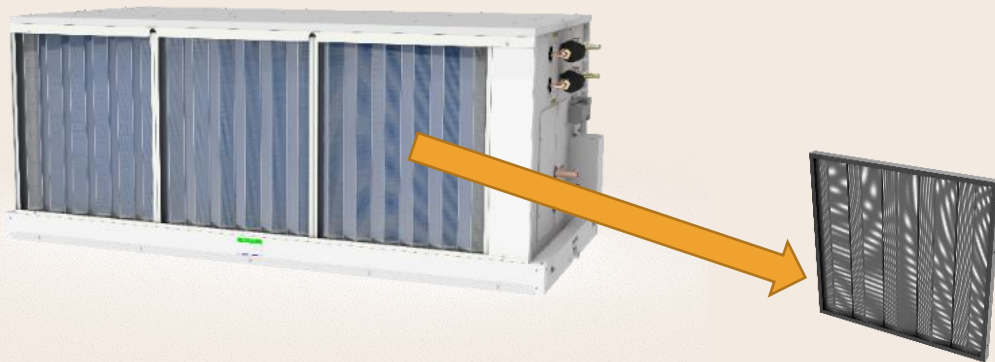


## Blue Star's Ducted Units with Special Filters



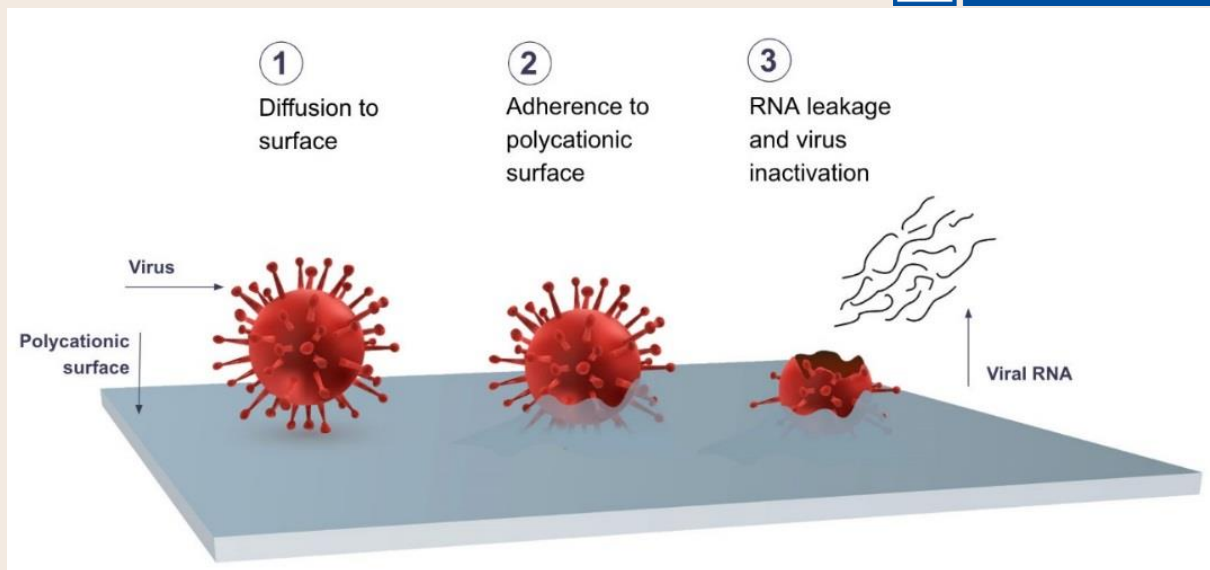
Blue Star's Special filtration Ducted Unit is a system which is equipped with an inbuilt filter made out of imported special fabric with anti-microbial properties. This system keeps the conditioned space out of infectious particles.

### **Working Principle:**

Blue Star's Special Livinguard<sup>™</sup> filtration system is of passive type wherein microbes are permanently destroyed.

The special filter is made with a unique fabric that is treated with a powerful anti-microbial coating with concentration of 24 billion charges/ sqcm. This gives polycationic property to the fabric surface. This treatment acts like a positive magnetic charge against negatively charged virus and bacteria.

The positively charged fabric which is more powerful than negatively charged microbes inactivates the protein capsids or envelopes thus disintegrating the structure.



Once destroyed, without charge the microbes fall off or can be washed off.

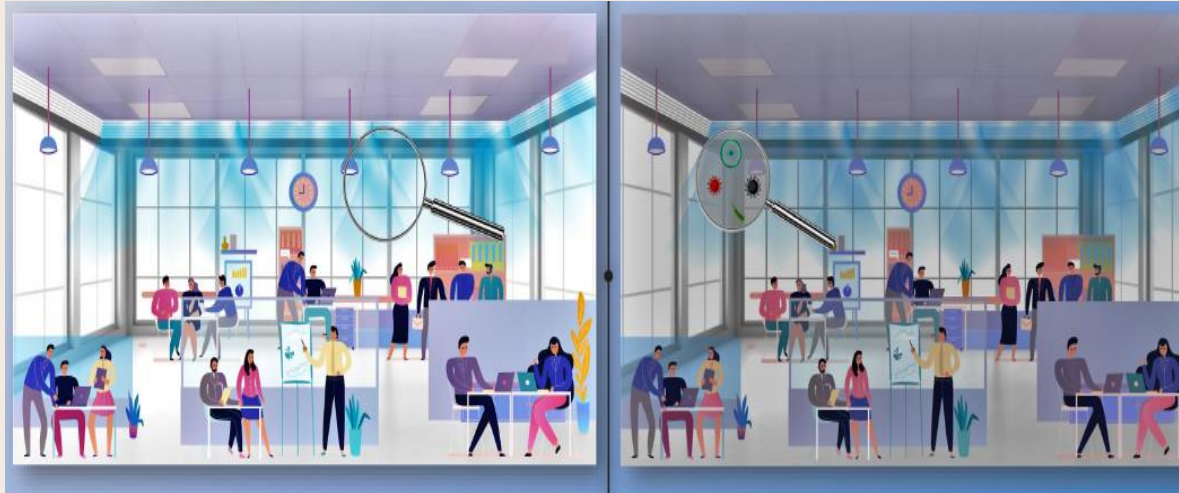
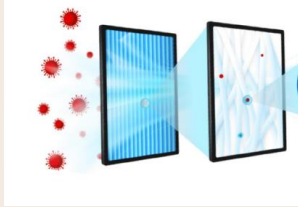
With this technology, it is probable that virus gets inactivated finally leading to the release of non-infectious RNA.

Tests have shown even after multiple rinses and washes, the treated fabric material maintains its properties without leaching. This lack of leaching is the underlying reason why the antimicrobial performance is so durable and safe for skin as well.

#### **Major benefits of Livinguard Special Filter Ducted Unit:**

- It acts like an active filtration system where in the virus structure is permanently destroyed rather than getting filtered and trapped in the filter fabric. There is no hazard to handle the used filter as live microbes never get trapped unlike in a conventional fine filters
- This filter need not be replaced frequently as it is washable for multiple times
- Pressure drop across the filter is very minimum, hence there is no need for hi-static evaporator fans. This results in enormous power saving throughout the life of the system.
- Traditional metal based anti microbial agents like silver, copper, zinc are not used in these filters. Hence, leaching is not possible.
- This can be used in the conventional air conditioning units and hence there is no need to go for complicated construction of non-standard AHU type evaporator unit

This unit with special anti microbial filter can also be used with fan mode in winter without cooling to ensure microbes free inside atmosphere.

**BLUE STAR'S SPECIAL  
FILTER SYTEM**
**WITH CONVENTIONAL FILTERS**

**Ducted Units with Special Filters – Technical Data**

DESCRIPTION	UNITS	DSA-661R3F	DSA-1021R3F	DSA-1321R3F	DSA-1982R3F	DSA-2642R3F		
NOMINAL COOLING CAPACITY	TR	5.5	8.5	11	16.5	22		
	Btu/Hr	66000	102000	132000	198000	264000		
	K.Cal/Hr	16630	25704	33264	49900	66528		
Refrigerant		R 410A						
Power supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply						
External Finish		Pure Polyster Coated GI Steel						
<b>Indoor Unit</b>								
Dimensions (WXDXH)	mm	1140X630X 485	1840X630X485	1840X630X485	2035X1085X555	2115X1005X865		
Power supply	V/Ph/Hz	230V,Single Ph, 50Hz AC						
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width						
Nominal Air Flow	CMH	3740	5780	7480	11560	14960		
	CFM	2200	3400	4400	6800	8800		
Air Filter		<b>Special Treated Fabric with Polycationic Surface Enclosed by HDPE Mesh</b>						
Controller		Microprocessor based with LCD Display						
Net Weight	kg.	55	90	90	150	210		
<b>Out Door Unit</b>								
Quantity per unit	No.	1	1	1	2	2		
Compressor Type		Hermetically Sealed Scroll Type						
No. of Compressor/ODU		1	1	1	1	1		
Dimensions (WXDXH)	mm	1020X935X420	1230X945X550	1435X950X635	1435X950X635	1020X935X420	1435X950X635	1435X950X635
Power Supply	V/Ph/Hz	380/ 420 V, 3 ph, 50Hz, AC Supply						
Condenser Type		Air Cooled FTHX						
Condenser Fan Type		Propeller Type						
Net Weight	kg	55	75	90	90	55	90	90
<b>Specifications are subject to change without any notice.</b>								