



CHILLOUT SYSTEMS

2021 PRODUCT INFORMATION

QUANTUM PRO



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- + V3 COOLER
- + PIT COOLER
- + 4" DUCTING
- + 3" DUCTING
- + APPAREL
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CHILLOUTSYSTEMS.COM

INTRODUCTION

www.chilloutsystems.com  



We are winding mountain road addicts, track day junkies, race drivers and designers. Fast, efficient, clean and always leading the pack. That is what we strive for on track and that is how we treat our business. Hit every apex, nothing but purple sectors. A quality team for a quality product.

Charles Kline
CEO - ChillOut Systems

WHO WE ARE

ChillOut Systems is a global shift in driver cooling. Founder Charles Kline brings over 15 years of product development and manufacturing experience with a team made up of the best engineers and designers from around the globe. Together, ChillOut Systems is the most technologically forward thinking, powerful and lightweight driver cooling system in the world.

Our ethos; Professional, Quality, Efficient. Pushing technology to find new levels of performance. ChillOut is a team of racers, innovators, thinkers and designers. Our products are a testament to the high standards we sustain.

The groundbreaking ice-less cooling system delivers a high standard product that requires minimal labor, eliminating the track day nuances that come with inferior cooling methods such as archaic dry ice. We save you the added weight, time and effort by cutting the bulk out. No ice, no water, no maintenance.

Focus on what's important, winning!

QUANTUM PRO

Rated at 20 liters per minute/16 psi, the Quantum Pro is capable of chilling to under 35° F/1.6°C. Max amp draw is rated at 18-22 amps.

(Depending on installation and environmental conditions)

The system contains less than 1.75 oz./51.7 ml of Freon sealed within the rotary micro-compressor system. The Quantum Pro offers many different temperature settings that support varying performance conditions. Dual 220 cfm fans help decrease amp draw, and an illuminated easy-to-read color digital display offers valuable information and data.

Weighing in at 10.5 lbs/4.7 kg, the Quantum Pro is hot-swappable so you can quickly move it from mounting location to mounting location within seconds.



TAKE CONTROL



VARIABLE TEMPERATURE

Adjustable controls that allow to a comfortable range of temperatures to support varying performance conditions.



SMALL COMPACT SIZE

At 11.25" x 6.5" x 6", the compact size allows for mounting in limitless locations while adding minimal weight.



MULTI FUNCTION DISPLAY

Easy to use full color digital display panel that allows you to change settings and process system status instantly.



NO IN-LINE BLOWER REQUIRED

Dual internal brushless fans move 440 cfm of air, eliminating the need for an in-line blower.

FEATURES

- Internal bi-pass valve that eliminates the need for a coolant loop. System continues to cool the reservoir even when the shirt is disconnected
- Dual 4 inch 220 cfm brushless fans
- Li-Po / Li-ion battery support outlet at 24 volts. Supports parallel power at 12 and 24 volts simultaneously with no downtime between power sources
- Eco mode maintains system under 18 amps at all times
- Carbon Fiber Mounting Plate, further reducing weight and heat-soak
- Two flow sensors for monitoring both sides of the flow valves for easy troubleshooting and maintenance
- IP65 Rated

QUANTUM SERIES

Quantum Coolers are the most powerful, portable, ice-less cooling systems ever designed for motor sport. Requiring no ice, our driver cooling systems are completely maintenance free, running solely off the strength of a rotary micro-compressor that is as powerful as other compressors 5x its size.



Weighing less than 11 pounds, the Quantum Cooler is portable and hot-swappable so you can quickly move it from mounting location to mounting location within seconds. Dash mountable digital control display available for installations out of reach from the driver. The Quantum Cooler is simple to use and offers multiple temperature settings that support varying performance conditions.



Quantum V3 offers more cooling power, versatility and easier installation than its predecessor. An Internal bi-pass valve system has been added that eliminates the need for a bi-pass loop to pre-cool the cooler. A 350 cfm brushless fan system has been added which virtually eliminates the need for an in-line blower further reducing complexity, weight and amp draw.



Our Most Advanced Cooler, The Quantum Pro offers Maximum Cooling with minimal effort. Full color multi-function display and dash remote simplify operation with large, easy to read graphics and text. Quantum Pro is perfect for endurance series racing with multiple driver changes thanks to its oversized reservoir and internal bi-pass valve that continues to allow the system to cool, regardless if a driver is connected.

FEATURES	V2	V3	PRO
Condenser CFM	250 CFM	350 CFM	440 CFM
24 Volt Li-Po support	✗	✗	✓
Weight	10.5 lbs	10.5 lbs	11 lbs
Mounting plate material	Steel	Steel	Carbon Fiber
Amp draw	18-22 amps	19-22 amps	18-22 amps
Dimensions	103/4 x 61/2 x 6 in	103/4 x 61/2 x 6 in	121/16 x 63/4 x 67/16 in
Optional remote display	Temperature / Power	Temperature / Power	Multifunction Color
Reservoir	5.5 oz	5.5 oz	14.5 oz
* Internal bi-pass valve	✗	✓	✓
Self priming	✗	✓	✓
** Eco mode	✗		✓
IP65 Rated	✓	✓	✓
*** Dual flow sensors	✗		✓
Requires in-line blower	✓	✗	✗



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QUANTUM PRO

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QUANTUM PRO +

Rated at 20 liters per minute/16 psi, the Quantum Pro is capable of chilling to under 35° F/1.6°C. Max amp draw is rated at 18-22 amps (depending on installation and environmental conditions). The system contains less than 1.75 oz./51.7 ml. of Freon sealed within the rotary micro-compressor system.



COOLER REMOTE CONTROL - PRO +

Featuring a 10 ft. cord and color digital display, the Dash Mountable Remote Control is designed to power your Pro Cooler on and off as well as adjust the temperature from anywhere in your vehicle.



CARBON FIBER MOUNTING PLATE - PRO +

Made from 100% carbon fiber, this base plate upgrade reduces system weight by over 1.5 lbs/0.6 kg. An essential upgrade for those who are chasing lap speed by increasing the power to weight ratio.



QUICK RELEASE PINS +

Machined from 100% stainless steel, these military-grade ball-lock pins secure the Quantum Cooler to the Base Plate.

Designed to prevent unintentional release, the quick release ball lock pins disconnect from base plate for fast swaps between sessions.



QUANTUM PRO

USED BY
RED BULL AMPOL RACING

IN THE 2021 AUSTRALIAN
REPCO SUPERCARS CHAMPIONSHIP



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QUANTUM COOLER V3

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QUANTUM COOLER V3 +

Weighing less than 11 lbs/5 kg, the Quantum Cooler is hot-swappable so you can quickly move it from mounting location to mounting location within seconds. The Quantum Cooler offers 5 temperature settings that support varying performance conditions, dual 175 cfm fans that help decrease amp draw, and an easy-to-read digital display.



COOLER REMOTE CONTROL - V1/V3 +

Featuring a 14 ft. cord and digital temperature display, the Dash Mountable Remote Control is designed to power your Quantum Cooler on and off as well as adjust the temperature from anywhere in your vehicle.



CARBON FIBER MOUNTING PLATE - V1/ +

Made from 100% carbon fiber, this base plate upgrade reduces system weight by over 1.5 lbs/0.6 kg. An essential upgrade for those who are chasing lap speed by increasing the power to weight ratio.



GRILLE UPGRADE w/ PLENUM HOLDER +

This is a perfect upgrade to your current V1 or V2 Quantum Cooler if your current installation requires the use of a plenum. This grille has rails that hold and seal your plenum to your Quantum Cooler for fast and simple attachment/detachment. No need for screws or 3M tape, just slide your plenum in, lock to mounting plate and that's it.

CHILL STATION

Pre-cool your drivers while keeping your crew comfortable and focused with our extremely powerful and light weight Pit Cooler System.



CHILL THE WHOLE TEAM



TRIPLE MICRO-COMPRESSORS

Working in Sequence, 3 powerful Micro Compressors keep the unit operating at optimum performance.



LINK UP TO 12 ADULTS

The Chill Station keeps 6 adults cool and with 12 adults using 6x Y split hoses.



PUMPS 40L PER MINUTE AT 20 PSI

The System sustains 20psi at all times with its sizable 40 liter pump system.



MADE FOR TEAMS

The ideal companion for endurance racing and teams operating in hot conditions.

Chill Station creates a micro-climate inside that keeps you sweat free out of the car. Perfect for endurance teams with multiple drivers and teams that are operating in intense climates on and off track.

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CHILL STATION PIT COOLER

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CHILL STATION - PIT COOLER +

Pre-cool your drivers while keeping your crew comfortable and focused with our extremely powerful and light weight pit cooler system. The Chill Station easily keeps 6 adults cool (or up to 12 adults with 6 x Y split hoses) thanks to 3 super powerful 1,870 BTU rotary micro-compressors on board. A sizable 40 liter per minute pump system maintains 20 psi at all times ensuring everyone connected remains cool.



14ft INSULATED Y COOLANT HOSE +

The ChillOut Y Hose is insulated liquid-transfer tubes encased in an ultra-durable, tear-resistant fabric shield. The primary end of the hose is 6 ft. long branching off into dual 4 ft. hose ends that enable multiple cooling garments to be connected to one driver cooling unit with 1/4" fittings. If the hose is too long for your set-up, cut the hose to the desired length. Extra matching shrink wrap is included for a flawless, clean, durable finish.



DUAL VOLTAGE AC POWER SUPPLY +

Shock-resistant external AC power supply enables cooling outside of your vehicle. This power adapter plugs into the wall and supports 110-220 volts.



WIRING HARNESS (12FT INSULATED) +

8 AWG Wiring harness featuring a 12 ft. shock-resistant rubber power cord wrapped in a protective textile fabric.



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4 INCH DUCTING

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4" CARBON FIBER NACA DUCT - DUAL +

Ultra light weight and wind tunnel tested, our 4 inch NACA duct provides over 55% more airflow than standard 3" NACA ducts. Used in conjunction with 4" Neoprene Air Duct Hose and a 4 inch plenum results in maximum cooling efficiency for your cooling system.



4" CARBON FIBER NACA DUCT +

Ultra light weight and wind tunnel tested, our 4 inch NACA duct provides over 55% more airflow than standard 3" NACA ducts. Used in conjunction with 4" Neoprene Air Duct Hose and a 4 inch plenum results in maximum cooling efficiency for your cooling system.



4" CARBON FIBER 90° AIR PLENUM +

The sleek finished carbon fiber 4" Air Plenum is the most efficient way boost your Quantum Cooler performance. great for extremely hot cars that need ultimate ducting and airflow. Allowing 55% more airflow than 3" ducting, the 90° Air Plenum forces cooler air from outside of the vehicle into the system intake for maximum cooling efficiency. The 90° angle fits easily into limited space for compact installations. Can be attached to face either direction.



4" NEOPRENE AIR DUCT HOSE +

Our Neoprene Air Duct Hose is extremely flexible, pliable and structurally strong thanks to a coated spring-steel wire support helix that prevents it from collapsing. The fiberglass fabric cover and fiberglass cord are both impregnated and coated with neoprene rubber.



CLUB SERIES 4" 285 CFM BLOWER +

An Ultra-efficient and lightweight design, our 4 inch 285 CFM blower offers high output pressure and low amp draw. This is the most powerful and reliable blower in its class.





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3" CARBON FIBER NACA DUCT (DUAL) +

Ultra light weight and wind tunnel tested. NACA ducts bring air into a vehicle with minimal increase in drag. The purpose of a NACA duct is to increase the flow rate of air while not disturbing the boundary layer. When the cross-sectional flow area of the duct is increased, you decrease the static pressure and make the duct into a vacuum cleaner (without the drag effects of a standard scoop).



3" CARBON FIBER NACA DUCT +

Ultra light weight and wind tunnel tested. NACA ducts bring air into a vehicle with minimal increase in drag. The purpose of a NACA duct is to increase the flow rate of air while not disturbing the boundary layer. When the cross-sectional flow area of the duct is increased, you decrease the static pressure and make the duct into a vacuum cleaner (without the drag effects of a standard scoop).



3" CARBON FIBER 90° AIR PLENUM +

With a 3" duct opening, sleek finished carbon fiber Air Plenum forces cooler air from outside of the vehicle into the system intake for maximum cooling efficiency. The 90° angle fits easily into limited space for compact installations. Can be attached to face either direction.



3" NEOPRENE AIR DUCT HOSE +

Our Neoprene Air Duct Hose is extremely flexible, pliable and structurally strong thanks to a coated spring-steel wire support helix that prevents it from collapsing. The fiberglass fabric cover and fiberglass cord are both impregnated and coated with neoprene rubber.



CLUB SERIES 3" 180 CFM BLOWER +

An Ultra-efficient and lightweight design, our 4 inch 285 CFM blower offers high output pressure and low amp draw. This is the most powerful and reliable blower in its class.



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PRO TOURING COOLING SHIRT +

Encasing 160 ft of flexible, thermally conductive cooling veins structured throughout the shirt's SFI rated material, the Pro Touring Series Cooling Shirt is designed to effectively cool you from your core.



PRO TOURING SPORT COOLING SHIRT +

Single layered SFI rated material supporting flexible, thermally conductive cooling veins - the Pro Touring Sport Series is our lightweight, mid-tier cooling shirt perfectly designed to be worn under a racing suit.



CLUB SERIES COOLING SHIRT +

Made from dual layers of soft-stretch cotton, the Club Series Cooling Shirt is one of the most comfortable shirts on the market. The dual layer conceals a strategically structured layer of thermal conductive cooling veins that target the most vital region of the body - the core.



INSULATED COOLANT HOSE +

The ChillOut Hose is an insulated liquid-transfer tube encased in an ultra-durable, tear-resistant fabric shield. Includes 6 to 10 feet of hose that connects your cooling garment to the driver cooling unit with ¼ inch fittings for a consistent flow cycle.



COOLANT FORMULA (1.5L) +

ChillOut Systems Coolant Formula is a non-toxic and biodegradable concentrate that circulates through our Quantum Cooler and Cooling Garments, keeping you cool and your system running in prime condition.





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CONNECTORS

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RAPID RELEASE KIT +

The Rapid Release dry break system makes driver changes fast and effortless. No fumbling with tubes or connectors while under pressure, just a quick press and coolant/water starts flowing instantly. In an emergency, the connectors release when a force greater than 10 lbs is applied.



DUAL PRONG CONNECTOR +

Designed to withstand wear, the military-grade dual prong liquid connector maximizes the reliability of your driver cooling unit. The dual prong design latches securely, enabling the ChillOut Hose to be linked to your system and preventing from unintentional release.



BREAKAWAY COUPLING +

The break-away connectors are a unique latch assembly that consists of two independent mechanisms that secure together and breakaway at 9 lbs of pressure. Our break-away adapters are independent of the current shunt connectors so that they can be placed in a location on the tubing that is best to breakaway in an emergency situation.



REPLACEMENT O-RINGS (10 PCS) +

This complete O-ring kit consists of 10 universal ringed seals that prevent spillage. From time to time these can become damaged so it's a good idea to have a few on hand for last minute repairs.

CHILLOUT
MOTORSPORTS

#chilloutmotorsports  



COMING Q4 2021



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SYSTEMS

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