY AT 35°C (kW)		ROOM (OR RETURN) TEMPERATURE		OUTDOOR TEMPERATURE											
Refrig.	Sensible	°c	%RH	(°C)	-10	-5	0	5	10	15	20	25	30	35	
66.4	66.4	29.4	33	kW	1.6	1.9	2.4	2.8	3.2	3.4	10.1	11.4	15.4	19.7	
				pPUE	1.03	1.04	1.05	1.05	1.06	1.06	1.19	1.22	1.29	1.37	
63.5	63.5	28	36	kW	1.8	2.2	2.6	3.0	3.3	3.6	9.9	11.7	15.6	19.9	
				pPUE	1.04	1.04	1.05	1.06	1.06	1.07	1.19	1.23	1.31	1.39	
60.7	60.7	26	39	kW	2.0	2.4	2.8	3.1	3.4	9.1	9.6	12.0	15.8	20.0	
				pPUE	1.04	1.05	1.06	1.06	1.07	1.19	1.20	1.25	1.33	1.41	
55.2	48.8	24	45	kW	2.1	2.6	3.0	3.2	8.1	8.5	9.4	12.1	15.8	20.3	
				pPUE	1.05	1.07	1.08	1.08	1.21	1.22	1.24	1.31	1.41	1.52	







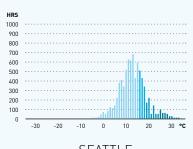
SAN FRANCISCO

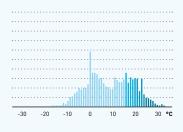
MONTRÉAL

FREE COOLING OPERATION
MECHANICAL MODULATION
SUBCRITICAL OPERATION
TRANSCRITICAL OPERATION

kW [kW] TOTAL POWER CONSUMPTION FOR 80% LOAD PPUE POWER UTILISATION EFFECTIVENESS

Notes: Data for Aquilon-15 17.2 TR (60.5 kW), model shown above, based on fluid temperature of 75° F [24° Cl) and outdoor temperature of 95° F [35° Cl). Data for models Aquilon-50.50 TR (175° kW) and Aquilon-30.30 TR (100° kW) also available upon request.





SEATTLE

TORONTO

CO₂ TECHNOLOGY BY CARNOT: A POWERFUL COOLING SYSTEM

POWERFUL TECHNOLOGY, QUITE SIMPLY

Modular solution designed by a highly qualified engineering team;

Process optimization for increased efficiency;

Simplified quick-plug installation;

On-site assistance for equipment start-up;

Complete training for technical staff;

Fully automated system.

A SMART, SUSTAINABLE BUSINESS DECISION

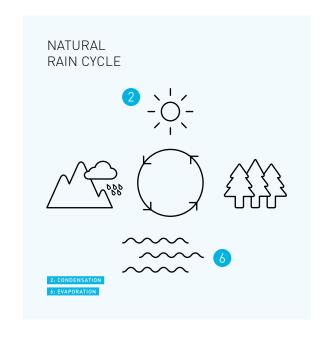
Harmless refrigerant reduces or eliminates risk of facing environmental or health and safety restrictions in the future;

Equipment outlasts conventional installations;

Substantial financial savings are generated throughout equipment life;

Significant reduction in greenhouse gases;

Solution is eligible for current LEED programs.



"VERY HIGH QUALITY AND RELIABLE REFRIGERATION SYSTEM AT A LOW MAINTENANCE COST."

JOCELYN FORGUES IGA Brompton owner

"EXCELLENT SERVICE, QUICK RESPONSE AND VERY COMPETENT STAFF."

OPTIMIZED TECHNOLOGY, SUPERIOR RELIABILITY AND SAFETY

Elimination of ignition and toxicological hazards that occur with other refrigerants;

Designed in compliance with the highest quality standards in the industry;

Strict quality control in a controlled environment;

Highly reliable processes tried and tested in the most extreme conditions:

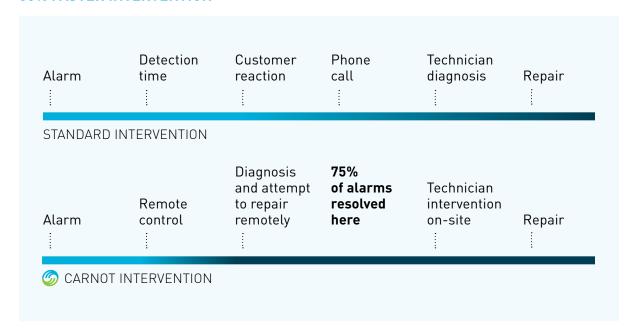
REAL-TIME REMOTE ASSISTANCE

Remote controlled equipment and alarm system;

Real-time monitoring and performance reports by a highly qualified team;

24/7 technical support, quick and efficient interventions.

35% FASTER INTERVENTION



CO₂ TECHNOLOGY BY CARNOT: CUSTOMIZE YOUR SYSTEM

LOW NOISE CONSTRUCTION

The strictest noise regulations are respected.

☐ GAS COOLER /CONDENSER

Different options available for optimal performance and durability.

☐ ENERGY METER WITH DISPLAY

Real-time display of your refrigeration consumption.

□ STAINLESS STEEL

Stainless steel covering and piping.

□ INTERNET MODULE

To closely monitor your process using your smartphone or computer.

□ TURNKEY INSTALLATION

For peace of mind, done by professionals to meet your needs, from design to start-up.

CARNOT: A PIONEER IN TRANSCRITICAL CO2 REFRIGERATION AND COOLING SYSTEMS

Carnot Refrigeration has proven itself regarding the performance of its CO_2 transcritical refrigeration system. With the longest-lasting legacy of high quality demonstrations across North American and Europe since 2008, CO_2 refrigeration technology by Carnot Refrigeration has set standards with its efficiency, profitability, sustained performance in the most extreme conditions, simplicity and operational reliability.

NOTEWORTHY FACTS

Installations performed throughout North-America and Europe;

Daily savings for our clients;

Highly qualified engineers who are constantly trying to set higher standards for CO₂ refrigeration technology;

Standards and certifications including CSA, UL and CE;

Awards and recognition from recognized organizations such as ASHRAE and EPA;

Competent customer service team focused on customer satisfaction.

