

Durst **DURST COOL**

12 V DC EQUIPMENT COOLING FANS AND ACCESSORIES

Equipment Cooling Manual

Cool 80 D-ECF-80 | Cool 120 D-ECF-120 | Cool 120 Pro D-ECF-120P | Cool 140 D-ECF-140

Installation | Operation | Maintenance



Heat out. Power in.

Read and keep this manual before installing or using the fan.

Designed by Durst Industries Australia

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Using this manual

This manual covers the DURST Cool 80, 120, 120 Pro and 140 equipment cooling fans, the DURST CoolControl 01 (D-ECT-01) temperature controller, power leads and mounting accessories. It explains how to mount the fan, connect it to a suitable DC supply, check its operation and maintain the assembly.

Identify the model on the product label before installation. Read the safety instructions, select the mounting and power arrangement, then complete the checks before use. Keep this manual with the equipment.

Built for the job

DURST Cool fans are engineered as equipment cooling fans in their own right, built to the highest grade.

- **Quiet, smooth and premium.** Brushless motors for quiet, smooth running.
- **Brushless and 4-wire PWM.** Every fan in the range runs on 12 V DC and works with CoolControl.
- **One connector across the range.** Fans, leads and CoolControl all use the same 4-pin locking connector, so everything plugs together.
- **Braided wiring** on every part.
- **A mounting solution with every fan.** The universal mount comes fitted.
- **Engineered grills** front and back.
- **Anti-vibration system.** Soft TPU dampers (the blue and red parts) keep vibration to a minimum.
- **Heavy-duty armour.** Hard-wearing external armour made with carbon polymers.
- **12-month warranty** from Durst.

Safety and operating conditions

Before installation or servicing

- Disconnect the fan from power and wait for the blades to stop before mounting, cleaning, dismantling, changing mounts or reversing airflow. Isolate the supply before working on terminal connections.
- A fan connected through CoolControl can start automatically. Disconnect power before placing hands or tools near the fan, even when the blades are stationary.
- Operate with the front and rear grills fitted and the assembly fully secured. Keep fingers, hair, clothing, loose cables and other objects clear of the blades.
- Check the fan, lead and connectors are in good condition before use. If you notice damaged insulation, unusual heat or a burning smell, disconnect power and contact Durst.

Electrical supply

- DURST Cool fans are 12 V DC fans. Connect them to a 12 V DC supply only and confirm polarity before connecting.
- Use DURST Cool leads and accessories, which all share the same 4-pin locking connector.

Installation environment

Keep in a dry place. Choose a protected location away from hot surfaces, with an open airflow path, and keep the equipment manufacturer's installation clearances.

DURST Cool fans work alongside the original ventilation of the charger, inverter or other equipment, adding extra cooling where heat builds up.

Product range and supplied items

Product family: DURST Cool equipment cooling range.

Model	Label SKU	Product name	Product type
D-ECF-80	1015901120114	DURST Cool 80 80mm Equipment Cooling Fan	Equipment cooling fan
D-ECF-120	1015901120121	DURST Cool 120 120mm Equipment Cooling Fan	Equipment cooling fan
D-ECF-120P	1015901120138	DURST Cool 120 Pro 120mm Equipment Cooling Fan	Equipment cooling fan
D-ECF-140	1015901120145	DURST Cool 140 140mm Equipment Cooling Fan	Equipment cooling fan
D-ECT-01	1015901120152	DURST CoolControl 01 Automatic Fan Temperature Controller	Plug-and-play fan temperature controller, sold separately
D-ECL-1M	1015901120169	DURST Cool 1M Fan Power Lead	Spare or replacement lead
D-ECL-3M	1015901120176	DURST Cool 3M Fan Power Lead	Extension lead for longer runs, sold separately
D-ECM-01	-	DURST Cool 120 Vertical Fan Mount	Optional mount for Cool 120 and Cool 120 Pro, sold separately
D-ECM-02	-	DURST Cool 140 Vertical Fan Mount	Optional mount for Cool 140, sold separately
Cool Flow brackets	-	DURST Cool Flow DC-DC charger fan brackets	Optional brackets for the Cool 80 only, sold separately

Applications

DC-DC chargers, inverters, fridge compartments, power boards, under-seat installs, battery boxes and enclosed 12 V electrical systems. Ideal for 4WD and offroad vehicles, caravans and RVs, overlanding, touring vehicles and remote travel.

Check the package

Check the model and supplied items before installation. Contact Durst if anything is missing.

Item	Package check
Fan assembly	Check the assembled fan, armour, dampers and front and rear grills.
Universal mount	Supplied fitted to every fan.
1m power lead	Supplied with every fan: an 80cm lead with a 4-pin locking plug, plus a 20cm extension with positive and negative fork terminals for connecting to the battery terminals.
Optional accessories	Sold separately: CoolControl 01, 1M spare lead, 3M extension lead, Cool 120 Vertical Fan Mount (Cool 120 and 120 Pro), Cool 140 Vertical Fan Mount (Cool 140) and Cool Flow DC-DC charger brackets (Cool 80 only).

Cool Flow fan brackets are available for DURST 25A and 50A DC-DC chargers and popular BCDC chargers. See DC-DC charger brackets for details.

Fan model specifications

Select the fan size and airflow suited to the available space and heat load. Specifications are taken from the product labels at 12 V.

Fan size describes the nominal fan. Installation dimensions are for the assembled module.

Specification	Cool 80	Cool 120	Cool 120 Pro	Cool 140
Model	D-ECF-80	D-ECF-120	D-ECF-120P	D-ECF-140
Nominal fan size	80mm	120mm	120mm	140mm
Fan speed	300 to 3000 RPM	230 to 1350 RPM	230 to 3000 RPM	200 to 1700 RPM
Airflow	22.5 cfm / 38.23 m ³ /h	53 cfm / 90.1 m ³ /h	108 cfm / 188.78 m ³ /h	126 m ³ /h (approx. 74 cfm)
Static pressure	2.35 mmH ₂ O	1.0 mmH ₂ O	6.15 mmH ₂ O	1.6 mmH ₂ O
Current at 12 V	0.09 A	0.12 A	0.48 A	0.11 A
Nominal voltage	12 V DC	12 V DC	12 V DC	12 V DC
Motor	DC brushless	DC brushless	DC brushless	DC brushless
Speed control	4-wire PWM	4-wire PWM	4-wire PWM	4-wire PWM
Damper colour	Blue	Blue	Red	Blue
Connector	4-pin locking	4-pin locking	4-pin locking	4-pin locking
Cable	Braided side-exit	Braided side-exit	Braided side-exit	Braided side-exit
Housing	Slimline, low-profile, carbon polymer armour	Slimline, low-profile, carbon polymer armour	Slimline, low-profile, carbon polymer armour	Slimline, low-profile, carbon polymer armour
Grills	Engineered spiral grills, front and back	Engineered spiral grills, front and back	Engineered spiral grills, front and back	Engineered spiral grills, front and back
Mount	Universal, fitted. Optional Cool Flow DC-DC bracket	Universal, fitted. Optional Cool 120 Vertical Fan Mount	Universal, fitted. Optional Cool 120 Vertical Fan Mount	Universal, fitted. Optional Cool 140 Vertical Fan Mount
Dimensions	88 x 88 x 33 mm	127 x 127 x 44 mm	127 x 127 x 44 mm	148 x 148 x 46 mm
Best for	Tight spaces and compact equipment installs	General equipment installs	High-airflow and high-heat applications	Larger compartments and higher airflow coverage
Warranty	12 months	12 months	12 months	12 months
Use	Dry locations	Dry locations	Dry locations	Dry locations

Installation dimensions

Measure the complete module, mount and cable exit before mounting, and use the mount as a template for mounting-hole positions.

DURST Cool 80

D-ECF-80 | 80mm equipment cooling fan

Product description

The DURST Cool 80 Equipment Cooling Fan is a compact 80mm cooling fan module designed for quiet airflow in tight equipment spaces. Suitable for DC-DC chargers, inverters, fridge compartments, power boards, battery boxes, under-seat installs and enclosed 12 V electrical setups, the D-ECF-80 helps reduce heat build-up around sensitive electrical components. Its slimline housing, engineered grills, blue TPU dampers, braided side-exit cable and 4-pin locking connector make it suitable for clean, secure equipment cooling installations. It is the only fan in the range that fits the Cool Flow DC-DC charger brackets.



Key features

- Compact 80mm equipment cooling fan.
- Designed for tight equipment spaces.
- Quiet, smooth airflow.
- Engineered spiral grills, front and back.
- Slimline, low-profile housing with carbon polymer armour.
- Blue soft TPU anti-vibration dampers.
- Braided side-exit cable.
- 4-pin locking connector.
- Universal mount fitted. Fits the Cool Flow DC-DC charger brackets.
- Suitable for DC-DC chargers, inverters, fridges and battery boxes.

Product specifications

Specification	Value
Model label SKU	D-ECF-80 1015901120114
Fan size	80mm
Fan speed	300 to 3000 RPM
Airflow	22.5 cfm / 38.23 m³/h
Static pressure	2.35 mmH₂O
Current at 12 V	0.09 A
Nominal voltage	12 V DC
Motor and control	DC brushless, 4-wire PWM
Damper colour	Blue
Connector	4-pin locking
Cable	Braided side-exit
Housing	Slimline, low-profile, carbon polymer armour
Grills	Engineered spiral grills, front and back
Mount	Universal, fitted. Optional Cool Flow DC-DC charger bracket
Dimensions	88 x 88 x 33 mm
In the box	Fan, universal mount (fitted), 1m power lead (80cm lead plus 20cm fork-terminal extension)
Warranty	12 months

DURST Cool 120

D-ECF-120 | 120mm equipment cooling fan

Product description

The DURST Cool 120 Equipment Cooling Fan is a versatile 120mm cooling fan module designed for balanced, quiet airflow in electrical equipment installations. Suitable for DC-DC chargers, inverters, fridge compartments, power boards, battery boxes, under-seat installs and enclosed 12 V systems, the D-ECF-120 helps reduce heat build-up around sensitive components. Its slimline housing, engineered spiral grills, blue TPU dampers, braided side-exit cable and 4-pin locking connector make it suitable for clean, secure and reliable equipment cooling installations.



Key features

- 120mm equipment cooling fan.
- Balanced airflow and quiet operation.
- Versatile size for general equipment installs.
- Engineered spiral grills, front and back.
- Slimline, low-profile housing with carbon polymer armour.
- Blue soft TPU anti-vibration dampers.
- Braided side-exit cable.
- 4-pin locking connector.
- Universal mount fitted. Optional Cool 120 Vertical Fan Mount.
- Suitable for DC-DC chargers, inverters, fridges and battery boxes.

Product specifications

Specification	Value
Model label SKU	D-ECF-120 1015901120121
Fan size	120mm
Fan speed	230 to 1350 RPM
Airflow	53 cfm / 90.1 m³/h
Static pressure	1.0 mmH ₂ O
Current at 12 V	0.12 A
Nominal voltage	12 V DC
Motor and control	DC brushless, 4-wire PWM
Damper colour	Blue
Connector	4-pin locking
Cable	Braided side-exit
Housing	Slimline, low-profile, carbon polymer armour
Grills	Engineered spiral grills, front and back
Mount	Universal, fitted. Optional Cool 120 Vertical Fan Mount
Dimensions	127 x 127 x 44 mm
In the box	Fan, universal mount (fitted), 1m power lead (80cm lead plus 20cm fork-terminal extension)
Warranty	12 months

DURST Cool 120 Pro

D-ECF-120P | 120mm high-airflow, high-pressure equipment cooling fan

Product description

The DURST Cool 120 Pro Equipment Cooling Fan is our high-airflow, high-pressure 120mm fan for big canopies and hard-working setups. Suitable for high-heat DC-DC chargers, inverters, fridge compartments, power boards, battery boxes, under-seat installs and enclosed 12 V systems, the D-ECF-120P helps reduce heat build-up where stronger airflow is required. Its slimline housing, engineered spiral grills, red TPU dampers, braided side-exit cable and 4-pin locking connector make it suitable for secure, clean and reliable equipment cooling installations.



Key features

- 120mm high-performance equipment cooling fan.
- Designed for demanding airflow applications.
- Quiet, smooth brushless motor.
- Suitable for high-heat equipment installs.
- Engineered spiral grills, front and back.
- Slimline, low-profile housing with carbon polymer armour.
- Red Pro soft TPU anti-vibration dampers.
- Braided side-exit cable.
- 4-pin locking connector.
- Universal mount fitted. Optional Cool 120 Vertical Fan Mount.
- Suitable for DC-DC chargers, inverters, fridges and battery boxes.

Product specifications

Specification	Value
Model label SKU	D-ECF-120P 1015901120138
Fan size	120mm
Fan speed	230 to 3000 RPM
Airflow	108 cfm / 188.78 m³/h
Static pressure	6.15 mmH ₂ O
Current at 12 V	0.48 A
Nominal voltage	12 V DC
Motor and control	DC brushless, 4-wire PWM
Damper colour	Red
Connector	4-pin locking
Cable	Braided side-exit
Housing	Slimline, low-profile, carbon polymer armour
Grills	Engineered spiral grills, front and back
Mount	Universal, fitted. Optional Cool 120 Vertical Fan Mount
Dimensions	127 x 127 x 44 mm
In the box	Fan, universal mount (fitted), 1m power lead (80cm lead plus 20cm fork-terminal extension)
Warranty	12 months

DURST Cool 140

D-ECF-140 | 140mm equipment cooling fan

Product description

The DURST Cool 140 Equipment Cooling Fan is a large 140mm cooling fan module designed for high-airflow equipment cooling in larger electrical compartments and enclosed 12 V systems. Suitable for DC-DC chargers, inverters, fridge compartments, power boards, battery boxes, under-seat installs and other heat-sensitive electrical setups, the D-ECF-140 helps reduce heat build-up where broader airflow coverage is required. Its slimline housing, engineered spiral grills, blue TPU dampers, braided side-exit cable and 4-pin locking connector make it suitable for clean, secure and reliable equipment cooling installations.



Key features

- 140mm equipment cooling fan.
- Large fan size for higher airflow coverage.
- Designed for larger equipment compartments.
- Quiet, smooth airflow.
- Engineered spiral grills, front and back.
- Slimline, low-profile housing with carbon polymer armour.
- Blue soft TPU anti-vibration dampers.
- Braided side-exit cable.
- 4-pin locking connector.
- Universal mount fitted. Optional Cool 140 Vertical Fan Mount.
- Suitable for DC-DC chargers, inverters, fridges and battery boxes.

Product specifications

Specification	Value
Model label SKU	D-ECF-140 1015901120145
Fan size	140mm
Fan speed	200 to 1700 RPM
Airflow	126 m³/h (approx. 74 cfm)
Static pressure	1.6 mmH ₂ O
Current at 12 V	0.11 A
Nominal voltage	12 V DC
Motor and control	DC brushless, 4-wire PWM
Damper colour	Blue
Connector	4-pin locking
Cable	Braided side-exit
Housing	Slimline, low-profile, carbon polymer armour
Grills	Engineered spiral grills, front and back
Mount	Universal, fitted. Optional Cool 140 Vertical Fan Mount
Dimensions	148 x 148 x 46 mm
In the box	Fan, universal mount (fitted), 1m power lead (80cm lead plus 20cm fork-terminal extension)
Warranty	12 months

DURST CoolControl 01

D-ECT-01 automatic fan temperature controller, sold separately.

Model	Label SKU	Category	Variant
D-ECT-01	1015901120152	Accessory	Standard

Product description



CoolControl 01 is an optional, plug-and-play temperature controller for DURST Cool equipment cooling fans. It fits inline between the fan and the power lead with built-in male and female plugs, so there is no cutting or crimping. It automatically turns the fan on when the start temperature is reached, increases fan speed as the temperature rises, and turns the fan off again once the equipment space has cooled. Designed for enclosed electrical compartments, CoolControl helps manage heat around DC-DC chargers, inverters, battery boxes, fridge compartments, power boards, under-seat installs and compact auxiliary power systems.

Key features

- Plug and play: fits inline between the fan and the power lead.
- Same 4-pin locking connector as every DURST Cool fan and lead.
- Works with every DURST Cool fan (all 4-wire PWM).
- Fan stays off until the start temperature is reached, then ramps up to full speed as the temperature rises.
- Switches the fan off 3°C below the start temperature.
- User-adjustable settings with one button and three LEDs.
- Helps reduce heat build-up in enclosed electrical spaces.
- Low standby draw: 10 to 25 mW.

CoolControl runs any combination of DURST Cool fans up to 3 A in total.

Product specifications

Specification	Details
Input voltage	5 to 15 V DC. The fan's own voltage rating applies (DURST Cool fans are 12 V).
Supported fans	4-wire PWM fans only, including every DURST Cool fan.
Maximum fan load	Under 3 A of fans.
Standby draw	10 mW at 5 V, 25 mW at 12 V.
Temperature probe	50K NTC
Connection	Built-in male and female 4-pin locking plugs, inline between the fan and the power lead.
Settings	Start temperature, start fan speed and full-speed difference.
Use	Dry locations
Warranty	12 months

CoolControl settings

Setting	Range	Default
Start temperature	35 to 65°C	45°C
Start fan speed	20 to 60%	25%
Full-speed difference (above start temperature)	5 to 50°C	20°C

How it runs. Below the start temperature, the fan is off. At the start temperature, the fan runs at the start fan speed and ramps up to full speed at the start temperature plus the full-speed difference. It stops 3°C below the start temperature.

EXAMPLE (DEFAULTS): The fan starts at 45°C at 25% speed, reaches full speed at 65°C and stops at 42°C.

Install and test the controller using Installing and setting CoolControl. The fan rests below the start temperature and starts automatically as the space warms up.

Cool 1M Fan Power Lead

D-ECL-1M | 1 metre lead

Model	Label SKU	Category	Variant
D-ECL-1M	1015901120169	Accessory	Standard

Product description



The D-ECL-1M DURST Cool 1M Fan Power Lead is the same lead that comes in the box with every fan: 1m in total, made up of an 80cm lead with a 4-pin locking plug plus a 20cm extension with positive and negative fork terminals. It can be used to power the fan directly when temperature control is not required, or as the plug-and-play connection lead for CoolControl. Keep one in the kit as a spare, or use it to replace a damaged lead.

Key features

- 1m in total: 80cm lead plus 20cm fork-terminal extension.
- Supplied with every fan. Also sold separately as a spare or replacement lead.
- Positive and negative fork terminals.
- 4-pin locking connector to suit every DURST Cool fan.
- Heavy-duty braided lead.
- Allows direct fan connection to power when temperature control is not required.
- Plug-and-play connection to CoolControl.

Product specifications

Specification	Value
Model	D-ECL-1M
Lead length	1m total (80cm lead plus 20cm fork-terminal extension)
Nominal application	12 V DC DURST Cool equipment cooling
Cable	Heavy-duty braided lead
Terminals	Positive and negative fork terminals
Connector	4-pin locking
Fuse protection	Fit a suitably rated inline fuse at the power source
Direct power use	Fan connection where temperature control is not required
Controller use	Connection to CoolControl 01 (D-ECT-01)
Availability	Included with every fan. Additional leads sold separately.

Route the lead clear of fan blades, sharp edges and hot surfaces, and secure it so it is well supported. To disconnect, press the locking tab and pull on the connector housings.

Cool 3M Fan Power Lead

D-ECL-3M | 3 metre extension lead

Model	Label SKU	Category	Variant
D-ECL-3M	1015901120176	Accessory	Standard

Product description



The D-ECL-3M DURST Cool 3M Fan Power Lead is an optional extension lead for longer runs. It gives a 3 metre connection where the fan is mounted further away from the power source or CoolControl, so the fan can sit where the heat is and still reach power. Every fan already has a 1m lead in the box.

Key features

- 3 metre DURST Cool extension lead for longer runs.
- Available separately as an optional accessory.
- 4-pin locking connectors to suit every DURST Cool fan.
- Heavy-duty braided lead.
- Works with direct power or with CoolControl.

Product specifications

Specification	Value
Model	D-ECL-3M
Lead length	3 metres
Nominal application	12 V DC DURST Cool equipment cooling
Cable	Heavy-duty braided lead
Connector	4-pin locking
Connection	Connects using the 4-pin locking connectors
Use	Extension for longer runs, with direct power or CoolControl 01 (D-ECT-01)
Availability	Optional accessory, sold separately

Route the lead clear of fan blades, sharp edges and hot surfaces, and secure it so it is well supported. To disconnect, press the locking tab and pull on the connector housings.

Installing the fan and arranging airflow

Choose the position

Choose a firm, dry mounting surface and allow access to the connector and mounting screws. Keep the inlet and outlet open. Observe the charger, inverter or enclosure manufacturer's required clearances and keep its existing vents.

For engine bays or anywhere flammable gas may be present, contact Durst first.

Provide a path for cooler air to enter and warmer air to leave the compartment. Exchanging air with the surroundings gives the best cooling, so place the inlet and outlet apart.

Airflow direction

Each fan has direction markings. Use the airflow direction marking to identify the intake and outlet before installation. Test the assembled fan briefly with both grills fitted to confirm the chosen airflow direction.

For extraction, position the fan to move warm air out through an outlet and provide a separate inlet. For intake, direct cooler air into the compartment and provide an outlet. Keep both openings clear.

To reverse airflow, disconnect power and flip the fan so its front and back faces swap places during reassembly. Keep the original electrical polarity.

Mounting procedure

- 1 Disconnect and check.** Disconnect the fan and isolate the supply. Check behind the proposed mounting surface for wiring, pipes and other equipment before drilling.
- 2 Select the mount.** Use the fitted universal mount, or a compatible vertical mount or Cool Flow bracket. Hold the complete module in place and check clearance for the grills, cable exit, connector and airflow path.
- 3 Mark the fixings.** Use the actual mount to mark fixing positions if using screws. Use suitable self-tapping screws or double-sided mounting tape, as appropriate for the surface, load and operating temperature.
- 4 Prepare the surface.** Prepare fixing holes if using screws, and an unobstructed ventilation opening where required. Remove swarf and sharp edges. If using mounting tape, prepare the surface according to the tape manufacturer's instructions.
- 5 Secure the mount.** Secure the mount evenly. Keep the original assembly screws in the fan. Mount to the surrounding panel rather than to the charger, inverter or battery housing.
- 6 Route the lead.** Route and support the lead. Use appropriate protection where the cable passes through a panel, and leave enough slack to disconnect the locking connector.
- 7 Check the install.** Check that the module is secure, the blades clear the grills and the connector remains accessible. Complete the power and operational checks before use.

Mounting options and changing the mount

Every DURST Cool fan comes with the universal mount fitted. You can swap it for the optional Cool 120 Vertical Fan Mount (Cool 120 and Cool 120 Pro), the optional Cool 140 Vertical Fan Mount (Cool 140) or, on the Cool 80 only, a Cool Flow DC-DC charger bracket. All mounts use the fan assembly's four mounting points. Select the mount made for your fan model.

Mount	Fits	Supply
Universal mount	Cool 80, Cool 120, Cool 120 Pro, Cool 140	Fitted to every fan
Cool 120 Vertical Fan Mount (D-ECM-01)	Cool 120 and Cool 120 Pro	Optional, sold separately
Cool 140 Vertical Fan Mount (D-ECM-02)	Cool 140	Optional, sold separately
Cool Flow DC-DC charger brackets	Cool 80 only	Optional, sold separately

Universal mount

The universal mount has 16 mounting holes on the bottom, which can be used to securely mount it and reassemble the fan onto. Best for direct, low-profile mounting close to a panel, battery box, power board or other tight equipment compartment. Keep an opening behind the fan clear when mounting it flush to a panel.

Vertical fan mount

Best where the fan stands away from the equipment being cooled. The 90-degree mount holds the fan upright on a floor, shelf or enclosure panel. The slotted base allows adjustment during positioning.



Cool 120 Vertical Fan Mount (D-ECM-01)

Fits the Cool 120 and Cool 120 Pro. Sold separately.



Cool 140 Vertical Fan Mount (D-ECM-02)

Fits the Cool 140. Sold separately.

Change the mount

- 1 Disconnect.** Disconnect power, wait for the blades to stop and support the fan securely.
- 2 Remove the mount.** Remove the four original mounting screws. Lift the existing mount away and keep the screws.
- 3 Position the new mount.** Position the compatible replacement mount against the fan and align its four mounting holes.
- 4 Refit the screws.** Reinstall the original screws and tighten evenly in a diagonal pattern until snug.
- 5 Check.** Check that the mount sits flush, the cable is clear and the blades can rotate freely. Secure the assembly to its mounting surface before reconnecting power and testing.

DC-DC charger brackets

Cool Flow fan brackets for the Cool 80 only. All brackets are sold separately.

Cool Flow brackets hold a DURST Cool 80 right on top of the charger, so the heat is pulled away from where it builds up. Each bracket swaps in for the Cool 80's fitted universal mount.

Bracket	Fits
DURST 25A charger bracket	DURST 25A DC-DC charger
DURST 50A charger bracket	DURST 50A Dual Voltage DC-DC charger
BCDC charger bracket	Popular BCDC chargers. Check the product page or contact Durst for the charger models it fits.



DURST 25A charger bracket

Fits the DURST 25A DC-DC charger. Holds a Cool 80 on top of the charger.



DURST 50A charger bracket

Fits the DURST 50A Dual Voltage DC-DC charger. Holds a Cool 80 on top of the charger.

Dismantling and reassembling the fan

Dismantling

- 1 Disconnect.** Disconnect the fan from power and wait for the blades to stop.
- 2 Take note.** Note the airflow direction and the route of the power cable.
- 3 Remove the corner screws.** Support the front grill. Use the correctly sized hex key to remove the four countersunk corner screws and keep them for reassembly.
- 4 Remove the front grill and housing.** Lift off the front grill, then remove the fan housing. Guide the cable through the housing opening without pulling on it.
- 5 Remove the fan.** Lift out the fan by its frame. Remove the rear grill and rear mounting plate if required.

Reassembly

- 1 Rear plate and grill.** Position the rear mounting plate and rear grill, aligning their mounting holes.
- 2 Choose the airflow direction.** Flip the fan to reverse airflow if required. Follow the airflow direction marking on the fan. Keep the electrical connections in their original polarity.
- 3 Position the fan.** Position the fan against the rear grill and route its cable towards the housing opening.
- 4 Fit the housing.** Fit the fan housing. Keep the cable clear of the blades and make sure it is not pinched.
- 5 Fit the front grill.** Reinstall the four original countersunk screws and tighten evenly until their heads sit flush.
- 6 Check and test.** Check that all parts are secure and the blades clear the grills. Reconnect power and briefly test the chosen airflow direction.

Cable protection and 4-pin locking connectors

The braided sleeve protects the lead, the locking clip secures the connector and the heat-shrink supports the cable at the connection.

One 4-pin locking connector is used across the whole DURST Cool range, so fans, leads and CoolControl all plug together.



Align the connector housings and push them together until the clip locks. To disconnect, press the locking tab and pull the housings straight apart. Keep the lead supported with gentle bends.

Complete cooling system

A complete DURST Cool system has the fan, optional CoolControl with its temperature probe, and the 1m power lead (80cm lead plus 20cm fork-terminal extension). The power lead is included with every fan; CoolControl is sold separately.

Order	Part	Connects to
1	12 V DC power source	Fork terminals on the 20cm extension
2	1m power lead (80cm lead plus 20cm fork-terminal extension)	CoolControl input plug, or the fan directly
3	CoolControl 01 (optional), inline	Fan plug
4	DURST Cool fan	CoolControl output plug, or the power lead directly

The temperature probe monitors the area being cooled, so CoolControl can run the fan automatically as the temperature changes. Follow the power connection instructions in this manual. Make sure all locking connectors are fully seated and keep cables clear of the fan blades.

Connecting to power

Supply

DURST Cool fans are 12 V DC. Keep the inline connector disconnected and isolate the source before working on terminal connections.

Direct fan connection

- 1 Check and isolate.** Check the fan model and 12 V DC supply. Isolate the supply and leave the inline locking connector disconnected.
- 2 Connect the lead.** Connect the power lead to the fan connection and make sure it is fully seated.
- 3 Fit the fork-terminal extension.** Fit the 20cm fork-terminal extension to the approved supply points. Connect the red-sleeved fork terminal to positive (+) and the black-sleeved fork terminal to negative (-). Confirm polarity before energising. Fit a suitably rated inline fuse at the power source.
- 4 Secure the terminals.** Secure the fork terminals firmly under the terminal screws or studs, keeping each terminal clear of the opposite terminal and surrounding metal.
- 5 Route the cable.** Route and support the cable clear of blades, sharp edges and hot surfaces. Check the grills and keep hands and objects away from the fan.
- 6 Connect.** Re-enable the supply, align the inline connectors and push them together until the locking clip engages. In direct connection, the fan starts when power is connected.
- 7 To stop the fan.** Press the locking clip and pull the connector housings apart.

IMPORTANT: Disconnecting the fan connector stops the fan. The lead stays live while it is connected to the source, so isolate the source before changing terminals or servicing the lead.

Installing and setting CoolControl

Connect CoolControl

Use CoolControl 01 (D-ECT-01) with DURST Cool fans and leads. It fits inline between the fan and the power lead, using its built-in male and female 4-pin locking plugs. The power lead feeds CoolControl, and the fan connects to CoolControl's output.

- 1 Disconnect and check.** Disconnect the fan, isolate the supply and confirm the fan load is under 3 A.
- 2 Identify the connections.** Identify CoolControl's input plug, output plug and temperature probe.
- 3 Plug it in.** Unplug the fan from its power lead. Plug the fan into CoolControl, then plug CoolControl into the power lead. Fully seat the locking connectors.
- 4 Secure CoolControl.** Secure CoolControl in a dry, protected, accessible position. Route the cables so they are supported and clear of blades, sharp edges and hot surfaces.
- 5 Position the probe.** Position the temperature probe to monitor the space being cooled and secure it firmly in place, clear of rotating parts and electrical terminals.
- 6 Power up.** Check all connections and grills, then restore the supply. Keep clear: the fan starts straight away if the space is already above the start temperature.

Set the operating temperature

CoolControl comes ready to run on the default settings: start temperature 45°C, start fan speed 25% and full-speed difference 20°C. To tailor it to your equipment, use the button and the three LEDs (LED1, LED2 and LED3). A click is a short press of the button. A long press is pressing and holding the button.

- 1 Check working mode.** When CoolControl is powered, it runs in working mode and LED2 is on.
- 2 Enter setup.** Long press the button. LED1 flashes 3 times to show you are setting the start temperature.
- 3 Choose the start temperature.** Click to step through the values. The LEDs show the selected value (see the LED guide).
- 4 Choose the start fan speed.** Long press to move to the next setting. LED2 flashes 3 times. Click to step through the values.
- 5 Choose the full-speed difference.** Long press to move to the next setting. LED3 flashes 3 times. Click to step through the values.
- 6 Save.** Long press once more. All LEDs flash to show save mode. Click to save. CoolControl returns to working mode with LED2 on.

LED guide

CoolControl status	LEDs
Working mode	LED2 on
Setting 1: start temperature	LED1 flashes 3 times
Setting 2: start fan speed	LED2 flashes 3 times
Setting 3: full-speed difference	LED3 flashes 3 times
Save mode	All LEDs flash. Click to save.

While you choose a value, the LEDs show it as follows. The same pattern is used for all three settings.

LED1	LED2	LED3	Start temperature	Start fan speed	Full-speed difference
On	Off	Off	35°C	20%	5°C
Off	On	Off	40°C	25% (default)	10°C
On	On	Off	45°C (default)	30%	15°C
Off	Off	On	50°C	35%	20°C (default)
On	Off	On	55°C	40%	30°C
Off	On	On	60°C	50%	40°C
On	On	On	65°C	60%	50°C

Choose a start temperature that suits the equipment being cooled. The probe reads the temperature of the space around it.

Record the chosen settings and probe position. Run the equipment under normal monitored conditions and check that the fan starts at the intended temperature, increases speed as the temperature rises and stops after the area cools.

Automatic operation

The fan rests below the start temperature and restarts automatically while power is connected. Disconnect power before servicing.

Confirm the start temperature, stop temperature (3°C below start) and speed response during the installation test. Contact Durst for help with any setting.

Testing and normal operation

Check before applying power

- Fan model, lead and mount match the installation; mounting fixings and original assembly screws are secure.
- Front and rear grills are fitted, blades clear the grills and cables are clear of moving parts.
- Inlet and outlet openings are unobstructed and the compartment has an air exchange path.
- Polarity, 12 V DC supply and terminal security have been checked.
- Locking connectors are seated, the lead is supported and the disconnect point is accessible.
- Where fitted, CoolControl settings, probe position and fan load (under 3 A) have been checked.

Test the installation

- 1 Connect power.** Keep hands and loose objects clear, then connect power. For direct connection, confirm that the fan starts. With CoolControl, check its response against your settings.
- 2 Check airflow.** Check airflow at a safe distance from the grills and confirm it moves in the intended direction. If reversal is needed, disconnect power and reassemble the fan in the opposite orientation.
- 3 Listen.** Listen for smooth, even running. If you hear rubbing or rattling, disconnect power and check the assembly and mounting.
- 4 Run the equipment.** Run the equipment being cooled under normal conditions and confirm the fan is reducing heat build-up as intended.
- 5 Check for heat.** Check that the mounting stays secure and the lead and connections stay cool.
- 6 Check disconnection.** Confirm the fan can be disconnected safely and, where CoolControl is fitted, that it starts, changes speed and stops as intended.

Using the fan

With direct power, the fan runs while the supply is connected. Add CoolControl for automatic, temperature-based speed control.

Disconnect the fan when it is not needed to save battery power.

General maintenance

Regular care keeps the fan moving air and protects the equipment it cools. Carry out these checks as part of normal use.

Cleaning and inspection

1

Disconnect. Disconnect power and wait for the blades to stop. Isolate the supply before inspecting or working on terminal connections.

2

Clean. Remove loose dust from the grills and vents with a soft, dry brush. Wipe exterior surfaces with a dry cloth.

3

Access if needed. If the grills need removal for access, follow the dismantling procedure. Handle the fan by its frame.

4

Inspect. Check that screws, mounts, grills, TPU dampers, cable braid and connectors are secure and in good condition. The fan needs no lubrication.

5

Reassemble and test. Reassemble fully, confirm blade clearance and complete a brief operational test before returning the fan to use.

Leads and connectors

- Check the braided sleeve, heat-shrink and fork terminals are in good condition.
- Check the 4-pin locking connectors are clean and the locking clip engages firmly.
- Check that fork terminals are still tight on their terminal screws or studs.
- Replace a damaged lead with a DURST Cool 1M or 3M lead.

Who should service the fan

- Owners can carry out the cleaning, inspection and dismantling steps in this manual.
- For anything else, contact Durst.

HOW OFTEN: Inspect regularly, and more often in dusty conditions or after travel on rough roads. Keep ventilation openings clear and store spare equipment in a dry place.

Extreme environment maintenance

For dusty, rough-road and hot conditions. Follow this section in addition to General maintenance.

Dust

- After dusty travel, brush dust off the grills and the inlet and outlet openings.
- Check the 4-pin locking connectors for dust and grit before reconnecting.

Corrugations and vibration

- After rough-road travel, check that the mount, fixings and corner screws are tight and the TPU dampers are in place and undamaged.
- Check that the lead is still supported and is not rubbing on sharp edges.

Moisture

Keep in a dry place. Clean the fan, leads and CoolControl with a dry brush or cloth. If they get wet, disconnect power and let them dry fully before use.

Heat

- Keep the fan, leads and CoolControl away from exhausts, engine parts and other hot surfaces.
- In hot conditions, check that the CoolControl start temperature suits the equipment being cooled.

Set a schedule for your use

- Set a maintenance schedule that suits your conditions and use, and record each check in the installation record.

Troubleshooting

Problem	Checks and action
Fan does not start	Check the supply, polarity and locking connectors. Disconnect power before checking for blade obstruction. With CoolControl, check the probe position and whether the temperature is below the start temperature.
Fan starts and stops unexpectedly	Check for loose connections and supply interruptions. With CoolControl, compare operation with your settings (the fan stops 3°C below the start temperature). Contact Durst for help.
Weak airflow or poor cooling	Check for intake or outlet obstruction, dust build-up, airflow direction, compartment ventilation and CoolControl settings. Review equipment clearance and heat load.
Rubbing, vibration or rattling	Disconnect power. Check blade and grill clearance, trapped cable, loose screws, TPU dampers and mount alignment. Replace any worn parts with genuine Durst parts.
Fan does not respond to temperature	Check CoolControl settings and probe position. Check that the probe is secured and in good condition and that the fan is a 4-wire PWM fan.
Hot cable, damaged connector, smell or smoke	Disconnect and isolate the supply if safe to do so, then contact Durst.

For further help, contact Durst.

Support and warranty

Contact	Details
Company	Durst Industries (Aust.) Pty Ltd
Address	1/11 Packard Ave, Castle Hill NSW 2154, Australia
Phone	+61 2 9660 1755
Email	sales@durst.com.au
Website	durst.com.au
Support and warranty enquiries	durst.com.au/pages/contact

Before requesting support

Provide the fan and CoolControl model numbers, proof of purchase and a description of the fault. Include photographs of the installation and connections where helpful. State the supply voltage, accessories used, CoolControl settings and whether the fault occurs with direct power or with CoolControl.

Contact Durst before returning equipment so the correct return or service process can be arranged. Keep the original invoice and protect the equipment during transport.

Warranty information

DURST Cool fans and CoolControl carry a 12-month warranty from Durst. Contact Durst to confirm the coverage and claim procedure for your product. This warranty is in addition to your rights under Australian Consumer Law.

Installation record

Record	Details
Fan model	
CoolControl model if fitted	
Purchase date and invoice	
Installation date	
Supply arrangement	
CoolControl settings and probe position	
Manual	DURST Cool Equipment Cooling Manual, revised October 2026

Maintenance log

Date	Check or service done	Findings and action taken	Name