



Perfecting the Air

DSP Materials Catalogue



**Premium HVAC
Installation Materials**



PSB Singapore



ASTM B280 - 16



QAC/SG/380-A



SEAMLESS COPPER PANCAKE COIL & STRAIGHT PIPE



DSP Seamless Copper Pancake Coil (PCC) and Straight Length Tube (SLT) are manufactured to the stringent quality standards.

To ensure excellent performance, the highest quality cathode copper with 99.9% Cu is used. The product line offers a wide selection of choices to meet the needs of various air-conditioning and refrigeration (ACR) applications.

Standard Length Per Coil/Pipe

Type	Temper	Length (m)
Pancake Coil (PCC)	Annealed	12 and 15
Straight Length Tube (SLT)	Hard Drawn	5.8



SPECIFICATIONS

Chemical Properties


Standard	Grade	Chemical Properties	
		Copper CU (%)	Phosphorus P (%)
ASTM B280	C12200	99.9	0.015 - 0.04

Mechanical Properties

Temper	Mechanical Properties			
	Tensile Strength (Mpa)	Elongation (%)	Hardness	Average Grain Size (mm)
H80	min 250	-	-	-
O60	min 205	min 40	-	min 0.04

Products

DSP Copper Pancake Coil (PCC)			
	Length	Size (Inch)	Type
	12m / coil	1/4"	SWG 22 Wall Thickness: 0.71 mm
		3/8"	
		1/2"	
		5/8"	
		3/4"	
15m / coil	1/4"		
	3/8"		
	1/2"		
	5/8"		
	3/4"		

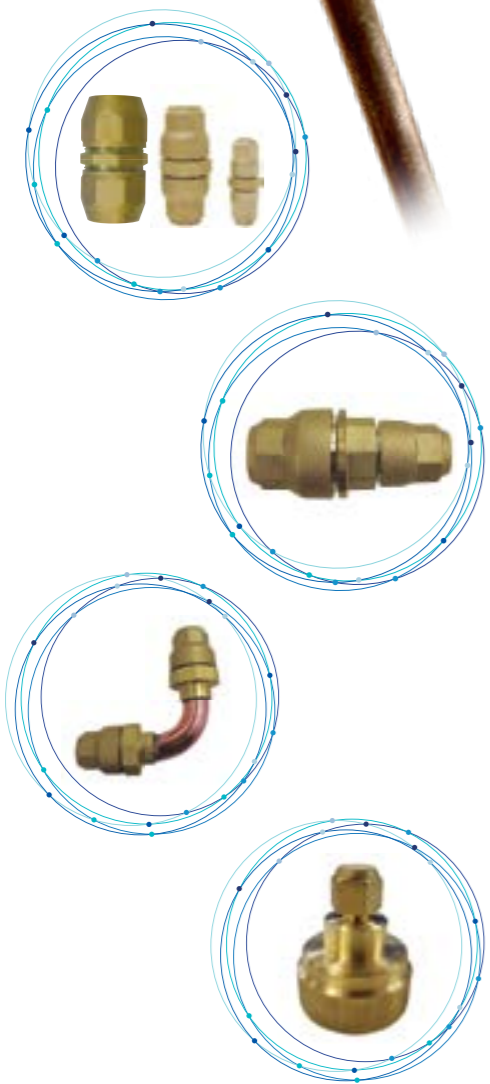
Straight Length Tube (SLT)			
	Length	Size (Inch)	Type
	5.8m	1/4"	SWG 21 Wall Thickness: 0.81 mm
		3/8"	
		1/2"	
		5/8"	
		3/4"	
		7/8"	
		1"	
		1 1/8"	
		1 3/8"	
		1 5/8"	
5.8m	5.8m	5/8"	SWG 22 Wall Thickness: 0.71 mm
		3/4"	
		7/8"	
		1"	
		1 1/8"	
		1 3/8"	
		1 5/8"	
		1 5/8"	

* Subject to availability. Please call to enquire.



DAIKIN TIGHTFIT

DAIKIN TIGHTFIT is a non-brazed connection suitable for piping. Pipes can be joined easily and quickly without brazing or using any special tools. It meets stringent safety requirements and provides leak-free tightness among various substantial benefits.



	Daikin Tightfit	Other Brands
Fitting	✓ Only needs 1 Joint for Tight seal	Requires additional accessories (i.e. inserts and joints) for stable fit
Special Tools	✓ N/A = \$0 hidden costs	Require specialised crimping tools costing from S\$3,000 onwards
Sealing Method	<ul style="list-style-type: none"> ✓ Double Protection with V-seal and Dual O-Ring to effectively minimise leakage. ✓ Ensures tight seal and prevents condensation forming inside 	Single O-Ring only
Precision Piping Method (PPM)	✓ Enhanced productivity with prefabrication of piping into modular form for easy connection	No such service
Certificate	✓ First to be Awarded 3 Ticks Excellent Rating by Singapore Green Building Council (SGBC) Certification	Not Certified under SGBC

*Installation with DSP Materials only



Advantages

QUALITY ASSURANCE

Guaranteed to be tight and leak-free
 Reliable and secure with no brazing required
 Conforms to ISO14903
 Tightness test: P=4.3Mpa;
 Test medium: 100% Helium, T=22°C
 Max leakage: 7.5×10^{-7} Pa·m³/s or less
 Vacuum test: 6.5kPa in absolute

SYSTEM RELIABILITY

No risk of copper oxide or soot in pipes due to no brazing
 Prevents early compressor failure and prolongs the lifespan of air-conditioners

SAFETY FIRST

As no brazing is required, fire hazards are completely eliminated during installation on site
 No risk of handling high pressure and flammable gas

EASY INSTALLATION

No need to prepare heavy and expensive brazing tools or hire specialised technicians
 Easy for anyone to install by using a simple torque tightening method, now made easier with lower torque

TIME & COSTS SAVINGS

No need to apply for hot work permit or station fire safety watchers onsite, thus saving time and cost with less administrative work
 Simple installation process also reduces installation time

Mechanism

	Item	Name	Materials	Remark
	1	Main body	C3771	Forged and Machined Brass
	2	Nut	C3771	Forged and Machined Brass
	3	Gasket	IIR	Main sealing
	4	O-ring	EPDM	Secondary seal and moisture stopper
	5	Indicator	Luminous marking	Green colour

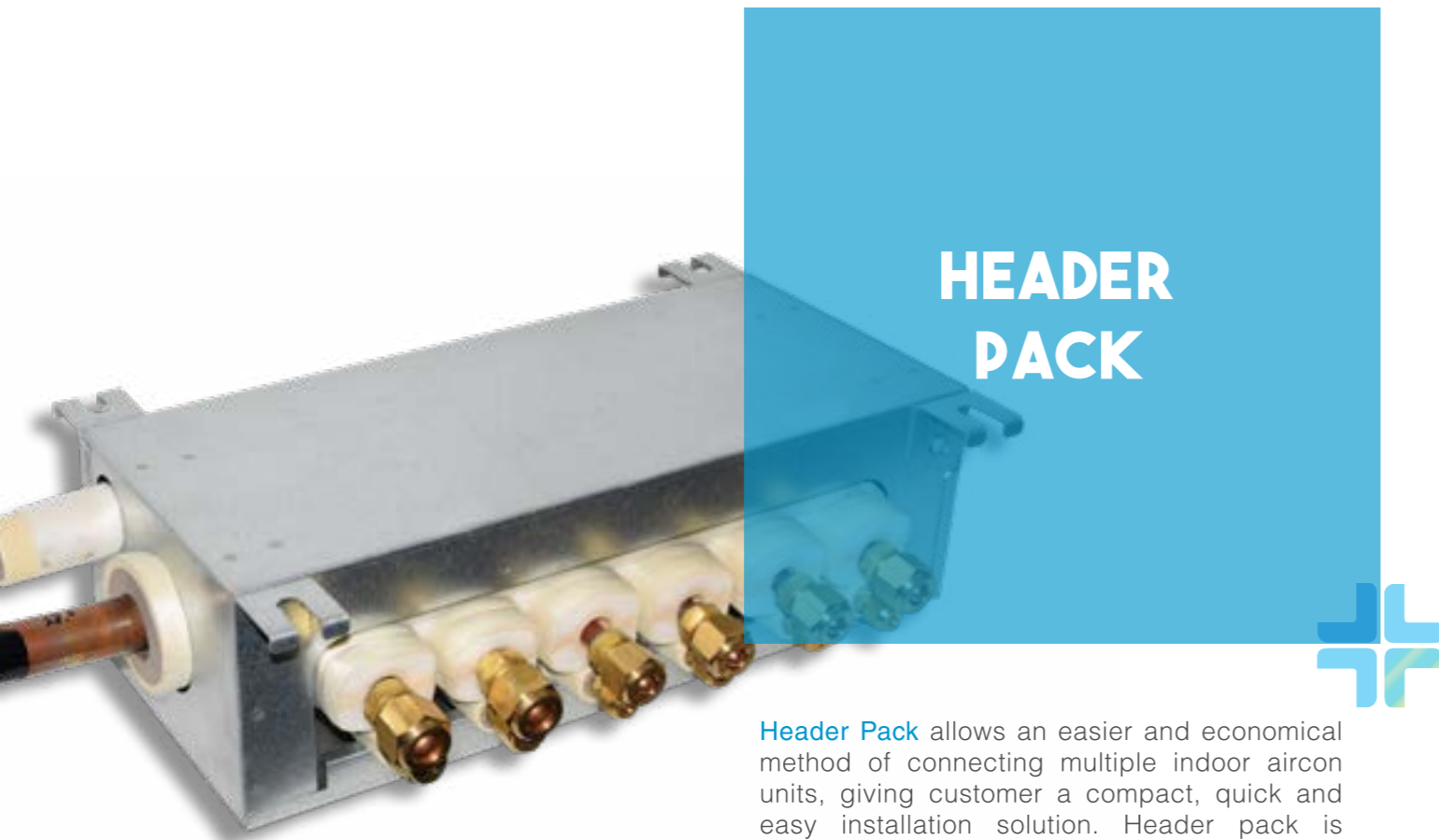
SPECIFICATIONS

Applications	Refrigeration / Air-conditioning / Heat Pump (Refrigeration side) / VRV
Refrigerant	R32, R410A
Refrigerant Oil	Ether oil / Ester oil / Polyalkylene glycol oil
Maximum Pressure*	4.3MPa
Minimum Pressure*	-0.101MPa (-755mmHg)
Maximum Temperature*	130°C
Minimum Temperature*	-45°C
Pressure Resistance	17.2 MPa x 2 min.

[^] Operating Pressure: -0.101MPa(-755mmHg) - 4.3MPa
^{*} Operating Temperature: -45°C - 130°C

LINE UP

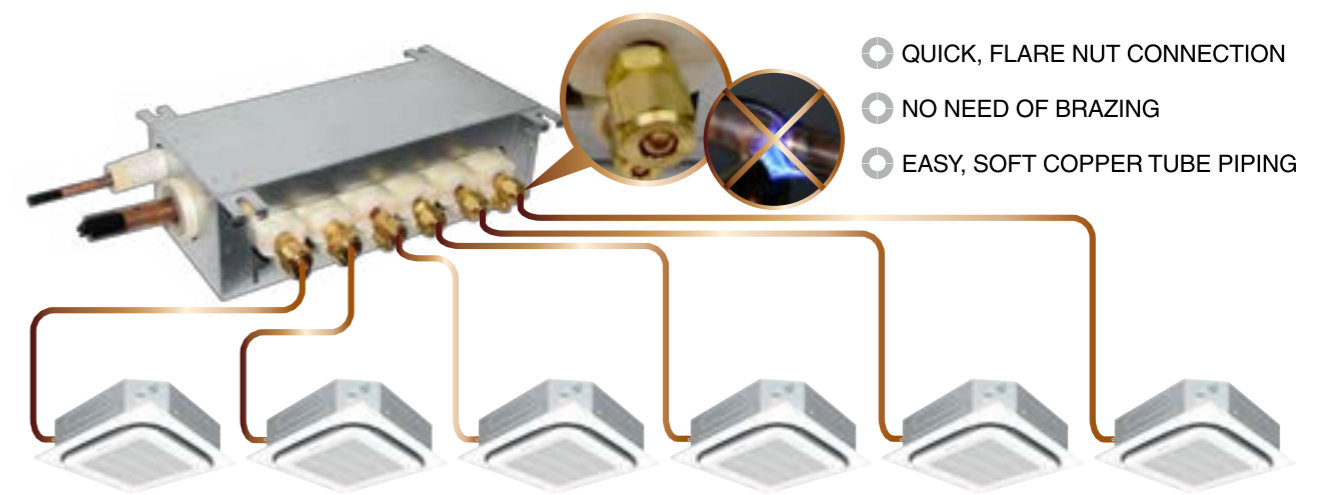
Standard Joint		Asymmetry Joint		NEW! 90°Bend Joint		NEW! Test Plug	
Size	Model Name	Size	Model Name	Size	Model Name	Size	Model Name
ø 6.35	SDGTB06	ø 9.52-6.35	SDGTB0906	-	-	ø 6.35	SDGTK06
ø 9.52	SDGTB09	ø 12.70-9.52	SDGTB1209	-	-	ø 9.52	SDGTK09
ø 12.70	SDGTB12	ø 15.88-12.70	SDGTB1512	-	-	ø 12.70	SDGTK12
ø 15.88	SDGTB15	ø 19.05-15.88	SDGTB1915	-	-	ø 15.88	SDGTK15
ø 19.05	SDGTB19	ø 22.22-19.05	SDGTB2219	-	-	ø 19.05	SDGTK19
ø 22.22	SDGTB22	ø 25.40-22.22	SDGTB2522	ø 22.22	SDGTLB22	ø 22.22	SDGTK22
ø 28.58	SDGTB28	ø 28.58-25.40	SDGTB2825	ø 28.58	SDGTLB28	ø 28.58	SDGTK28
ø 34.92	BDGTA34	ø 34.92-28.58	SDGTB3428	-	-	-	-
ø 41.28	BDGTA41	-	-	-	-	-	-
ø 25.00	KMJ25A	ø 31.00-25.00	KMJR3128A	ø 25.00	KMJE25A	-	-
ø 31.00	KMJ31A	-	-	-	-	-	-
ø 38.00	KMJ38A	-	-	-	-	-	-



HEADER PACK

Header Pack allows an easier and economical method of connecting multiple indoor aircon units, giving customer a compact, quick and easy installation solution. Header pack is suitable for all VRV Piping installation time and cost saving benefits!

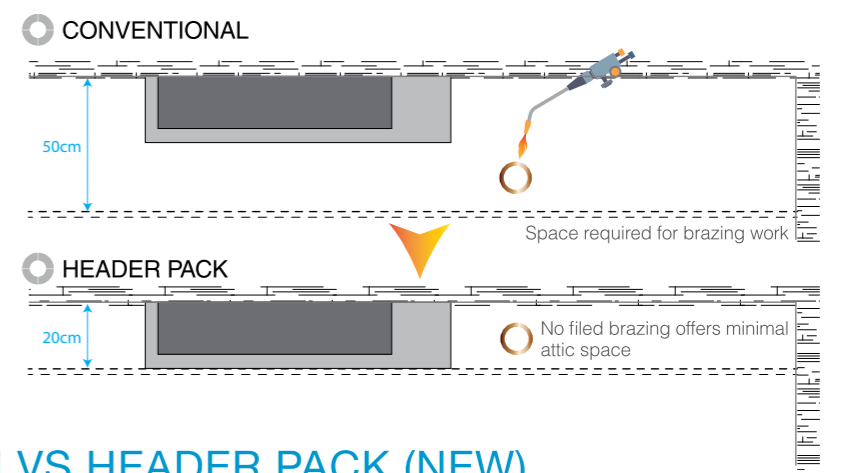
CONNECT UP TO 6 INDOOR UNITS



COMPACT DESIGN TO FIT INTO NARROW ATTIC SPACE

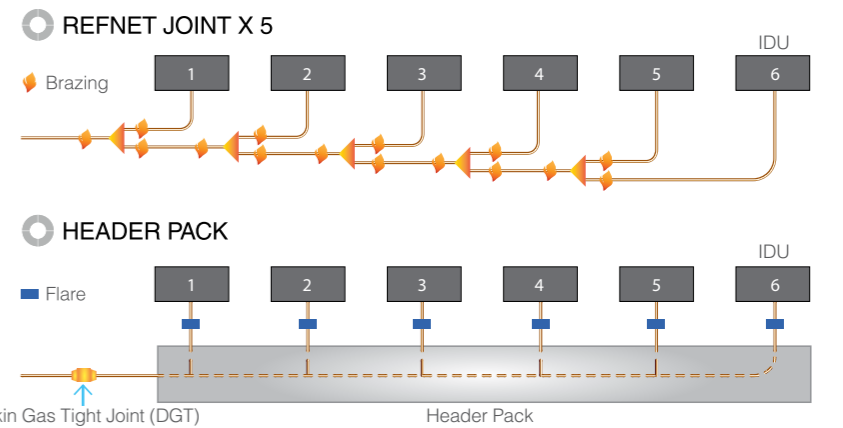
Light weight and the compact body gives minimum damage on the building structure.

Higher ceiling offers luxurious and comfortable room.



REFNET CONNECTION VS HEADER PACK (NEW)

Item		Refnet Joint	Header Pack
Optional Kit	Refnet Joint	5	0
	Header Pack	0	1
Auxiliaries	Gas	Yes	No
	Brazing Iod	Yes	No
	Elbow	Yes	No

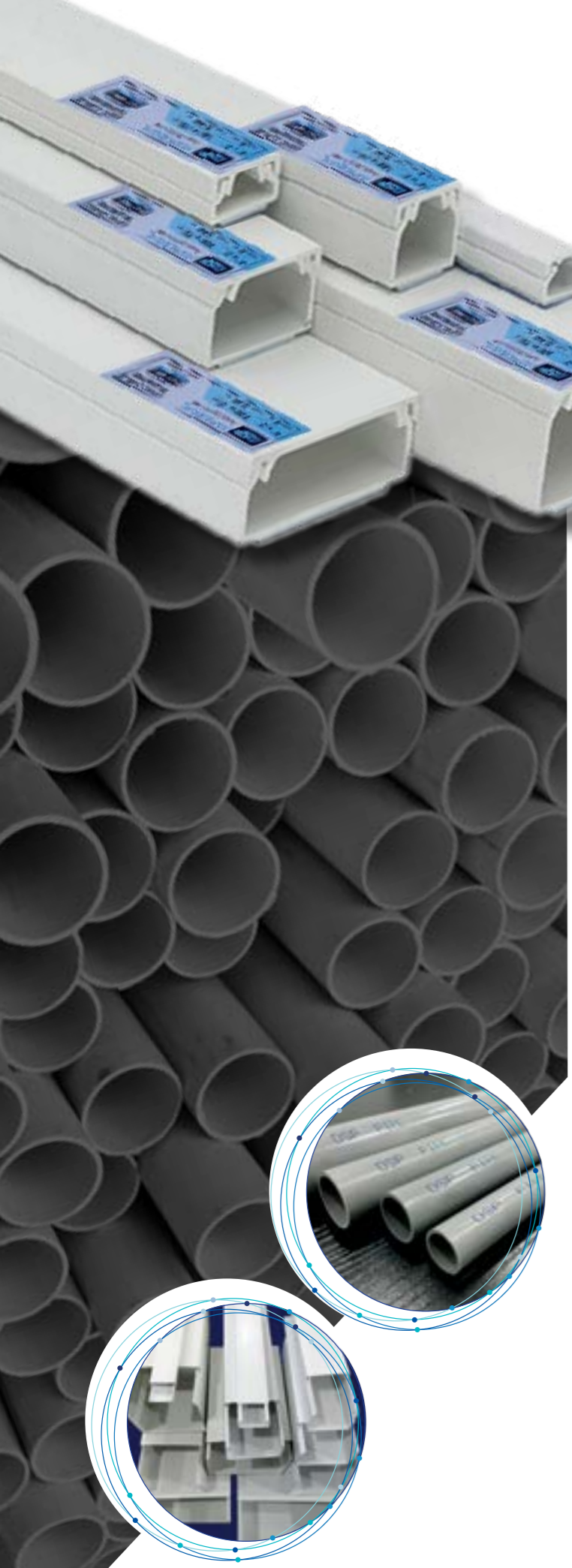


Advantages

<p>INSTALLATION TIME SAVING</p> <p>Save more than 60% installation time</p>	<p>EASY TO INSTALL</p> <p>Easy to install with NO BRAZING required</p>
<p>SAFETY</p> <p>Safe to Use with no fire hazard danger in the building</p>	<p>SPACE SAVING</p> <p>Space Saving with attic height reduced by 300mm</p>

HEADER PACK LINEUP

HP (VRV System)	Header Pack Model	Outdoor Unit Side		
		Liquid / Gas (mm)	Port	Liquid / Gas (mm)
6	BHF6RHP6Z	9.5 / 15.9 (flare)	Large x 1	9.5 / 15.9
			Small x 3	6.4 / 12.7
6 . 8	BHF8RHP6Z	9.5 / 19.1	Large x 3	9.5 / 15.9
			Small x 3	6.4 / 12.7
10	BHF10RHP6Z	9.5 / 22.2	Large x 3	9.5 / 15.9
			Small x 3	6.4 / 12.7
12 . 14 . 16	BHF16RHP6Z	12.7 / 28.6	Large x 3	9.5 / 15.9
			Small x 3	6.4 / 12.7



TRUNKING & UPVC DRAINAGE PIPE

DSP Trunking and uPVC Drainage Pipe offer a range of unique characteristics that make them versatile in their field of application.

These pipes are grey in colour and are commonly used as cable ducting, flush pipe and air-conditioning water discharge outlet.

There is an ease in handling due to the pipe's light weight. This makes transportation and unloading easier and thus minimise operation cost.

The smooth bore provides greater hydraulic capacity and minimises deposit build up or roughening of the pipe walls.

The pipes can be readily joined by solvent welding. This provides the versatility in joining and minimise the flow of obstructions.

Standard Length Per Piece

Type	Length (ft)	Length (m)
Trunking	8	2.44
uPVC Drainage Pipe	9.5	2.9



Comply: 315 SS275:1999

✚ SPECIFICATIONS

○ Products

uPVC Trunking (White)		
	Length	Size (Inch)
	8 ft / length	2" x 1.5"
		2" x 2"
		3" x 2"
		3" x 2.5"
		4" x 2.5"
		4" x 3"
		4" x 4"
		5" x 4"
		6" x 4"
8" x 4"		

uPVC Drainage Pipe (Grey)		
	Length	Size (mm)
	2.9 m / length	13
		16
		20
		25

uPVC Drainage Pipe Fittings (Grey)		
	Length	Size
 90° Elbow Socket Tee	Per Piece	13 mm (3/8")
		16 mm (1/2")
		20 mm (3/4")
		25 mm (1")
		13 mm (3/8")
		16 mm (1/2")
		20 mm (3/4")
		25 mm (1")
		13 mm
		16 mm
20 mm		
25 mm		

uPVC Flexible Pipe		
	Length	Size (Inch)
	50 m / length	2" x 1.5"
		2" x 2"
		3" x 2"

CLOSED CELL TUBING, SHEET & ROLL INSULATION

DSP Closed Cell Elastomeric Nitrile Rubber Tubing and Sheet Insulation are specifically manufactured for uncompromising, reliable performance, meeting all requirements from structure to dimensions.

Combined with our relentless attention to quality and detail, our product selection offers every aspect to meet the technical insulation demands to reduce energy consumption and prevent condensation and corrosion under insulation of air-conditioning and refrigeration (ACR) applications.

Standard Length Per Piece

Type	Length (ft)	Length (m)
Closed Cell Tubing	6	1.83
Sheet Flat	4 x 3	1.22 x 0.91
Sheet Roll	4 x 30	1.22 x 9.14



Chemical & Mechanical Properties

Average Physical Properties	Rating	Test Method
Density	60 kg/m' to 80 kg/m'	ASTM D1667
Temperature Limit 'C	-40'C to +105'C	
Water Vapour Resistance u Factor	> 5000	DIN 52615 - 73
Average Fire Propagation Average Surface Spread of Flame Average Time of Burning	Class 0 Class 1 Less than 5 seconds	BS 476 Part 6 BS 476 Part 7 ASTM D635 - 91
Reaction To Fire	V-0, 5VA, HF-1, Self-Extinguishing, No Dripping	UL 94

Singapore Certificate of Conformity (TUV/PSB Class 'O')

Singapore Green Building Council (Awarded) – 2 Ticks

Products

	Length	Size (Inch)	Type
	5.8m / length	7/8"	Insulation thickness: 1/4"
		1/4"	Insulation thickness: 1/2"
		3/8"	
		1/2"	
		5/8"	
		3/4"	
DSP Insulation Class "O"			
	6 ft / length	1/4"	Insulation thickness: 1/2"
		3/8"	
		1/2"	
		5/8"	
		3/4"	
		1/4"	Insulation thickness: 3/4"
		3/8"	
		1/2"	
		5/8"	
		3/4"	
		7/8"	
		1 1/8"	
1 3/8"			
1 5/8"			

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 SPECIFICATIONS

CLOSED CELL TUBING, SHEET & ROLL INSULATION

○ Closed Cell Tubing

No.	Normal Insulation Size		Copper Pipe		Tubing - Standard Unit Length (6 Feet)							
			Nominal Size (OD)		Nominal Thickness (6mm)	Nominal Thickness (9mm)	Nominal Thickness (13mm)	Nominal Thickness (19mm)	Nominal Thickness (25mm)	Nominal Thickness (32mm)	Nominal Thickness (38mm)	Nominal Thickness (50mm)
	mm	inch	mm	inch	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn
1	6	1/4	6	1/4	250	168	100	48	-	-	-	-
2	10	3/8	10	3/8	200	120	90	36	30	-	-	-
3	13	1/2	13	1/2	150	100	70	30	28	-	9	-
4	16	5/8	16	5/8	120	90	63	30	24	-	9	6
5	19	3/4	19	3/4	100	72	56	26	20	-	9	6
6	22	7/8	22	7/8	90	65	42	24	20	14	9	6
7	25	1	25	1	80	49	36	20	18	12	9	6
8	28	1 1/8	28	1 1/8	-	49	36	20	18	12	9	6
9	32	1 1/4	32	1 1/4	-	42	30	20	16	12	-	-
10	35	1 3/8	35	1 3/8	-	36	30	18	15	12	8	4
11	42	1 5/8	42	1 5/8	-	30	25	16	12	10	8	4
12	48	1 7/8	48	1 7/8	-	28	20	12	10	9	6	4
13	51	2	51	2	-	24	20	12	9	8	-	-
14	54	2 1/8	54	2 1/8	-	20	18	12	9	6	6	4
15	60	2 3/8	60	2 3/8	-	20	18	9	9	6	6	4
16	67	2 5/8	67	2 5/8	-	18	13	8	8	6	6	4
17	73	2 7/8	73	2 7/8	-	18	13	8	8	6	-	-
18	76	3	76	3	-	18	12	8	8	6	-	-
19	79	3 1/8	79	3 1/8	-	15	12	6	6	5	-	-
20	89	3 1/2	89	3 1/2	-	15	12	6	6	5	-	-
21	100	4	100	4	-	13	12	6	5	5	-	-
22	115	4 1/2	115	4 1/2	-	13	10	6	5	5	-	-

○ Sheet Flat

Standard Flat Sheets						
Nominal Thickness		Size		No of Sheets	Total Area Per Ctn	
mm	inch	m	ft	Per Carton	m ²	ft ²
3	1/8	1.22 x 0.914	4 x 3	80	89.2	960
6	1/4	1.22 x 0.914	4 x 3	40	44.6	480
9	3/8	1.22 x 0.914	4 x 3	26	28.99	312
13	1/2	1.22 x 0.914	4 x 3	20	22.3	240
15	5/8	1.22 x 0.914	4 x 3	16	17.84	192
19	3/4	1.22 x 0.914	4 x 3	14	15.61	168
25	1	1.22 x 0.914	4 x 3	10	11.15	120
32	1 1/4	1.22 x 0.914	4 x 3	8	8.92	96
38	1 1/2	1.22 x 0.914	4 x 3	7	7.8	84
50	2	1.22 x 0.914	4 x 3	5	5.57	60

○ Sheet Roll

Continuous Rolls						
Nominal Thickness		Size Per Roll		Total Area Per Roll		
mm	inch	m	ft	m ²	ft ²	ft ²
3	1/8	1.22 x 9.14	4 x 30	11.15	120	960
6	1/4	1.22 x 9.14	4 x 30	11.15	120	480
9	3/8	1.22 x 9.14	4 x 30	11.15	120	312
13	1/2	1.22 x 9.14	4 x 30	11.15	120	240
15	5/8	1.22 x 9.14	4 x 30	11.15	120	192
19	3/4	1.22 x 9.14	4 x 30	11.15	120	168
25	1	1.22 x 9.14	4 x 30	11.15	120	120
31	1 1/4	1.22 x 9.14	4 x 30	11.15	120	96
38	1 1/2	1.22 x 9.14	4 x 30	11.15	120	84
50	2	1.22 x 4.57	4 x 15	5.57	60	60



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 SPECIFICATIONS

○ Products

	Keystone Cable		
	Length	Size	Type
	100 m / coil	1 core x 2.5 mm ²	Multi Colour CU/PVC Cable 450/750V
	100 yard / coil	3 core x 40 strand	CU/PVC Flexible Cable 250/440V
		3 core x 70 strand	
		4 core x 40 strand	

CONDENSATE PUMPS



Condensate pump is suitable for all voltages and its unique selling points are silent & non-vibrate function.

Energy saving and environment protection design.
Big flow rate suits all kinds of A/C system.
Waterproof float made of rubber material.
Individual dual control line which ensures safety.

Features

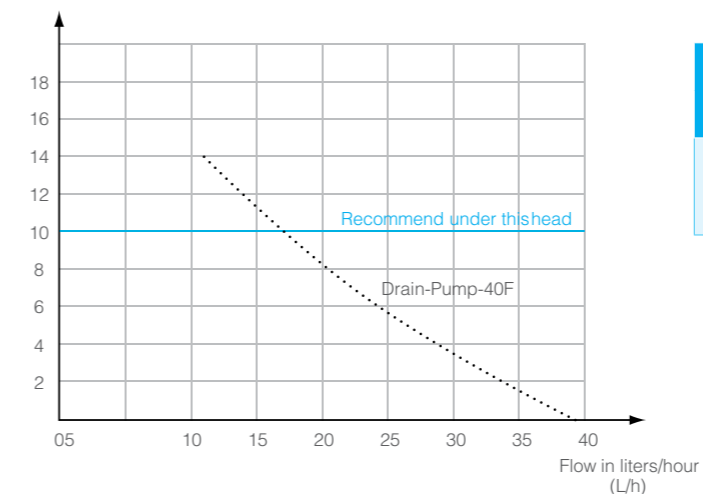
- Suitable for all voltages
- Rate power at 3W energy saving design
- Max discharge head at 10m
- One inlet port on top
- Quiet & Non-Vibrate
- 3A-250V non voltage safety switch
- Buckle designed with ease assembly
- CE Certificate

SPECIFICATION

Model	Drain-Pump-40F
Voltage	100-230V~ / 50-60Hz
Discharge Head	Max. 10m (33ft)
Flow Rate	Max. 40L/h (10.5GPH)
Tank Capacity	200ml
Mini Spills up to	15KW (45,000btu/hr)
Sound Level at 1m	21dB(A)
Ambient Temperature	0°C - 50°C
Power Consumption	3W

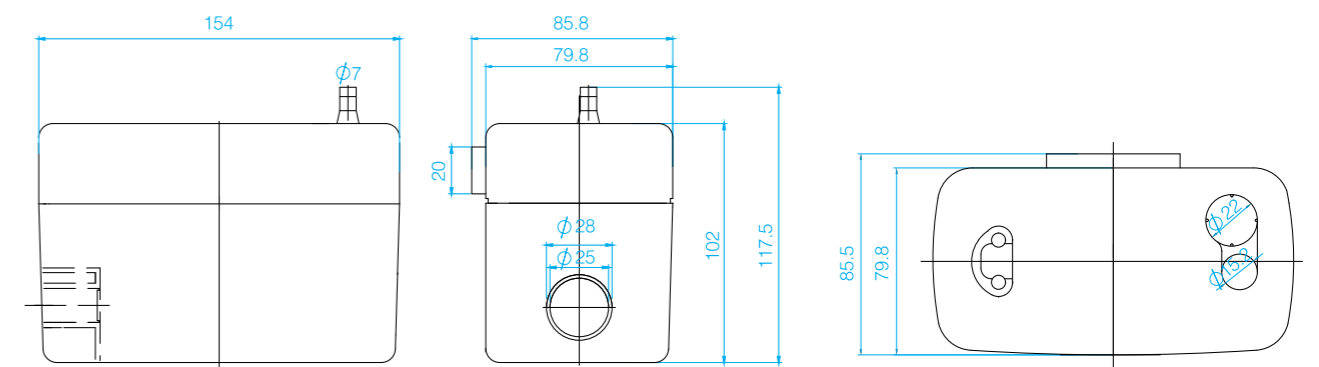
FLOW RATE

Meters head (m)



Model	Performance (l/h @ Head)					
	0m	2m	4m	6m	8m	10m
Drain-Pump-40F	40	34	30	24	20	18

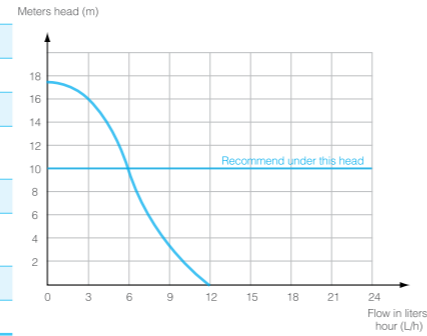
DIMENSION





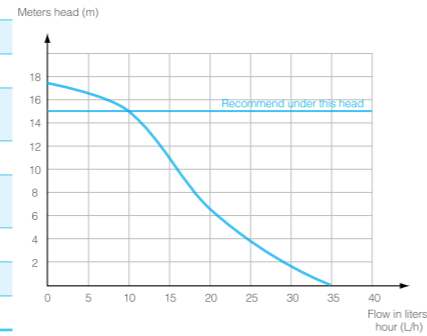
ACP-ORANGE

Max. Flow : 12L/h @ 0 head	Max. Rec. Head : 10m
Max. Suction Lift : 2m	Sound Level : 21 dB(A) @ 1m
Power Supply : 230VAC, 0.11A, 16W, 50/60Hz	Rated : Non Continuous
Class : II Appliance	Max. Unit Output : 16kW (54,000Btu/h)
Max. Water Temperature : 40°C (104°F)	Discharge tube : 6mm ID
IP Protection : IP21	Safety Switch : 3.0A Normally Closed
Thermal Protection : ✓	Fully Potted : ✓
Self Priming : ✓	Part Number : FP2212



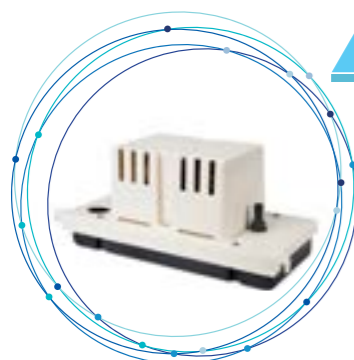
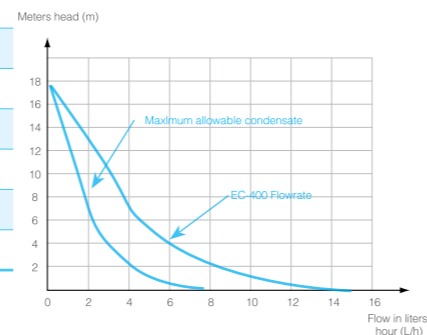
ACP-LIME

Max. Flow : 35L/h @ 0 head	Sound Level : 35 dB(A) @ 1m
Power Supply : 230VAC, 0.11A, 16W, 50/60Hz	Rated : Non Continuous
Class : II Appliance	Max. Unit Output : 46kW (157,000Btu/h)
Max. Water Temperature : 40°C (104°F)	Discharge tube : 6mm ID
IP Protection : IP24	Safety Switch : 3.0A Normally Closed
Thermal Protection : ✓	Fully Potted : ✓
Self Priming : ✓	Part Number : FP2215
Max. Rec. Head : 15m	



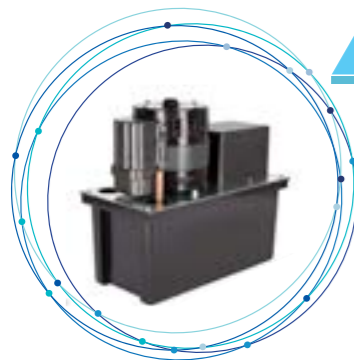
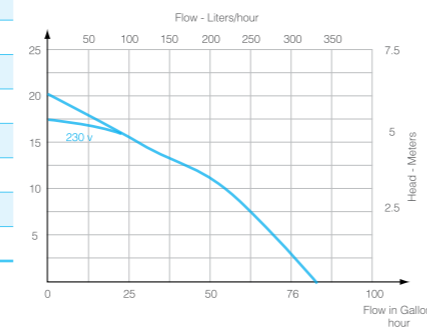
EC-400

Max. Flow : 13.2L/h @ 0 head
Power Supply : 230V, 0.1A, 20W, 50/60Hz
Weight : 0.45kg
Shut Off : 10.7m
Suction Lift : 0.91m
Discharge tube : 4mm ID



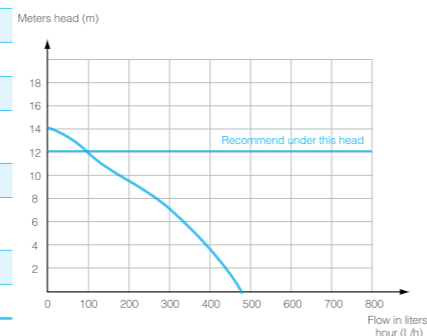
LG554210

Motor : 1/30 hp
Discharge : 3/8" OD Barbed
Housing/Tank Cover : ABS
Motor Cover : ABS
Volute : ABS
Tank : ABS
Impeller : Glass Filled Polypropylene
Check Valve : Acetal



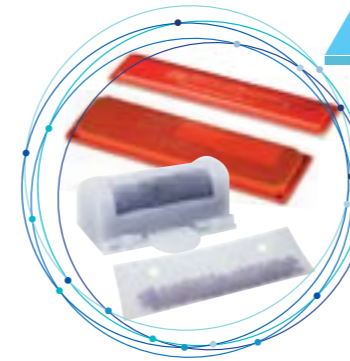
LG553211

Max. Flow : 450L/h @ 0 head	Pump Housing : ABS
Power Supply : 230VAC, 1.0A, 250kW, 50/60Hz	Switch Housing : ABS
Discharge Size : 3/8" (9.5mm) OD Copper	Tank : ABS
HP : 1/5	Tank Cover : Galvanized Steel
Shut Off (Ft) : 45 (13.7m)	Motor Shaft : Stainless Steel
PSI : 19.5	Impeller : Polypropylene
Cord : 6 (1.8m)	Fully Potted : ✓
Weight (lbs) : 14 (6.4kg)	



ANTI-CLOGS, CHEMICALS & INSULATION TAPE

ANTI - CLOGS



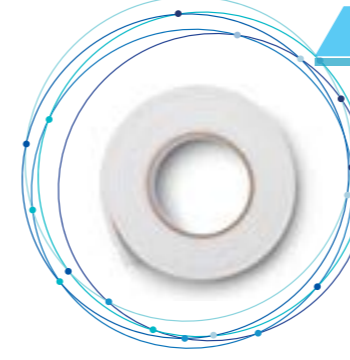
- Anti-Clog controls the growth of harmful bacteria and consequent drain overflows.
- Anti-Clog prevents the growth of harmful bacteria and stops musty odors introduced into air handling units from bacterial slime 20.6 x 7.1 x 3.2 accumulations.

CHEMICALS



- To remove stubborn stains and chokage of coils
- To adjust PH level in water
- To clear chokage in drainage pipe

INSULATION TAPE



- To prevent condensation on linear diffuser

SPECIFICATIONS

Product Code	Size	Power Supply	Suction Lift
LG554210	33.5 x 13 x 14	220VAC, 0.5A, 75W, 60Hz	4.5m, 100L/h
LG553211	30 x 17 x 28	220VAC, 1.2A, 148W, 50/60Hz	4.5m, 600 L/h

Chemical	Size
A-400 Coil Klean	5 Liter
	25 Liter
Heavy Duty Degreaser	5 Liter
PH Adjuster	5 Liter
A-496 Powdered Drain Opener	500 Grams



R410A / R134A REFRIGERANT GAS



R410A Refrigerant is widely used as a refrigerant in many air conditioning applications, usually packaged in rose colour cylinders.

- Reliable
- Quality Assurance
- Applicable to all types of R410A products

R134A Refrigerant is a common refrigerant that is used in many air conditioning applications, usually packaged in blue colour cylinders.

- Zero Ozone layer depleting properties
- Very commonly used in area of centrifugal, rotary screw, scroll and reciprocating compressors



RECOVERY MACHINE & CYLINDER



The use of a **Portable Refrigerant Recovery Machine** is commonly used across various air-conditioning services and maintenance works. A highly efficient compressor is important to allow quick recovery rate.

Our DSP refrigerant recovery unit is mainly applicable for household air-conditioner, commercial air-conditioner and on site maintenance for HVAC/R systems. It is suitable for recovering a wide range of refrigerants including R32, R410a, R22, etc. Because of its excellent function and well-balanced design, it is well accepted by many customers within the air-conditioning field.



Features

- Certified to handle and recover a wide range of Refrigerants R32, R22, R134A, R407C, R410A
- Lightweight
- Faster recovery rate
- Easy to use and maintain



DAIKIN MERV 8 AIR FILTER

High performance pre-filter **Daikin MERV 8 Air Filter** for sensing flow / round flow

Captures 97% of 1.0 - 3.0 μm particles*
Captures 99% of 3.0 - 10 μm particles*
when air passes through filter 10 times

* Please refer to Filter Efficiency on the back for details.

WHAT IS MERV RATING?

Minimum efficiency reporting value, or MERV for short, is a filter rating system devised by ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) to standardize and simplify air filter efficiency ratings for the public. Recently, MERV recognition has been spreading worldwide, and many buildings are increasingly required to use MERV certified filters.

The higher the MERV rating, the higher the effectiveness of the air filter. By comparison, the typical fiberglass throwaway filter has a rating of MERV 4 or less. If allergies or asthma are your concern, we suggest you choose a MERV 8 filter at a minimum. MERV ratings allow you to effectively compare one type or brand of filter to another.

MERV 8 filters can collect particles that have harmful effects on the human body such as PM2.5 (See Fig. 1). MERV 8 filters have less impact on air conditioner operation, allowing a single filter to be used longer.

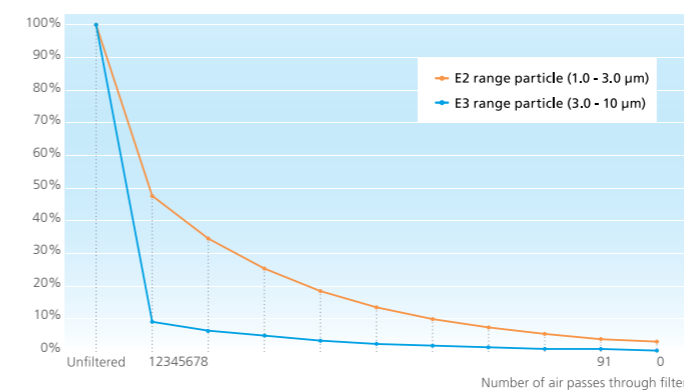
Fig. 1 Criteria for achieving MERV 8 (ASHRAE52.2 : 2017)

MERV	Composite Average Particle Size Efficiency, % , In Size Range, μm			
	E1 Range (0.3 - 1.0)	E2 Range (1.0 - 3.0)	E3 Range (3.0 - 10)	10 μm ~
1 - 4	n/a	n/a	<20	Effective for collecting
5	n/a	n/a	<20	-
6	n/a	n/a	35 \leq	-
7	n/a	n/a	50 \leq	-
8	n/a	20\leq	70\leq	-
9	n/a	35 \leq	75 \leq	-
10	n/a	50 \leq	80 \leq	-
11	20 \leq	65 \leq	85 \leq	-
12	35 \leq	80 \leq	90 \leq	-
13	50 \leq	85 \leq	90 \leq	-

FILTER EFFICIENCY

The results of our in-house tests have proven that this filter can meet MERV 8 standard. In addition, as the air conditioning system continues to operate, the air in the room will pass through this filter many times. As a result, more harmful substances in the air can be captured. For example, more than 97% of 1.0 - 3.0 μm sized substances, including PM2.5, can be collected by circulating air through the filter 10 times (See Fig. 2).

Fig. 2 Percentage of particles remaining in the indoor air*1



*1. This figure is simulated based on the actual measured data of one-pass performance and assumes that particles do not occur continuously in the room. By repeating the one-pass performance about 2~10 times, one can expect the attenuation as shown in the figure.

SPECIFICATIONS				
Filter rating (ASHRAE52.2 : 2017)	MERV 8			
Airflow rate	m ³ / min	13.0	22.9	37.0
Initial pressure drop*2	Pa	18.1	35.8	81.4
Lifetime*3	Up to 6 months (1,250 h)			
Weight	g	520		

*2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.

*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

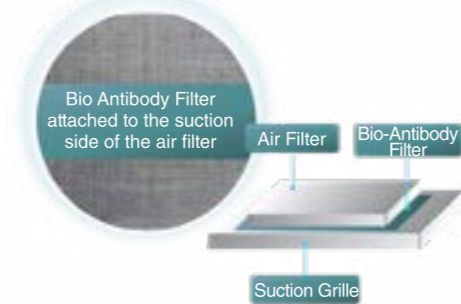


BIO-ANTIBODY FILTER

FEATURES

- Suppress virus effectively within one minute.
- No chemical substance/method is used
- Applicable to all cassette, ceiling suspended, wall-mounted & ducted
- Easy to install
- Made in Japan

INSTALLATION METHOD



Simply install by pasting the Bio-Antibody Filter between suction grille and air filter (cutting of filter may be necessary due to grilles' dimension differences).

It is also deemed effective when placed outside of the suction grille. For wall-mounted, filters can be placed on the front & top casing of the suction grilles. Cutting of filter may be required for some wall-mounted & ducted models.

HOW IT WORKS

When virus in contact with Bio-Antibody Filter

99.99% virus suppressed



Bio-Antibody Filter

LIFESPAN

- Able to store at least 1 year once opened
- If unopened, this filter is able to store for 5 years
- Avoid exposure to sun rays
- Replacement is advisable for every 3 months
- Filter will remain effective even if there are dust on it

Product	Applicable Model	Part No.	Dimensions (mm)	No. of sheets (piece)	Mass (g)
Bio-Antibody Filter (Cassette Type)	FXFQ**/FCQ**	2507259	545(W) x 555(L) x 0.2(H)	2	17.6
Bio-Antibody Filter (Ceiling Suspended/Wall-mounted/Ducted Type)	FXHQ**/FHQ** CTKS**/FTKS**/FXAQ** FXMQ**/FXSQ**/FBQ**	2484820	765(W) x 300(L) x 0.2(H)	4	23.4



ANTI-MOLD & BACTERIAL PRE-FILTER

INSTALLATION METHOD



1. Set the pre-filter inside of grill cover.

2. Put the original filter on top of the pre-filter.

3. Ensure to place the pre-filter between grill cover and original filter.

FREQUENTLY ASKED QUESTIONS

Q. Is there any standard period for cleaning?

A. Wash the pre-filter with water every 2 months. This period can be changed depending on the application and its environment.

Q. How many times can I use it repeatedly?

A. It can be used repeatedly up to 5-6 times of washing. Due to the nature of the material, the filter will shrink a little after every wash.

Q. Does the pre-filter need immediate cleaning if it turns black?

A. Dust and dust pigment will stick to the filter, but the effect will not be affected.

Q. Does the anti-mold agent volatilise?

A. Anti-mold agents do not volatilise.

Q. Can pre-filter be installed in any air conditioner & in any place inside the panel?

A. It can be installed only for models with automatic cleaning function and has to be placed between the grill and the standard pre-filter of the panel.

Q. Does the pre-filter have a front & back side?

A. No.

SPECIFICATION

Anti-Mold / Bacterial Pre-Filter (Sheet)		Anti-Mold / Bacterial Pre-Filter (Roll)	
Part No.	9S01183 (1 sheet)	Part No.	2345507
Size (mm)	570 (L) x 570 (W) x 3 (T)	Size (mm)	900 (L) x 25,000 (W) x 3 (T)
Weight (g)	60	Weight (g)	4,700
Colour	White	Colour	White



Perfecting the Air

For a Healthier, Greener & Smarter Tomorrow



IEQ

Perfecting
Indoor Environmental
Quality



ECO

Perfecting
Sustainability



IoT

Perfecting
Smart Solutions

Contact Details

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Saturday, Sunday & Public Holiday: Closed

(Showroom)

Monday to Friday : 9:00 am to 6:00 pm

Saturday, Sunday & Public Holiday : Closed

(Call Center)

Monday to Friday : 9:00 am to 5:00 pm

Saturday : 9:00 am to 12:00 pm

Sunday & Public Holiday : Closed

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