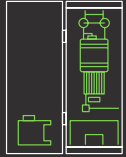


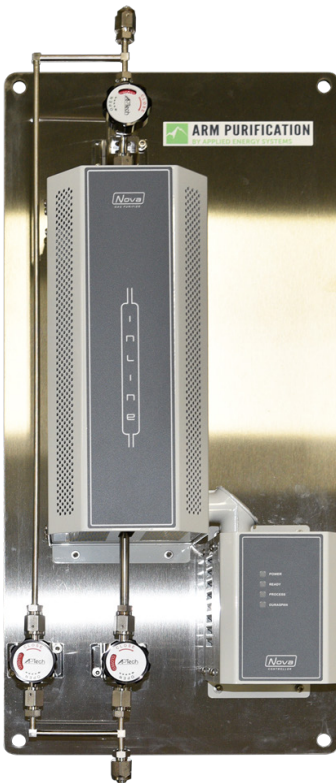


**ARM PURIFICATION**  
BY APPLIED ENERGY SYSTEMS



# NOVA™ Nitrogen Gas Purifier

## Heated Getter Technology



### SPECIFICATIONS

#### GASES PURIFIED

- Nitrogen (N<sub>2</sub>) and Nitrogen Mixtures

#### DESIGN FLOW RATE

up to 10 slpm

#### IMPURITIES REMOVED

- Oxygen (O<sub>2</sub>) < 1 ppb
- Carbon Monoxide (CO) < 1 ppb
- Carbon Dioxide (CO<sub>2</sub>) < 1 ppb
- THC (as CH<sub>4</sub>) < 1 ppb
- Moisture (H<sub>2</sub>O) < 1 ppb
- Hydrogen (H<sub>2</sub>) < 1 ppb

#### MAXIMUM PRESSURE

150 PSIG

#### FILTRATION

Standard 1.5 nm

#### HOUSING MATERIAL

316L Stainless Steel

#### MANUAL BYPASS VALVES INCLUDED

#### LIFETIME INDICATOR

#### REMOTE ELECTRONICS



**ARM PURIFICATION**  
BY APPLIED ENERGY SYSTEMS

BROUGHT TO YOU BY

**APPLIED ENERGY SYSTEMS**

[www.appliedenergysystems.com](http://www.appliedenergysystems.com)

180 Quaker Lane  
Malvern, PA 19355  
610.647.8744

[purification@appliedenergysystems.com](mailto:purification@appliedenergysystems.com)

[www.armpurification.com](http://www.armpurification.com)

# Nova Series Key Features & Applications

## Flow Rate Versatility

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

## Quality Materials

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

## 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.

## Flexible Power Options

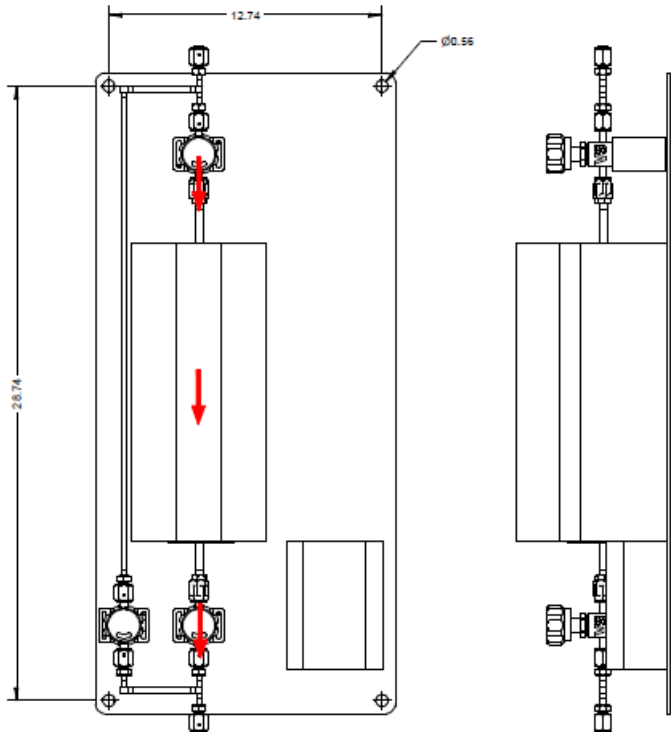
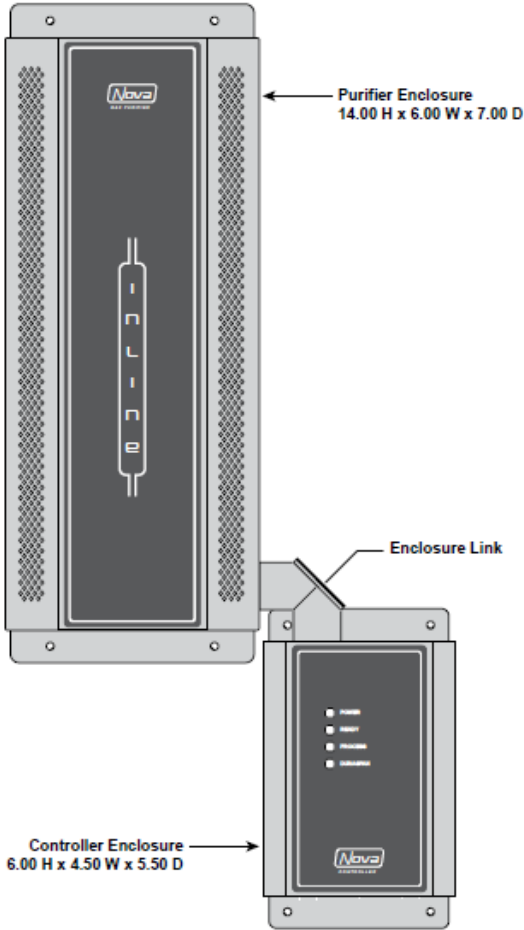
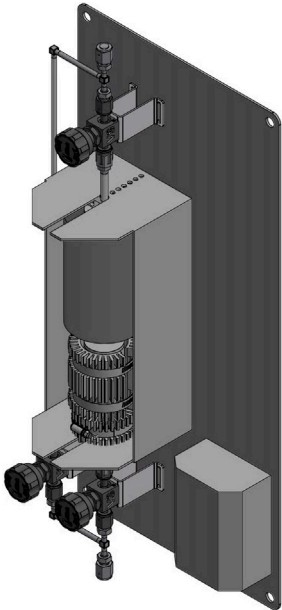
Integrates with a number of power input options (see **page 4**).

## 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 Dimensions



# Nova Series Power Options

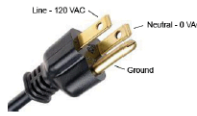
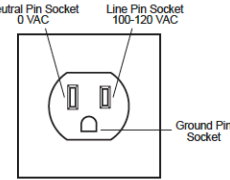
## Power Receptacle Requirements

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: 5 A**  
**REQUIRES GROUNDED AND POLARIZED RECEPTACLE**


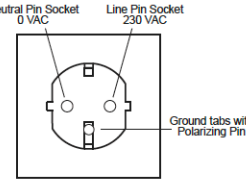
**NOVA PURIFIER POWER CORD WITH NEMA 5-15P PLUG**

**NEMA 5-15 TYPE RECEPTACLE WITH GROUND PIN SOCKET**

**220-240 VAC, 1 Ø, 50-60 Hz**

**POWER FUSE INSTALLED: 2.5 A**  
**REQUIRES GROUNDED AND POLARIZED RECEPTACLE**

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

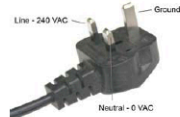
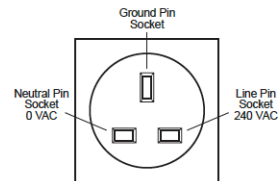
**NOVA PURIFIER POWER CORD WITH CEE 7/7 PLUG**

**CEE 7/7 TYPE RECEPTACLE WITH GROUND POLARIZING PIN**

**220-240 VAC, 1 Ø, 50-60 Hz**

**POWER FUSE INSTALLED: 2.5 A**  
**REQUIRES GROUNDED AND POLARIZED RECEPTACLE**

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

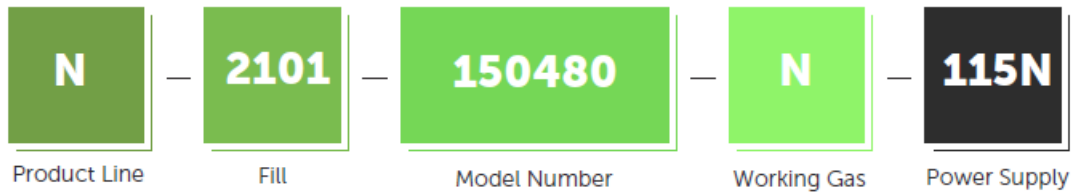
**NOVA PURIFIER POWER CORD WITH BS1363 PLUG**

**BS1363 TYPE RECEPTACLE WITH GROUND PIN SOCKET**

# Nova Series Ordering Information

## ORDERING INFORMATION

Example: NOVA Nitrogen Gas Purifier



### Product Line

N - Nova Series

### Working Gas

N - Nitrogen Gas

### Fill\*

2101 - Nitrogen Gas Media

### Power Supply

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

### Model Number

150480 - for flow rates up to 5 slpm  
200880 - for flow rates up to 10 slpm

\* Other options available for rare gases and hydrogen.

## 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](mailto:orders@appliedenergysystems.com)

Contact your ARM Purification sales rep or visit [armpurification.com/request-quote/](http://armpurification.com/request-quote/)



**ARM PURIFICATION**  
BY APPLIED ENERGY SYSTEMS

BROUGHT TO YOU BY



[www.appliedenergysystems.com](http://www.appliedenergysystems.com)

180 Quaker Lane  
Malvern, PA 19355  
610.647.8744  
[purification@appliedenergysystems.com](mailto:purification@appliedenergysystems.com)  
[www.armpurification.com](http://www.armpurification.com)