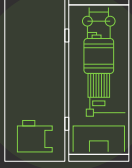




ARM PURIFICATION
BY APPLIED ENERGY SYSTEMS



NOVA™ Methane Purifier



Beta Product

SPECIFICATIONS

GASES PURIFIED

- Methane CH_4

DESIGN FLOW RATE

Up to 10 slpm

IMPURITIES REMOVED

- Moisture (H_2O)
- Oxygen (O_2)
- Nitrogen (N_2)

MAXIMUM PRESSURE

150 PSIG

FILTRATION

Standard 1.5 nm

HOUSING MATERIAL

316L Stainless Steel

MANUAL BYPASS

1/4" MVCR INLET, OUTLET, AND PURGE INLET

EXHAUSTED ENCLOSURE

Beta products are a matter of active research and development. Beta purifiers are considered to be prototypes until the expected performance can be empirically validated as actual.

Nova Series Key Features & Applications

EASE OF INSTALLATION

Offers a panel within a **compact, vented enclosure alongside an attached heater controller and remote electronics** for ease of installation.

SAFETY FEATURES

Includes **Argon purge connection and pressure relief device**.

QUALITY MATERIALS

Utilizes high purity **316L stainless steel with electropolished wetted surfaces**.

FLEXIBLE POWER OPTIONS

Integrates with several power input options **(for international use)**.

FLOW RATE VERSATILITY

Allows for **flow rates of up to 10 slpm**.

APPLICATIONS

The Nova™ Series Purifiers are optimized for a variety of high-precision applications, including:

- Semiconductors & Electronics
- Clean Energy & Solar
- Pharmaceuticals & Biotechnology
- Industrial Manufacturing
- Universities & Research Labs
- Diamond Manufacturing

Nova Series Power Options

POWER RECEPTACLE REQUIREMENTS

All NOVA models are for use with single-phase power sources only and require properly grounded and polarized receptacles as shown in the diagrams below.

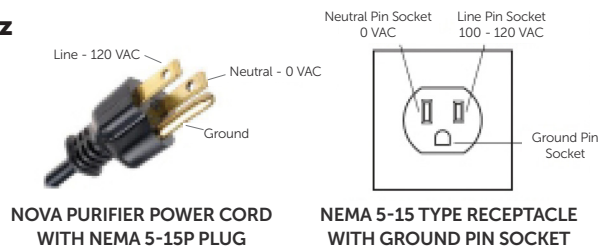
Before plugging in the power cord, verify that power receptacle AC voltage and polarity is correct by measuring voltage with a voltmeter. Measure 0 volts between Neutral and Ground. Measure Line voltage shown between Line and Ground. Incorrect voltage or polarity will damage the Purifier electronic controls or may prevent the purifier from heating correctly.

100-120 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -115N



NOVA PURIFIER POWER CORD WITH NEMA 5-15P PLUG

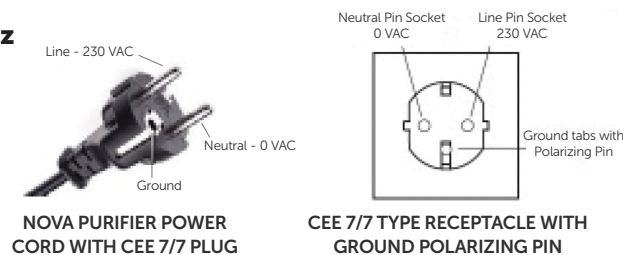
NEMA 5-15 TYPE RECEPTACLE WITH GROUND PIN SOCKET

220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230C



NOVA PURIFIER POWER CORD WITH CEE 7/7 PLUG

CEE 7/7 TYPE RECEPTACLE WITH GROUND POLARIZING PIN

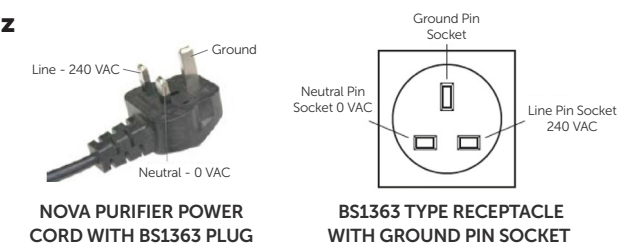
NOTE: Use of non-polarized receptacles such as CEE 7/4 (Schuko) type is not permitted and will damage the Purifier electronic controls if incorrect polarity is encountered.

220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230B

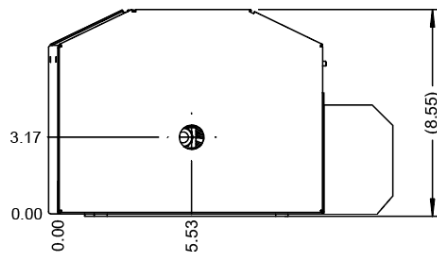
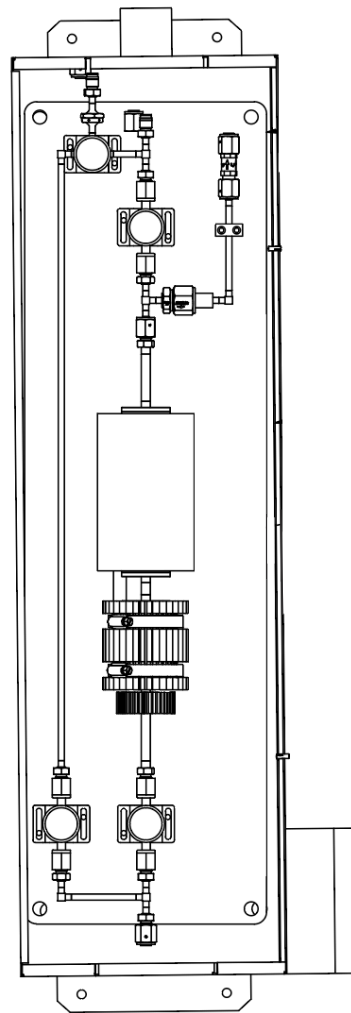
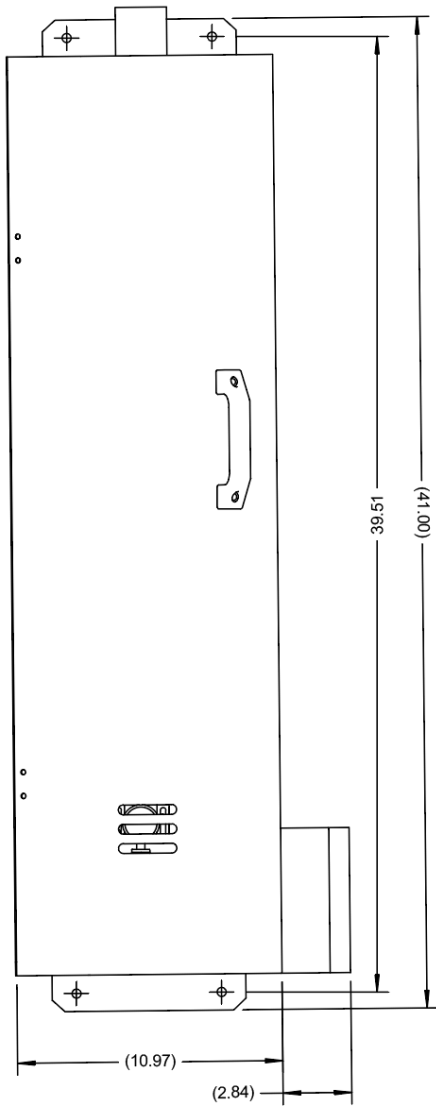
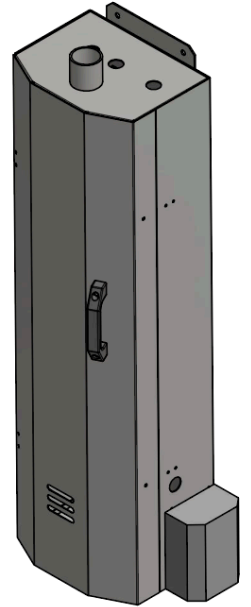
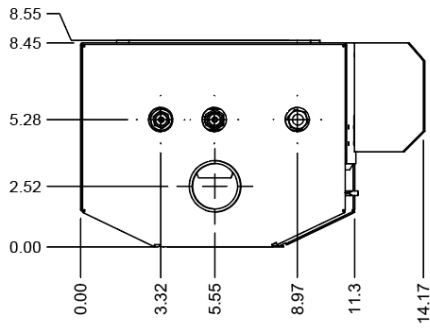


NOVA PURIFIER POWER CORD WITH BS1363 PLUG

BS1363 TYPE RECEPTACLE WITH GROUND PIN SOCKET

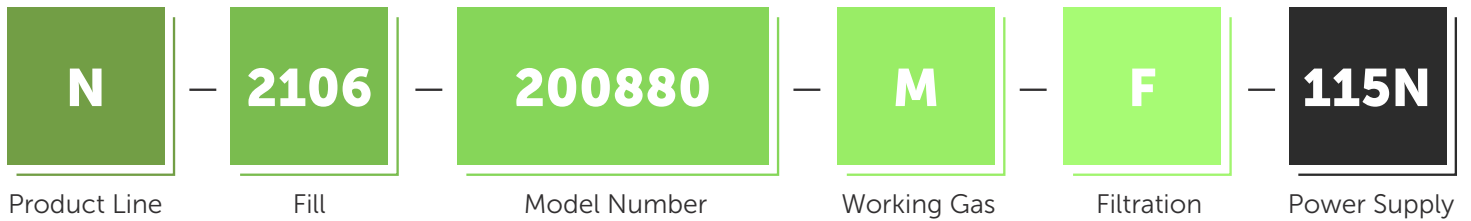
NOTE: Purifier power cord plug also includes a replaceable 13A safety fuse.

Nova Series Dimensions



Nova Series Ordering Information

Example: NOVA Methane Purifier



Product Line

N - Nova Series

Fill*

2106 - Methane Media

*Other options available for rare gases and nitrogen.

Model Number

200880 - For flow rates up to 10 slpm

Working Gas

M - Methane CH₄

Filtration

F - 1.5 nm filter

Power Supply

115N - 115V with Nema plug
 230C - 230V with CEE 7/7 plug
 230B - 230V with BS 1363 plug

DON'T SEE WHAT YOU NEED?

Speak to our team about your requirements and we can work with you to identify the purifier solution best suited for your application.

Place an Order

orders@appliedenergysystems.com

Contact your ARM Purification sales rep or visit armpurification.com/request-quote/



ARM PURIFICATION
 BY APPLIED ENERGY SYSTEMS

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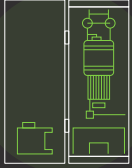


www.appliedenergysystems.com

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 610.647.8744
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ARM PURIFICATION
BY APPLIED ENERGY SYSTEMS



NOVA™ Nitrogen Gas Purifier

Heated Getter Technology



SPECIFICATIONS

GASES PURIFIED

- Nitrogen (N₂) and Nitrogen Mixtures

DESIGN FLOW RATE

Up to 10 slpm

IMPURITIES REMOVED

- Oxygen (O₂) < 1 ppb
- Carbon Monoxide (CO) < 1 ppb
- Carbon Dioxide (CO₂) < 1 ppb
- THC (as CH₄) < 1 ppb
- Moisture (H₂O) < 1 ppb
- Hydrogen (H₂) < 1 ppb

MAXIMUM PRESSURE

150 PSIG

FILTRATION

Standard 1.5 nm

HOUSING MATERIAL

316L Stainless Steel

MANUAL BYPASS

LIFETIME INDICATOR

REMOTE ELECTRONICS

Nova Series Key Features & Applications

OPTIMIZED DESIGN

Leverages **front panel status indicators** and a preset temperature controller.

EASE OF INSTALLATION

Offers a **compact, sturdy steel-vented enclosure, and a wall-mountable panel** for ease of installation.

QUALITY MATERIALS

Utilizes high purity **316L stainless steel with electropolished wetted surfaces.**

FLEXIBLE POWER OPTIONS

Integrates with a number of power input options **(for international use).**

FLOW RATE VERSATILITY

Allows for **flow rates of up to 10 slpm.**

APPLICATIONS

The Nova™ Series Purifiers are optimized for a variety of high-precision applications, including:

- Semiconductors & Electronics
- Clean Energy & Solar
- Pharmaceuticals & Biotechnology
- Industrial Manufacturing
- Universities & Research Labs

Nova Series Power Options

POWER RECEPTACLE REQUIREMENTS

All NOVA models are for use with single-phase power sources only and require properly grounded and polarized receptacles as shown in the diagrams below.

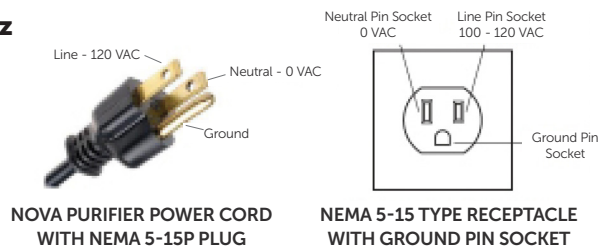
Before plugging in the power cord, verify that power receptacle AC voltage and polarity is correct by measuring voltage with a voltmeter. Measure 0 volts between Neutral and Ground. Measure Line voltage shown between Line and Ground. Incorrect voltage or polarity will damage the Purifier electronic controls or may prevent the purifier from heating correctly.

100-120 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -115N

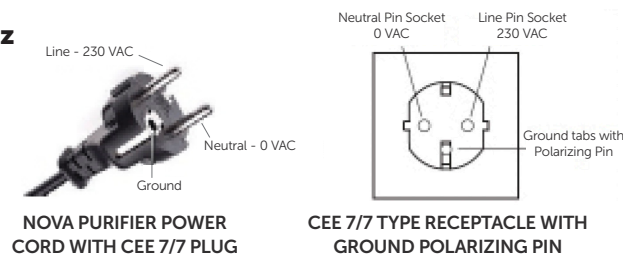


220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230C



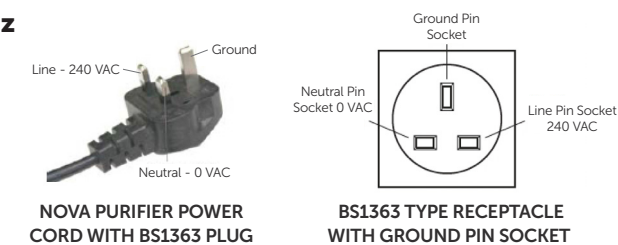
NOTE: Use of non-polarized receptacles such as CEE 7/4 (Schuko) type is not permitted and will damage the Purifier electronic controls if incorrect polarity is encountered.

220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

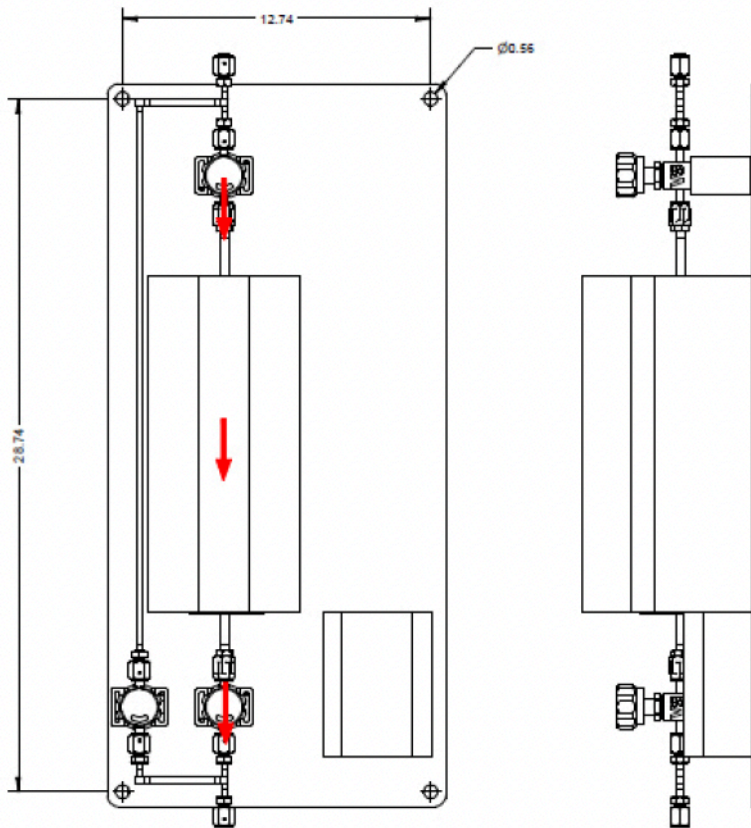
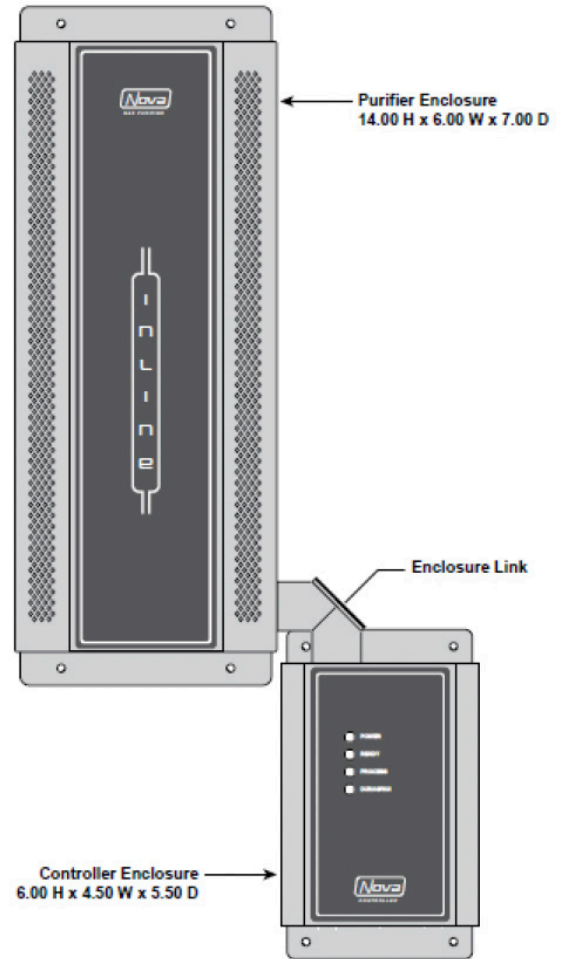
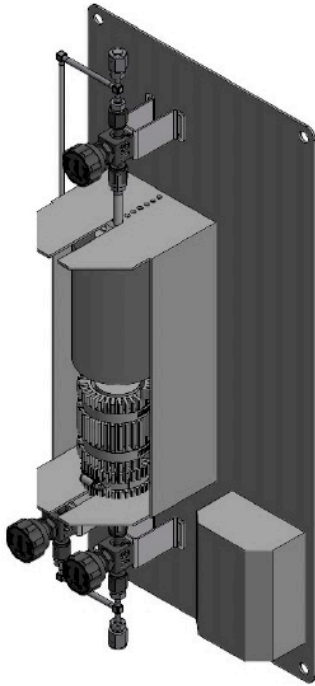
REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230B



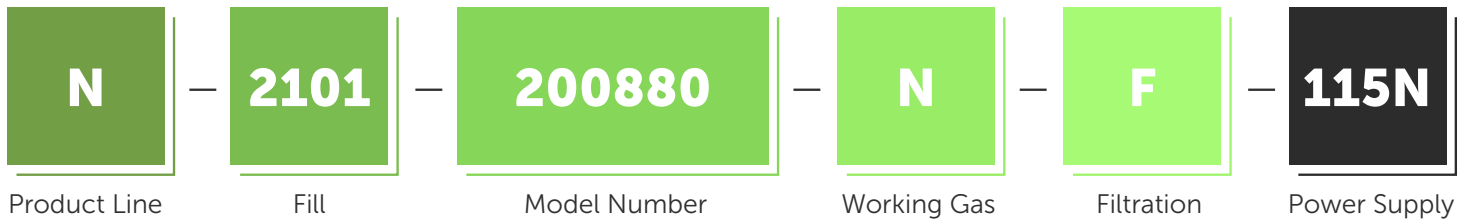
NOTE: Purifier power cord plug also includes a replaceable 13A safety fuse.

Nova Series Dimensions



Nova Series Ordering Information

Example: NOVA Nitrogen Gas Purifier



Product Line

N - Nova Series

Fill*

2101 - Nitrogen Gas Media

*Other options available for rare gases and methane.

Model Number

200880 - For flow rates up to 10 slpm

Working Gas

N - Nitrogen Gas

Filtration

F - 1.5 nm filter

Power Supply

115N - 115V with Nema plug
 230C - 230V with CEE 7/7 plug
 230B - 230V with BS 1363 plug

DON'T SEE WHAT YOU NEED?

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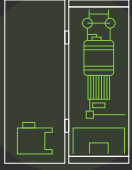


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purification@appliedenergysystems.com
www.armpurification.com



ARM PURIFICATION
BY APPLIED ENERGY SYSTEMS



NOVA™ Rare Gas Purifier

Heated Getter Technology



SPECIFICATIONS

GASES PURIFIED

- Ar, He, Ne, Xe, Kr

DESIGN FLOW RATE

Up to 10 slpm

IMPURITIES REMOVED

- Oxygen (O₂) < 1 ppb
- Carbon Monoxide (CO) < 1 ppb
- Carbon Dioxide (CO₂) < 1 ppb
- THC (as CH₄) < 1 ppb
- Moisture (H₂O) < 1 ppb
- Hydrogen (H₂) < 1 ppb
- Nitrogen (N₂) < 1 ppb

MAXIMUM PRESSURE

150 PSIG

FILTRATION

Standard 1.5 nm

HOUSING MATERIAL

316L Stainless Steel

MANUAL BYPASS

LIFETIME INDICATOR

REMOTE ELECTRONICS

Nova Series Key Features & Applications

OPTIMIZED DESIGN

Leverages **front panel status indicators** and a preset temperature controller.

EASE OF INSTALLATION

Offers a **compact, sturdy steel-vented enclosure, and a wall-mountable panel** for ease of installation.

QUALITY MATERIALS

Utilizes high purity **316L stainless steel with electropolished wetted surfaces.**

FLEXIBLE POWER OPTIONS

Integrates with a number of power input options (**see below**).

FLOW RATE VERSATILITY

Allows for **flow rates of up to 10 slpm.**

APPLICATIONS

The Nova™ Series Purifiers are optimized for a variety of high-precision applications, including:

- Semiconductors & Electronics
- Clean Energy & Solar
- Pharmaceuticals & Biotechnology
- Industrial Manufacturing
- Universities & Research Labs

Nova Series Power Options

POWER RECEPTACLE REQUIREMENTS

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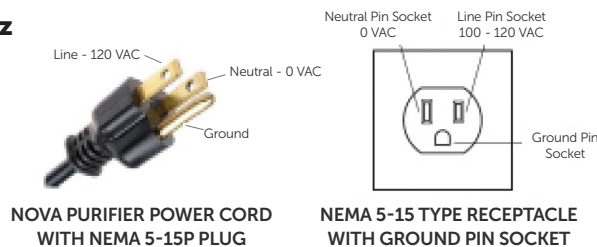
Before plugging in the power cord, verify that power receptacle AC voltage and polarity is correct by measuring voltage with a voltmeter. Measure 0 volts between Neutral and Ground. Measure Line voltage shown between Line and Ground. Incorrect voltage or polarity will damage the Purifier electronic controls or may prevent the purifier from heating correctly.

100-120 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -115N



NOVA PURIFIER POWER CORD WITH NEMA 5-15P PLUG

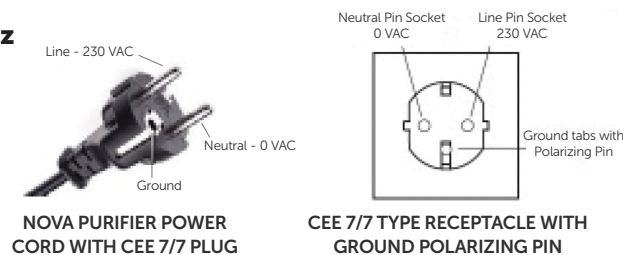
NEMA 5-15 TYPE RECEPTACLE WITH GROUND PIN SOCKET

220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230C



NOVA PURIFIER POWER CORD WITH CEE 7/7 PLUG

CEE 7/7 TYPE RECEPTACLE WITH GROUND POLARIZING PIN

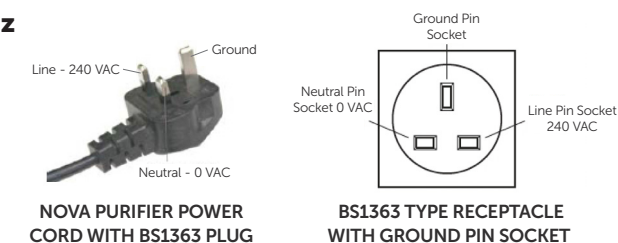
NOTE: Use of non-polarized receptacles such as CEE 7/4 (Schuko) type is not permitted and will damage the Purifier electronic controls if incorrect polarity is encountered.

220-240 VAC, 1 Ø, 50-60 Hz

POWER FUSE INSTALLED: 10A

REQUIRES GROUNDED AND POLARIZED RECEPTACLE

MODEL -230B

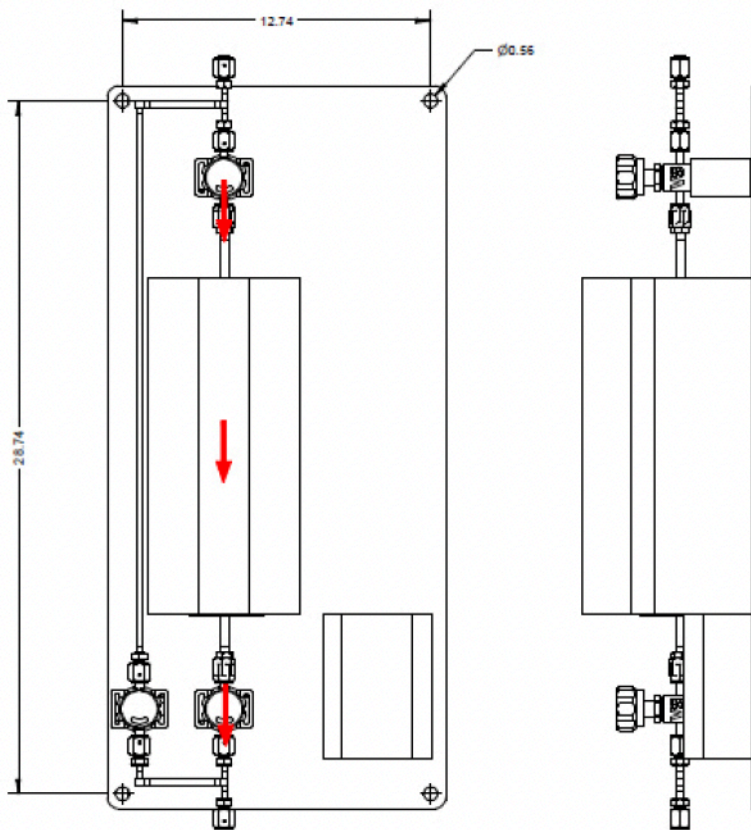
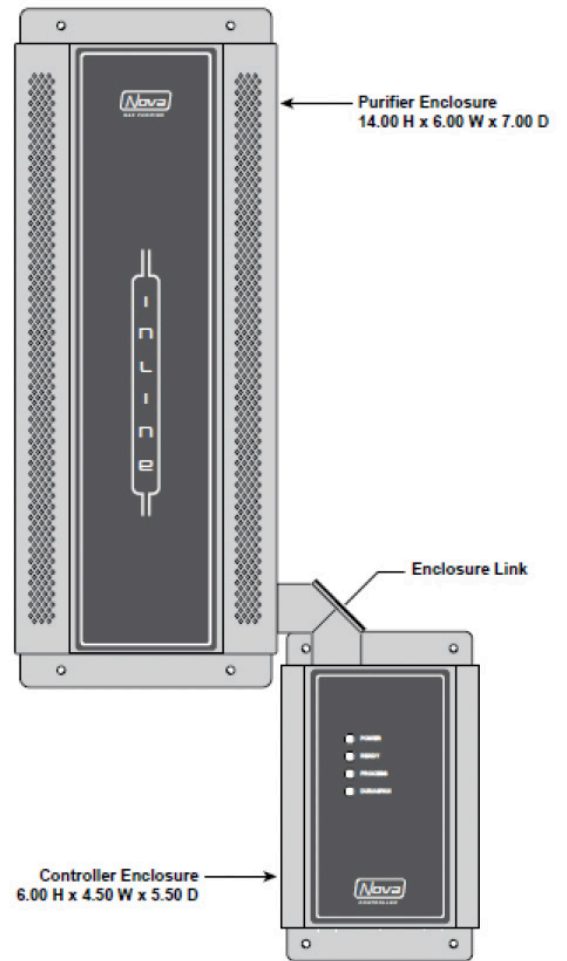
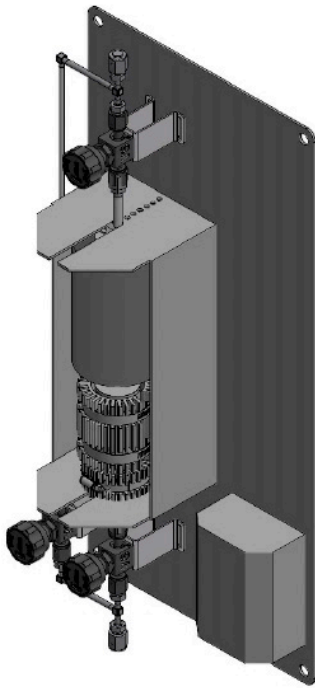


NOVA PURIFIER POWER CORD WITH BS1363 PLUG

BS1363 TYPE RECEPTACLE WITH GROUND PIN SOCKET

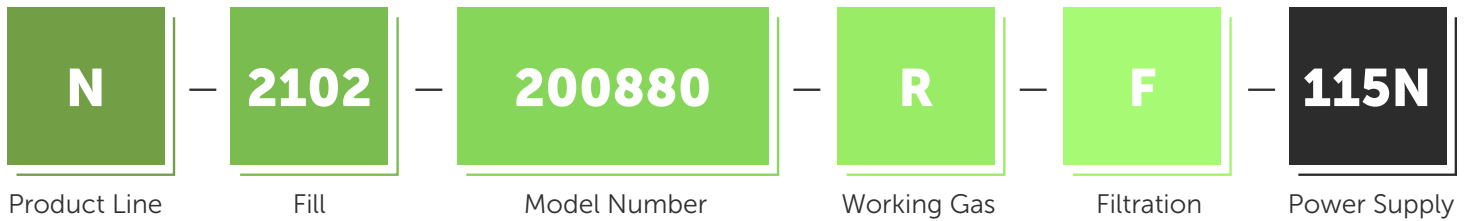
NOTE: Purifier power cord plug also includes a replaceable 13A safety fuse.

Nova Series Dimensions



Nova Series Ordering Information

Example: NOVA Rare Gas Purifier



Product Line

N - Nova Series

Fill*

2102 - Rare Gas Media

*Other options available for nitrogen and methane.

Model Number

200880 - For flow rates up to 10 slpm

Working Gas

R - Rare Gases that contain < 10ppm N₂

Filtration

F - 1.5 nm filter

Power Supply

115N - 115V with Nema plug
230C - 230V with CEE 7/7 plug
230B - 230V with BS 1363 plug

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