

PRODUCT CATALOG

2026



PREFACE & DISCLAIMER

WELCOME TO THE AURORA PRODUCT CATALOG

PREFACE

We at AURORA are an international manufacturer of state-of-the-art HVAC solutions and components for on-road and off-road vehicle series. We effectively accelerate technical progress with intelligent units for thermal comfort that are ecologically trendsetting.

At AURORA, we strive to be the most trusted provider of HVAC solutions. We actively pursue innovation and technology while respecting resources and the environment.

This catalog provides an overview of our latest standard product portfolio – from heaters and blowers to control panels and electromobility solutions – all designed to deliver maximum comfort, energy efficiency, and reliability in demanding environments.

PLEASE NOTE:

All information is subject to change and must be verified in each specific application. See Disclaimer for further details.

DISCLAIMER

The information, specifications, descriptions, pictures etc. (together hereinafter referred to as "specification" or "specifications") of our standard products presented in this catalogue in general have been developed and designed based on our know-how, our experiences and the best of our knowledge. The specifications have been compiled independently from any specific application by any third party or interested persons. All specifications at any time shall be subject to any kind of change, including, but not limited to redesign and/or replacements at our sole discretion without respective information to any user of this catalogue, any interested person, to the catalogue itself or notification on our website, brochures or publications of any kind. Unless otherwise expressly agreed upon in writing nothing in this catalogue shall be deemed granting a guarantee, a warranty or any assumption of responsibility or obligation to any purpose, eligibility, application of the standard product and/or its interfaces to other products or systems or similarities by us. Any selection of a specific standard product of this catalogue including, but not limited to specific intended purposes, pretended or intended eligibility and/or applications for own or third party's products whatsoever is only and without limitations in the sole discretion, responsibility and liability of the applicant, interested person and of any third party concerned. The specifications are under the strict reservation of all our Industrial and Intellectual Property Rights (IPR). We reserve all our rights. Any conflict shall be governed exclusively by the laws of the Federal Republic of Germany, without regard to any conflict of law provisions which may otherwise apply, at the exclusive venue at the District Court



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PIONEERING HVAC SOLUTIONS

WELCOME TO THE NEW COMFORT ZONE

Our HVAC solutions and components for on-road and off-road vehicles help to maximize operator comfort while minimizing energy consumption. Our pursuit to make the best solutions and components challenges us in development and production day after day. We are continuously seeking for pioneering individual series solutions. Worldwide.

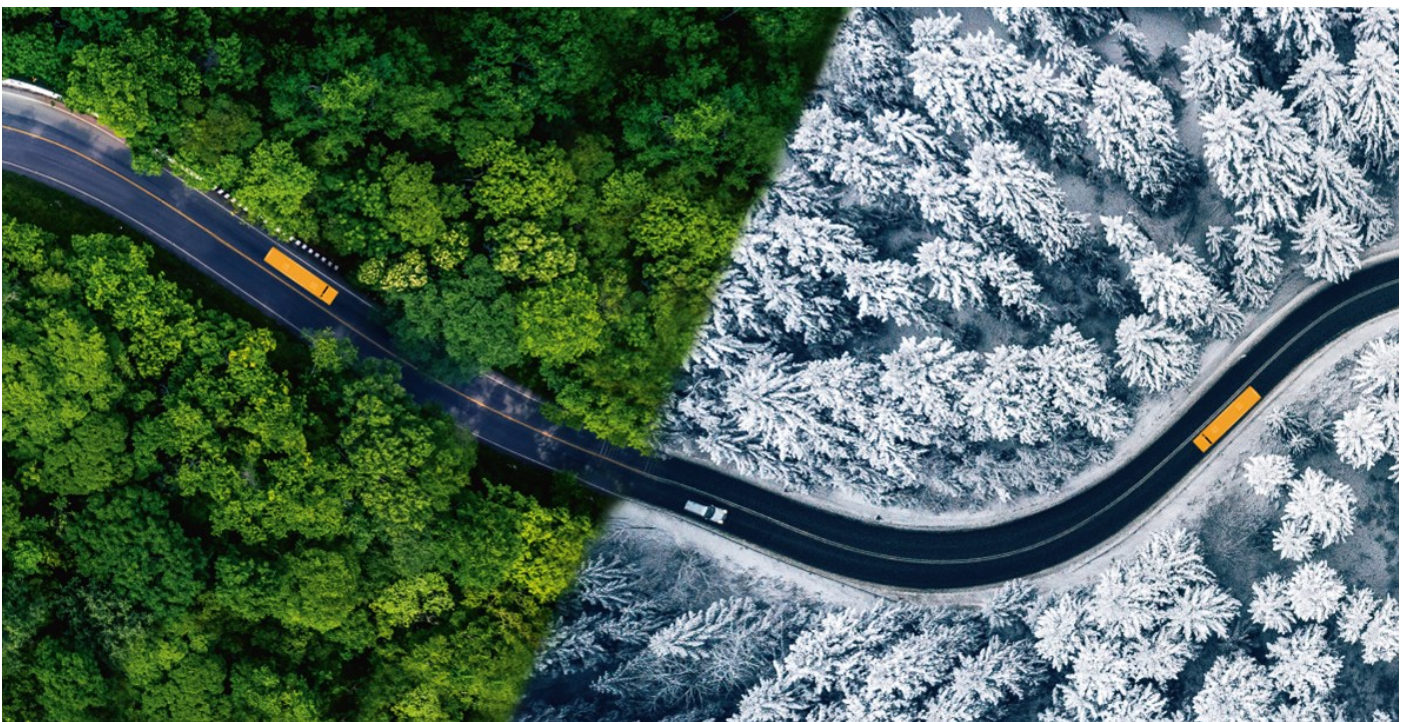
OUR CORE COMPETENCE

Your Specialist for heating, ventilation and air conditioning of light and heavy-duty vehicles:

- On and off-highway vehicles and machines produced in small to medium numbers
- Your premium partner for development and series

OUR SELF-CONCEPT

Your Specialist for maximum climate comfort and minimum energy consumption



OUR PRODUCTION COMPETENCE

SUSTAINABLE MAXIMUM PERFORMANCE

Our high specialization shows not only in our engineering capabilities but also in our production processes. Contrary to our competitors, at AURORA we both develop and produce the core components for our integrated solution. The high proportion of in-house production paired with a high-performance purchase department helps us develop custom-made integrated solutions and in deliver them as required.

As a leading supplier, we are continuously investing in new technologies and production methods, thus saving resources, and meeting our customers' increasing quality standards. Sustainability and environmental protection have always been an inherent parts of our production processes, as well as our certified, effective quality management.

The name AURORA is considered synonymous with quality. All production possibilities and processes are certified and tested for each location. At whatever location our products are made, our processes ensure that you always receive the quality that you expect.



TRAILBLAZING DEVELOPMENTS

INNOVATION LEAPS

Trailblazing innovations have always been a part of AURORA's company culture – from developing the first heater for buses, ever. Learn how today we accelerate HVAC progress for special vehicles as well as on-road and off-road mobile machinery: from "Thermal Comfort" to innovative cluster projects.

In collaboration together with our customers, we design, develop and manufacture heating, ventilation, and air-conditioning solutions and components. Drawing upon our near century of expertise, we understand the unique expectations that exist within each industry and each application. Our solutions continue to accomodate almost every cabin configuration—and performance demand.

Aligning a dedicated team of thermal management specialists supported by our professional simulation and test facilities enables AURORA to design thermal management solutions to meet specific customer expectations and then optimize their integration into various vehicle classifications. Our vertically integrated production with enormous capacity enables us to design custom-fit integrated solutions specially for every cabin — all this delivered through setting in motion a demand-driven supply-chain.

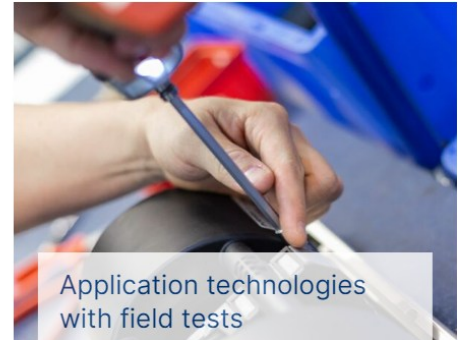


TRAILBLAZING DEVELOPMENTS

INNOVATION LEAPS

OUTPERFORMANCE IN DEVELOPMENT

Concept, Creation, Completion – Three Tiers of our Product Development



COMPONENT DEVELOPMENT WITH TESTING

We develop and manufacture the core components for heating and air conditioning in-house. This is the only way to ensure that our components meet the special requirements of our heavy-duty customers.

SYSTEM DEVELOPMENT WITH TESTING SIMULATION AND SOFTWARE

The cure for thermal comfort is revealed by organizing the interplay between components in the system in such a way that optimal outcomes in driving mode are reached. To accomplish this, we have invested in the calculation tools for components and simulation tools, which test this interplay across various weather conditions over an entire year. Thermodynamics, fluid mechanics, strength, and acoustics are investigated with models, that simulate the whole vehicle as well throughout a yearly cycle.

APPLICATION TECHNOLOGIES WITH FIELD TESTS

Our application technologies, including test chambers, in all of our locations achieve the target of pinpointing specific vehicle packaging, and meeting the desired functionality. Here, we work in close collaboration with our customers as strategic development partners.

Foundational for all this is our product development process (PDP), which draws upon our many years of experience, including best practices, benchmarks, and lessons-learned to achieve exactly what customers expect.

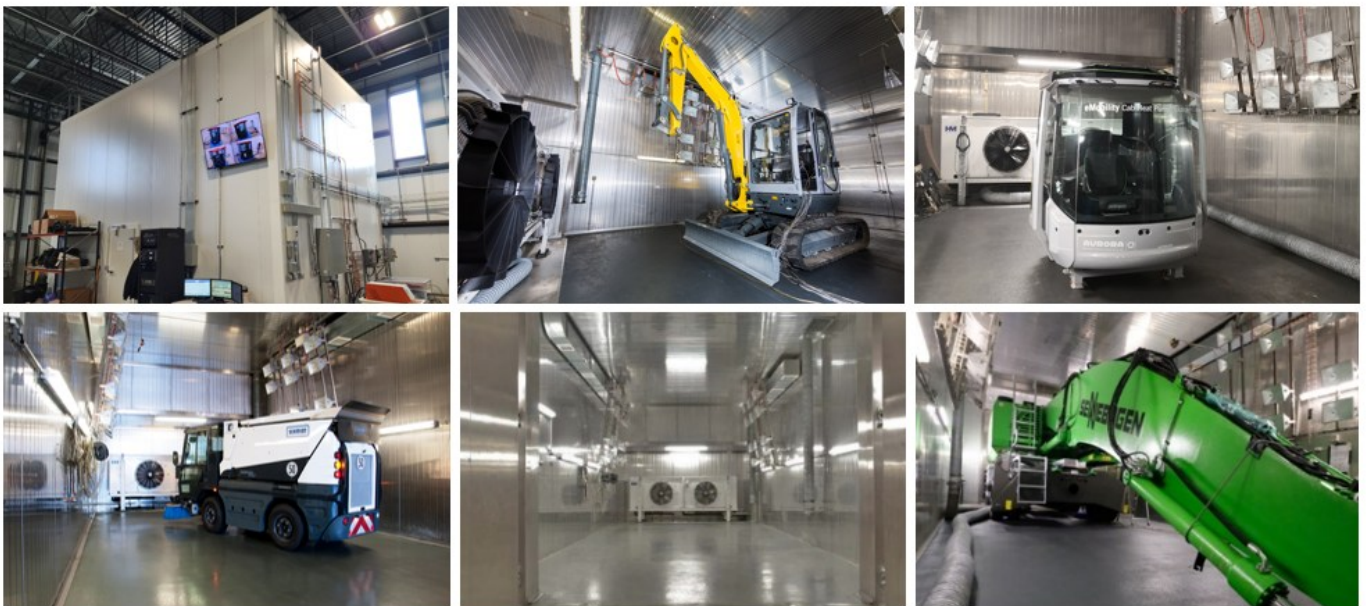
TRAILBLAZING DEVELOPMENTS

OUR TEST FACILITIES

An experienced team of HVAC specialists as well as our state-of-the-art simulation and test facilities enable AURORA to optimize the development of HVAC units and their integration into different vehicle types based on customer-specific requirements.

Our HVAC systems are tested to the limit before the start of production. For this purpose, AURORA Germany and AURORA North America operate state-of-the-art climate halls where comprehensive vehicle and component tests are conducted under extreme conditions.

IMPRESSIONS OF OUR TEST FACILITIES:



TRAILBLAZING DEVELOPMENTS

SPECIFICATIONS OF OUR CLIMATE HALLS

Technical Data	Climate Hall AURORA DE-Mudau	Climate Hall AURORA North America Walker, Michigan
Cooling	Up to -10°C / 14°F (standard measurement) Up to -46°C / -50.8°F (special measurement)	Up to -30°C / -22°F (standard measurement)
Heating	Up to 50°C / 122°F	Up to 50°C / 122°F
Moisturization	Up to 95% relative humidity (depending on the set temperature)	Up to 95% relative humidity (depending on the set temperature)
Solar simulation	IR emitter Performance <1500W/m²	<1200 W/m²
The climate halls are suitable for all kinds of vehicles and cabs.		
	Climate Hall AURORA DE-Mudau	Climate Hall AURORA North America Walker, Michigan
Length of vehicle	< 15.0 m	< 9.0 m
Height of vehicle	< 4.0 m	< 6.0 m
Width of vehicle	< 3.5 m	< 6.0 m
Technical measurement equipment	Technical equipment for measuring the cooling and heating capacity of HVAC units with solar simulation.	Technical equipment for measuring the cooling and heating capacity of HVAC units with solar simulation.

TRAILBLAZING INNOVATION

THERMAL COMFORT

Trailblazing innovations have always been a part of AURORA's company culture – from developing the first heater for buses, ever to designing the latest HVACs for electric vehicles, and developing cutting edge validation techniques. Learn how today we accelerate HVAC progress for special vehicles as well as on-road and off-road mobile machinery, from "Thermal Comfort" to innovative cluster projects.

MAXIMUM FEEL-GOOD CLIMATE CAN BE USED

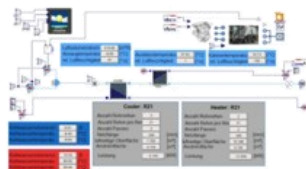
Our innovative "Thermal Comfort" method is trailblazing for the future development of custom-fit HVAC solutions. Instead of cost-intensive special designs, we rely on our state-of-the-art simulation method to exactly calculate the feel-good climate in the operator's cab, thanks to a special measuring manikin with hundreds of sensors.

Based on the acquired data, we develop HVAC solutions that are perfect for the individual application. Then, the corresponding requirements are matched standard components, resulting in perfectly efficient solutions with the best price-performance ratio.

INDIVIDUAL DEVELOPMENT STAGES:



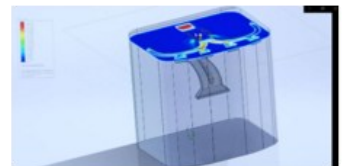
Modularity



1D-Simulation



Design



3D-Simulation



Prototyping



Industrialization/PDP



Software Customization



Cab Validation



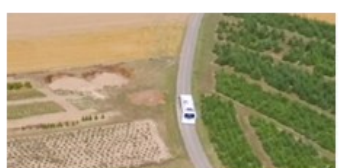
Acoustics



Vehicle Validation



Thermal Comfort Analysis



Field Validation



TRAILBLAZING HVAC SOLUTIONS

FOR ON-ROAD AND OFF-ROAD VEHICLES

As a well-established development and engineering company, we deliver customized HVAC solutions for well-known customers from a broad range of industrial sectors. We always embrace new challenges, whatever the industrial sector. Please contact us at any time.



OUR MARKETS



GLOBALIZED ACTIVE

MUCH VALUED ALL OVER THE WORLD

With approx. 500 members in 5 national locations, we serve our customers from all over the world from different branches of commercial and offroad mobile machinery. Each location contributes their expertise to the group, thus always ensuring the customer's best benefits. AURORA is well-known for innovative developments and an extraordinarily broad range of products.

Our worldwide presence is one of our strengths because it ensures that the various standards, regulations, wishes, and needs of our customers are met, in every country and on every continent.

The different locations are continuously being modernized and expanded to assist our customers at their best. The name AURORA is synonymous with quality. At whatever location our products are made: our processes ensure that you always receive the quality that you expect.



WE LOOK FORWARD TO SERVING YOU



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SUSTAINABLY AHEAD

SUSTAINABILITY - A LASTING CHALLENGE

For AURORA, sustainability means taking on responsibility in all three dimensions of sustainability: economic, ecological, and social. AURORA is, of course, a part of society. We are fully aware of our responsibility towards our fellow human beings, our employees, and our environment. For this reason, sustainability is deeply entrenched in AURORA's DNA and firmly rooted in its corporate strategy and policy.

- We make lasting, risk-minimizing decisions. Our long company history is both incentive and commitment to lead our company to a prosperous future.
- Being innovation-driven, we develop trailblazing, environmentally friendly solutions for cab, full-vehicle, and bus and coach applications for example, the development of our highly efficient heat pump BOREALIS for electric buses leads to a decrease in the annual energy consumption for heating and climatization of up to 50%.
- We pursue a strategy that goes far beyond eco-friendly product solutions. Our environmental and energy policies have proven successful over and over again.
- We are keenly aware of our social responsibilities. Therefore, we have strict compliance regulations that are effectively implemented.

Our Environmental and Energy Policies

- Comprehensive environmental protection is a key factor in our company philosophy. We analyze our company's impacts on and consequences for our environment and keep identifying potential for improvement. This is done by an on-going review of what we do and how we do it.
- All employees are adequately trained to increase their environmental awareness. We aim to protect our environment during every individual production step. Our environmental management system is certified according to ISO 14001. This does not only apply to AURORA Germany, but also for our three AURORA locations in North America, Turkey, and the Netherlands.



SUSTAINABLY SUCCESS

SELECTION OF SUCCESS STORIES

Energy Management



10.000

liters of heating oil

By installing decentralized tankless water heaters and laying new insulated hot water pipes we can **save 10,000 liters of heating oil per year.**



7.000

liters of wastewater

After introducing differential pressure measuring devices and the conversion of the leak test to a dry testing method using helium, we do no longer carry out water bath leak tests, thus **saving approx. 7,000 liters of wastewater per month.**



1.400

watt

By installing innovative LED lamps at the workstations, we can **save more than 1.400 watts per day.**



212

tons of CO₂

By modernizing our vehicle fleet to purely electric vehicles and hybrid vehicles we could **reduce CO₂ emissions by 212 tons** (reference period: 2023 compared to 2019). New company cars will generally be purely electric vehicles.



Environmental Management



80

pallets and cardboard pallet boxes

By partly changing to returnable containers our dispatch departments can **save more than 80 pallets and cardboard pallet boxes.**



2.500

disposable coffee cups

The company coffee dispensers can only be used with normal cups since 2019, leading to a reduction of **more than 2,500 disposable cups month by month.**



50.000

sheets of print-out paper

We are currently working on adjusting our workflow processes to be (almost) completely paperless. In the current state we **save 50,000 sheets of print-out paper per quarter.**



850

beverage crates

After introducing water dispensers, we **save more than 850 beverage crates with plastic bottles per year.**

ROOFTOP-MOUNTABLE

COMPACT VERSATILITY FOR HIGHLY-EFFICIENT
ALL-ELECTRIC PERFORMANCE



AURORA



/ Pioneering Your Comfort

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ROOFTOP MOUNTABLE UNITS

BORA EL 10

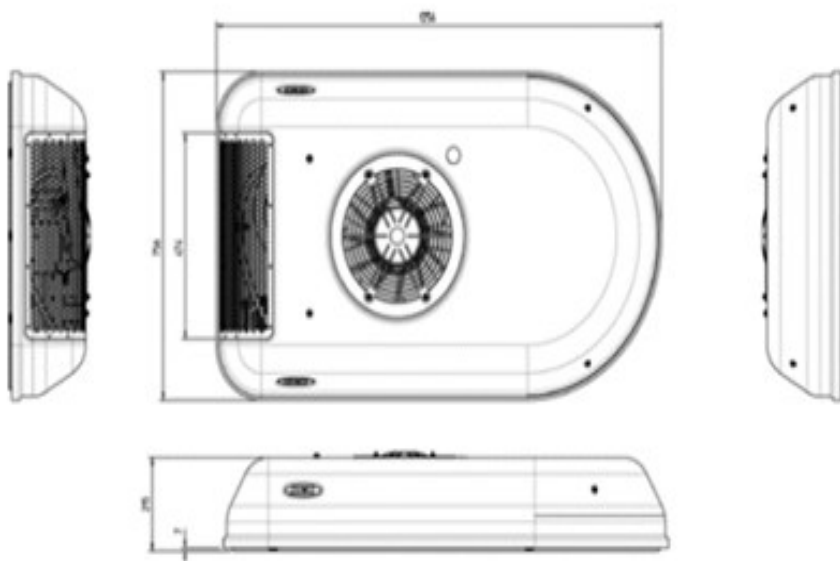
Uniquely designed to deliver air-conditioning to a driver in constant capacity, full-electric functionality, and after an easy installation, this unit is compatible with the AURORA control system and comes prefilled with refrigerant, requiring no refrigerant pipes leading to the vehicle's engine — completely standalone when the topic is refrigerant. Most ideal for implementation in roof-mounted applications.

Performance	
Maximum Cooling Capacity	3 kW
Airflow AC	800 m ³ / h
Fresh air AC	0%
Nominal Voltage	24 V
Maximum Current Draw	40 A
Dimensions	1256 × 756 × 215
Weight	42 kg
Refrigerant	R134a / R1234yf



ROOFTOP MOUNTABLE UNITS

BORA EL 10



ROOFTOP MOUNTABLE UNITS

SON 50

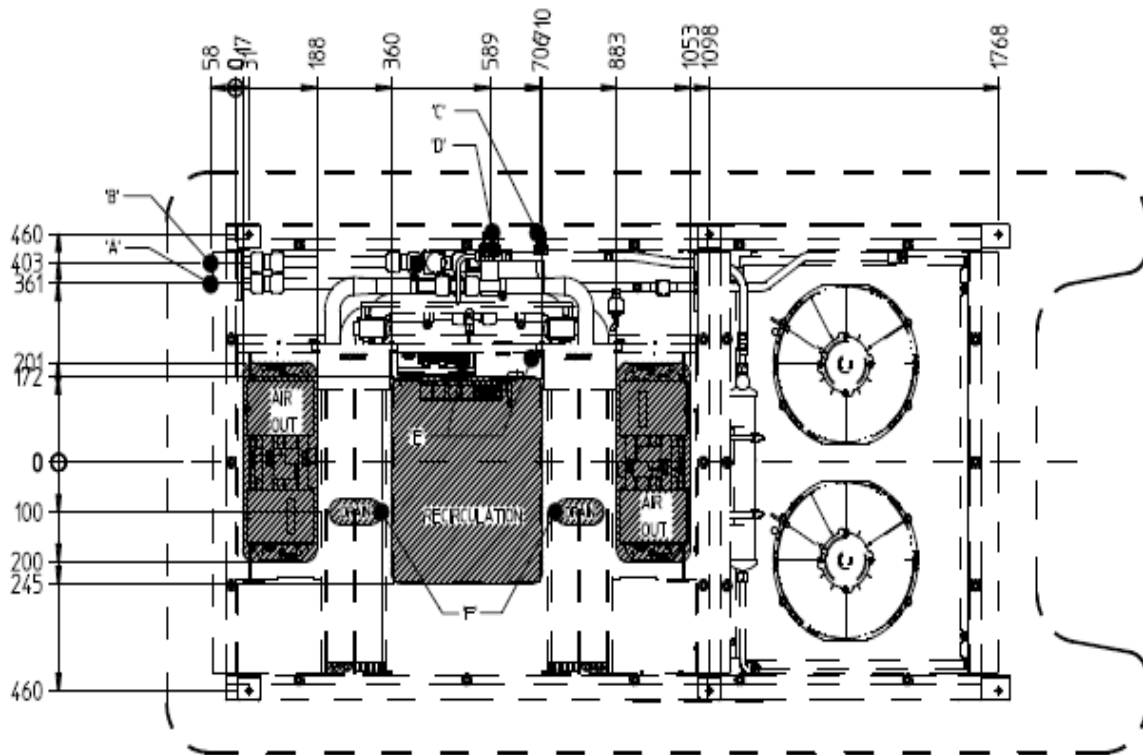
Featuring an aerodynamically shaped body to enhance overall vehicle travel efficiencies, this particular device can unleash power and performance unlike most any roof-mounted units before, especially at this level. SON features the duality of both heating, and cooling packed into one slim, high-performance unit. Loaded with awesome features: brushless evaporator blowers, a central duct, controller integrated in unit or dashboard — all lightweight and ready for plug & play function. Best mounted on cabin sizes like a mid-sized bus.

Performance	
Maximum Cooling Capacity	14 kW
Heating Capacity	30 kW
Airflow AC	2000 m ³ / h
Fresh air AC	0% — 100%
Nominal Voltage	24 V
Maximum Current Draw	39 A
Dimensions	2270 × 1175 × 190
Weight	63 kg
Options	Cool-Only; Cool / Heat; Cool-Only with Fresh-Air; Cool / Heat with Fresh-Air
Refrigerant	R134a / R1234yf



ROOFTOP MOUNTABLE UNITS

SON 50



ROOFTOP MOUNTABLE UNITS

SON 70

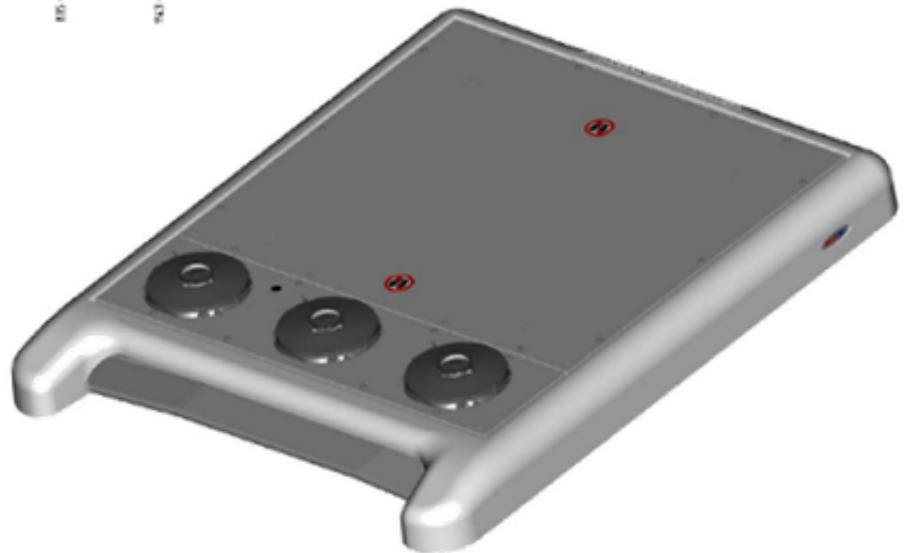
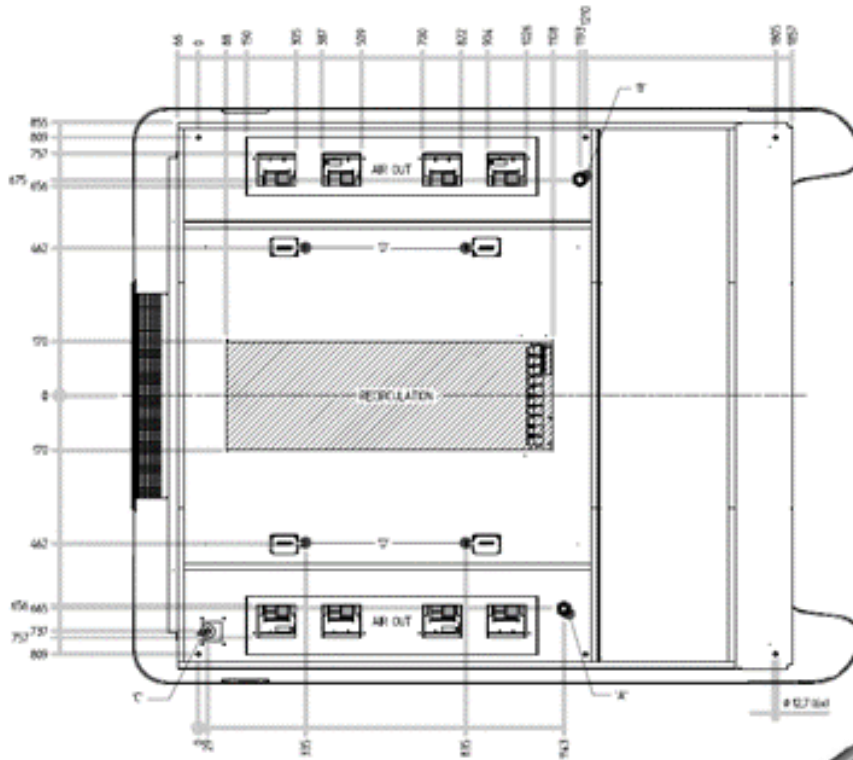
AURORA's Electric, Compact Rooftop Units are versatile and ready to serve at the forefront of the next generation of HVAC. SON is engineered with mid-size busses in mind and comes complete with brushless evaporator blowers, a central duct, integrated controller either in-unit or on-dashboard, efficient heating performance, is both lightweight + plug-and-play.

Performance	
Maximum Cooling Capacity	24 kW
Heating Capacity	34 kW
Airflow AC	4800 m ³ / h
Fresh Air AC	0% — 100%
Nominal Voltage	24 V
Maximum Current Draw	70 A
Dimensions	2270 × 1800 × 290
Weight	113 kg
Refrigerant	R134a / R1234yf



ROOFTOP MOUNTABLE UNITS

SON 70



STANDARD HEATERS

**LOW-NOISE, FIELD-PROVEN DURABILITY,
EASY SERVICABILITY**



AURORA

/ Pioneering Your Comfort



STANDARD HEATERS

UNDERFLOOR HEATER EHU-K-11500

AURORA’s UNDERFLOOR HEATER EHU-K can be utilized as a built-in model for the heating and ventilation of buses. Operational with either external or recirculating air, *EHU*’s recirculated air option is especially advantageous for dehumidifying the inside air during cooling. *EHU-K* also uses aluminum flat-tube heat exchanger technology to boost performance and reduce weight.

Specifications	
Housing: plastic PA6 Blower: Twin Radial Blower DRG 730 Powerful electric motor with long life cycle	
Technical Information	
912-100-1089	
Variations	
Part Number	Description
151-562-0241	11500 24 V 3-Speed
Performance	
Heat Power	13 kW
Vol. Air Flow	884 m³/h
Weight	5.5 kg (11.25 lbs.)



STANDARD HEATERS

UNDERFLOOR HEATER EHU-K-11500

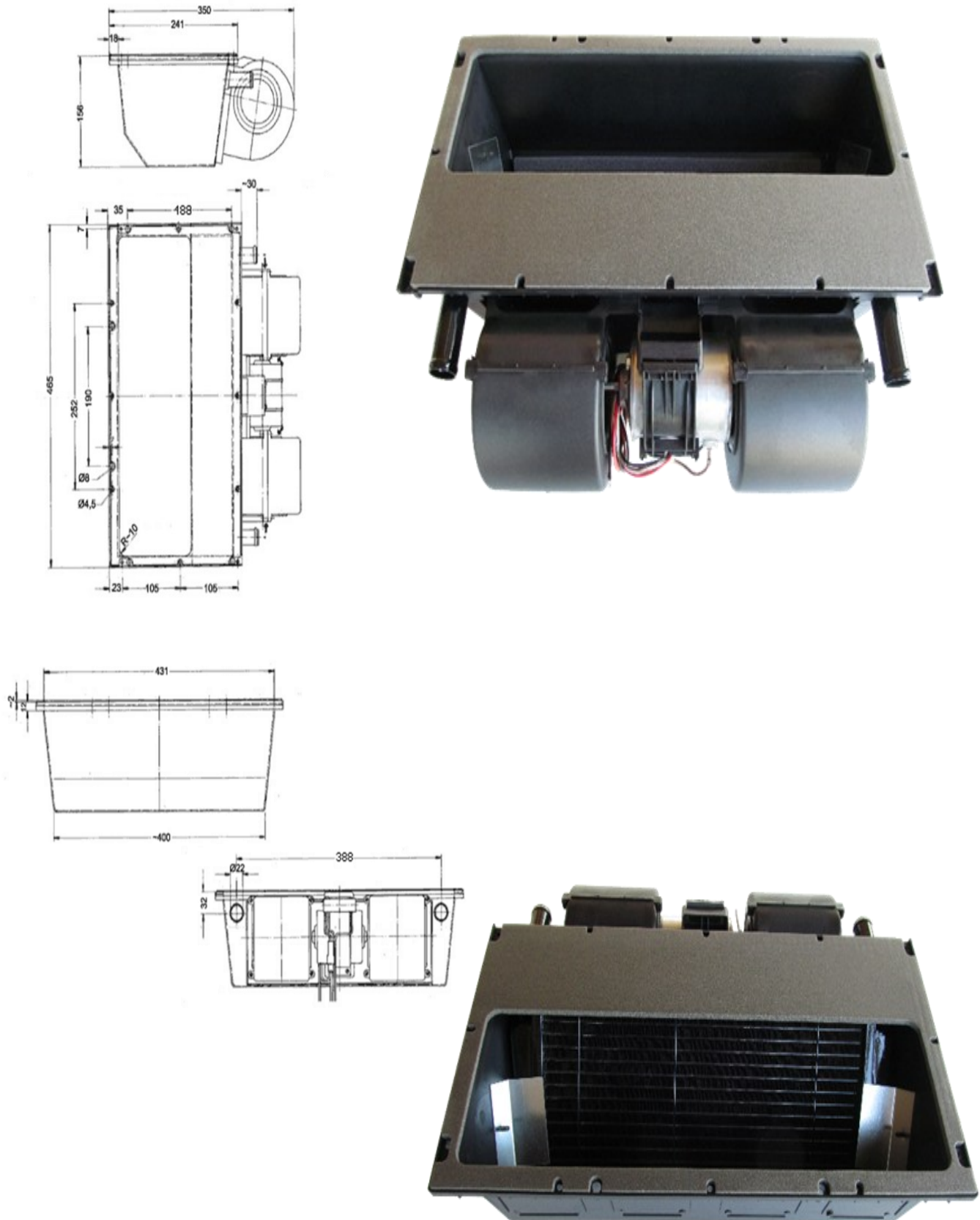


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STANDARD HEATERS

MINI H 410

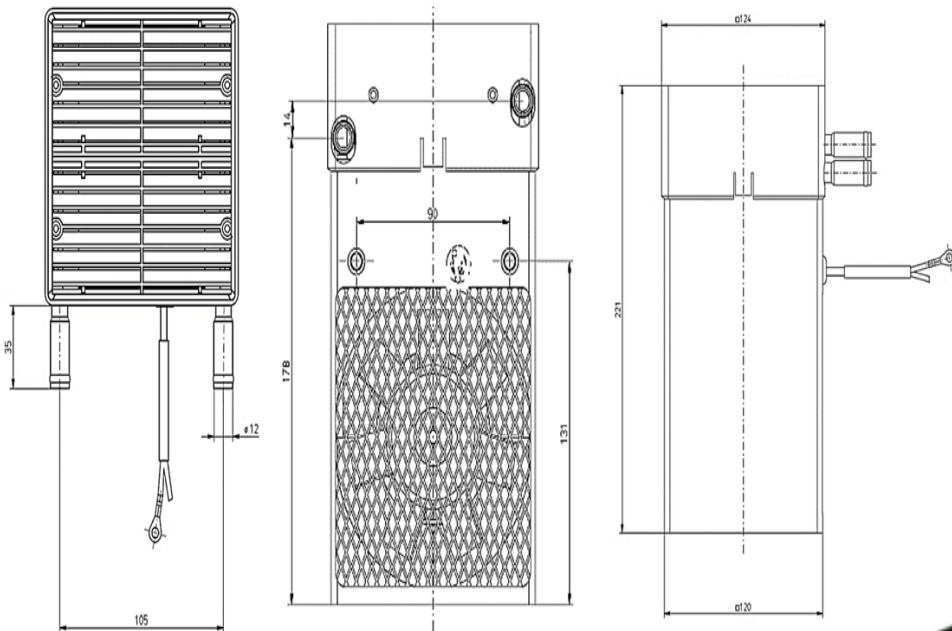
The AURORA *Mini* heater is perfectly designed to outfit cabins of nearly all applications. The 221 mm by 124 mm *Mini* is ideal for providing efficient heat to passengers and operators in areas where installation space is scarce. The *Mini* is also suited for a number of heating functions. Regardless whether installed under the seat, mounted to a side wall, driver's space, door entries, sleeping cabins, on-board kitchens, or simply used as a defroster, *Mini* is the Unit for the job at hand.

Specifications	
Air Flow: 114 m³/h Heating Power: 2 kW Power Consumption: Pel = 29 W Noise Emission: 64 dB(A)	
Technical Information	
912-100-0958	
Variations	
Part Number	Description
151-301-0200	Mini H410 12 V
151-302-0200	Mini H410 24 V
151-302-0242	Mini H410 24 V



STANDARD HEATERS

MINI H 410



STANDARD HEATERS

TEDDY 2000

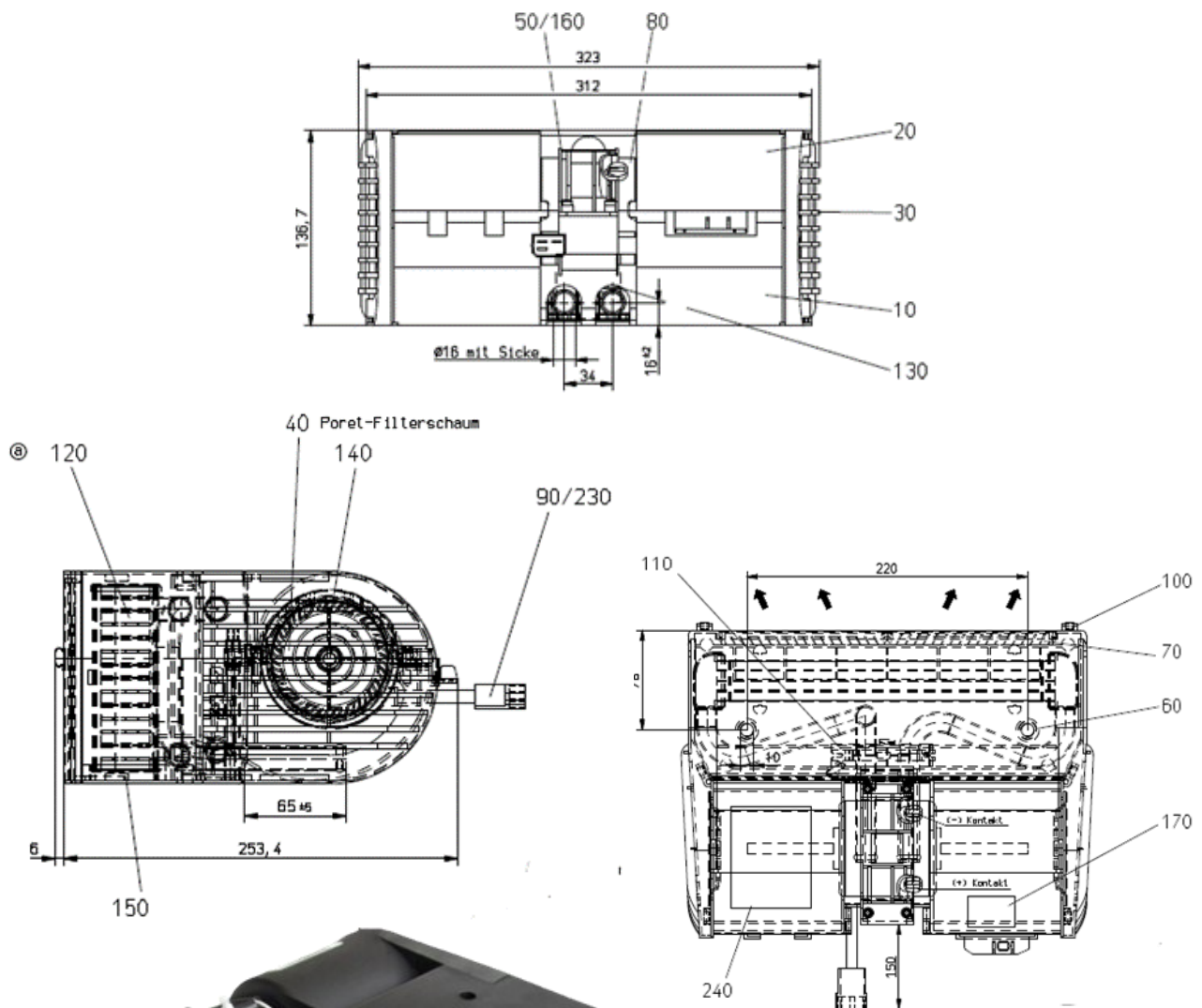
The heater Teddy can be delivered in several different versions to meet various requirements. While functionally, the units have less variance. The differences lie in the individual components and connections. The built-in model has no air outlet grille and no air intake grilles on the side. This recirculating model has an air outlet grille and a side section with integrated air intake grille. The air direction can be changed by adjusting the air outlet grille by 90°. These are specifically designed for the under the seat mounting in buses, coaches, or cabins.

Specifications	
Housing: PA-6 35% glass fibre reinforcement Blower: DC with two radial wheel, resistor,MTS Aluminum Flat-Tube Heat Exchanger: max pressure 2-bar	
Technical Information	
912-100-0968	
Variations	
Part Number	Description
151-551-0222	Defroster 12V 2-speed
151-552-0222	Defroster 24V 2-speed
151-551-0242	12V 3-speed
151-552-0224	24V 2-speed
151-552-0251	24V 2-speed
Performance	
Heat Power	7 kW
Vol. Air Flow	332 m³/h
Weight	2.9 kg (6.4 lbs.)



STANDARD HEATERS

TEDDY 2000



STANDARD HEATERS

TEDDY ALL ELECTRIC

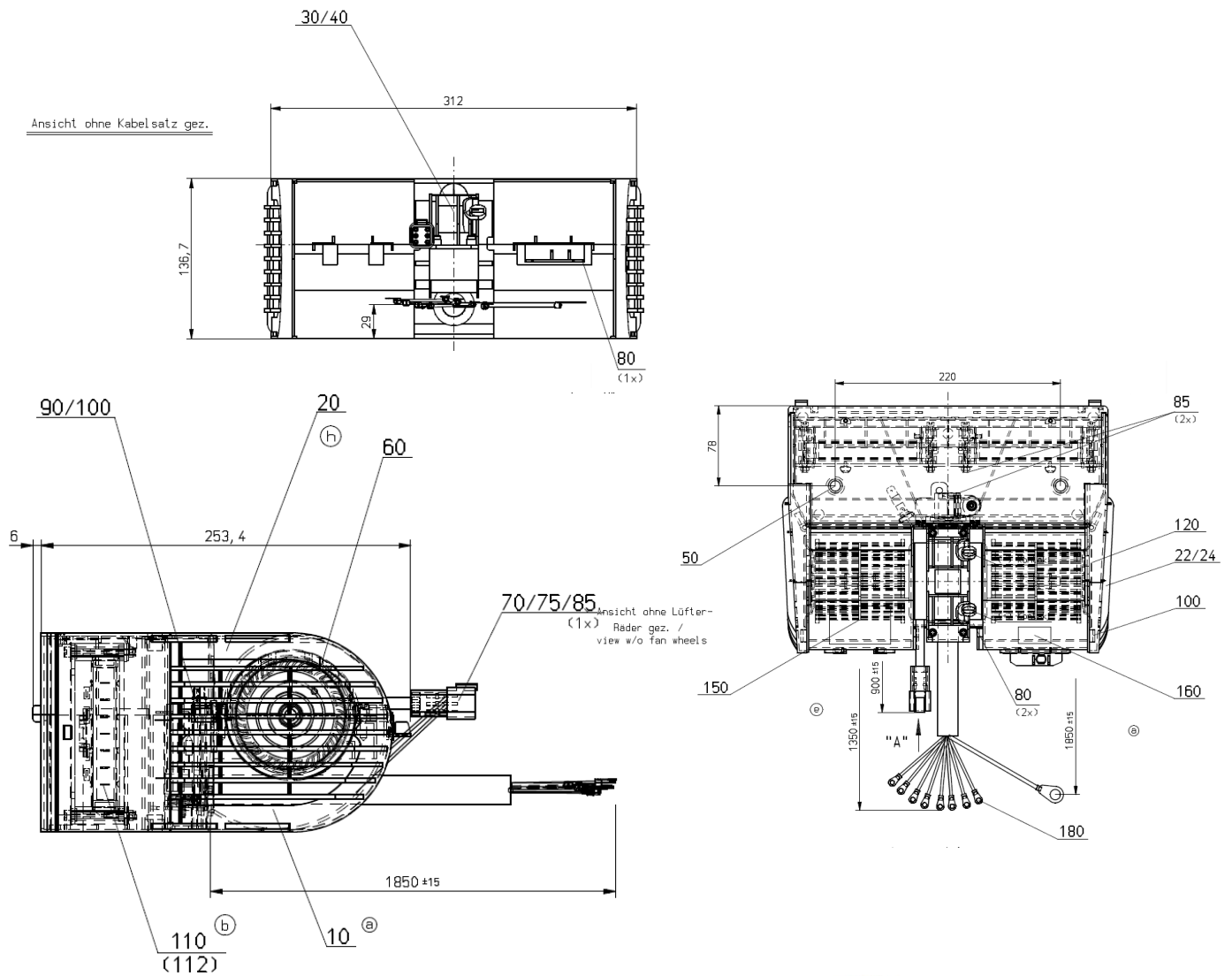
AURORA's Teddy features PTC technology making this an all-electric heater, which is an ideal and powerful solution for cabins. Its universal nature allows the Teddy the versatility necessary for various applications and installation options as either a main or supplementary unit. The unit comes in 12 and 24-volt options, as well as different packages suitable to for installations in any of the following locations: under seats, instrument dashboard, side wall, operator / driver space, door entries, sleeping cabins, on-board kitchens, or as a defroster unit.

Specifications	
Housing: PA-6 35% glass fibre reinforcement Blower: DC with two radial wheel, resistor,MTS two PTC heating element with different nominal voltage (DC) available	
Technical Information	
912-100-1136	
Variations	
Part Number	Description
153-552-0004	24V 3-speed, 24V PTC voltage
153-551-0006	12V 3-speed, 48V PTC voltage
153-552-0003	24V 3-speed, 80V PTC voltage
153-551-0008	12V 3-speed, 80V PTC voltage
Performance	
Heat Power	max. 2 kW (without air inlet filters)
Vol. Air Flow	300 m ³ /h
Weight	4.0 kg (8.8 lbs.)



STANDARD HEATERS

TEDDY ALL ELECTRIC



STANDARD HEATERS

KKH HEATER TRADITIONAL

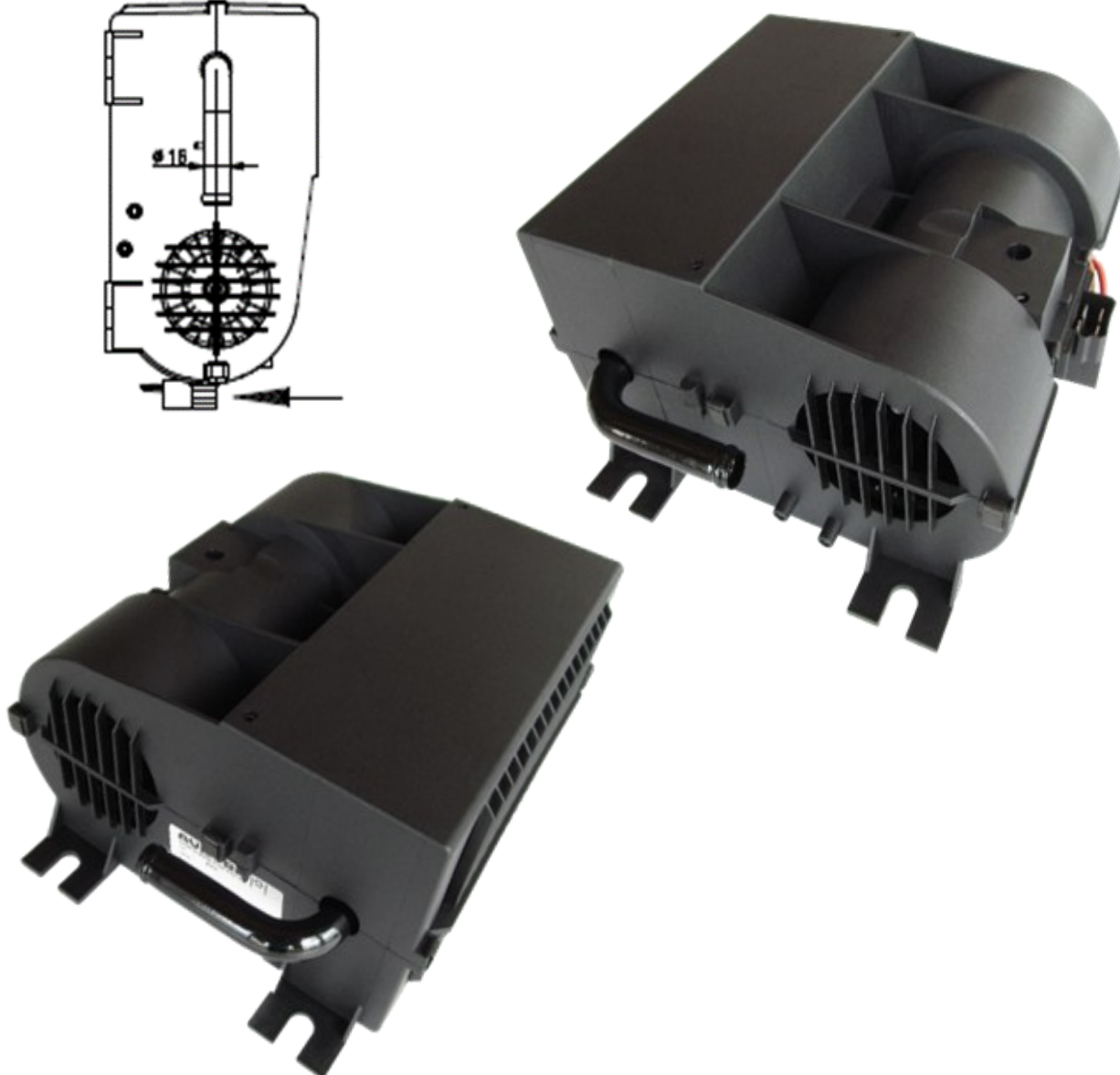
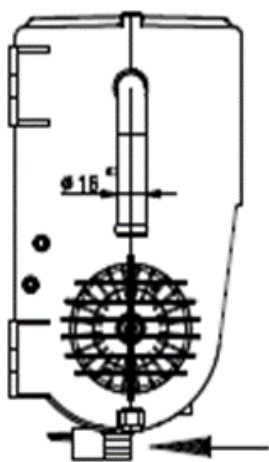
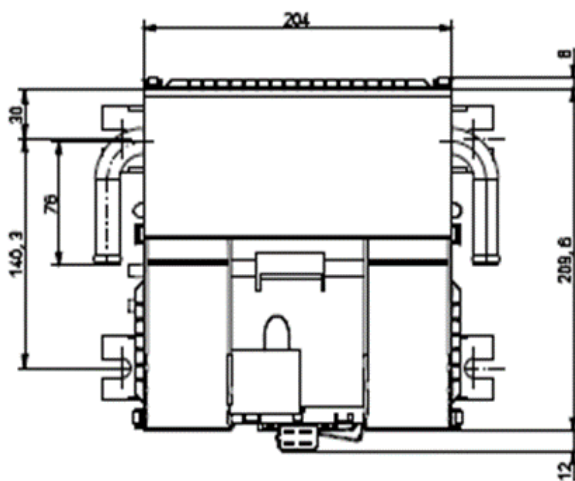
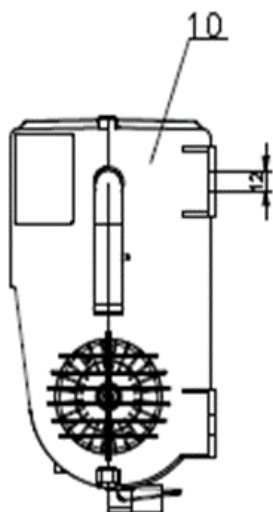
AURORA's KKH Heater is an ideal and powerful solution for small cabins. Its universal nature allows the KKH to maintain a 3.6 kW output in various applications and installation options as either a main or supplementary unit. The unit comes in 12 and 24 volt options, as well as different louver and grill packages suitable to for installations in any of the following locations: under seats, instrument dashboard, side wall, operator / driver space, door entries, sleeping cabins, on-board kitchens, or as a defroster unit. Connections on both sides come standard at 15 mm in diameter.

Specifications			
Housing: Glass-fiber reinforced polyamide PA6, black Aluminum Flat-tube heat exchanger system Powerful electric long-life motor. Blower speeds defined by series resistors with ceramic heat sink and micro-temperature fuses.			
Technical Information			
912-100-0973			
Variations			
Part Number	Description		
151-801-0203	12 V 3-Speed w/ output grill		
151-802-0203	24 V 3-Speed w/ output grill		
151-801-0237	12 V 3-Speed		
151-801-0240	12 V 3-Speed		
Performance			
Blower Speed	1	2	3
Heat Power	2 kW	3 kW	4 kW
Vol. Air Flow	62 m³/h	103 m³/h	163 m³/h
Power Consumption	16 W	26 W	45 W
Weight	1.55 kg (3.4 lbs.)		



STANDARD HEATERS

KKH HEATER TRADITIONAL



STANDARD HEATERS

KKH HEATER ALL ELECTRIC

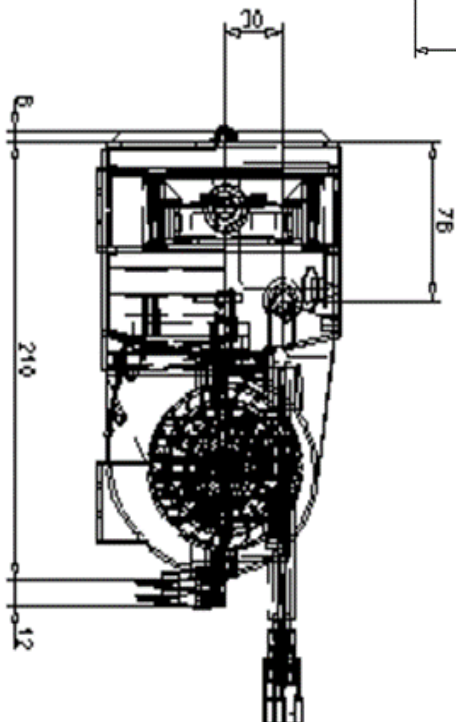
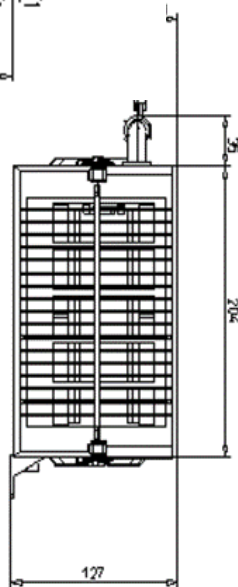
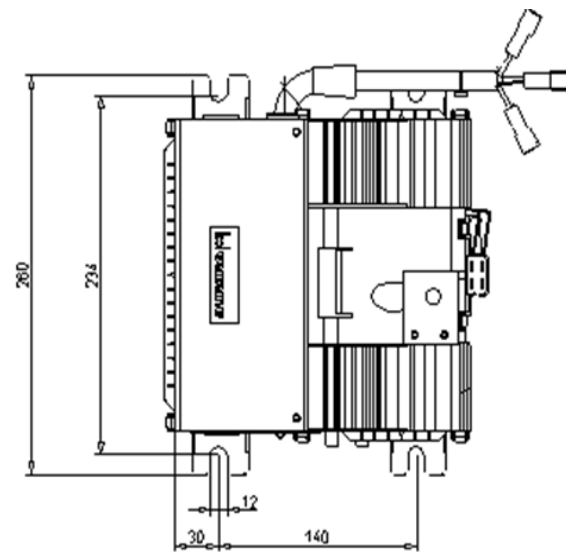
AURORA's KKH Heater features PTC technology making this an all-electric heater, which is an ideal and powerful solution for small cabins. Its universal nature allows the KKH the versatility necessary for various applications and installation options as either a main or supplementary unit. The unit comes in 12 and 24-volt options, as well as different louver and grill packages suitable to for installations in any of the following locations: under seats, instrument dashboard, side wall, operator / driver space, door entries, sleeping cabins, on-board kitchens, or as a defroster unit.

Specifications	
Housing: Glass-fiber reinforced polyamide PA6, black PTC heater unit with protection (Bimetall switch), different voltages available Powerful electric long-life motor. Blower speed defined by series resistors with ceramic heat sink and micro-temperature fuses.	
Technical Information	
912-100-0304/0374/1135	
Variations	
Part Number	Description
153-801-0001	12 V Blower; 80 V PTC; 1100 W
153-802-0001	24 V Blower; 80 V PTC; 1100 W
153-802-0003	24 V Blower; 24 V PTC; 870 W
Performance	
Heat Power	Approx. 1 kW (depend on variant)
Vol. Air Flow	150 m ³ /h
Weight	2.0 kg (4.4 lbs.)



STANDARD HEATERS

KKH HEATER ALL ELECTRIC





CONVECTORS

**WIDE-DISTRIBUTION OF HEAT,
SPECIALIZED FOR BUS APPLICATIONS**



AURORA 
/ Pioneering Your Comfort

CONVECTORS

APPLICATION-SPECIFIC DESIGN

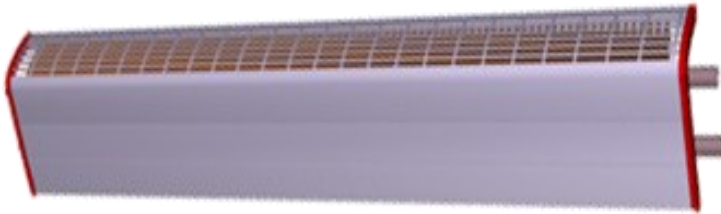
AURORA convectors are specifically designed for buses and coaches. Lengths ranging from 1.0 m up to 6.0 m, left- or right-hand connections, optional axial fans (3–5 units), and combinations with the Puma heater allow precise adaptation to each vehicle concept. Various length combinations can be customized depending on the application and customer requirements. The convector types shown in this catalogue represent typical reference designs and serve as a technical basis for project-specific system configuration.

Technical Information			
Performance	AF 60	AF70	Puma
Dimensions (height x width)	160 mm x 73 mm	170 mm x 100 mm	170 mm x 100 mm
Heating Capacity	1kW / m at Q ₈₀	1,15kW / m at Q ₈₀	4,5kW / m at Q ₈₀ (with 5 blower)
Blower	None	None	73 m³ / blower
Molding	Aluminum EN AW 6063	Aluminum EN AW 6063	Aluminum EN AW 6063
Weight	2.5 kg / m	3.5 kg / m	Depending on the application
Connectors	16 + 18 mm	22 mm	22 mm



CONVECTORS

APPLICATION-SPECIFIC DESIGN



AF60



AF70



Puma



AURORA[®]

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CONTROL UNITS

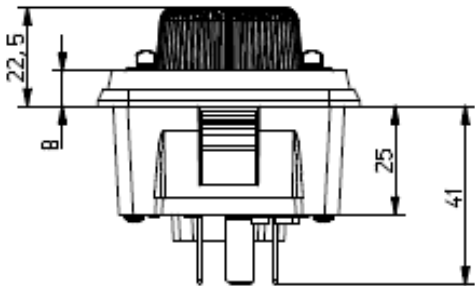
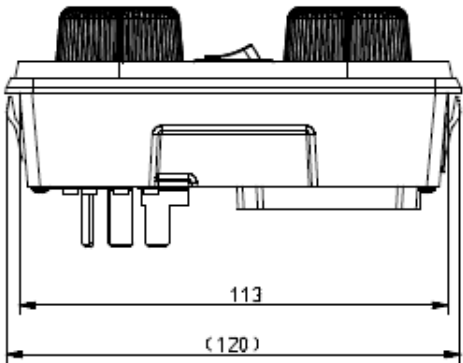
**INTELLIGENT-RESPONSIVENESS,
DYNAMIC, USER-FRIENDLY**

CONTROL PANELS

NEO2B

AURORA's NEO2B Control Panel is designed for the rough and tough operator. For this, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The NEO2B has two knobs and up to two rocker switches, all electronically manipulated. It is designed for a 3-speed blower and optional rocker switches for AC and recirculation.

Functions	Specification
3-Step rotary switch for blower speed (25A)	Operation voltage 9 to 30 V
Potentiometer for water valve position	Operation temperature -40°C to +85°C
3-Pol. actuator for water valve	IP40 (front side)
Rocker switch for AC (optional)	1 × 15 pol. AMP connector
Rocker switch for recirculation flap (optional)	ECE R10 certificated
Illuminated symbols	
Illuminated knobs	
Function and status LEDs	
Technical Information	
912-100-1240	

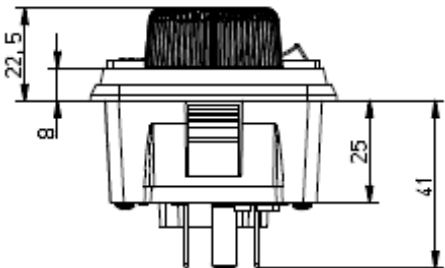
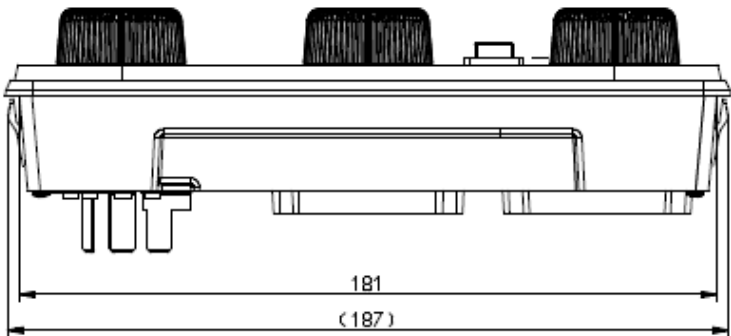


CONTROL PANELS

NEO3B

AURORA's NEO3B Control Panel is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The NEO3B has three knobs and up to two rocker switches, all electronically manipulated. It is designed for a 3-speed blower, proportionally positioned air distribution flap and optional rocker switches for AC and recirculation.

Functions	Specification
3-Step rotary switch for blower speed (25A)	Operation voltage 9 to 30 V
Potentiometer for water valve position	Operation temperature -40°C to +85°C
3-Pol. actuator for water valve	IP40 (front side)
Potentiometer for air distribution flap position	2 x 15 pol. AMP connector
3-Pol. actuator for air distribution flap	ECE R10 certificated
Rocker switch for AC (optional)	
Rocker switch for recirculation flap (optional)	
Illuminated symbols	
Illuminated knobs	
Function and status LEDs	
Technical Information	
912-100-1240	

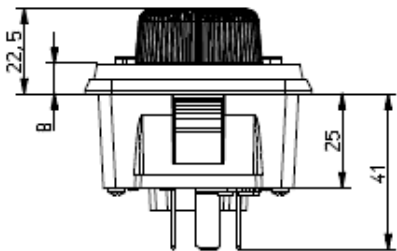
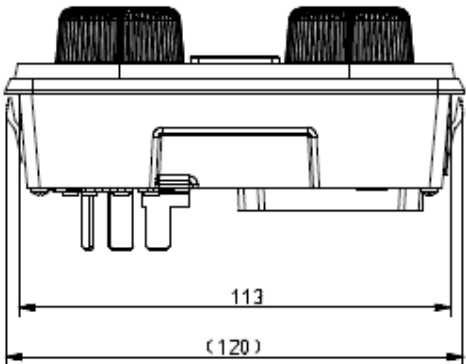


CONTROL PANELS

NEO2

AURORA's NEO2 Control Panel is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The NEO2 has two knobs and up to two push buttons, all electronically manipulated. It is designed for a 3-speed blower and optional push buttons for AC and recirculation.

Functions	Specification
3-Step rotary switch for blower speed (25A)	Operation voltage 9 to 30 V
Potentiometer for water valve position	Operation temperature -40°C to +85°C
5-Pol. actuator for water valve	IP54 (front side)
Push button for AC (optional)	1 × 15 pol. AMP connector
Push button for recirculation flap (optional)	ECE R10 certificated
Illuminated symbols	
Illuminated knobs	
Function and status LEDs	
Technical Information	
912-100-1240	

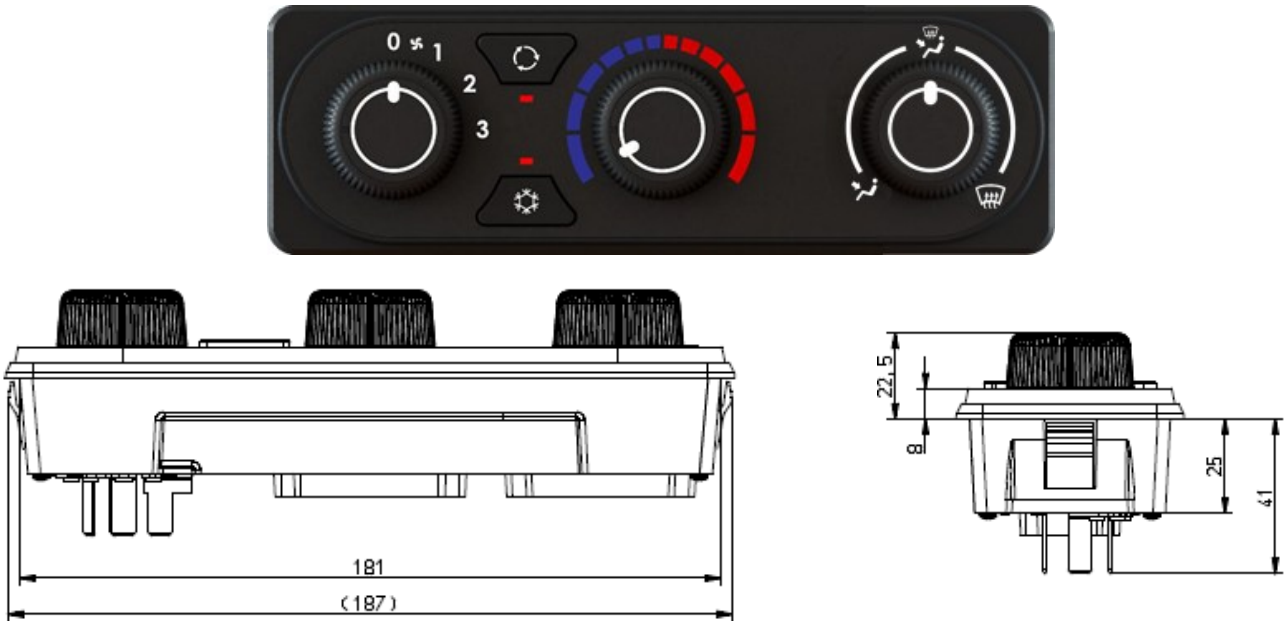


CONTROL PANELS

NEO3

AURORA's NEO3 Control Panel is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The NEO3 has three knobs and up to two push buttons, all electronically manipulated. It is designed for a 3-speed blower, proportionally positioned air distribution flap and optional push buttons for AC and recirculation.

Functions	Specification
3-Step rotary switch for blower speed (25A)	Operation voltage 9 to 30 V
Potentiometer for water valve position	Operation temperature -40°C to +85°C
5-Pol. actuator for water valve	IP54 (front side)
Potentiometer for air distribution flap position	2 × 15 pol. AMP connector
5-Pol. actuator for air distribution flap	ECE R10 certificated
Push button for AC (optional)	
Push button for recirculation flap (optional)	
Illuminated symbols	
Illuminated knobs	
Function and status LEDs	
Technical Information	
912-100-1240	

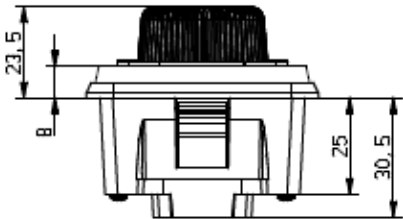
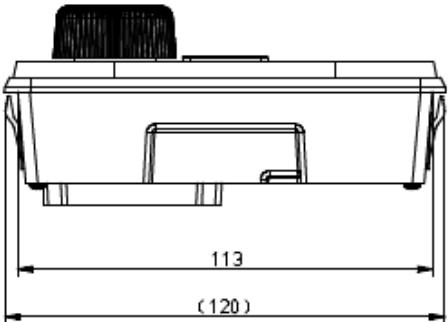


CONTROL PANELS

NEO2PLUS

AURORA’s NEO2plus takes the next step towards ultimate climate control in a cabin or vehicle. The NEO2plus has an encoder that is used for multiple functions, two push-buttons and a round OLED display with a resolution of 128×128px. It is designed to connect a stepless blower, it has a CAN-bus interface, and up to three sensors can be connected.

Functions	Specification
Encoder for set temperature and blower speed	Operation voltage 9 to 30 V
PWM output for stepless blower	Operation temperature -40°C to +85°C
Upper push button for defrost function	IP54 (front side)
Lower push button for menu and AC	1 × 15 pol. AMP connector
Background illumination	ECE R10 certificated
CAN bus interface	
Up to 3 temperature sensors	
OLED display	
Function and status LEDs	
Configuration menu	
Technical Information	
912-100-1240	

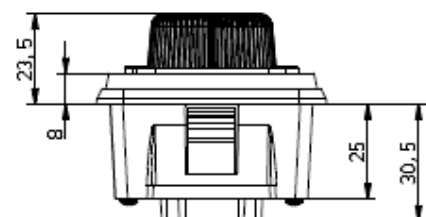
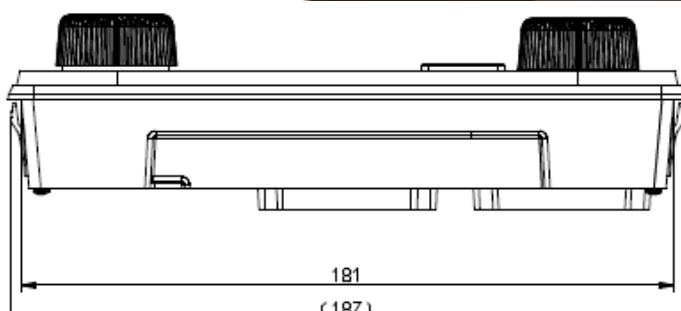


CONTROL PANELS

NEO3PLUS

AURORA's NEO3plus takes the next step towards ultimate climate control in a cabin or vehicle. The NEO3plus has an encoder that is used for multiple functions, a potentiometer for the air distribution, two pus-buttons and a round OLED display with a resolution of 128×128px. It is designed to connect a stepless blower, it has a CAN-bus interface and up to four sensors can be connected.

Functions	Specification
Encoder for set temperature and blower speed	Operation voltage 9 to 30 V
PWM output for stepless blower	Operation temperature -40°C to +85°C
Potentiometer for air distribution	IP54 (front side)
Upper push button for defrost function	2 × 15 pol. AMP connector
Lower push button for menu and AC	ECE R10 certificated
Background illumination	
CAN bus interface	
Up to 4 temperature sensors	
Up to 2 air flap actuators	
Recirculation flap	
OLED display	
Function and status LEDs	
Configuration menu	
Technical Information	
912-100-1240	

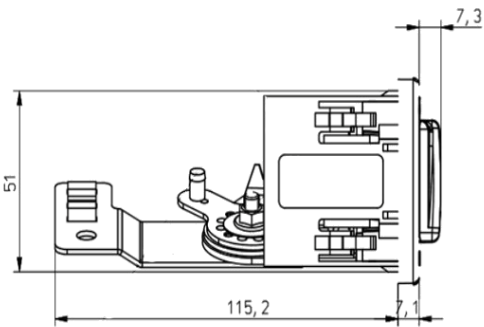
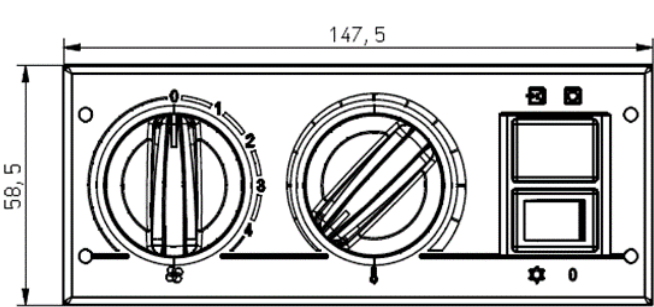
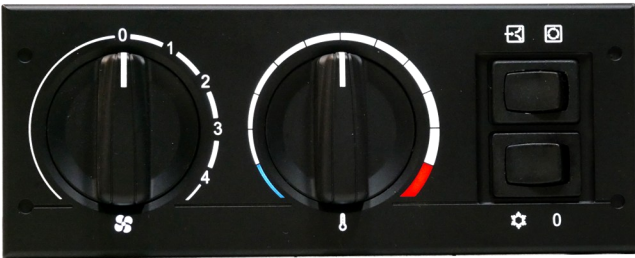


CONTROL PANELS

CCM-S

AURORA's CCM-Short is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The CCM-S has two knobs and up to two rocker switches, all of which are mechanically controlled (electronic versions available - see CCE Controls). Knob and switch functions can be defined by the customer for specific operator requirements.

Functions	Specification
Blower control by rocker switch	Operation voltage 12 or 24 V
Temperature control by bowden control	Operation temperature -40°C to +85°C
Switch for AC function	
Switch for fresh air/circulation air function	
Background illumination	
Technical Information	
912-100-1059	

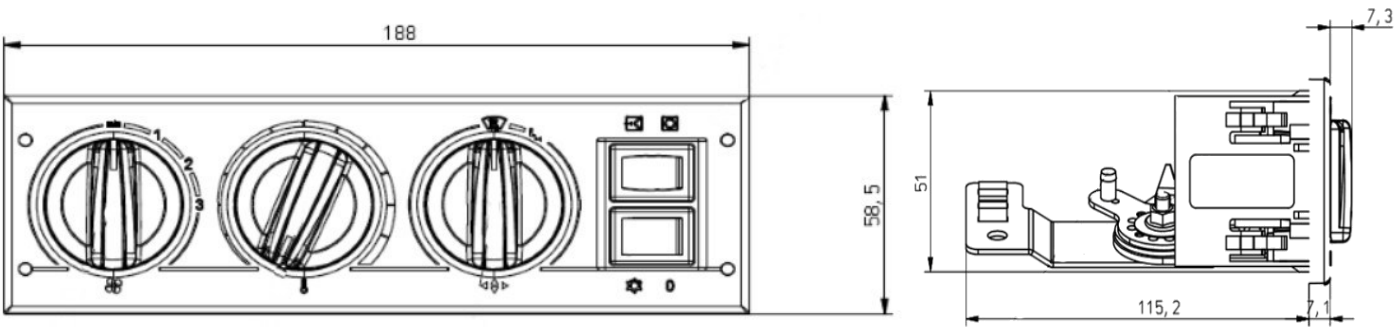
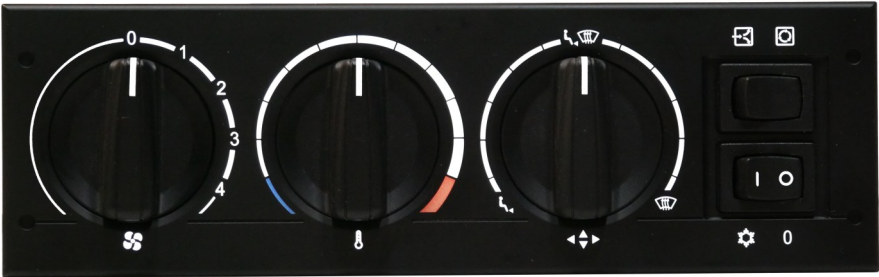


CONTROL PANELS

CCM-L

AURORA's CCM-Long is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. CCM-L has three knobs and up to two rocker switches, all of which are mechanically controlled (electronic versions available - see CCE Controls). Knob and switch functions can be defined by the Customer for specific operator requirements.

Functions	Specification
Blower control by rocker switch	Operation voltage 12 or 24 V
Temperature control by bowden control	Operation temperature -40°C to +85°C
Air distribution flap by bowden control	
Switch for AC function	
Switch for fresh air/circulation air function	
Background illumination	
Technical Information	
912-100-1059	



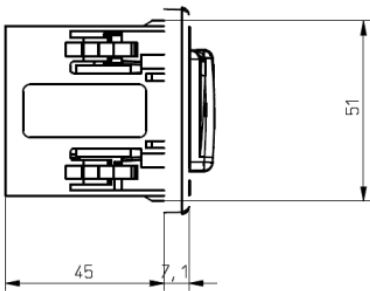
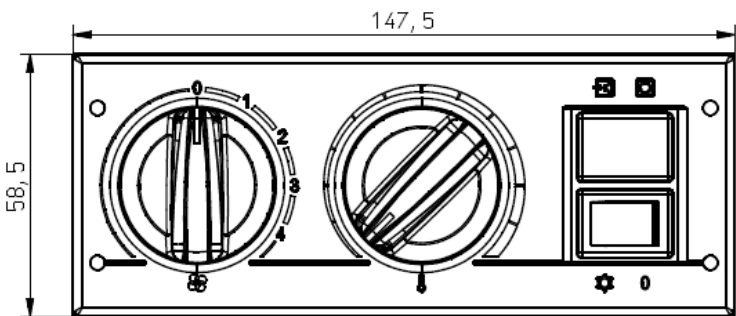
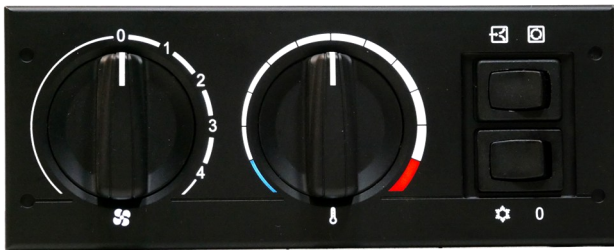
CONTROL PANELS

CCE-S

AURORA's CCE-Short is designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The CCE-S has two knobs and up to two rocker switches, all of which are electronically controlled (for mechanical options - see CCM).

The functions of these knobs and switches can be defined by the customer for specific operator requirements. Climate control options are feasible with the addition of either an HCC control module or a 6-pol AMA actuator.

Functions	Specification
Blower control by rocker switch or potentiometer	Operation voltage 12 or 24 V
Temperature control by potentiometer	Operation temperature -40°C to +85°C
Switch for AC function	
Switch for fresh air/circulation air function	
Background illumination	
Technical Information	
912-100-1059	

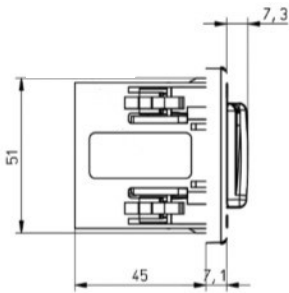
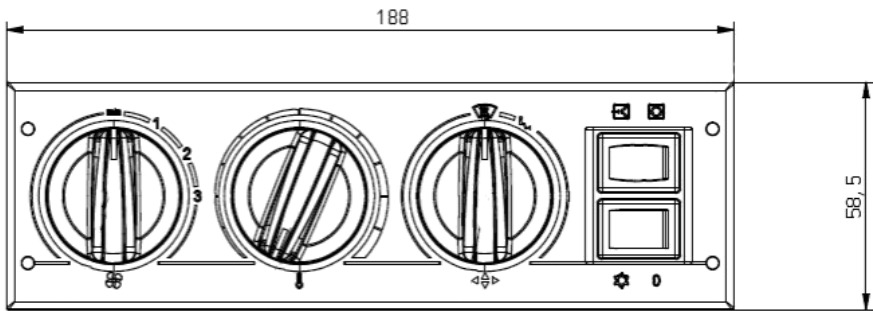
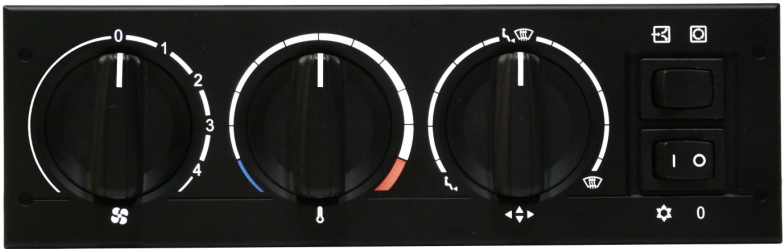


CONTROL PANELS

CCE-L

AURORA's CCE-Long designed for the rough and tough operator. For this line, we've stripped out all the extra bells and whistles to give customers exactly what they need: simplicity and functionality. The CCE-L has three knobs and up to two rocker switches, all of which are electronically controlled (for mechanical options - see CCM). The functions of these knobs and switches can be defined by the customer for specific operator requirements. Climate control options are feasible with the addition of either an HCC control module or a 6-pol AMA actuator.

Functions	Specification
Blower control by rocker switch or potenti-	Operation voltage 12 or 24 V
Temperature control by potentiometer	Operation temperature -40°C to +85°C
Air distribution flap by potentiometer	
Switch for AC function	
Switch for fresh air/circulation air function	
Background illumination	
Technical Information	
912-100-1059	



CONTROL PANELS

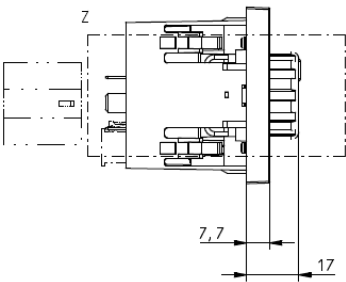
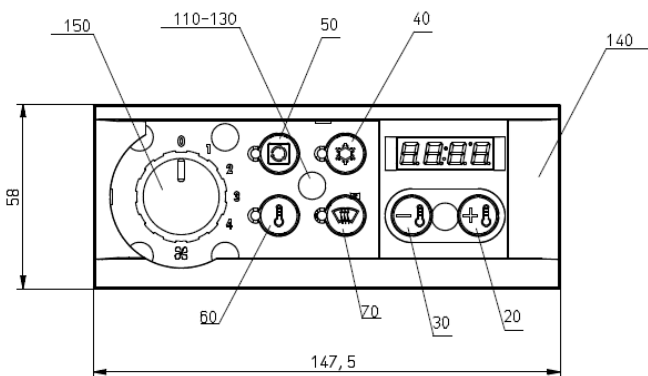
ECR-S

AURORA's ECR-Short the next step towards ultimate climate control in a cabin or vehicles. The short version ECR-S offers a single rotary knob for blower speed control with up to six key buttons. The LED display allows the operator to show setup temperature and receive instantaneous feedback with important information regarding the current state of the cabin.

Functions	Specification
Blower control by rocker switch or potentiometer	Operation voltage 9 to 34 V
PWM output for stepless blower	Operation temperature -40°C to +85°C
Set temperature control by push buttons	ECE R10 certificated
Push button for defrost function	
Push button for AC function	
Push button for fresh / circulation air function	
Background illumination	
CAN bus interface	
4 temperature sensors	
Display	
Function and status LEDs	

Technical Information

912-100-0524

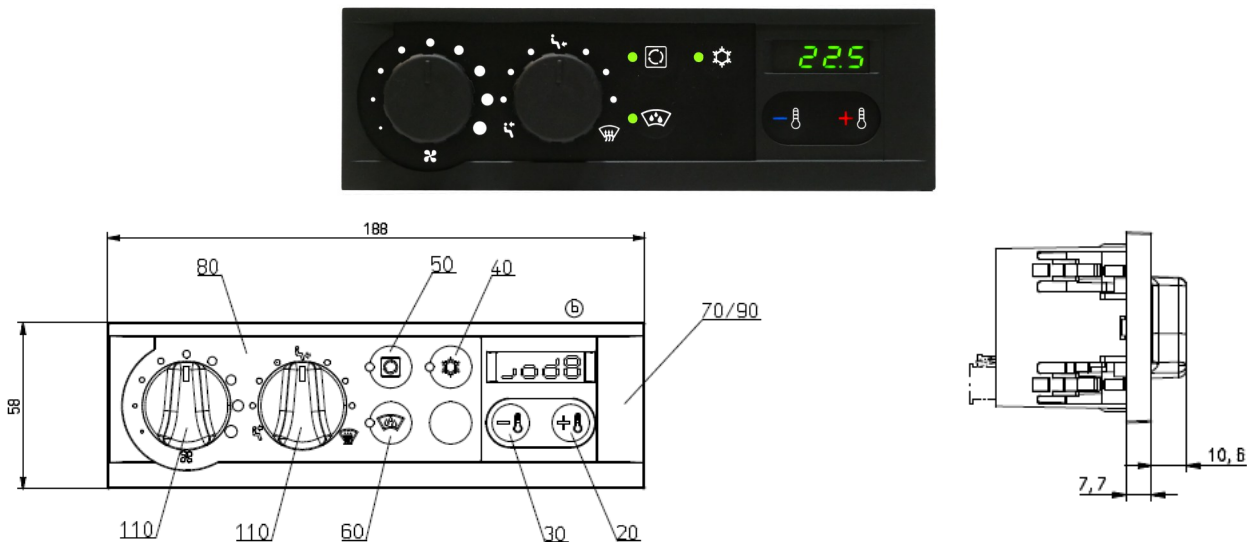


CONTROL PANELS

ECR-L

AURORA's ECR-Long the next step towards ultimate climate control in a cabin or vehicles. The long version ECR-L offers two rotary knobs for blower speed control and air distribution control with up to six key buttons. The LED display allows the operator to show setup temperature and receive instantaneous feedback with important information regarding the current state of the cabin.

Functions	Specification
Blower control by rocker switch or potentiometer	Operation voltage 9 to 34 V
PWM output for stepless blower	Operation temperature -40°C to +85°C
Set temperature control by push buttons	ECE R10 certificated
Push button for defrost function	
Push button for AC function	
Push button for fresh / circulation air function	
Air distribution flap by potentiometer	
Background illumination	
CAN bus interface	
4 temperature sensors	
Display	
Function and status LEDs	
Technical Information	
912-100-0524	

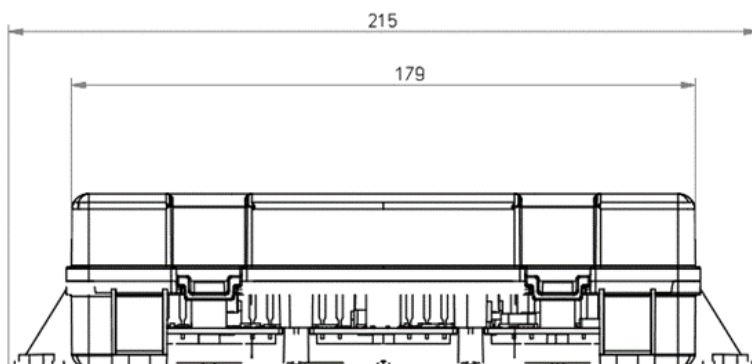
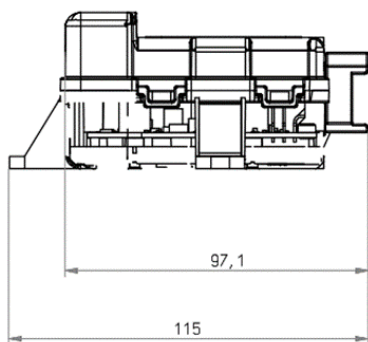
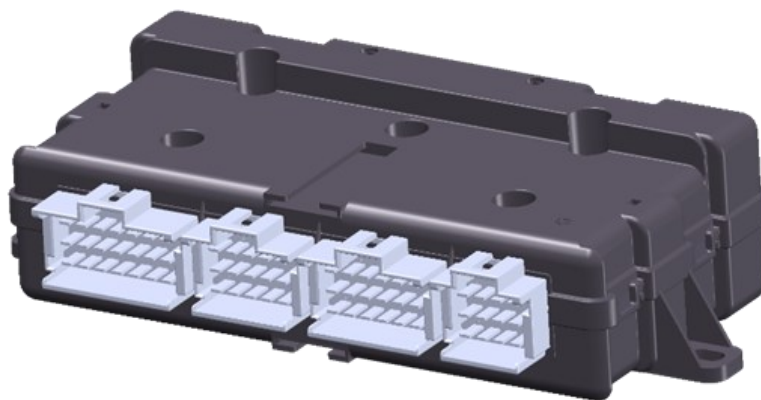
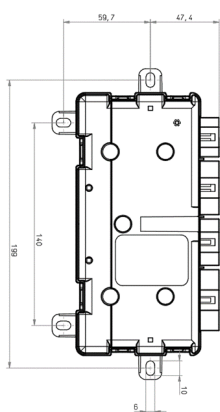


CAN CONTROLLER

ACU-8011

The ACU-8011 is a standalone CAN I/O module to connect various sensors and actuators of an air conditioning unit. The communication with the control unit (and possibly other I/O modules) takes places by a CAN-bus interface. The connection to a vehicle CAN bus can be realized by an optional CAN interface. The controller can be implemented in vehicles with 12V or 24V voltage and the installation is carried out via four screw points.

Functions	Specification
4 temperature sensors	Operation voltage 9 to 34 V
5 digital inputs	Operation temperature -40°C to +80°C
2 analog inputs	ECE R10 certificated
3 analog outputs for blower control	
4 actuators	
8 digital outputs (6 × 0.5A, 2 × 2.0A)	
2 CAN-Bus interfaces	
1 LIN-Bus interface	
Technical Information	
912-100-1060	

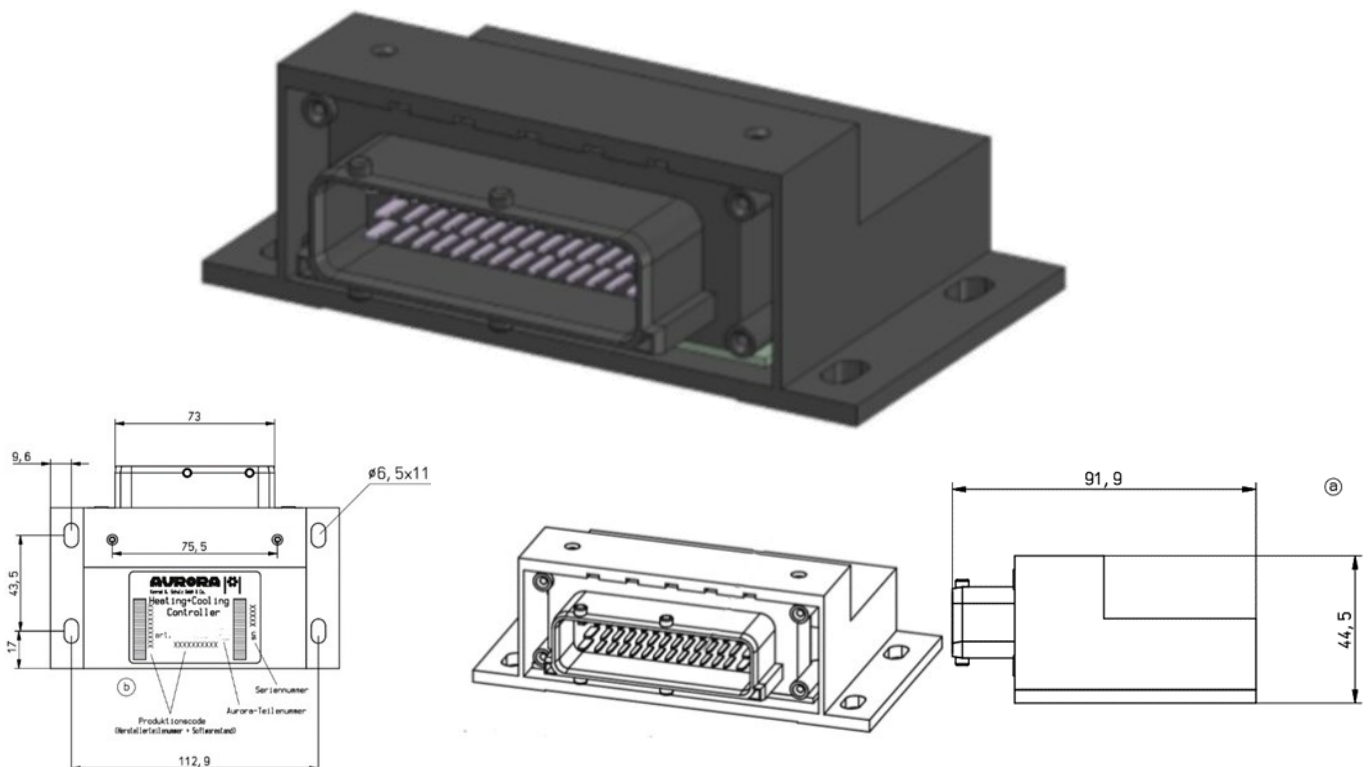


CAN CONTROLLER

ACU-7112

The ACU-7112 is a standalone CAN I/O module to connect various sensors and actuators of an air conditioning unit. The communication with the control unit (and possibly other I/O modules) takes place by a CAN-bus interface. The connection to a vehicle CAN bus can be realized by an optional CAN interface. The controller can be implemented in vehicles with 12V or 24V voltage and the installation is carried out via four screw points. By the potted PCB-board and the sealed connector, the controller achieves the protection class IP67.

Functions	Specification
5 temperature sensors	Operation voltage 9 to 34 V
2 digital inputs	Operation temperature -40°C to +80°C
3 analog inputs	ECE R10 certificated
3 analog outputs for blower control	
3 actuators	
3 digital outputs (2 × 0.5A, 1 × 2.0A)	
2 CAN-Bus interfaces	
Technical Information	
912-100-1293	



LOUVERS

DURABLE,
DYNAMIC, USER-
FRIENDLY





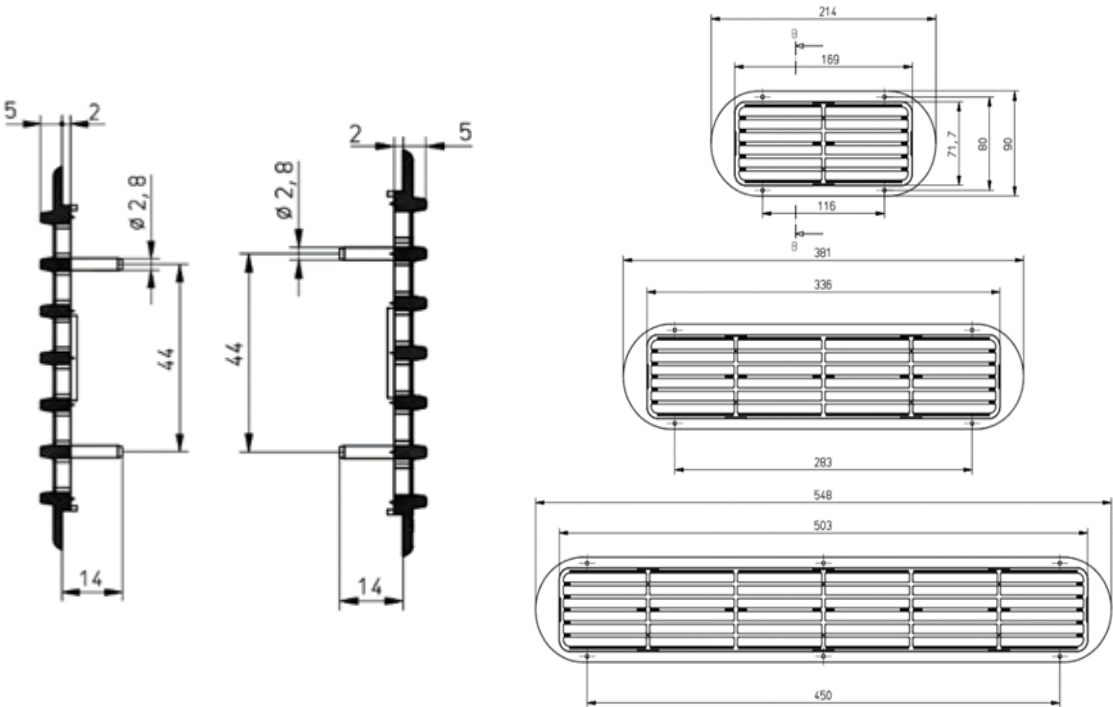
AUROLA 
/ Pioneering Your Comfort

VENTILATION LOUVERS

AIR GRILLS

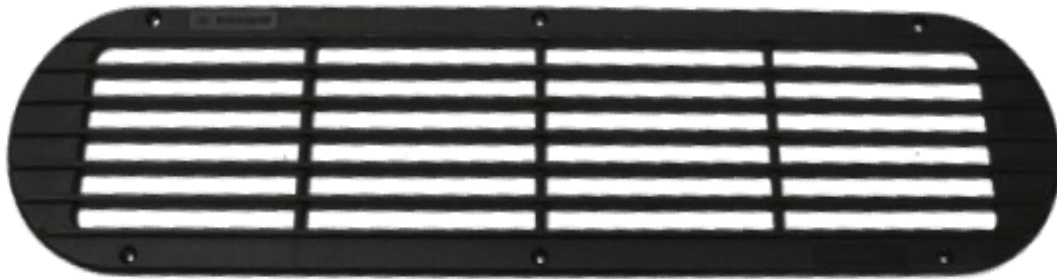
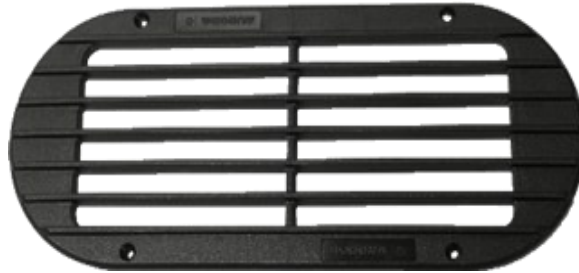
AURORA's Air Grills have horizontal fixed air guide vanes that can be used in both air intake and outtake applications. The grills are designed to allow for different filtration elements in order to keep all foreign and unwanted objects out of the air circulation system. The grills come in several sizes and shapes, and some also have pegged inserts for easier installation with various filtration options.

Material and Color	
Polyamide PA6 15% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0324	
Variations	
Part Number	Description
431-410-0010	Round Long
431-410-0011	Round Medium
431-410-0012	Round Short
334-130-0001	Round Long with ppi30 filter
334-130-0002	Round Medium with ppi30 filter
334-130-0003	Round Short with ppi30 filter



VENTILATION LOUVERS

AIR GRILLS

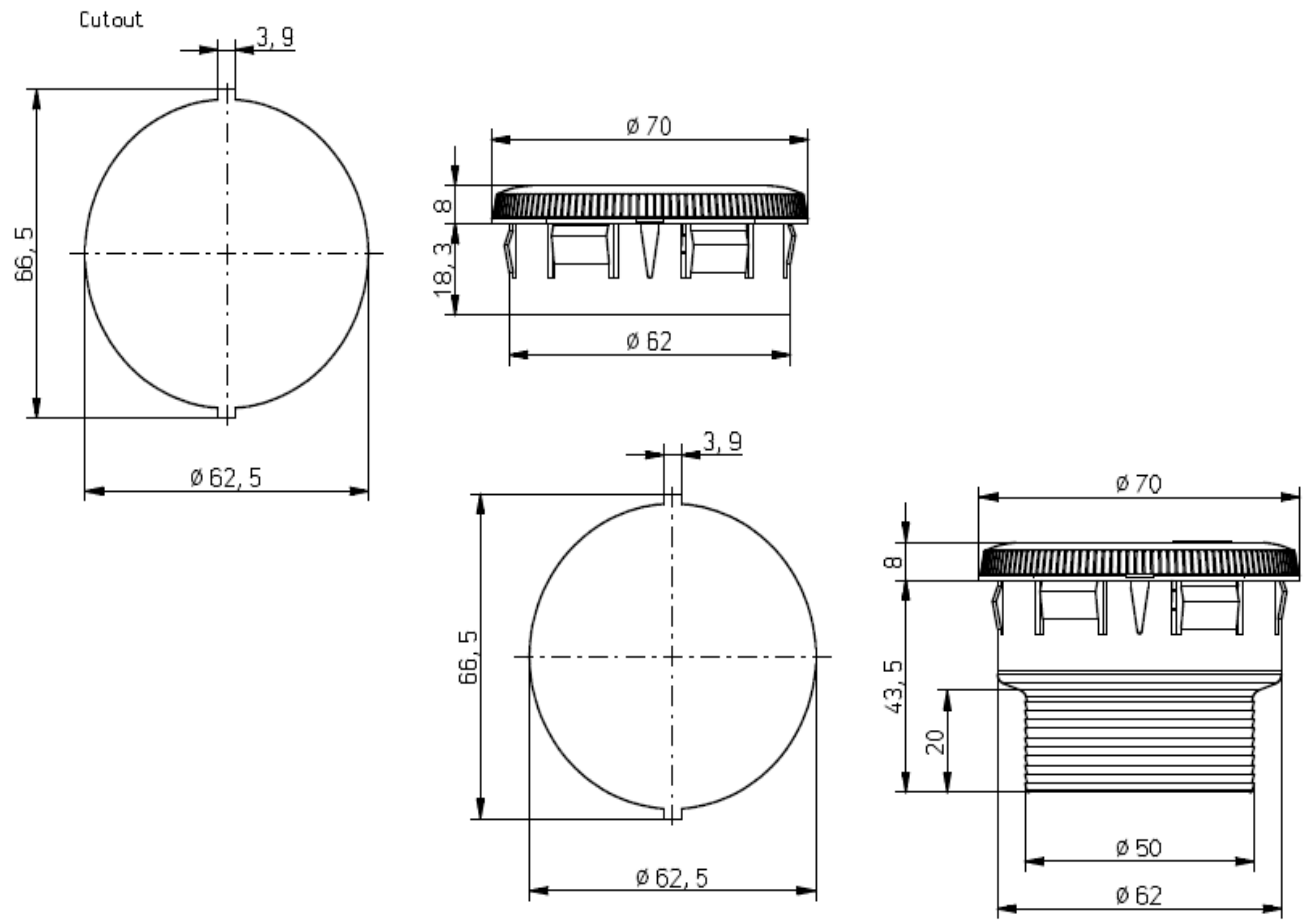


ROUND LOUVERS

RD 70

RD 70, named such for its 70 mm. diameter, features flaps, a 3 mm. as well as 5 mm dash-board clip adaptor standard, and an optional 50 mm. hose adaptor — all for easy affixation into most any hole spaces near its size. Flaps that rotate 360 degrees in a clockwise manner of the Louver provide for maximum air concentration in any user-defined, desired direction.

Material and Color		
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005		
Technical Information		
912-100-0178		
Variations		
Part Number	Clip Range	Descriptions
334-220-0046	3 or 5 mm	RD 70 Black - Clip
334-220-0045	3 or 5 mm	RD 70 Black with 50 mm Ø Hose Adap-tor



ROUND LOUVERS

RD 70

Printed widths (2.75"/ 70 mm diameter) closely mimic actual piece size



Pictured from top-to-bottom:

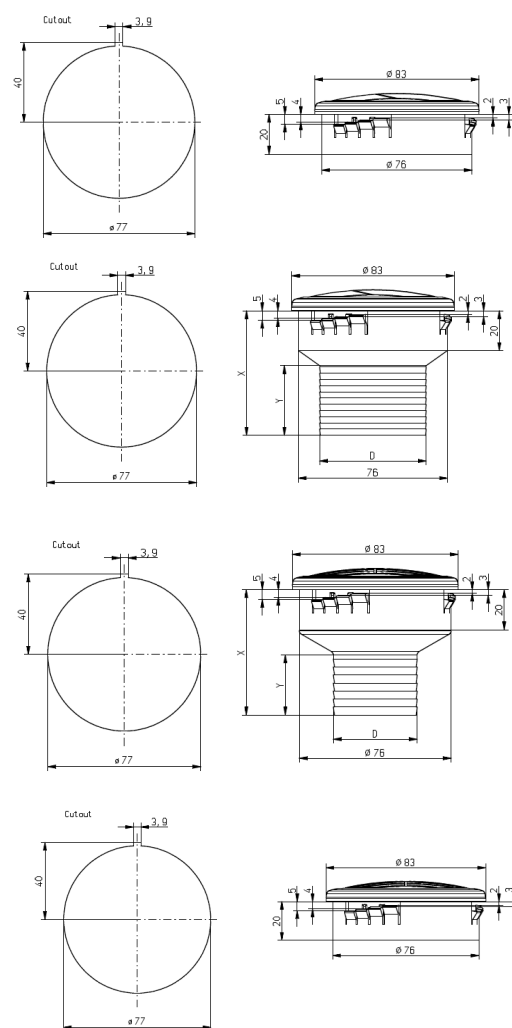
RD70 without Adaptor; RD70 with 50mm. Ø Hose Adaptor

ROUND LOUVERS

RD 83

Material & Color					
Polyamide PA6 35% glass fiber reinforcement Standard Color: black, similar to RAL 9005					
Technical Information					
912-100-0911 / 912-100-0505					
Variations					
Description	Subcategories	Part Number	D – Adaptor Ø	X (mm)	Y (mm)
Custom, Flaps Version with Clip Adaptor	RD 83 Standard Black no adaptor	334-220-0122	—	—	—
	Silver Ring Accent no adaptor	334-220-0123	—	—	—
	Chrome Ring Accent no adaptor	334-220-0154	—	—	—
Standard Black, Flaps Version with Clip & Hose Adaptor		334-220-0144	42 mm	62.5	30
		334-220-0145	50 mm	49	18
		334-220-0146	55 mm	62.5	35
		334-220-0147	60 mm	62.5	35
		334-220-0148	65 mm	63.5	38
		334-220-0149	70 mm	63	40
		334-220-0150	75 mm	50	28
Standard Black, Grill Version with Clip & Hose Adaptor		334-220-0155	42 mm	62.5	30
		334-220-0156	50 mm	49	18
		334-220-0157	55 mm	62.5	35
		334-220-0158	60 mm	62.5	35
		334-220-0159	65 mm	63.5	38
		334-220-0160	70 mm	63	40
		334-220-0161	75 mm	50	28
Custom, Grill Version with Clip	Standard Black	334-220-0142	—	—	—
	Silver Ring	334-220-0127	—	—	—
	Chrome Ring	334-220-0168	—	—	—

AURORA's RD 83 is built for the industry. This next generation louver comes standard with 2 mm, 3 mm, 4 mm, and 5 mm clip ranges. The RD 83's convex design allows for maximum air flow in any desired direction. Perfect for personal air-flow, these round louvers are best used in dash and headliner applications. RD 83 also snaps closed for complete air shut off. Various color options for the Louver's outer ring are also available upon request (see title page for examples).



ROUND LOUVERS

RD 83

*Printed widths (3.25" / 83 mm. diameter) closely
mimic actual piece size*



Standard Black with Flaps & Clip Adaptor



Custom with Silver or Colored-Ring & Clip Adaptor



Custom with Chrome Ring & Clip Adaptor



Standard Black with Fixed Vanes / Grill &
Hose Adaptor



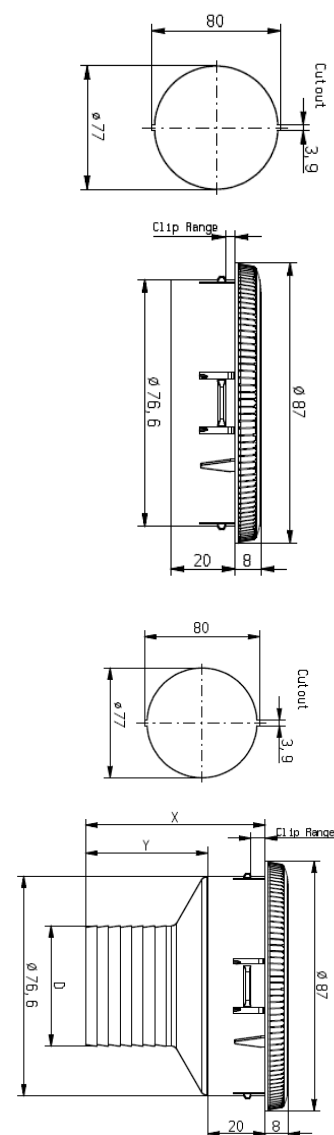
Standard Black with Flaps & Hose Adaptor

ROUND LOUVERS

RD 85

Material & Color				
Polyamide PA6 35% glass fiber reinforcement Standard Color: black, similar to RAL 9005				
Technical Information				
912-100-0911 / 912-100-0178				
Variations				
Description	Part Number	D – Adaptor Ø	X (mm)	Y (mm)
3 mm Clip Standard Black Flaps	334-220-0052	None	n/a	n/a
	334-220-0053	42 mm	62.5	30
	334-220-0054	50 mm	49	18
	334-220-0055	55 mm	62.5	35
	334-220-0084	60 mm	62.5	35
	334-220-0056	65 mm	63.5	38
	334-220-0057	70 mm	63	40
	334-220-0058	75 mm	50	28
5 mm Clip Standard Black Flaps	334-220-0013	None	n/a	n/a
	334-220-0024	42 mm	62.5	30
	334-220-0025	50 mm	49	18
	334-220-0026	55 mm	62.5	35
	334-220-0083	60 mm	62.5	35
	334-220-0027	65 mm	63.5	38
	334-220-0029	75 mm	50	28
3 mm Clip	334-220-0108	—	—	—
3 mm. Clip Standard Black Grill	334-220-0060	None	-	-
	334-220-0061	42 mm	62.5	30
	334-220-0062	50 mm	49	18
	334-220-0063	55 mm	62.5	35
	334-220-0064	65 mm	63.5	38
	334-220-0065	70 mm	63	40
	334-220-0066	75 mm	50	28
5 mm. Clip Standard Black Grill	334-220-0075	None	-	-
	334-220-0076	42 mm	62.5	30
	334-220-0077	50 mm	49	18
	334-220-0078	55 mm	62.5	35
	334-220-0079	65 mm	63.5	38
	334-220-0080	70 mm	63	40
	334-220-0081	75 mm	50	28

This particular, robust round 85 mm louver is intended for use in multiple locations (headliners, dash panels, cab-in floor). With either a 3 mm or 5 mm clip range, *RD 85* can easily snap into most surfaces. The 360° rotation of the louver provides maximum air concentration in most every desired direction. *RD85*'s rugged design is ideal for heavy machinery, especially whenever durability matters most.



ROUND LOUVERS

RD 85

Printed widths (3.34" / 85 mm. diameter) closely mimic actual piece size

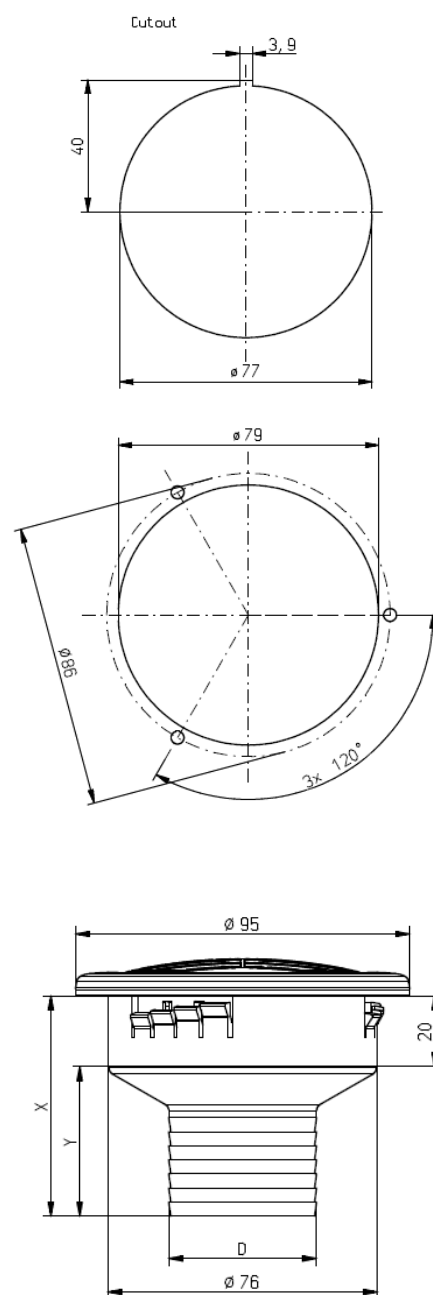


ROUND LOUVERS

RD 95

AURORA's round louver *RD 95* is built for the industry. This next generation louver comes standard with 2 mm, 3 mm, 4 mm, and 5 mm clip ranges. The *RD 95*'s convex design allows for maximum air flow in most any desired direction. Awesome for personal airflow, these round louvers are best used in dash and headliner applications. The *RD 95* also snaps closed for complete air shut off.

Material & Color				
Polyamide PA6 35% glass fiber reinforcement Standard Color: black, similar to RAL 9005				
Technical Information				
912-100-1041				
Variations				
Description	Part Number	D – Adaptor Ø	X (mm)	Y (mm)
Flaps Version Standard Black	334-220-0136	No Adaptor	60.5	20
	334-220-0178	42 mm	62.5	30
	334-220-0179	50 mm	49	18
	334-220-0180	55 mm	62.5	35
	334-220-0181	60 mm	62.5	35
	334-220-0182	65 mm	63.5	38
	334-220-0183	70 mm	63	40
	334-220-0184	75 mm	50	28
Grill Version Standard Black	334-220-0177	No Adaptor	60.5	20
	334-220-0185	42 mm	62.5	30
	334-220-0186	50 mm	49	18
	334-220-0187	55 mm	62.5	35
	334-220-0188	60 mm	62.5	35
	334-220-0189	65 mm	63.5	38
	334-220-0190	70 mm	63	40
	334-220-0191	75 mm	50	28



ROUND LOUVERS

RD 95

Printed widths (3.74" / 95 mm. diameter) closely mimic actual piece size

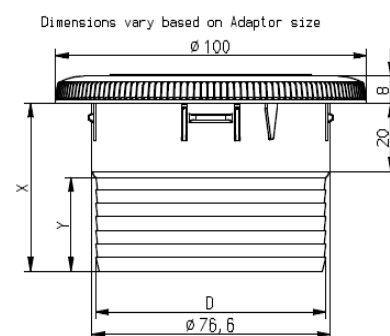
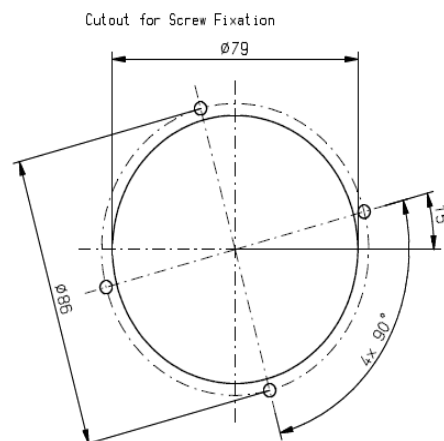
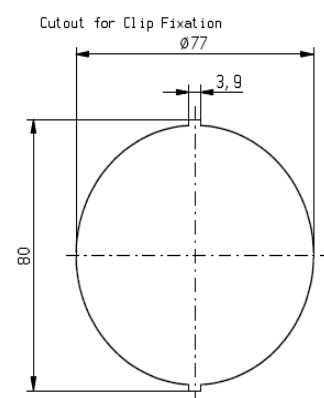


ROUND LOUVERS

RD 100

RD 100 is available either with or without adaptors. The robust round 100.0 mm diameter Louver is intended for use in headliners or dash consoles. This Louver is built for durability and massive spot airflow. Its multiple fixation capabilities also make this louver extremely adaptable. With a standard 3 mm clip range, this component easily snaps into most surfaces. For headliners and dash cutouts greater than a 3 mm thickness, the RD 100 can also be fixed into position via screw holes in the mounting base. The 360° rotation of RD 100 louver provides maximum air flow in most any desired direction.

Material & Color				
Polyamide PA6 35% glass fiber reinforcement Standard Color: black, similar to RAL 9005				
Technical Information				
912-100-0699 (Nexus) / 912-100-0178 (Flaps Traditional) / 912-100-0505 (Grill)				
Variations				
Description	Part Number	D – Adaptor Ø	X (mm)	Y (mm)
Flaps Version Traditional Bezel	334-220-0016	No Adaptor	n/a	n/a
	334-220-0017	41.5 mm	62.5	30
	334-220-0018	50 mm	49	18
	334-220-0019	55 mm	62.5	35
	334-220-0082	60 mm	62.5	35
	334-220-0020	65 mm	62.5	38
	334-220-0021	70 mm	63	40
	334-220-0022	75 mm	50	28
Flaps Version Nexus with 0.5-9 mm. clip range	334-220-0102	No Adaptor	n/a	n/a
Grill Version Traditional Bezel	334-220-0067	No Adaptor	n/a	n/a
	334-220-0069	41.5 mm	62.5	30
	334-220-0070	50 mm	50	18
	334-220-0071	55 mm	62.5	35
	334-220-0086	60 mm	62.5	35
	334-220-0072	65 mm	63.5	38
	334-220-0073	70 mm	63	40
	334-220-0074	75 mm	50	28



ROUND LOUVERS

RD 100

Printed widths closely mimic actual piece size.

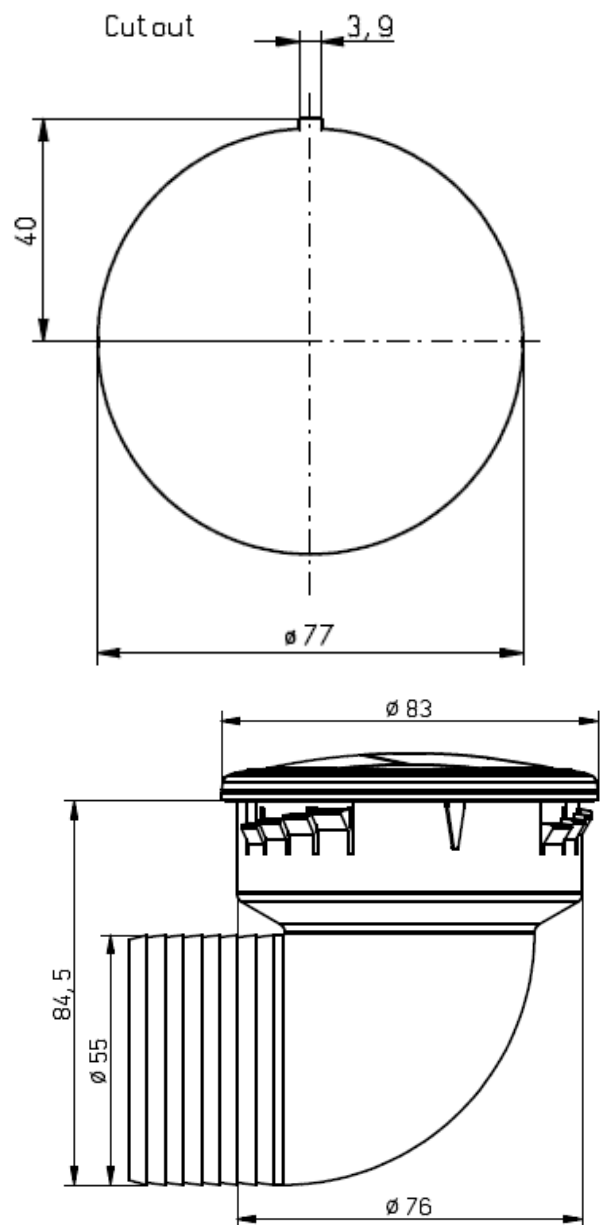


ROUND LOUVERS

SPECIALTY WITH 90° ADAPTERS

This Louver features a specialty, 90 degree hose adapter to accommodate attachment to spaces, which are otherwise not reachable in any other manner. Representing yet another significant sign of the AURORA Group's flexibility factored into the design of its standard component Solutions.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0911 + 912-100-0505	
Variations	
Part Number	Description
334-220-0162	RD 100.55 - 3 mm clip Grill Version with 90° adaptor
334-220-0163	RD 83.55 – 2/3/4/5 mm Clip version with 90° adaptor



ROUND LOUVERS

SPECIALTY WITH 90° ADAPTERS

Printed dimensions of photographs no longer mimic actual size.

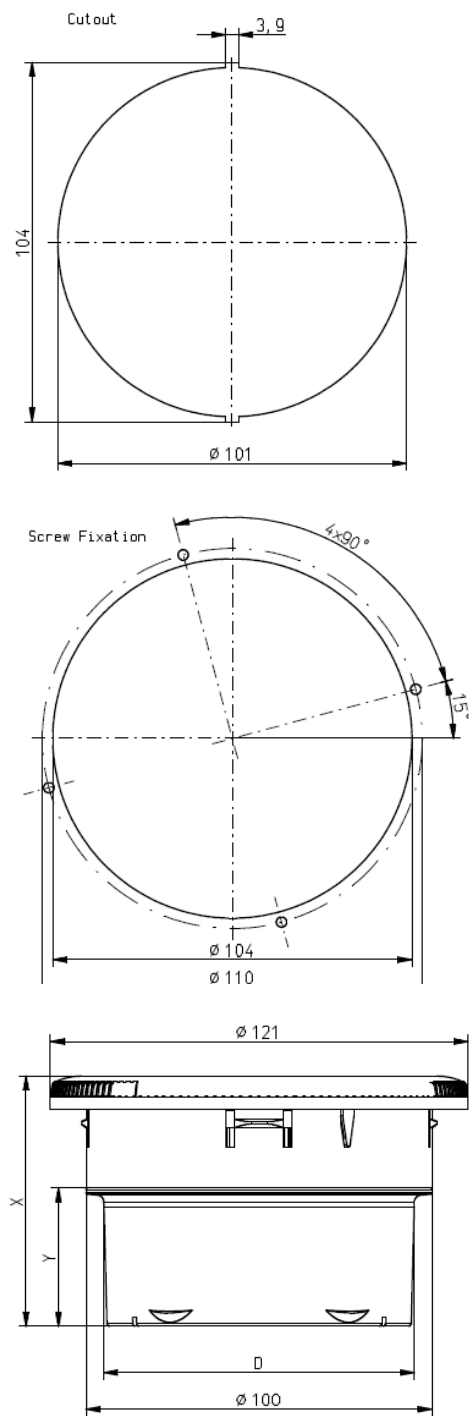


ROUND LOUVERS

RD 120

As the largest Round Louver in AURORA’s variety, this Round 120.0 mm diameter Louver is intended for use in multiple locations (headliners, dash panels, foot spaces). *RD120* has a standard 3 mm Clip Range. Coupled with screw fastening capabilities, this component can easily be mounted into any surface. The 360 degree rotation of the louver provides maximum air concentration in most every desired direction. This gigantic louver is specially designed for near zero breakages across even the roughest, most rugged environments.

Material and Color			
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005			
Technical Information			
912-100-0178			
Variations			
Part Number	D Adaptor Ø (mm)	X (mm)	Y (mm)
334-220-0030	None	29	n/a
334-220-0090	90	72	40



ROUND LOUVERS

RD 120

Printed dimensions (4.72" / 120 mm diameter) closely mimic actual piece size



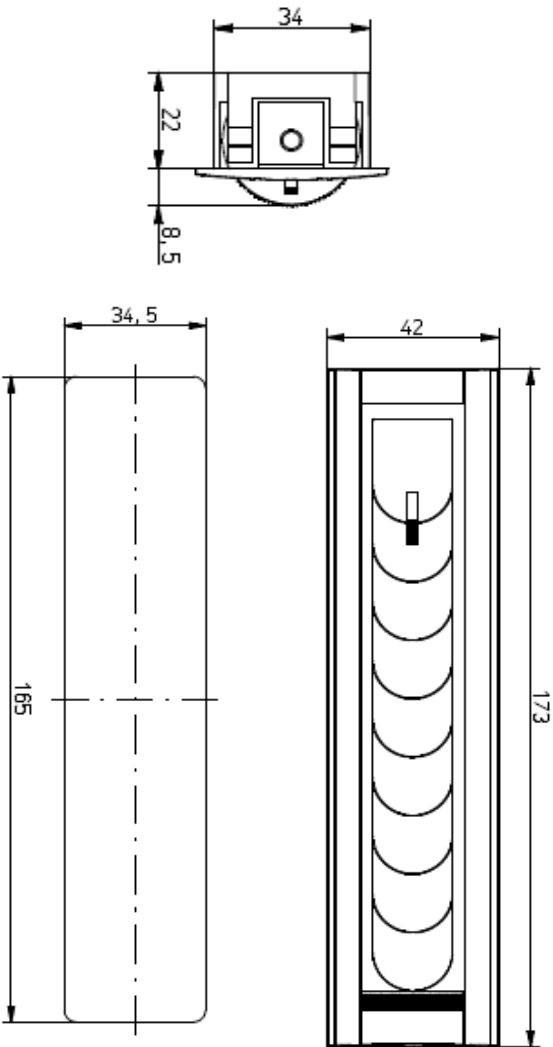
RECTANGULAR LOUVERS

THIN LOUVER

AURORA's Thin Louver incorporates a slim design for installation in spaces where room is scarce. The roll function allows the operator adjust the direction of airflow to the desired destination. The flap control also adds to the adjustability. When closed, the louver is completely shut.

Thin Louvers have excellent flow characteristics in a compact size and are ideal in the support posts or even to utilize as a defrost louver.

Material and Color	
Polyamide PA6 35% glass reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0469	
Variations	
Part Number	Description
334-315-0002	Thin Louver Black



RECTANGULAR LOUVERS

THIN LOUVER

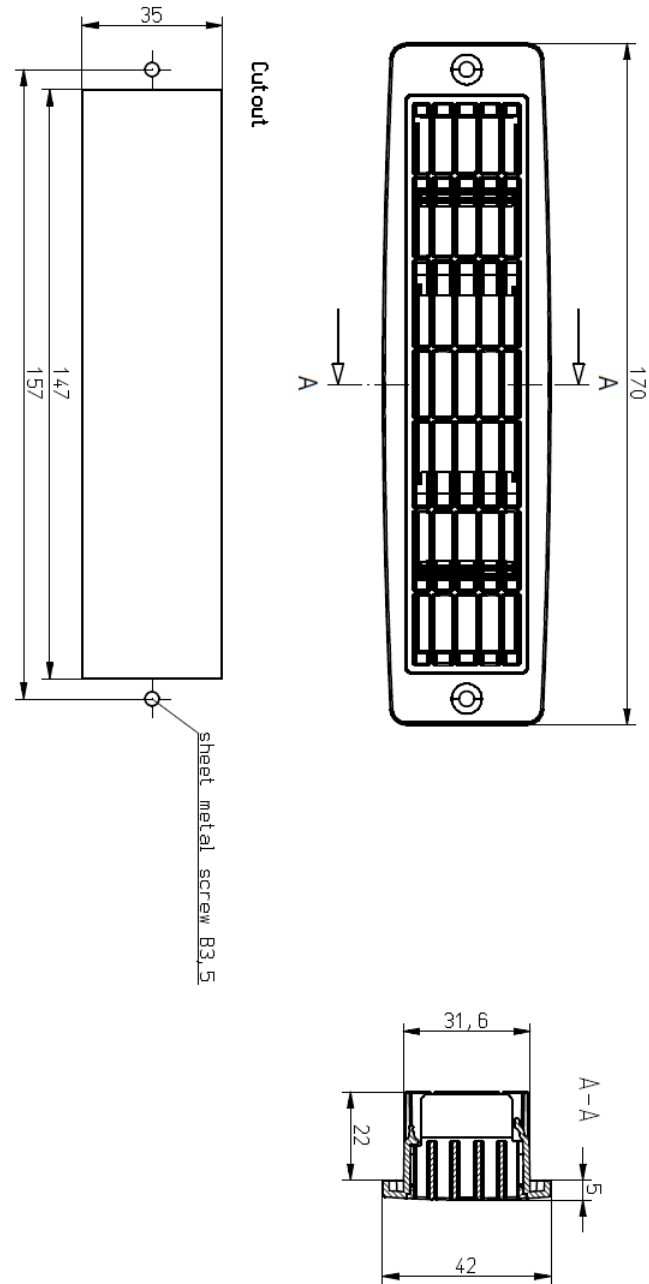


RECTANGULAR LOUVERS

VECTOR NOZZLE

AURORA’s Vector Nozzle is the ultimate defrost or under the seat louver. With fixed vanes to optimize airflow over the desired surface area, the Vector was designed for defrosting and defogging glass. This component also doubles as a great below the seat option. With a faceplate, this grill prevents any foreign objects from entering the ducting while the spindle allows the operator the option for complete air shut-off in order to allocate maximum air flow to additional areas of the operating environment.

Material and Color	
Polyamide PA6 35% glass reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0950	
Variations	
Part Number	Description
334-150-0014	Screw Version Flaps
334-150-0017	Clip Version Flaps
334-150-0016	Screw Version Fix Grill
334-150-0018	Clip Version Fix Grill



RECTANGULAR LOUVERS

VECTOR NOZZLE

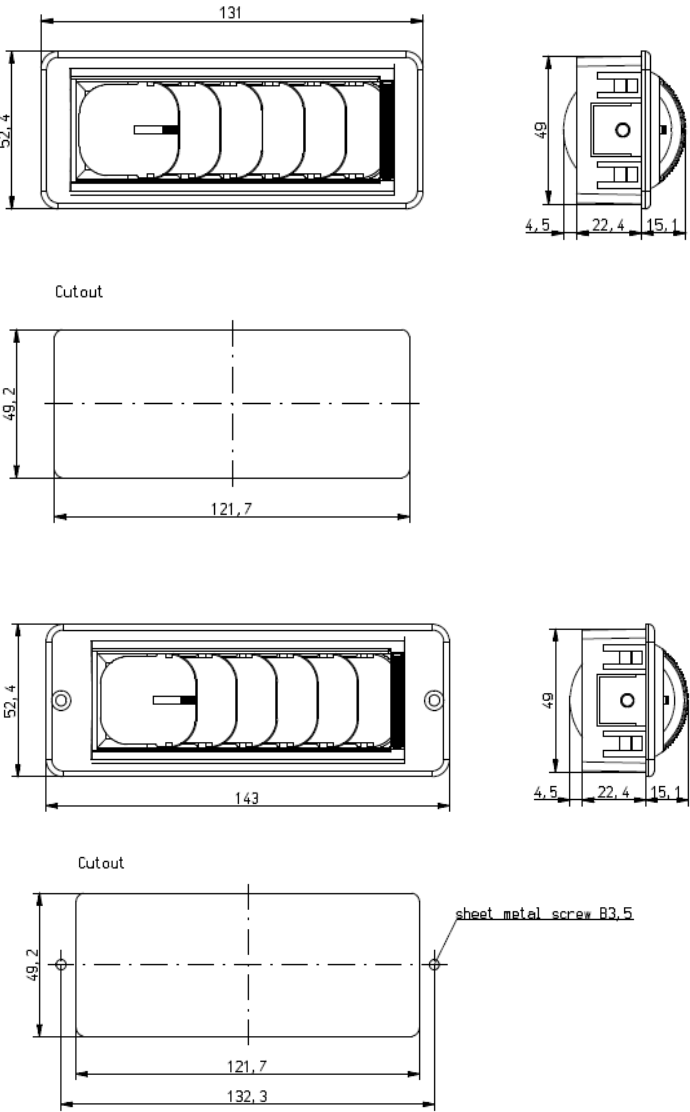


RECTANGULAR LOUVERS

SMALL LOUVER I

AURORA's Small Louver has a narrow bezel with vanes that open, close, and roll, providing excellent air distribution. The rugged design allows these louvers to be placed in all locations of the cab. Both the screw and clip versions provide easy mounting options for versatile usage. The Small Louver is an excellent option for headliners, dash panels, and A or B pillars.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0066 / 912-100-0176 / 912-100-0234	
Variations	
Part Number	Attachment
334-314-0003	Screw
334-314-0004	Clip
334-314-0023	Screw type, increased frame width 59 mm



RECTANGULAR LOUVERS

SMALL LOUVER I

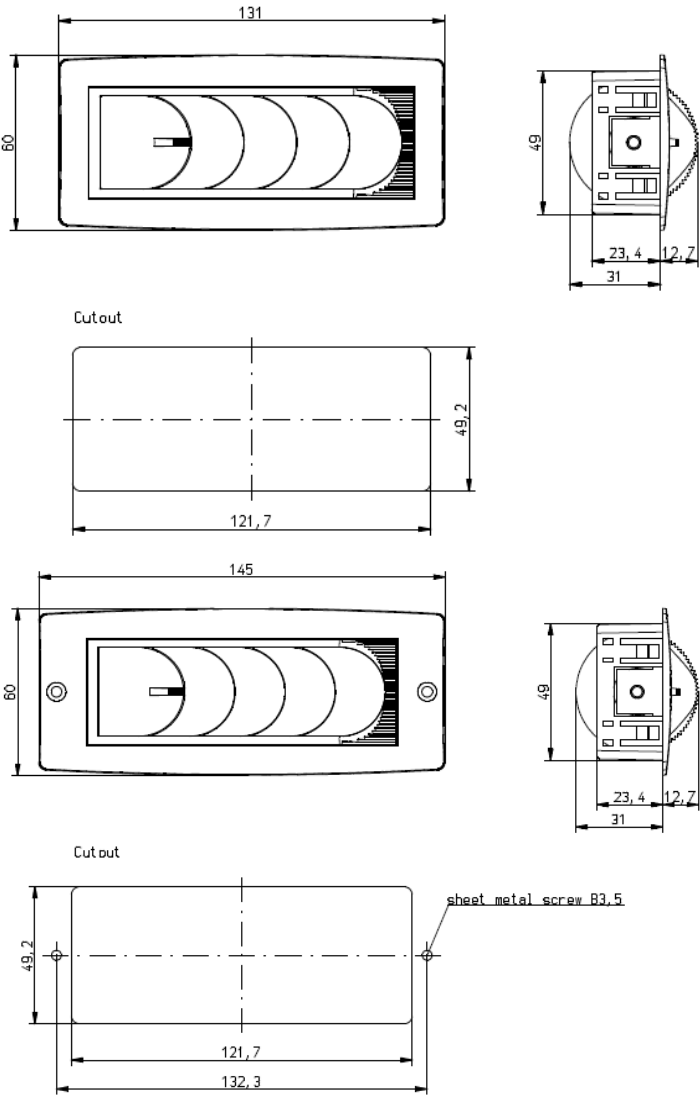


RECTANGULAR LOUVERS

SMALL LOUVER II

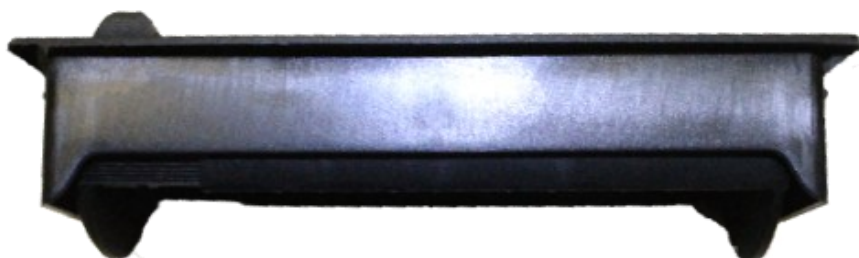
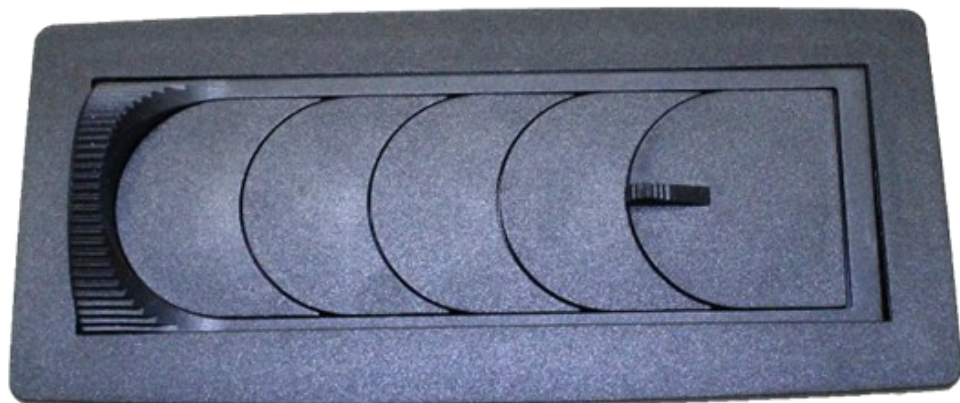
AURORA’s newest edition to the Small Louver family. This edition has a new facelift with arched bezels for a modern looking design. Coupled with the same durability and features as the rest of the family, these louvers are a universal rectangular solution to all locations in the cab. Both the screw and clip versions provide easy mounting options for versatile usage. The Small Louver II is an excellent option for headliners, dash panels, and A or B pillars.

Material and Color	
Polyamide PA6 35% glass reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0912	
Variations	
Part Number	Attachment
334-314-0020	Clip
334-314-0021	Screw



RECTANGULAR LOUVERS

SMALL LOUVER II

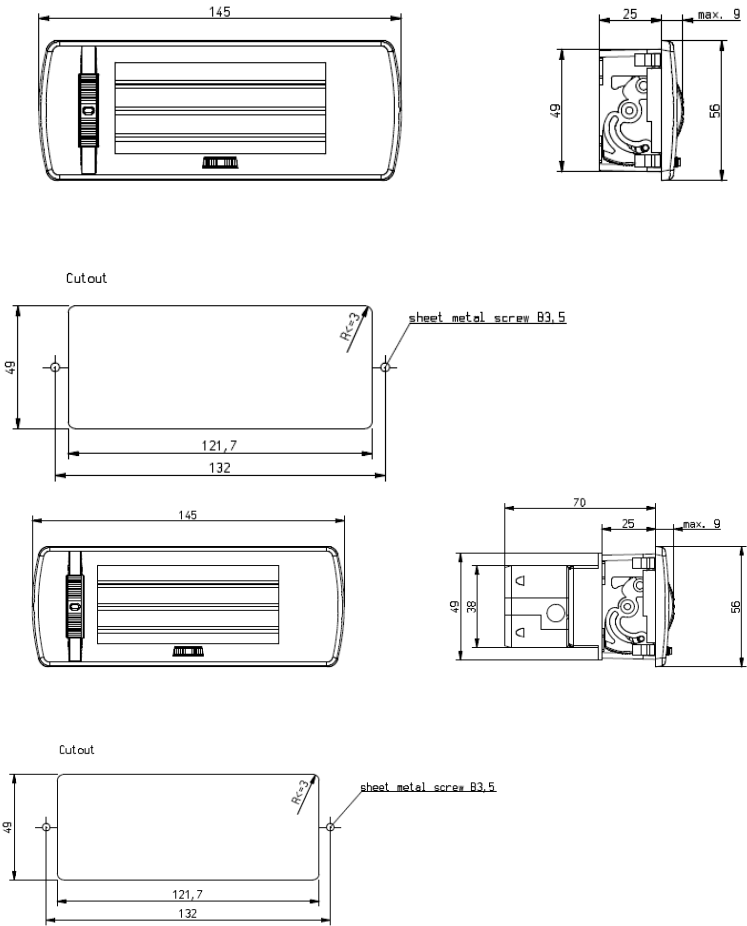


RECTANGULAR LOUVERS

AERO LOUVER

AURORA's Aero Louver serves multiple functions for cabin air distribution. This louver caters to cab builders and designers who do not wish to have visible screws in their vehicles. Once the base of the louver is installed, a clip-on face plate hides the screws from view inside the cabin. The Aero louver also has dual wheels for adjusting airflow direction to ensure operator comfort. This louver is a great option for headliner and console applications, as well as under-seat personal air distribution.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0404	
Variations	
Part Number	Attachment
334-314-0050	Screw
334-314-0052	Screw with Hose Adaptor



RECTANGULAR LOUVERS

AERO LOUVER



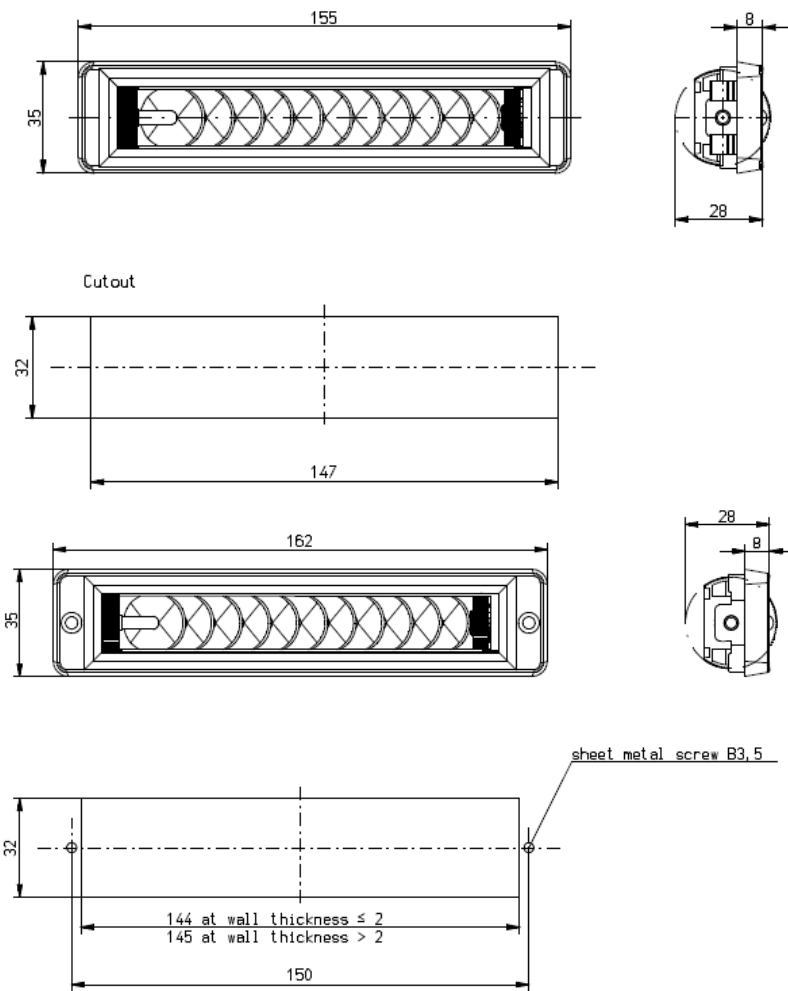
RECTANGULAR LOUVERS

STANDARD ROLL NOZZLE

AURORA's Roll Nozzle offers a slim profile allowing this Louver to be located near the wind shield for defrost applications. The inner roll rotates enabling even more flexible air distribution. The roll can also be closed to block airflow through the louver.

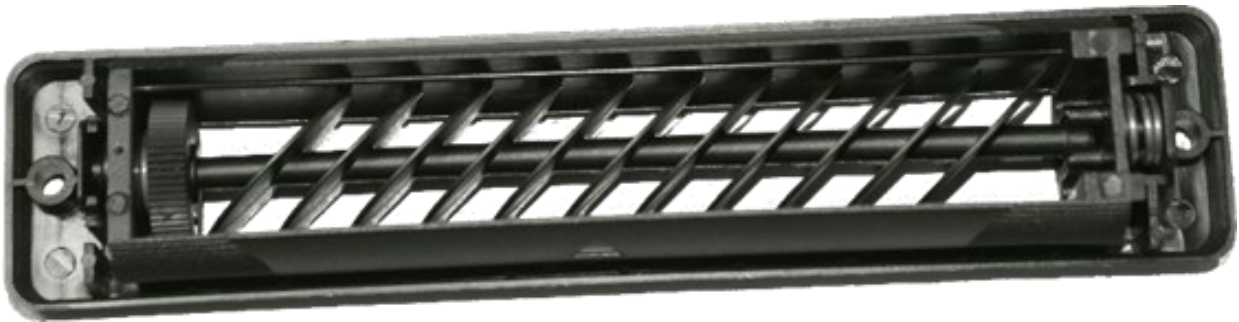
AURORA's Roll Nozzle has a slim profile allowing it to be located near the wind shield for defrost applications. The inner roll rotates allowing flexible air distribution. The roll can also be rotated to close off of the air through the louver. This particular roll nozzle has a wider frame to cover up unclean cut outs and frayed edges in the dash.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0177 Standard / 912-100-0142 Special Frame	
Variations	
Part Number	Attachment
334-341-0001	Clip
334-341-0002	Screw
334-341-0007	Screw; Special Frame



RECTANGULAR LOUVERS

STANDARD ROLL NOZZLE



RECTANGULAR LOUVERS

DOUBLE ROLL NOZZLE

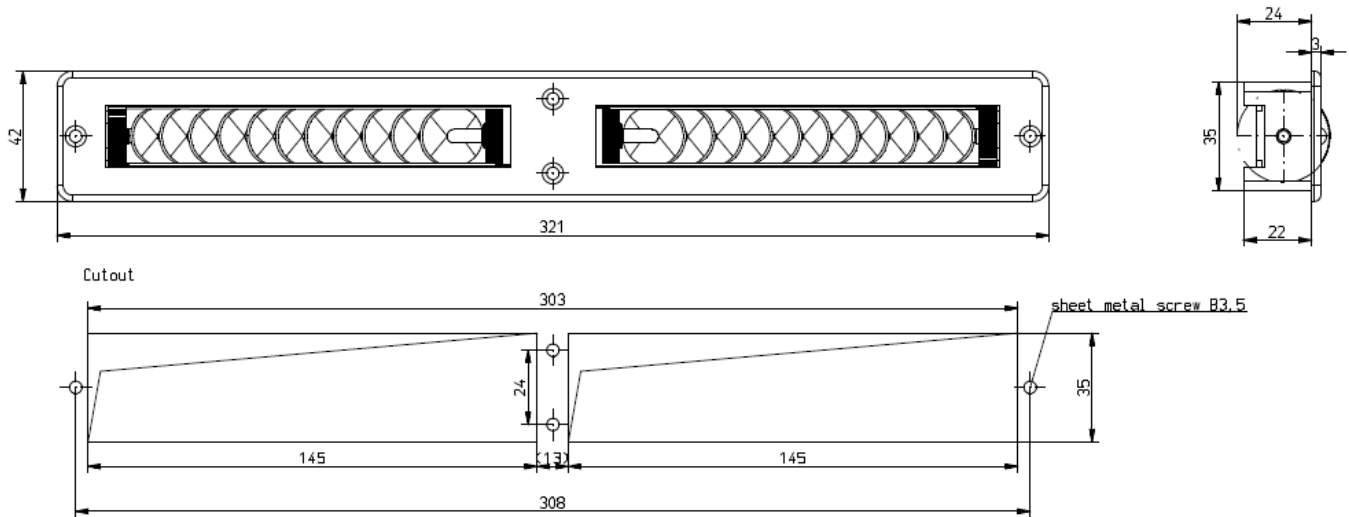
AURORA's Roll Nozzle has a slim profile allowing it to be located near the windshield for defrost applications. The inner roll rotates allowing flexible air distribution. The roll can also be rotated to close of the air through the louver. The Double Roll Nozzle is an excellent option for dash panels.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0142	
Variations	
Part Number	Attachment
334-341-0008	Screw – Double Roll



RECTANGULAR LOUVERS

DOUBLE ROLL NOZZLE



DEFROST LOUVERS

QUARTER CIRCLE VENT

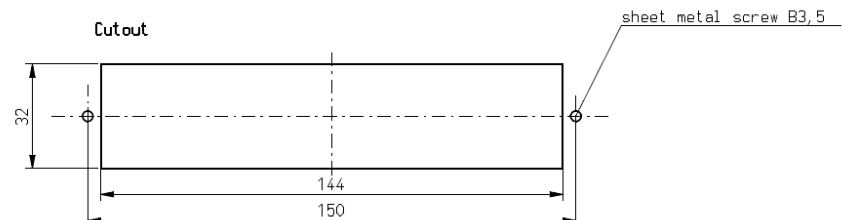
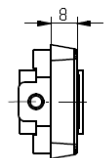
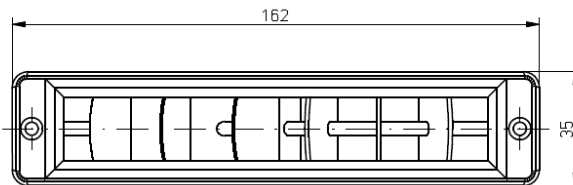
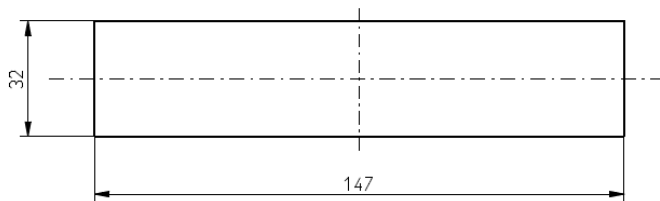
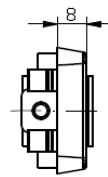
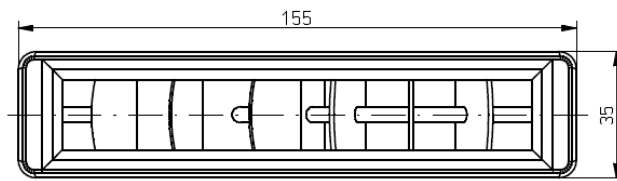
AURORA's Quarter Circle Vent has a fixed vane profile that evenly distributes airflow, making it ideal for defrost applications. This louver is most suitable for dashboard and window edge applications where defrost functionality is key.

Material and Color	
Polyamide PA6 35% glass fiber reinforced Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0185	
Variations	
Part Number	Attachment
334-150-0001	Clip
334-150-0002	Screw



DEFROST LOUVERS

QUARTER CIRCLE VENT



DEFROST LOUVERS

PD NOZZLE

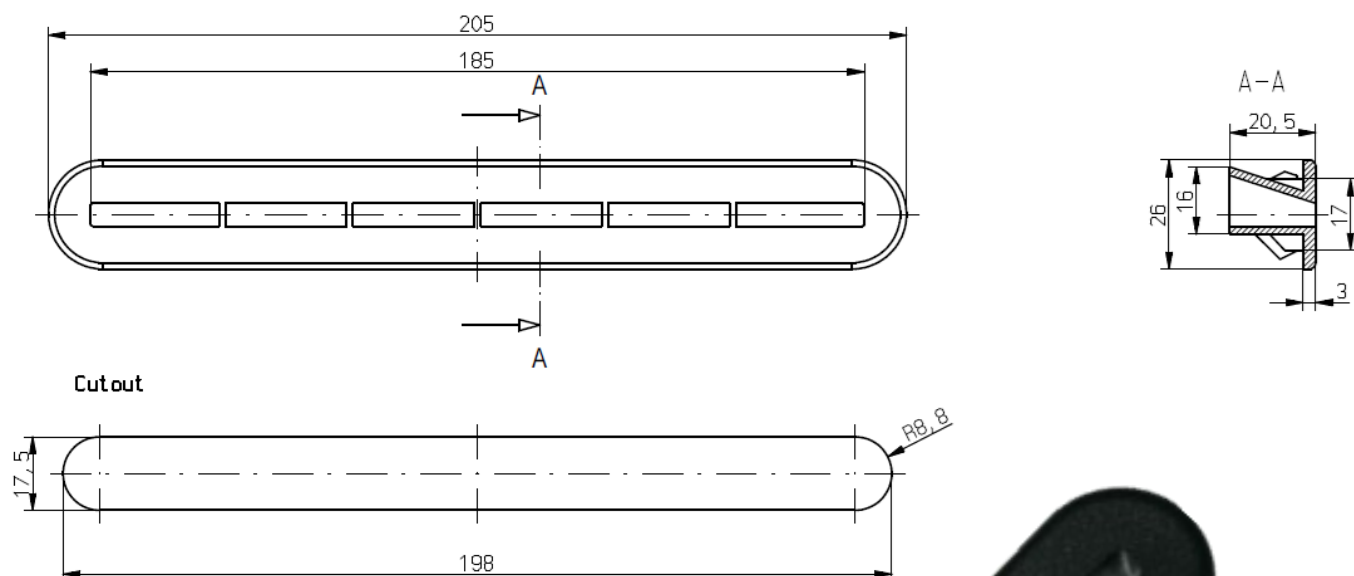
The *PD Nozzle* is a defrost louver designed to be installed nearest the windshield. Resulting from a sleek profile design, *PD* makes an excellent addition to include in any dash board or headliner. Integrated guide vanes distribute optimal airflow along the surface. Various sizes are available upon request.

Material and Color	
ABS Plastic Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0323	
Variations	
Part Number	Description
334-150-0003	PD Long Louver



DEFROST LOUVERS

PD NOZZLE



DEFROST LOUVERS

PD2 LOUVER LONG

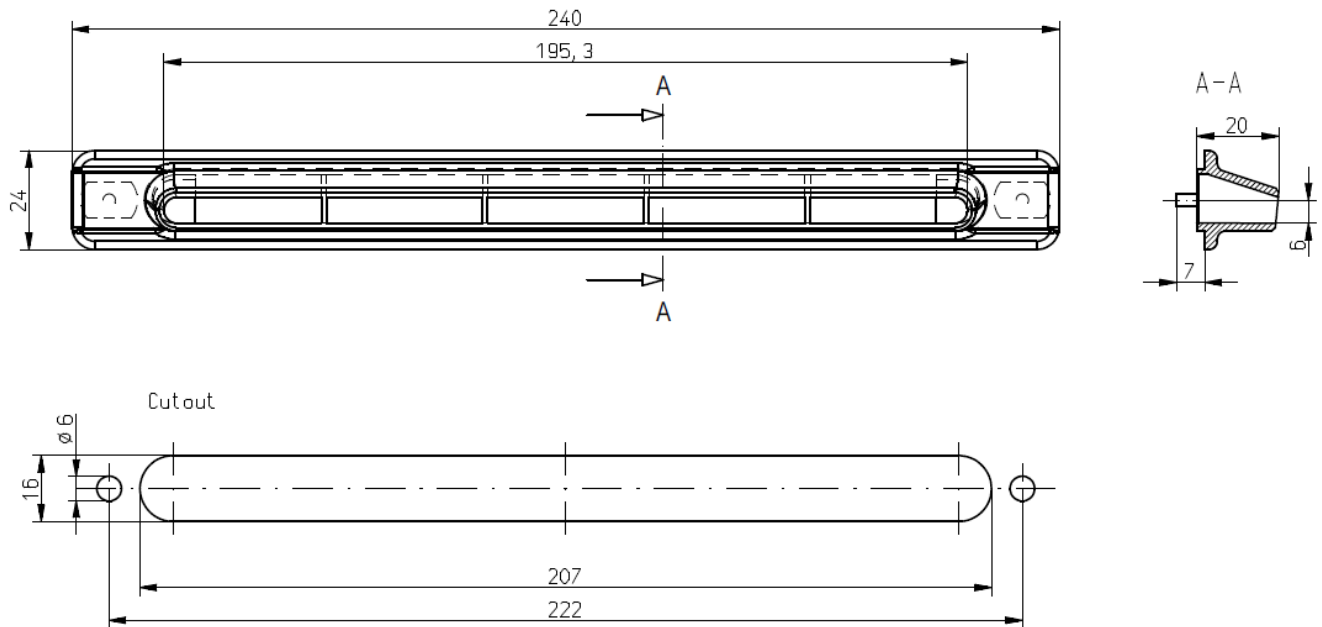
The *PD Nozzle* is a defrost louver designed to be installed close to the windshield. As a result of its slim profile, it is an excellent product to be incorporated into a dash board or headliner. Integrated guide vanes distribute optimal airflow along the surface. Various sizes are available upon request.

Material and Color	
ABS Plastic Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0323	
Variations	
Part Number	Description
334-150-0005	PD2 Long Louver



DEFROST LOUVERS

PD2 LOUVER LONG



DEFROST LOUVERS

PD SHORT

The *PD Short* is a defrost louver designed to be installed close to the windshield. As a result of its slim profile, it is an excellent product to be incorporated into a dash board or headliner. Integrated guide vanes distribute optimal airflow along the surface. Various sizes are available upon request.

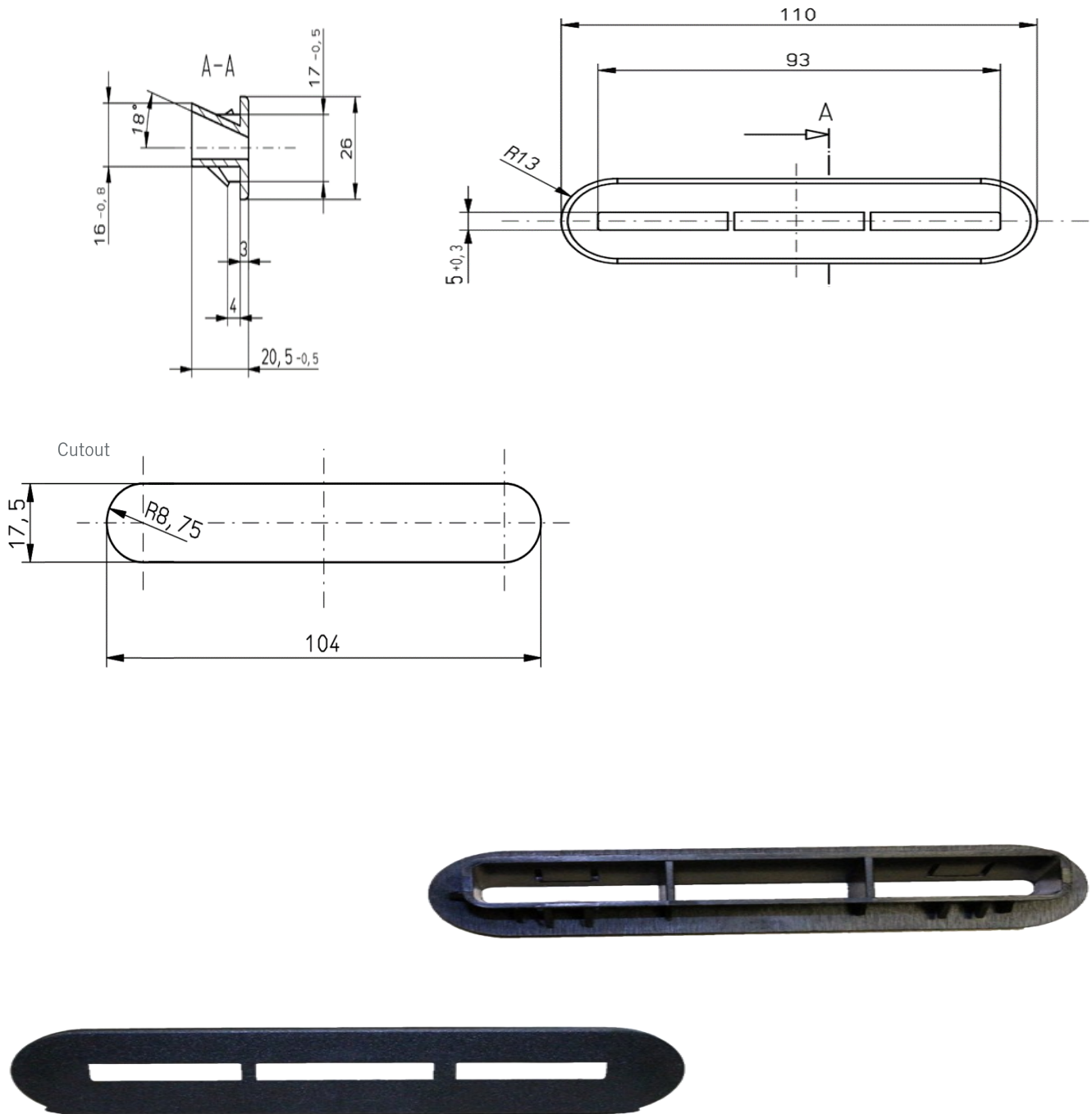
Material and Color	
ABS Plastic Standard Color: black, similar to RAL 9005	
Technical Information	
912-100-0323	
Variations	
Part Number	Description
334-150-0004	PD Short Louver



DEFROST LOUVERS

PD SHORT

Printed dimensions closely mimic actual piece size.



DEFROST LOUVERS

DOMINO

The *Domino* Louver's compact dimensions allow for ideal defrost applications. Their sleek design allows these louvers to adapt to the curve and width of any surface with minimal space requirements.

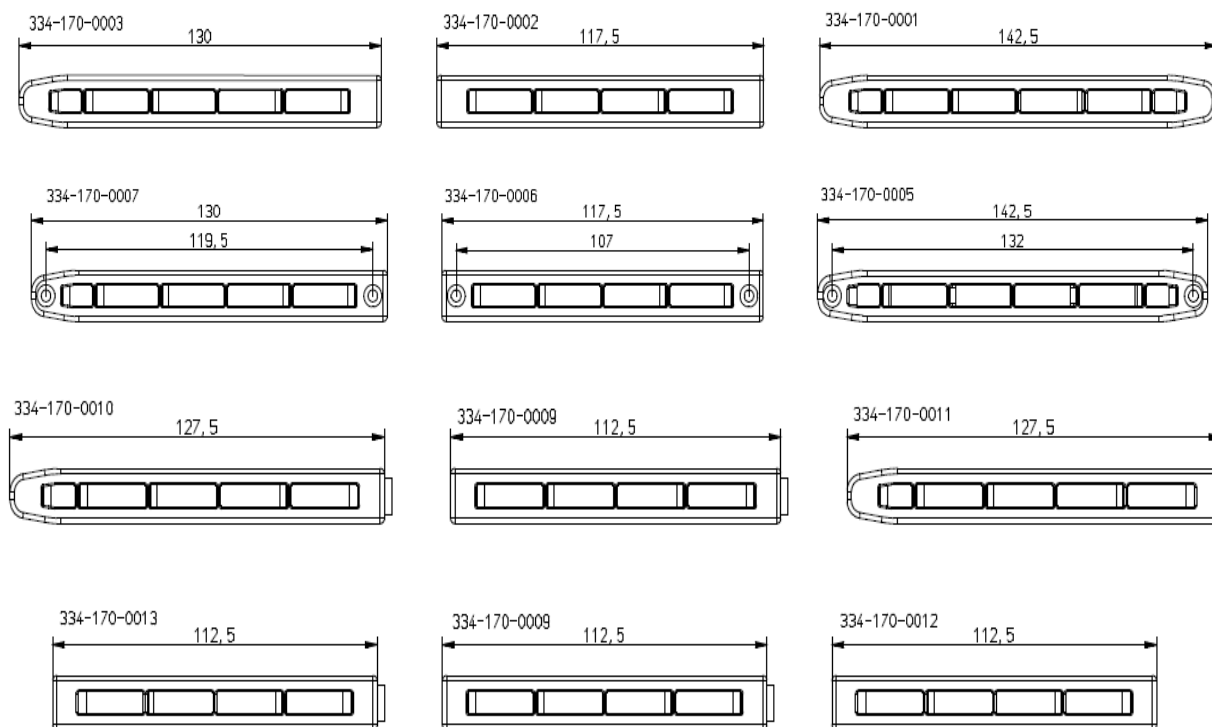
Domino louvers are optimal for bus and coach applications, as they can be stacked and chained in a tongue and groove system in order to distribute airflow over a larger surface area. *Domino* is available in both clip and screw versions with clip ranges between 2 mm and 5 mm.

Material and Color
Polyamide PA6 15% glass fiber reinforced Standard Color: black, similar to RAL 9005
Technical Information
912-100-0186
Variations
Please reference Drawings on page 129



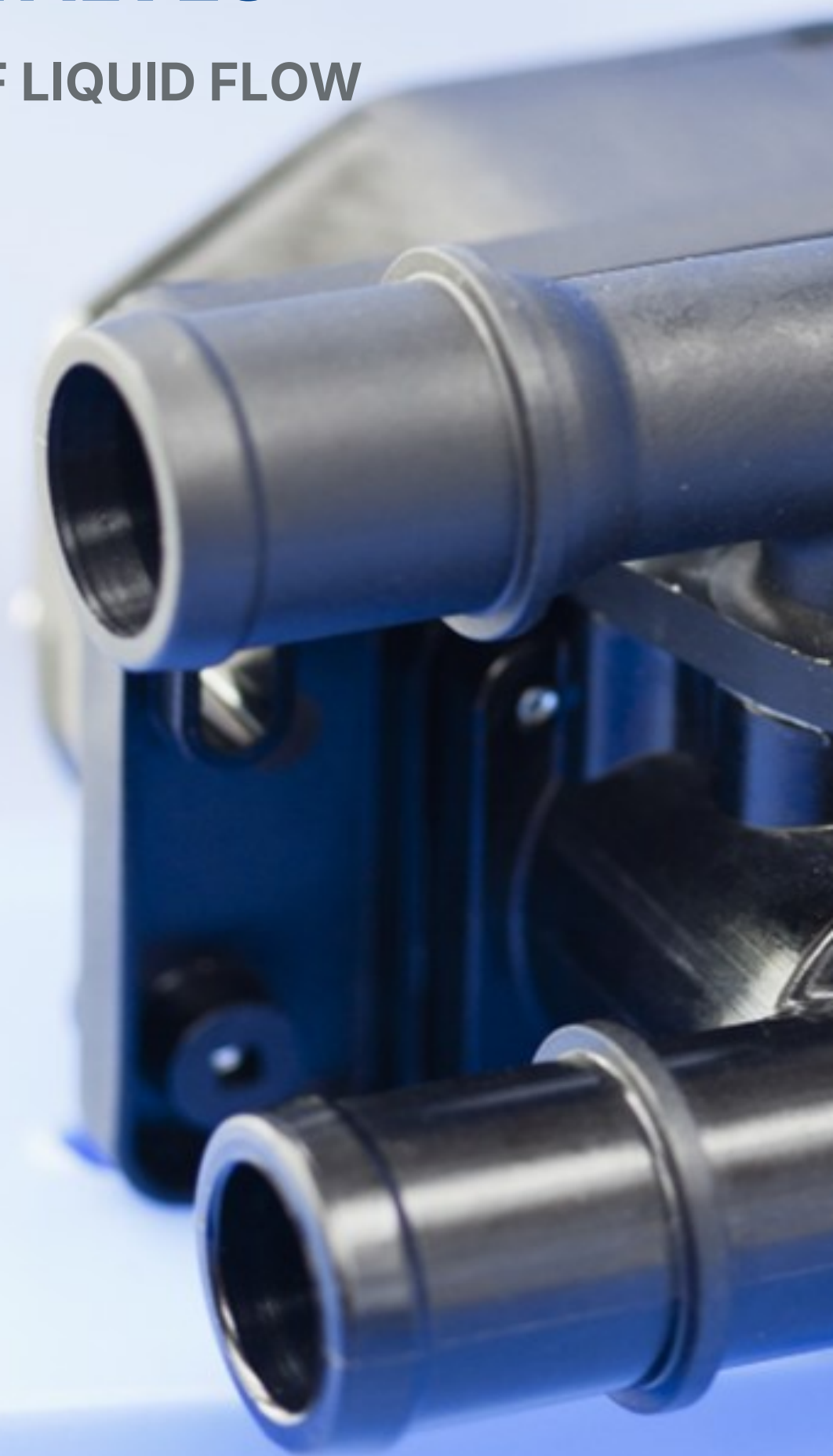
DEFROST LOUVERS

DOMINO



WATER VALVES

MASTERS OF LIQUID FLOW



AUROLA

/ Pioneering Your Comfort



WATER VALVES

MECHANICAL BOWDEN CABLE

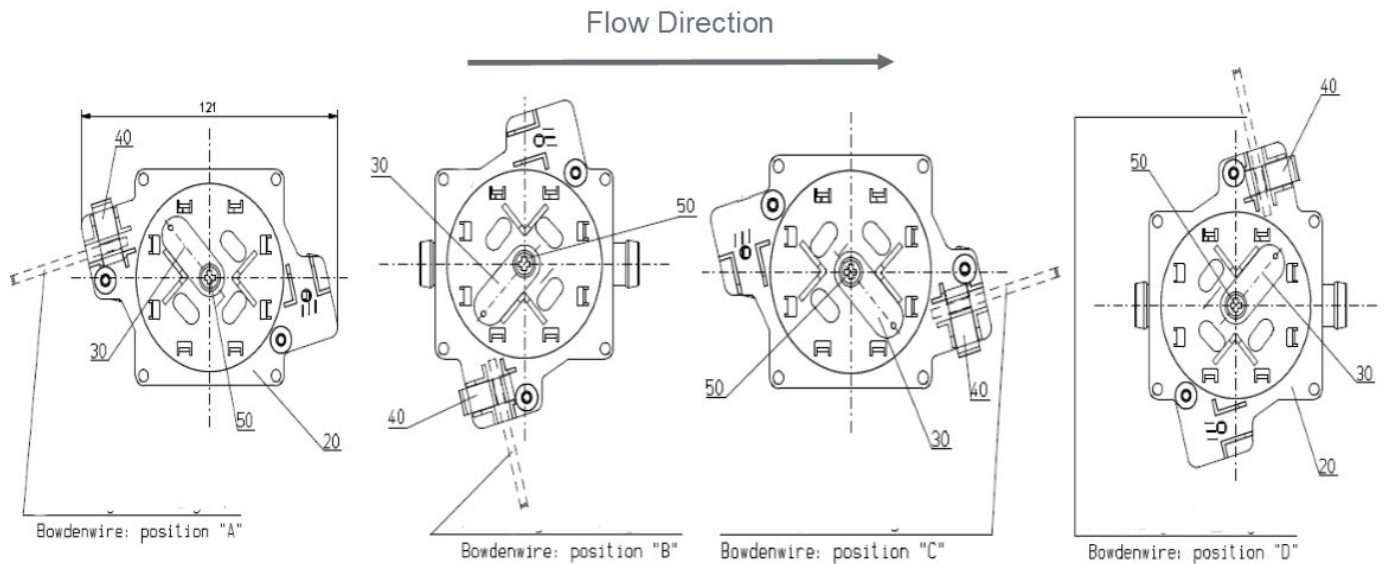
Mechanical Water Valves control the heating performance via easy adjustable Bowden Cables. Standard connection diameters are Ø 16 mm / 18 mm / 22 mm / 28 mm. Varied connecting diameters are also available upon request. This water valve has mostly linear operating characteristics, and operates efficiently with a minimum pressure loss. The valve housing is comprised of Polyamide 66 Material, providing AURORA's line of water valves with lightweight and non-corrodible qualities.

Specifications	
Flow medium: water with antifreeze (mixture ratio max. 1:1) Volumetric flow: 100-1.200 l/h Operating temperature range: -40°C to +100°C fluid temp. Environmental temperature range: -40°C to +85°C Nominal pressure of liquid: p = 1 bar relative Test pressure of the water valve: p1 = 2.5 bar absolute	
Technical Information	
912-100-0007	
Variations	
Part Number	Description
381-000-0141	Ø 16/16 with lever Bowden Wire Pos. A
381-000-0142	Ø 16/16 with lever Bowden Wire Pos. B
381-000-0143	Ø 16/16 with lever Bowden Wire Pos. C
381-000-0144	Ø 16/16 with lever Bowden Wire Pos. D
381-000-0145	Ø 22/22 with lever Bowden Wire Pos. A
381-000-0146	Ø 22/22 with lever Bowden Wire Pos. B
381-000-0147	Ø 22/22 with lever Bowden Wire Pos. C
381-000-0148	Ø 22/22 with lever Bowden Wire Pos. D
381-000-0149	Ø 28/28 with lever Bowden Wire Pos. A
381-000-0150	Ø 28/28 with lever Bowden Wire Pos. B
381-000-0151	Ø 28/28 with lever Bowden Wire Pos. C
381-000-0158	Ø 18/18 with lever Bowden Wire Pos. C



WATER VALVES

MECHANICAL BOWDEN CABLE



WATER VALVES

5 POLE WITH SERVO MOTOR

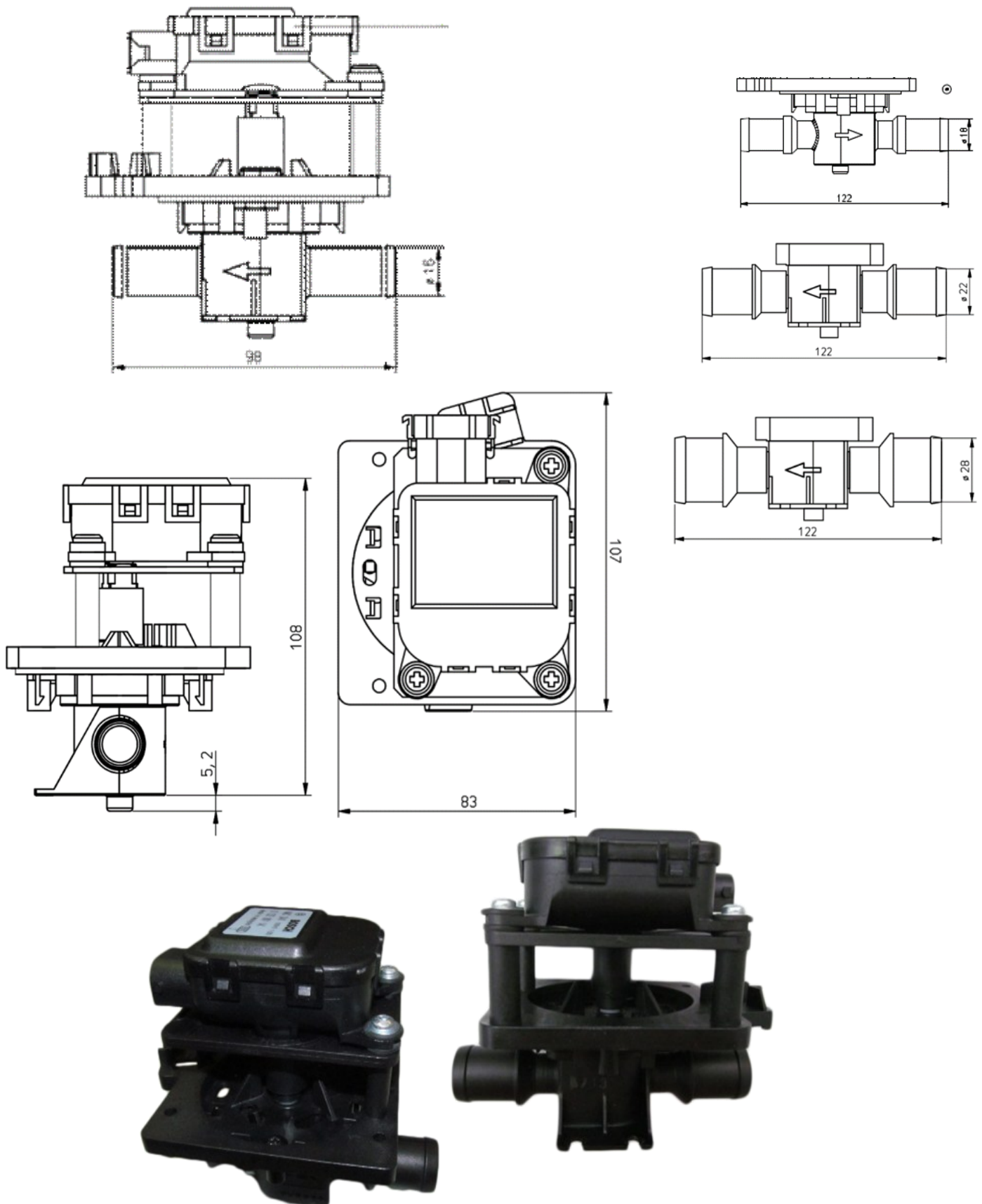
Electrical Water Valve with Servo Motor 5 Pole with varied diameters. Standard connection diameters are 16 mm / 18 mm / 22 mm / 28 mm. Control of this valve is steered by a 5-pole Servo Motor, providing easy adjustment of the heating performance. Varied connecting diameters are also available upon request. Servo Motors available in both 12 and 24 Volts. This water valve has mostly linear operating characteristics, and operates efficiently with minimum pressure loss. The valve housing is comprised of Polyamide 66 Material, giving AURORA's line of water valves with lightweight and non-corrodible qualities. providing AURORA's line of water valves with lightweight and non-corrodible qualities.

Specifications		
Flow medium: water with antifreeze with mix ratio max. 1:1 Volumetric flow: 100-1.200 l/h Operating temperature range: -40°C to +100°C fluid temperature Environmental temperature range: -40°C to +85°C Nominal pressure of the fluid: p = 1 bar relative Test pressure of the water valve p1 = 2.5 bar absolute		
Technical Information		
912-100-0007/421		
Variations		
Part Number	Diameter Ø	Voltage (V)
381-000-0312	16/16	24 V
381-000-0350	16/16	12 V
381-000-0318	22/22	24 V
381-000-0352	22/22	12 V
381-000-0319	28/28	24 V
381-000-0390	18/18	12 V
381-000-0339	18/18	24 V



WATER VALVES

5 POLE WITH SERVO MOTOR

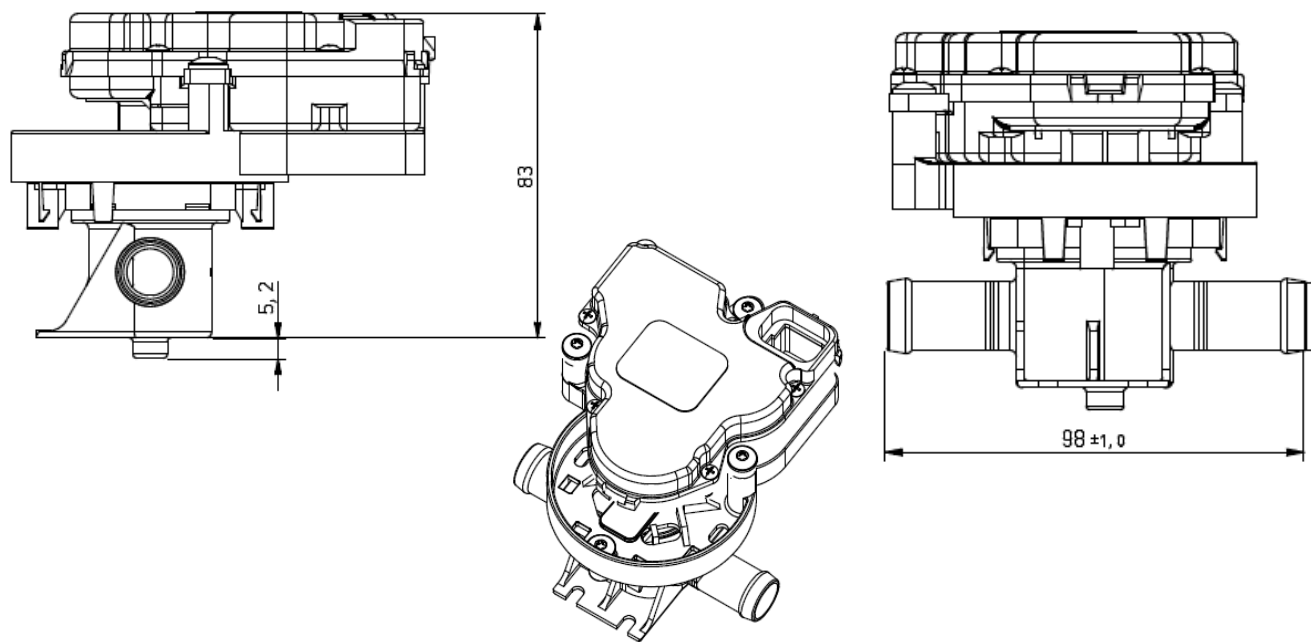


WATER VALVES

2-WAYS WITH 3 POLES SERVO MOTOR

Electrical Water Valve with Servo Motor 3 Pole with varied diameters. Control of this valve is direct by a control voltage to the Servo Motor, providing easy adjustment of the heating performance. Varied connecting diameters are also available upon request. This water valve has mostly linear operating characteristics, and operates efficiently with minimum pressure loss. The valve housing is comprised of Polyamide 66 Material.

Specifications		
Flow medium: water with antifreeze with mix ratio max. 1:1		
Volumetric flow: 100-1.200 l/h		
Operating temperature range: -40°C to +100°C fluid temperature		
Environmental temperature range: -40°C to +85°C		
Nominal pressure of the fluid: p = 1 bar relative		
Test pressure of the water valve p1 = 2.5 bar absolute		
Technical Information		
912-100-0007/0957		
Variations		
Part Number	Diameter Ø	Voltage (V)
381-000-0402	22/22	24 V
381-000-0451	16/16	12 V

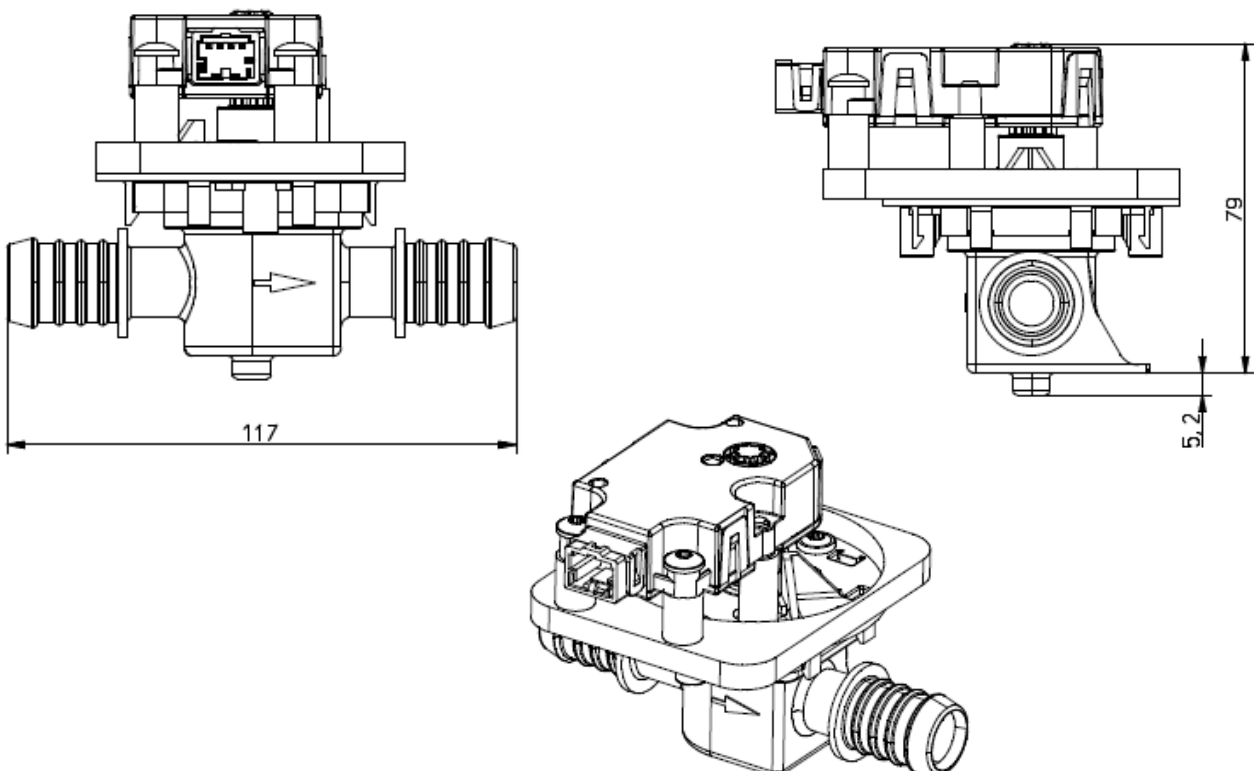


WATER VALVES

SERVO MOTOR LINBUS

Electrical Water Valve with Servo Motor LINBUS controlled. Control of this valve is by LINBUS signal, providing easy adjustment of the heating performance. Varied connecting diameters are also available upon request. This water valve has mostly linear operating characteristics, and operates efficiently with minimum pressure loss. The valve housing is comprised of Polyamide 66 Material.

Specifications		
Flow medium: water with antifreeze with mix ratio max. 1:1		
Volumetric flow: 100-1.200 l/h		
Operating temperature range: -40°C to +100°C fluid temperature		
Environmental temperature range: -40°C to +85°C		
Nominal pressure of the fluid: p = 1 bar relative		
Test pressure of the water valve p1 = 2.5 bar absolute		
Technical Information		
912-100-0007/0978		
Variations		
Part Number	Diameter Ø	Voltage (V)
381-000-0042	18/18	12 V



BEYOND HVAC SOLUTIONS

PIONEERING INTEGRATED THERMAL COMFORT

ENGINEERING PARTNERSHIP

At AURORA, pioneering HVAC solutions means more than delivering products. As a development and engineering company, we act as a long-term partner – involved from early concepts through series production.

INTEGRATED SYSTEM THINKING

We develop fully integrated HVAC systems, not isolated components. Airflow, performance, controls and energy efficiency are designed to work seamlessly within the vehicle architecture.

FROM CONCEPT TO LIFECYCLE

Our support extends across the entire lifecycle. From simulation-based design to validation and long-term reliability, we take responsibility for sustainable thermal comfort solutions.



LET'S PIONEER YOUR COMFORT

YOUR DIRECT LINE TO AURORA

GET IN TOUCH

Do you have questions, project ideas or specific requirements? At AURORA, we are always happy to hear from you and support you with the right expertise – from initial inquiries to integrated HVAC solutions.

SCAN TO CONNECT:

Scan the QR code to access our contact form and get in touch with AURORA. Simply select the appropriate department and reach out to us – we look forward to hearing from you.



Thank you. | Dankeschön. | Dank je. | Merci. | Teşekkür ederim. | 谢谢. | Gracias. | Obrigado.

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Any changes to any unforeseen errors in this Catalog will be corrected once realized. Illustrations and values are similar.
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