

Armstrong STRATACLEAN IQ™ Air Filtration System

Assembly and Installation Instructions

1. GENERAL

1.1 Product Overview

Read and Save These Instructions

Warning! To reduce the risk of fire, electrical shock, or injury to persons, observe the following:

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact Armstrong World Industries.
- Disconnect the unit from the electrical power source before attempting any service. Electrical service should be performed by a licensed electrician or authorized service technician.
- When performing any type of maintenance on StrataClean IQ™, be careful to reduce the entrainment of dirt, dust, and debris that may be present in the unit's external environment.

1.2 Before You Start

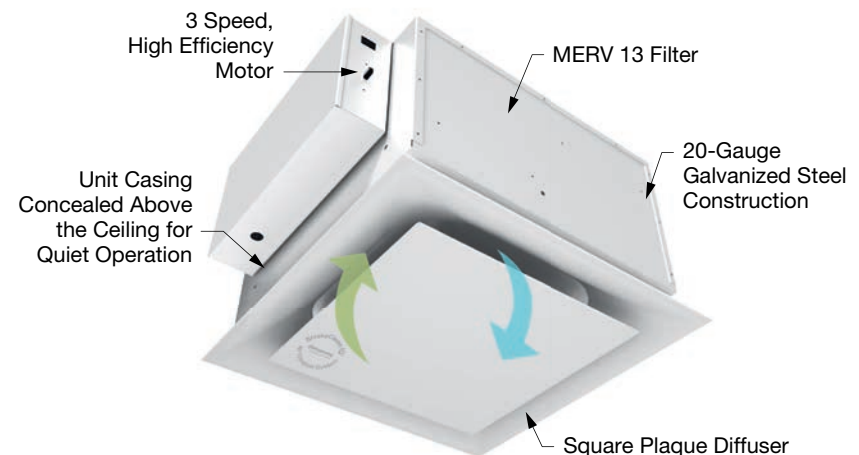
Shipping Information

Inspect all cartons and boxes for flaws and shipping damages. If anything is discovered to be damaged, contact the shipping company and file a freight claim.

Filter Information

Ensure that any additional MERV 13 filters are stored in a clean, dry location in a vertical position, as labeled on the carton. Do not open any additional MERV 13 filters until they are ready to be installed in the StrataClean IQ units. All construction in the space should be complete, the site should be clean so as not to unnecessarily load the filter.

NOTE: Extreme caution should be taken to avoid contact with filter media. Touching filter media may result in filter failure. Damage to filters can occur during installation. Armstrong World Industries cannot accept responsibility for damage that occurs after shipment, whether through transit, handling or installation, and will not replace filters under Armstrong standard warranty.



1.3 Introduction

The Armstrong StrataClean IQ™ Air Filtration System is an ideal option for discretely improving indoor air quality, particularly in high-density areas like office spaces, classrooms, fitness centers, retail stores and restaurants. It is designed to run continuously or on an operating schedule to cycle air through a MERV 13 filter, capturing contaminants, allergens, and particulates to create cleaner, healthier, indoor air quality. It is an excellent retrofit solution in existing spaces as it can be installed in any 24" x 24" ceiling grid with no modifications to existing HVAC system required.

StrataClean IQ can be integrated into the lighting controls to save energy and maximize clean air while the space is occupied.

2. INSTALLATION INSTRUCTIONS

To install and utilize the StrataClean IQ™ unit, it must be unboxed and placed in its upright position with the square plaque diffuser facing downwards to the space. The unit can be installed in any standard 24" x 24" ceiling grid.

The StrataClean IQ unit is furnished with a C13 power plug that can be connected directly to a 120V power supply once unit is installed. (Fig 1)

2.1 Module Installation

The Armstrong StrataClean IQ™ Air Filtration System will come completely assembled from the factory with the exception of the hanger brackets which will ship attached to the side of the equipment. **NOTE:** StrataClean IQ has a height of 15.4" and will not fit in shallow plenums.

STEP 1: Remove StrataClean IQ from shipping carton and inspect for any damage.

STEP 2: Install the hanger brackets to the 4 corners of the unit. Two (2) hangers should be installed on the side of the unit housing the electrical enclosure. (Fig 2) Two (2) hangers should be installed on the opposite side. (Holes for hanger brackets are not predrilled. Self tapping screws can be used to drill holes in the unit to install hanger brackets.)

STEP 3: Raise the unit through the ceiling grid at an angle until entire unit is above the grid.

STEP 4: Lower unit onto the backside of the tees.

STEP 5: Secure the unit to the overhead structure using the installed hanger brackets located on the unit. Common installation will include threaded rod suspended from slotted strut channel.

STEP 6: Adjust and level the unit so that it rests on the tees and there is adequate compression to warrant a tight seal.

Above steps are manufacturer's suggested hanging techniques; always make sure to follow all local building codes, including seismic where applicable.



StrataClean IQ Power Plug

(Fig 1)



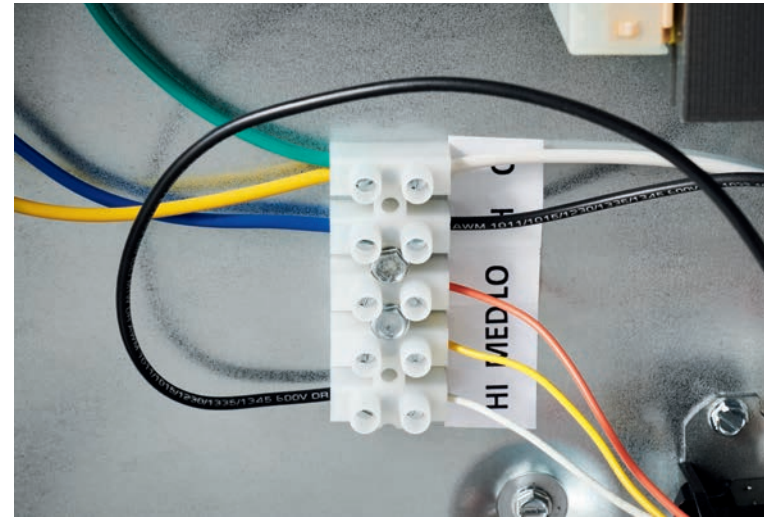
Hangers on Electrical Enclosure Side of Unit

(Fig 2)

2.2 Airflow Balancing

The StrataClean IQ™ is furnished with a motor with three different speed settings. The unit can be adjusted to the low, medium, or high flow speed setting by moving the power supply wire (black) to the appropriate HI, MED, or LO terminal block location. (Fig 3)

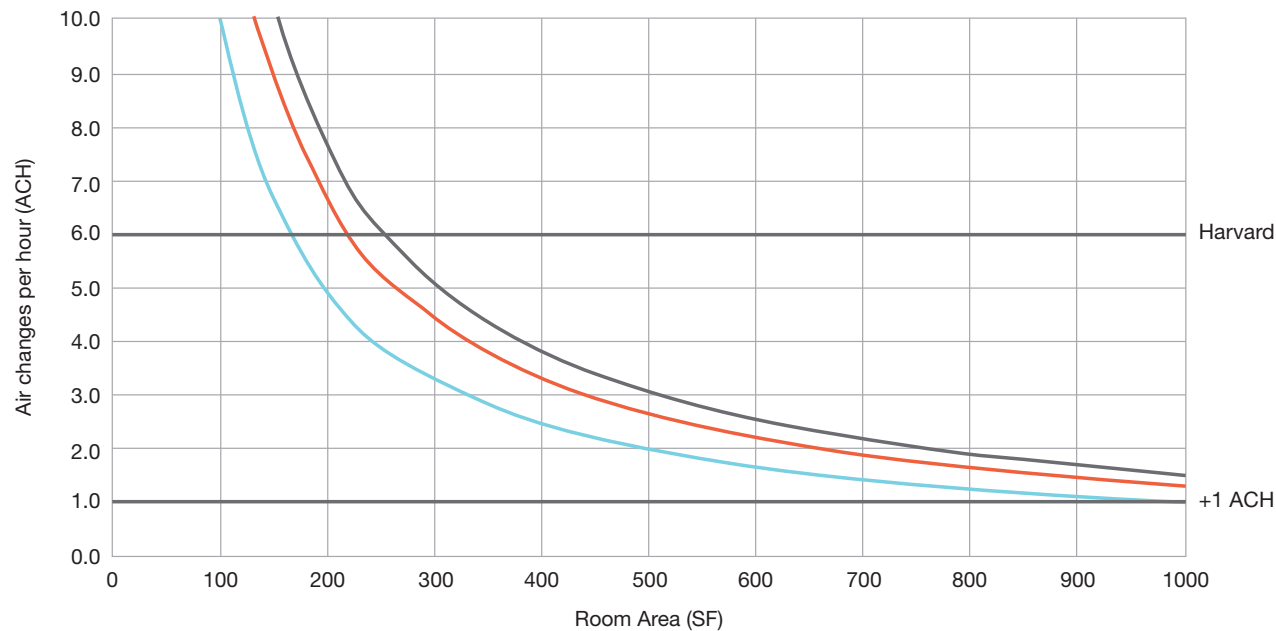
To determine required airflow based on air change requirements per room area, reference the “StrataClean IQ Air Changes per Hour by Room Area” chart below. (Fig 4)



Air Flow Speed Terminal Block

(Fig 3)

STRATACLEAN IQ AIR CHANGES PER HOUR BY ROOM AREA



Fan Speed	CFM	dBA	Wattage
Low	150	29	15 W
Medium	200	34	21 W
High	230	37	26 W

FULL LOAD
115V: 3.5 Amps

(Fig 4)

2.3 Filter Replacement

STEP 1: Disconnect power provided to the StrataClean IQ™ unit.

STEP 2: Gain access to the unit by removing side access panel. This involves removing 7 shoulder thumb screws. *(Figs 5 & 6)*

STEP 3: Remove filter by pulling the filter from the side. Sliding it out from filter holding bracket. *(Fig 7)*

STEP 4: Replace with a new filter.

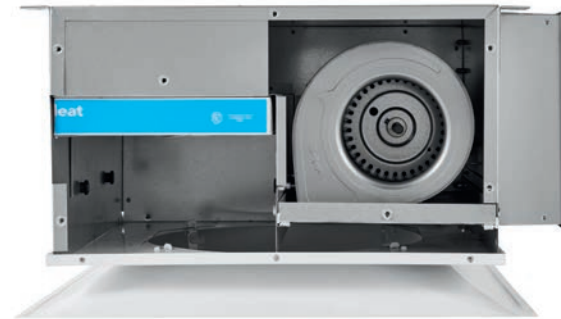
NOTE: Recommended filter life for the MERV 13 is 4,000 hours. Filter life is variable based on air quality and how the unit is run.

For example: Running 8 hours per day = 500 days, running 12 hours per day = 333 days.



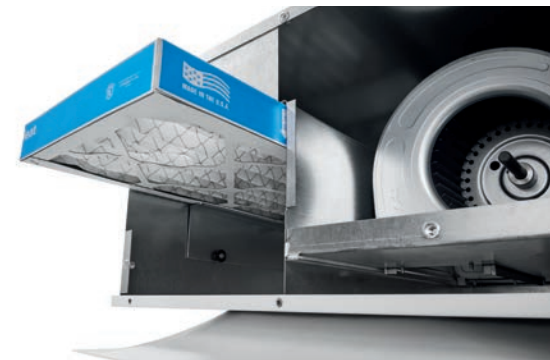
(Fig 5)

Shoulder Thumb Screws on StrataClean IQ Access Panel



(Fig 6)

StrataClean IQ Access Panel Removed



(Fig 7)

StrataClean IQ Filter Change

ARMSTRONG STRATACLEAN IQ™ AIR FILTRATION SYSTEM UNIT INSTALLATION PARTS

Filters – Size (W x H x T)	Qty	Description	Item Number
21 x 11 x 2"	1	MERV 13 Filter	By others
Parts	Qty	Description	Part Number
Self-tapping screws	16	To adhere hanging brackets to unit	By others
Threaded rod	4	Used for suspension	By others
Strut channel	2	To suspend threaded rod	By others
Nut and Washer	4 each	Same-sized interior diameter, used for threaded rod installation	By others

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 1 877 276-7876.

For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276-7876 or FAX 1 800 572-TECH.

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