WELCOME

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science & art

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Prihoda
Technical Catalogue

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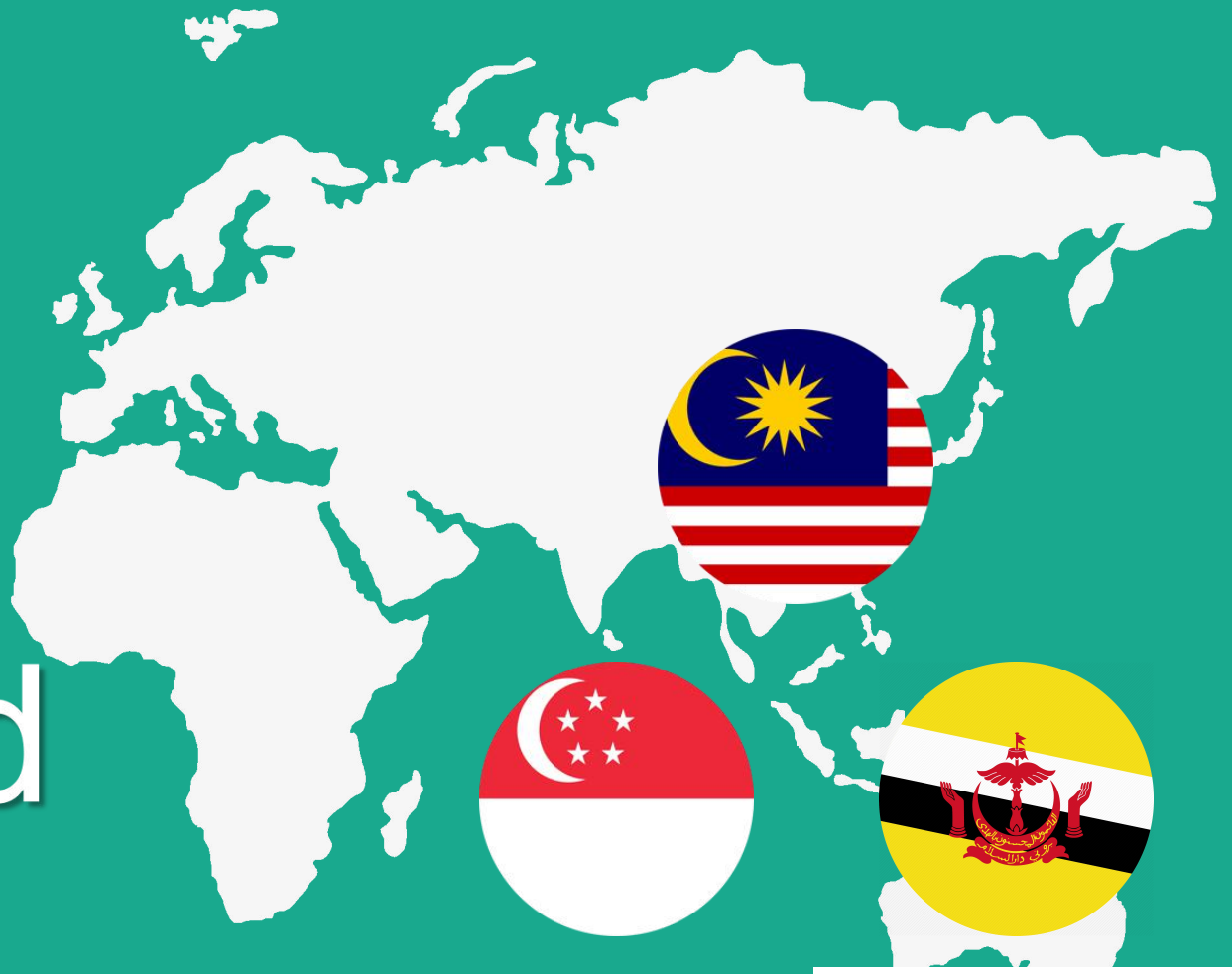
We Are Sole Distributor of Prihoda Brand Fabric Duct



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OVERVIEW

- Fabric duct working principle
- Fabric duct solutions
- Comparison between Rigid & Fabric duct
- Reference Projects

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What is Fabric Duct ?

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1. Fabric duct is a combination of ducting & diffuser that transports the cool air.

2. Air enters the space by permeating through the fabric.

3. Air also enters the space through Customized Perforations (to achieve optimal air distribution).

4. Equipment sizing as per usual.

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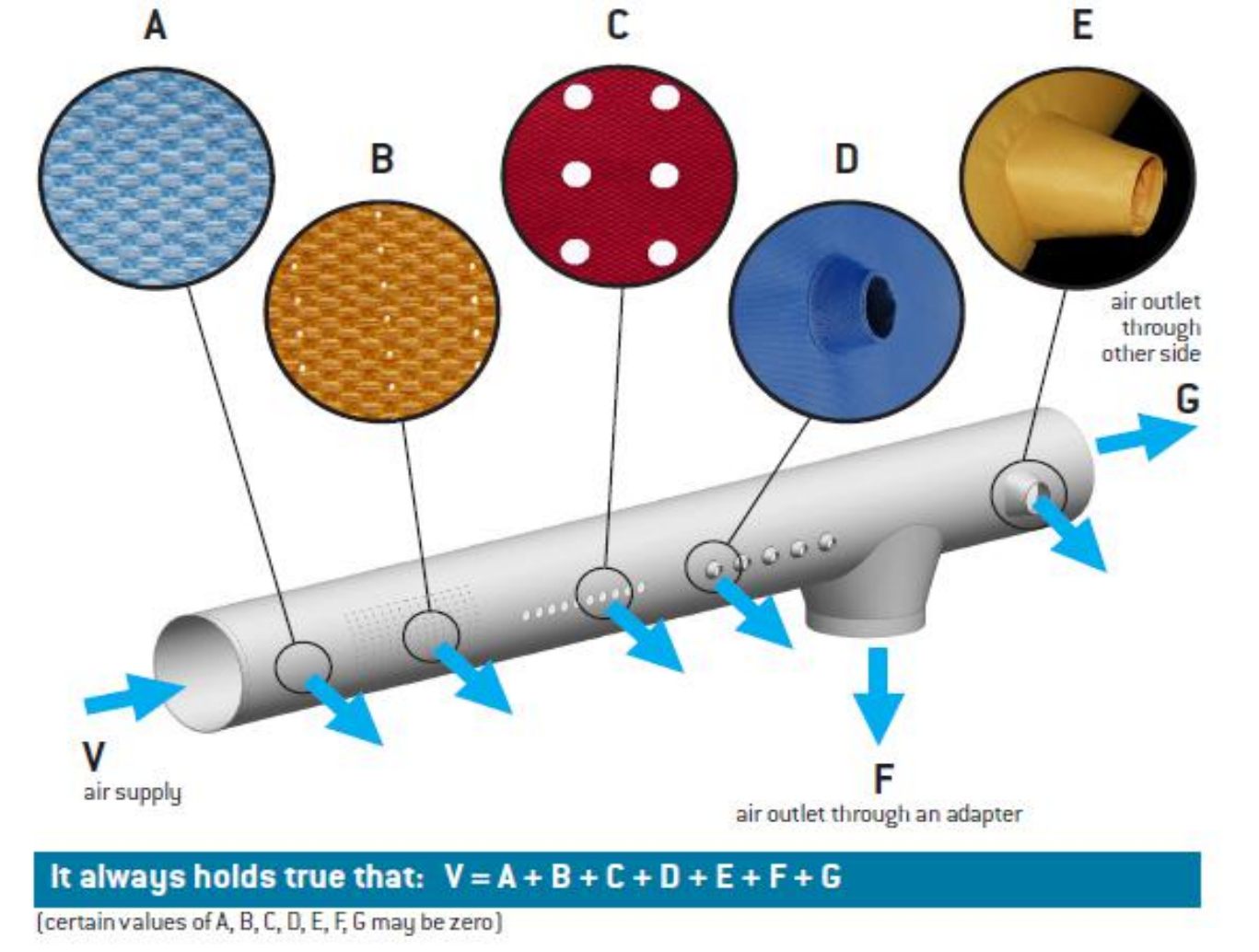
Air Outlet From Fabric Duct



A – Permeable fabric material

B – Microperforations

C – Perforations

D – Small fabric nozzles

E – Big fabric nozzles

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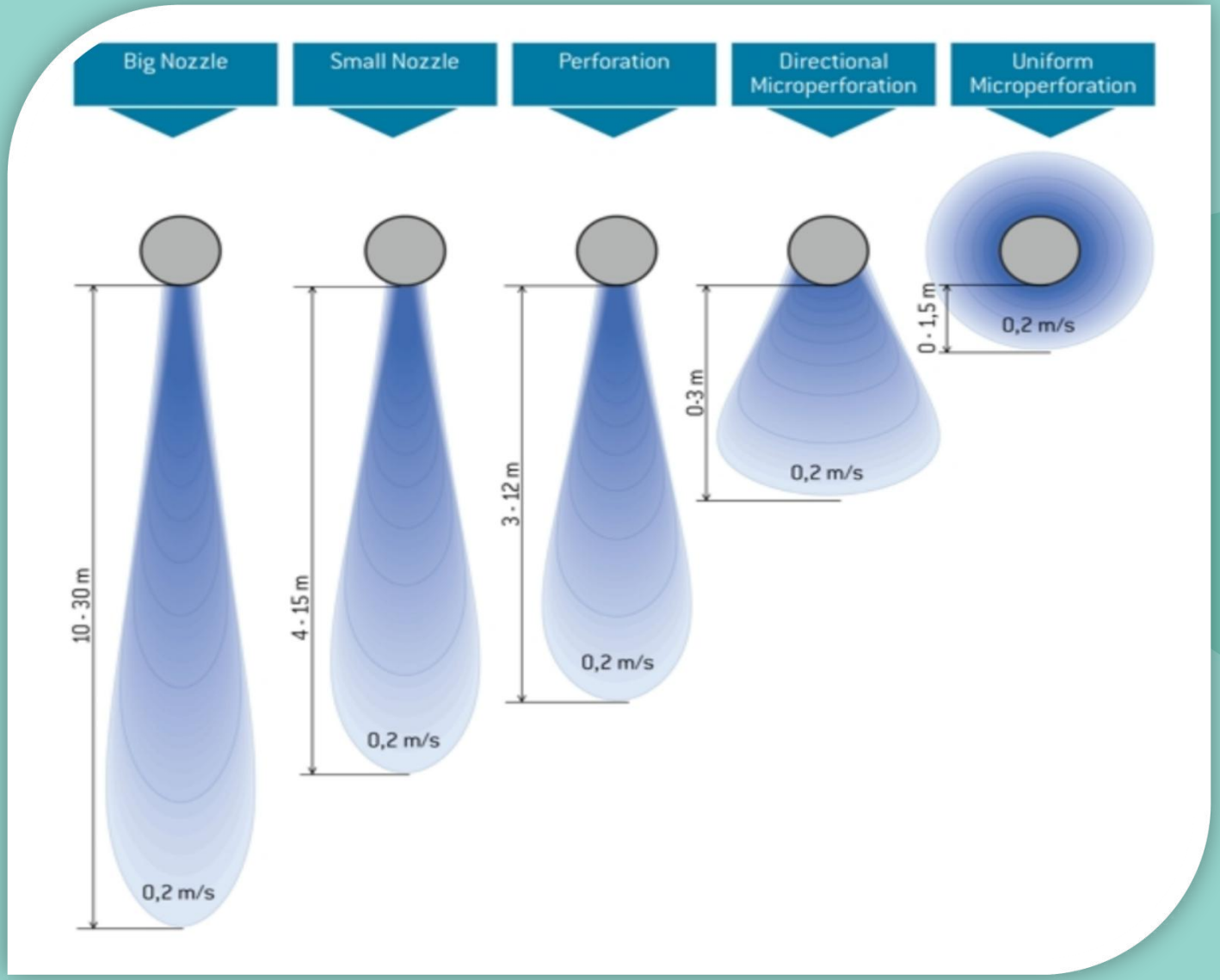

Air Flow Travel Distance

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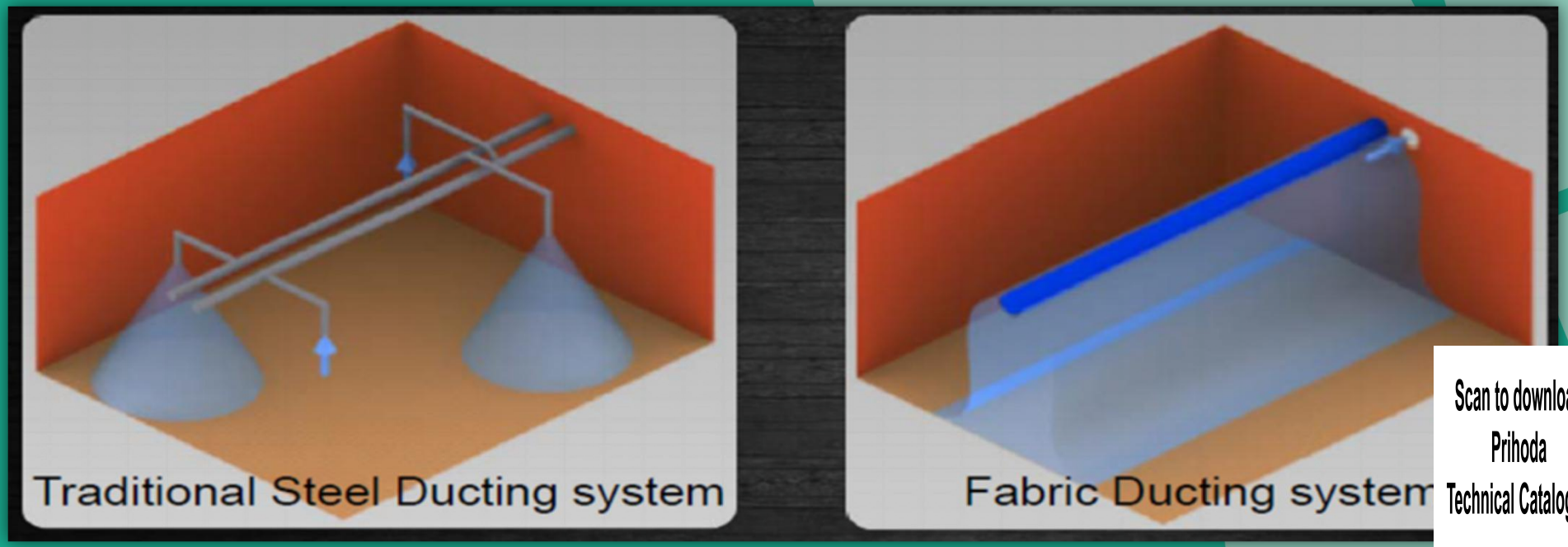
How do we do it?

1. Increase discharge area.
2. Reduce discharge velocity.
3. Natural heat movement.



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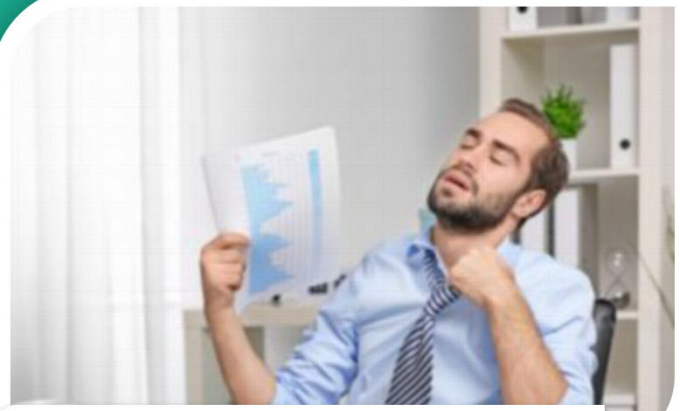
Major Problems in Cool Air Distribution

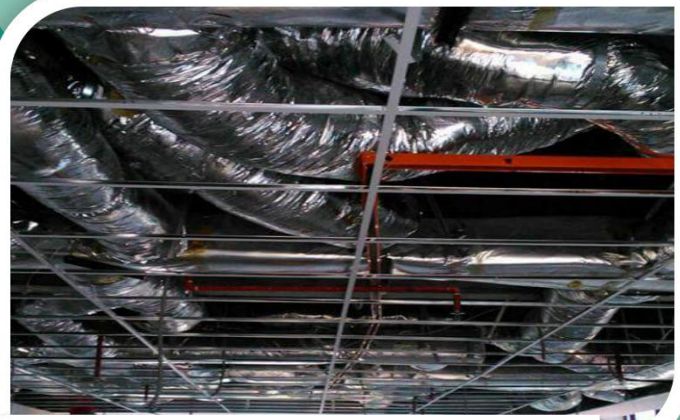


Bad air distribution

Heavy weight

Bad Hygiene

Condensation



Bad appearances

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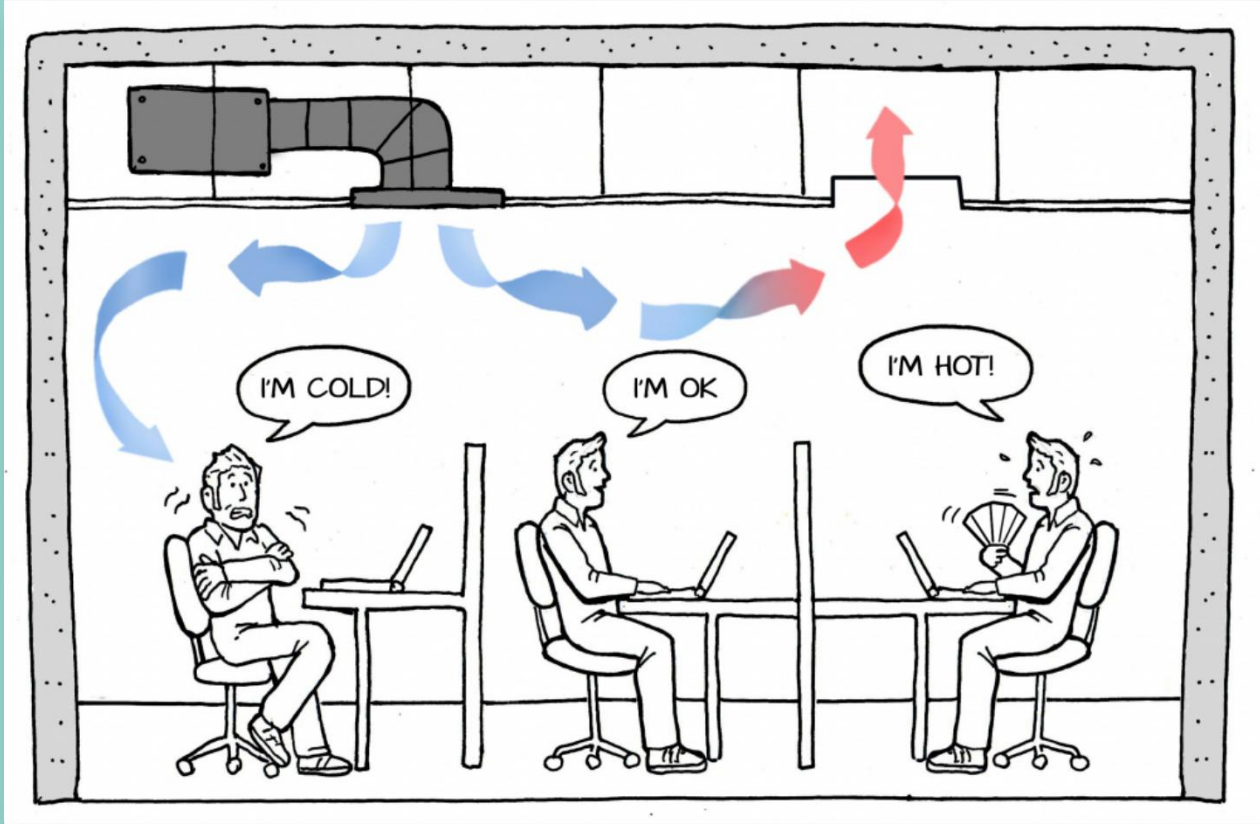
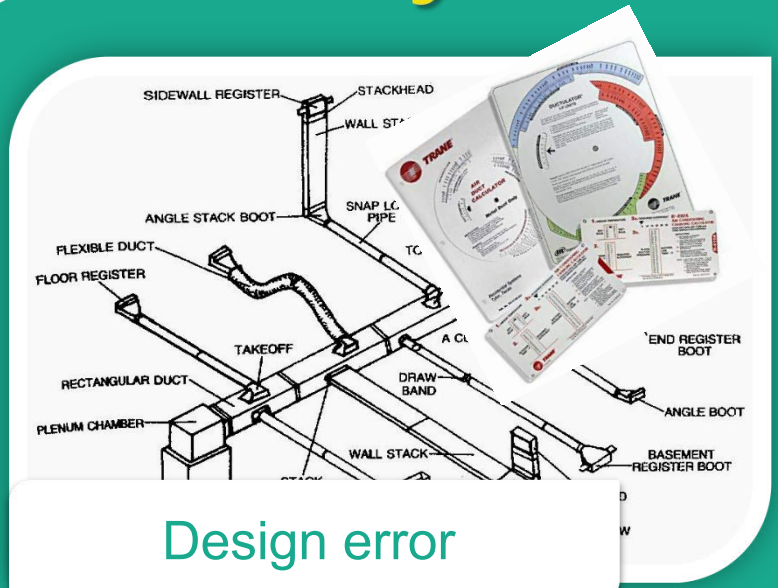
Key Issue 1: Bad Air Distribution



Have you experiencing ?

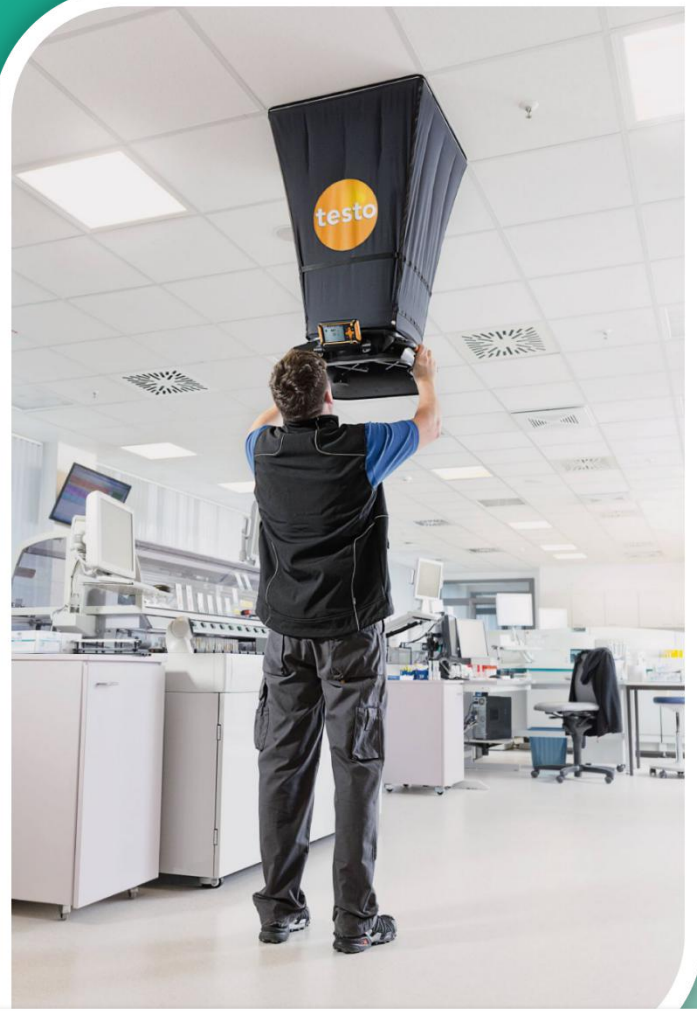
Work in uncomfortable workspace that make you lose focus and become unproductive due to *UNEVEN DISTRIBUTION* of your air conditioning system ?

Why Bad Air Distribution ?



Design error

Installation fault



Poor duct balancing & supervision

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Problem Cause by Bad Air Distribution ?

- ✓ Cold air draft
- ✓ Short circuit (Dead zone)
- ✓ Discomfort room condition
- ✓ Extra cooling load
- ✓ Oversized AC unit
- ✓ High electricity bills
- ✓ High maintenance cost
- ✓ Noisy sound
- ✓ Reduce productivity
- ✓ Unhappy client
- ✓ Lost client trust
- ✓ Bad branding image
- ✓ Drop building value
- ✓ Loss profit
- ✓ Stress

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How fabric duct solve the issue ?

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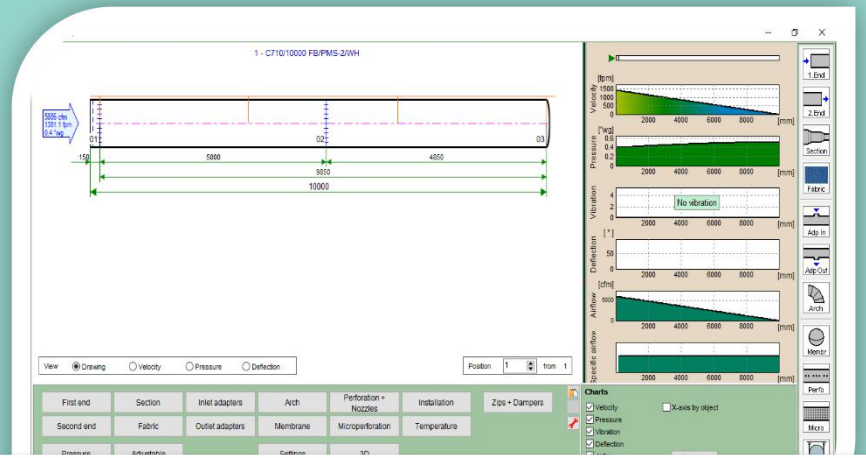
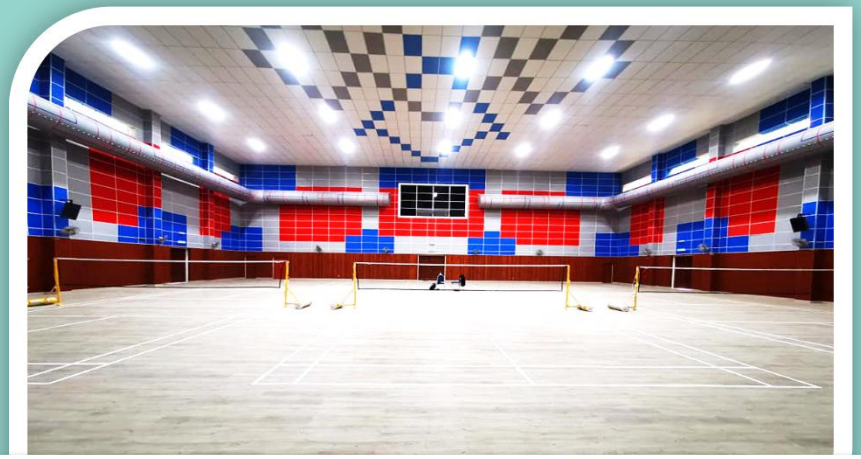
How fabric duct solve the issue ?

Even Distribution

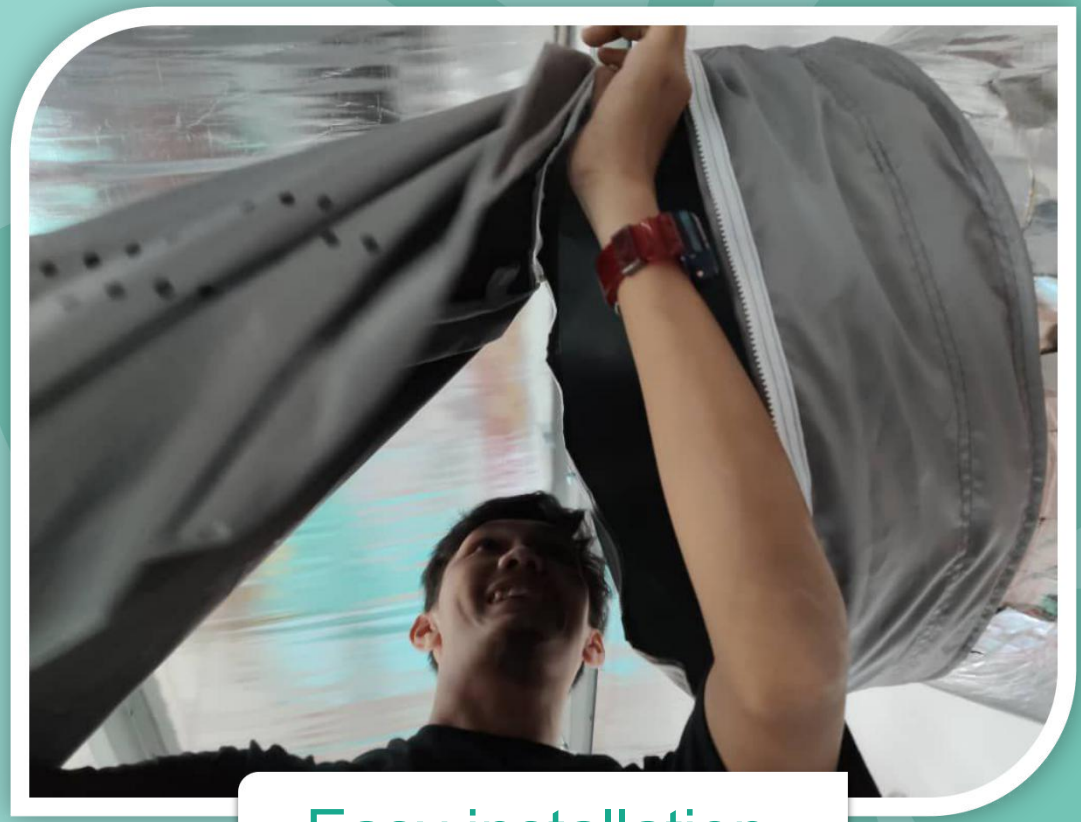
Prihoda Fabric Duct Solutions



Detail design software analysis

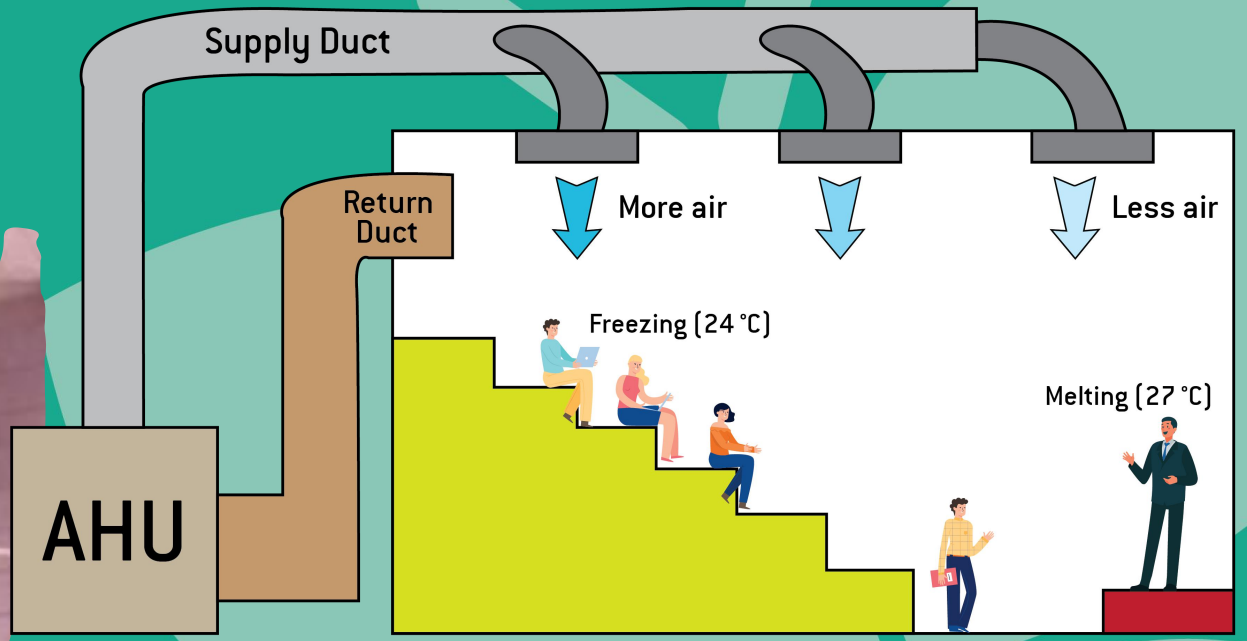


Simplify design



Easy installation

Lecture Hall UiTM Puncak Alam



- 60HP AHU at the back side
- Temperature hot at the stage area
- Student near to AHU felt cold draft

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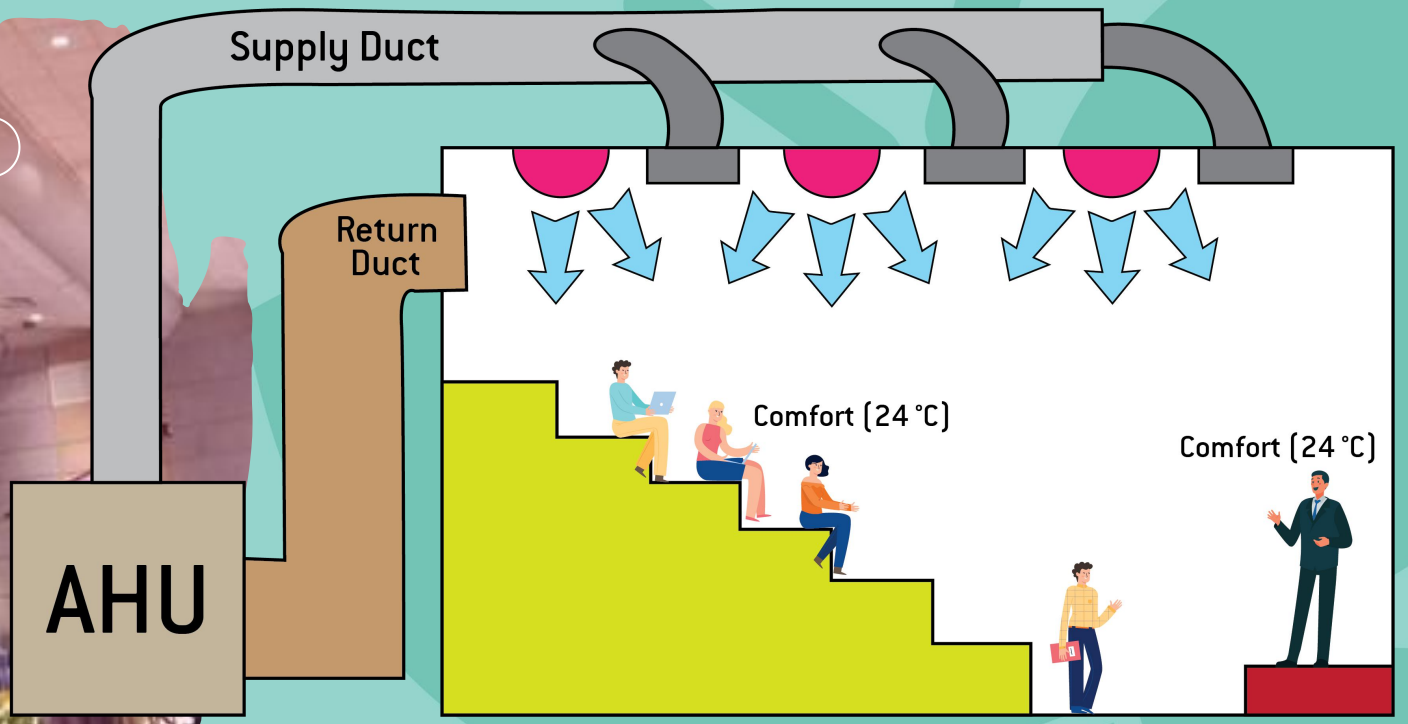
Lecture Hall UiTM Puncak Alam



CASE STUDY

Cooling Load Factor : 40Btu/hr/ft^2

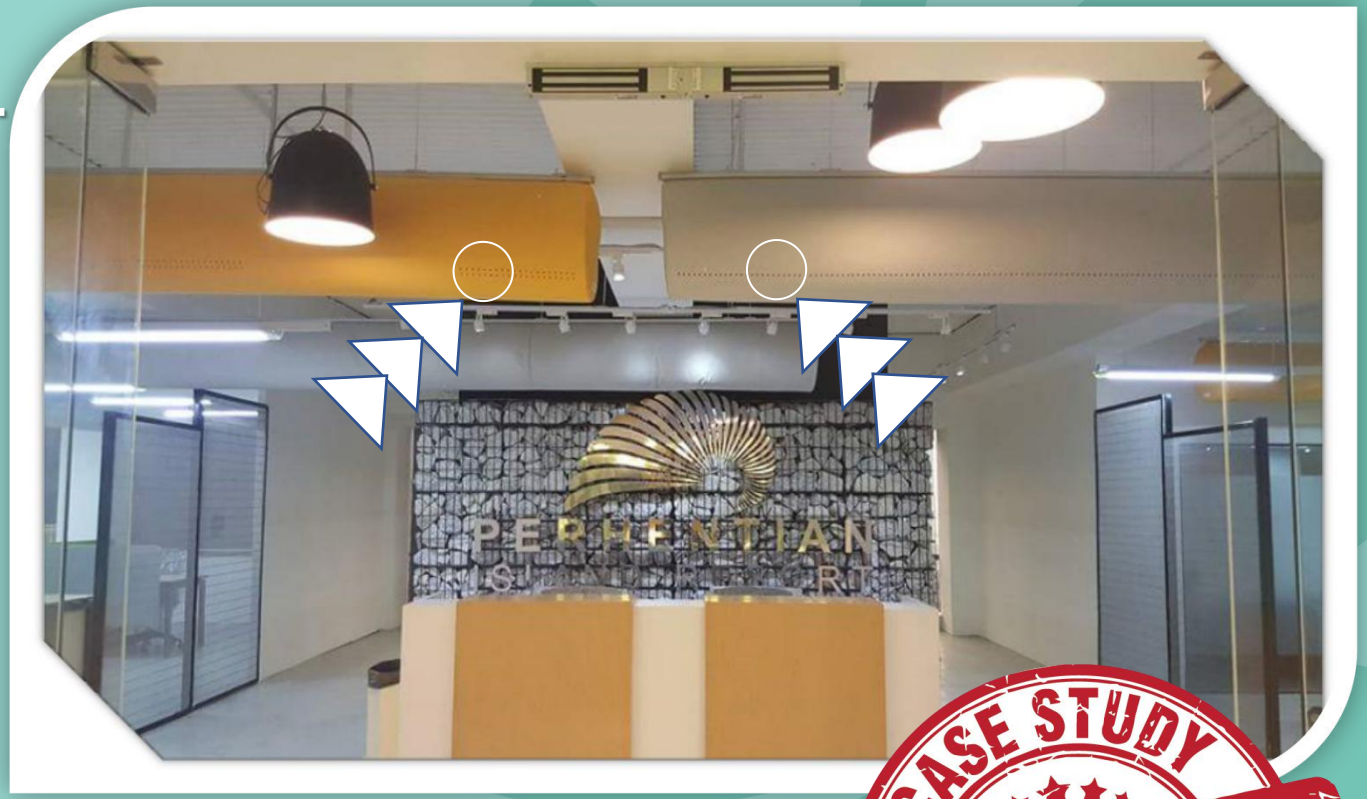
3 unit 10 HP Packaged DX System

Achievement : Temperature during TnC is 20^{o}C

Result : No more complaint from Lecturer

Menara KH, Kuala Lumpur

- Office makeover/ upgrade.
- Existing conventional metal ducting change to fabric ducting system.



Monthly electricity bills

from RM12,000

turns to RM5,000

(save up to 60%)

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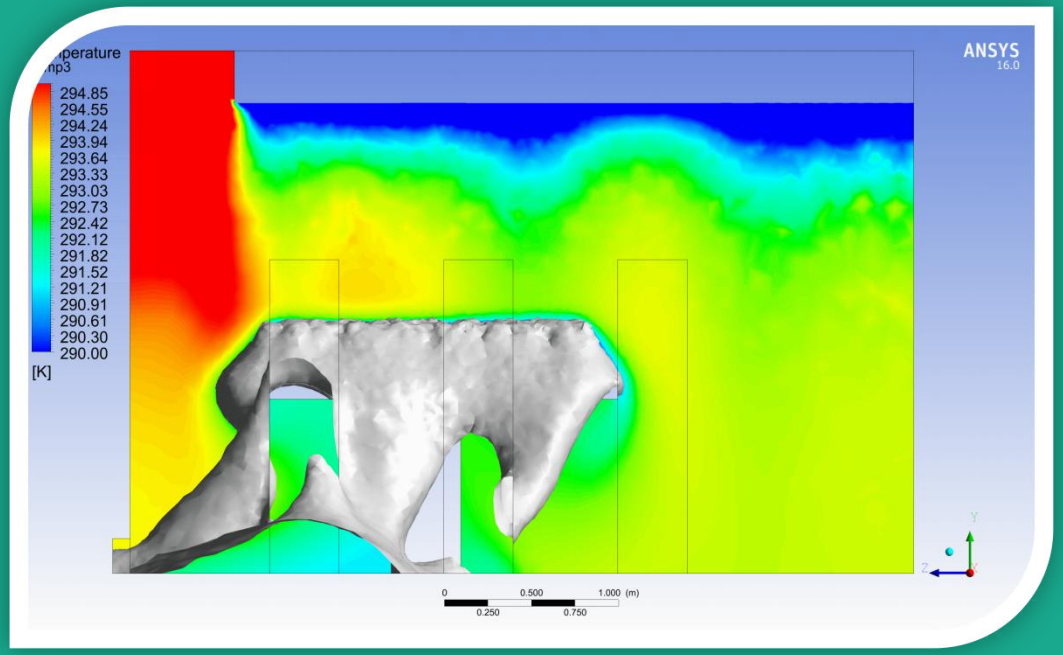
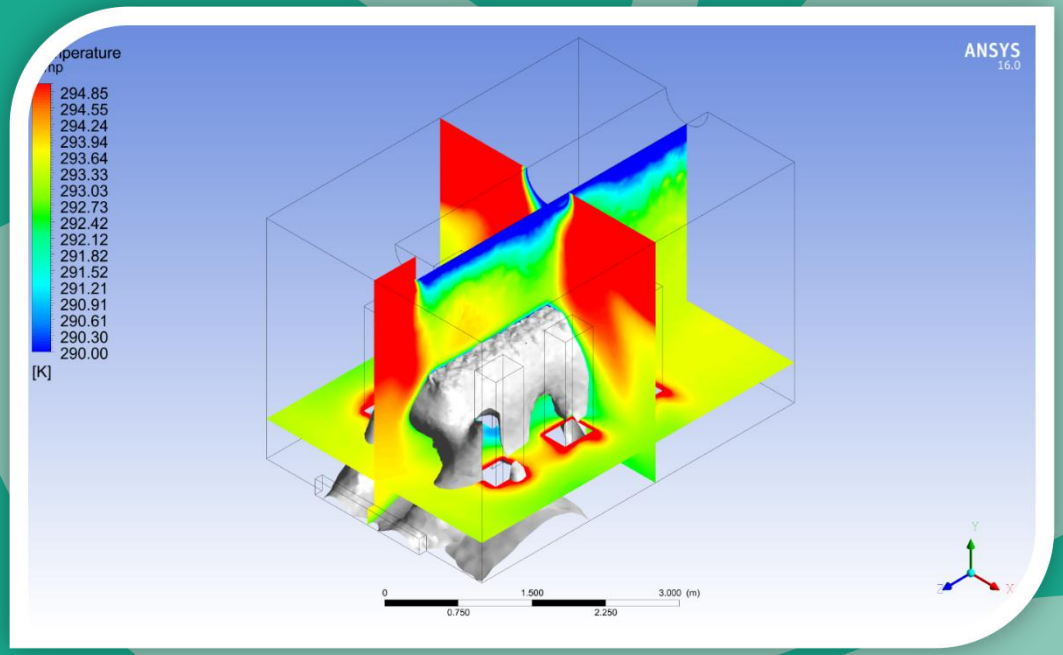
CFD Simulation

(Velocity & Temperature Flow Pattern)





OPERATION THEATRE

Critical Air Distribution Condition

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Key Issue 2: Duct Condensation

Have you experience it ?

After 10 years of operation, the insulation got decayed, condensation process happened and *DAMAGE* your ceiling ?

Common Scenarios for Condensation Issue

Ceiling Damage

Wet Diffuser & Floor

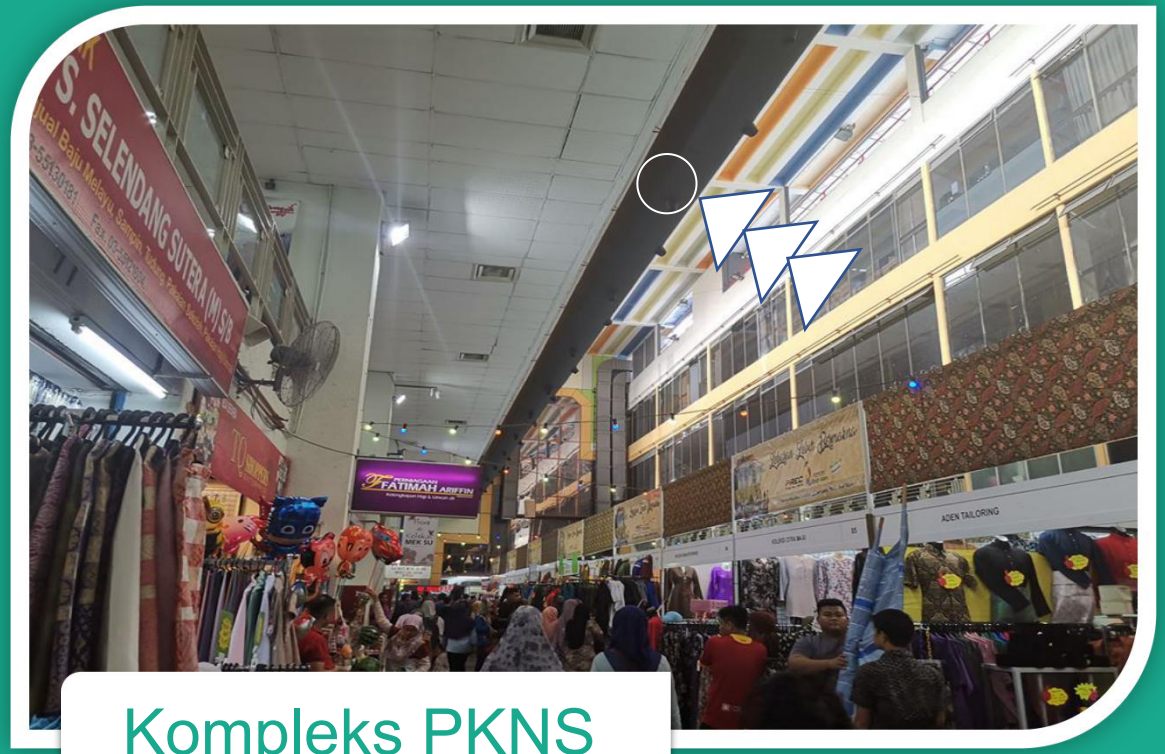
Growth of Fungi

Masjid Puncak Alam

- Open Space (No barrier/partition)
- 2 unit of 90HP Air Cooled DX System with double cooling coils

No Condensation at duct, no insulation required, even supply air temperature away below dew point.

Permeable Fabric Duct Avoid Condensation



Kompleks PKNS

Great Eastern Cafe

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Key Issue 3: Heavy Weight

Take a long time to install ducting system in order to achieve due date because do not have *ENOUGH MAN POWER* and *SKILL WORKER* ?

Have you experience it ?

Problems Cause by Heavy Weight?

- ✓ Need strong structure
- ✓ Required more man power
- ✓ Extra cost for structure
- ✓ Required lifting equipment
- ✓ Longer time to install
- ✓ Long shipment time
- ✓ Project delay
- ✓ Injury/accident possibilities
- ✓ High maintenance cost
- ✓ Need skills worker

Audi Showroom Glenmarie

- Cooling Load Factor: 80Btu/hr/ft²
- 2 unit of 30HP Packaged DX System

No need high cost structure strengthening works.

Key Issue 4: Bad Appearances

- ✓Wasting Space
- ✓Ceiling cost
- ✓Interior touch up
- ✓Bad Reputation
- ✓Loss Profit

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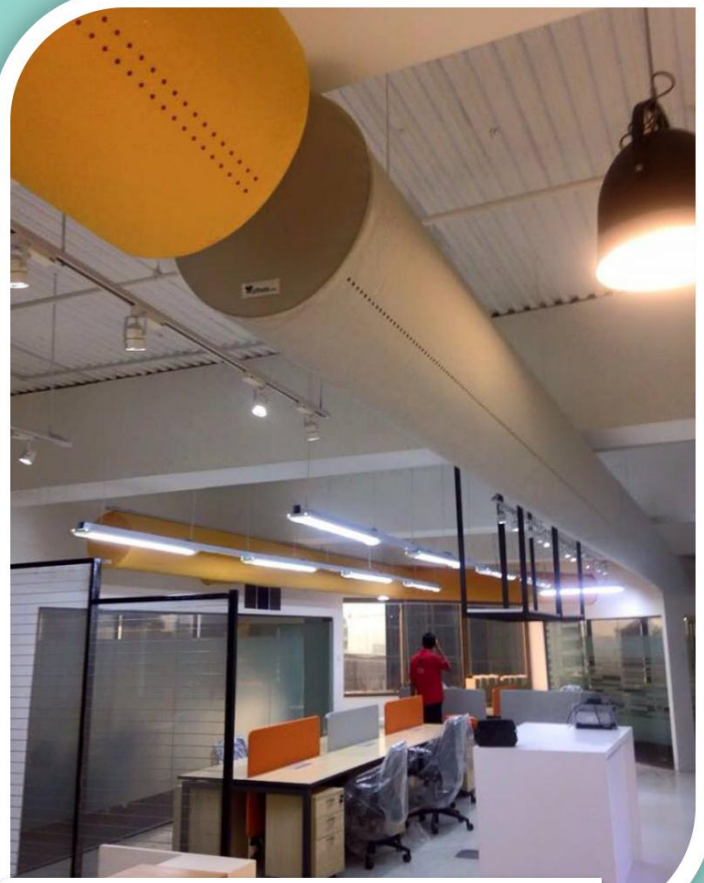
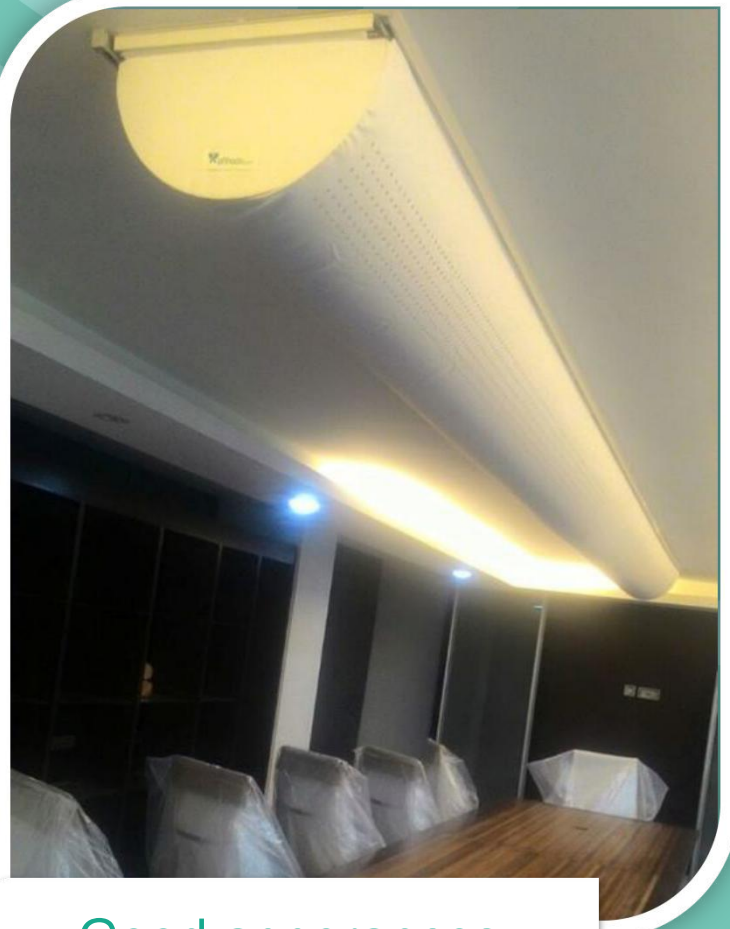
Menara KH, Kuala Lumpur



Save space

No ceiling needed



Good apperances

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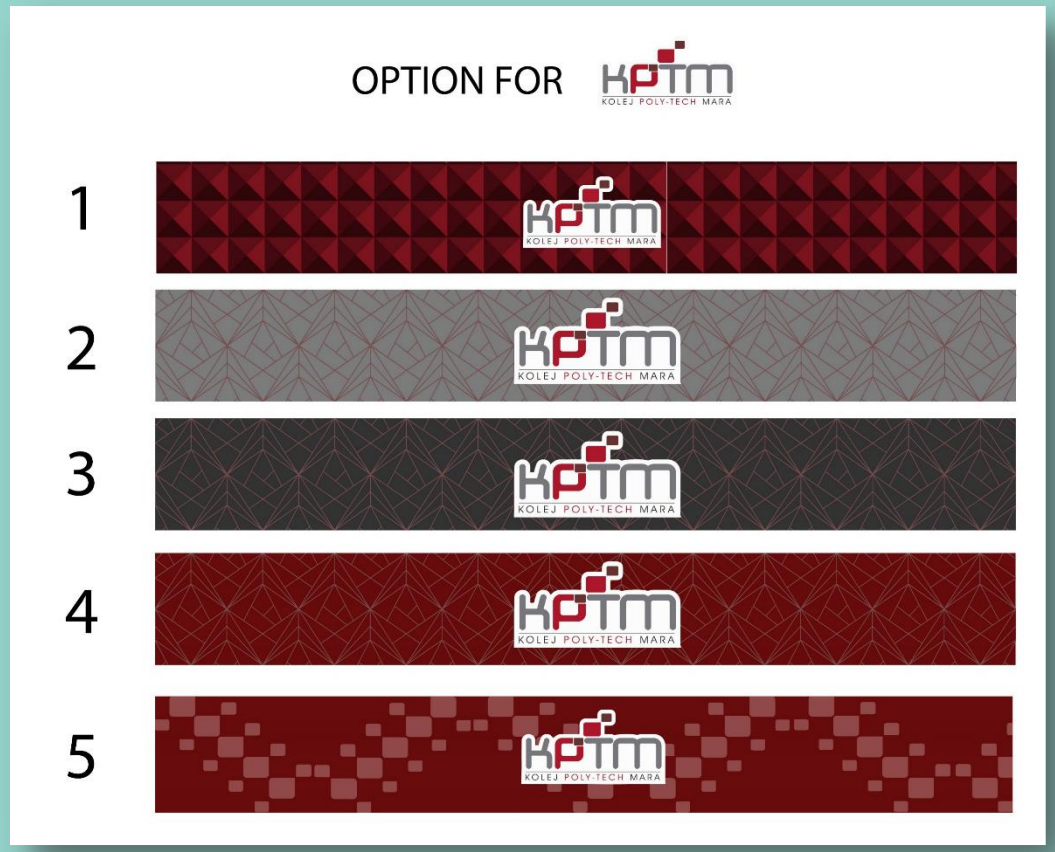
Match with Interior Design

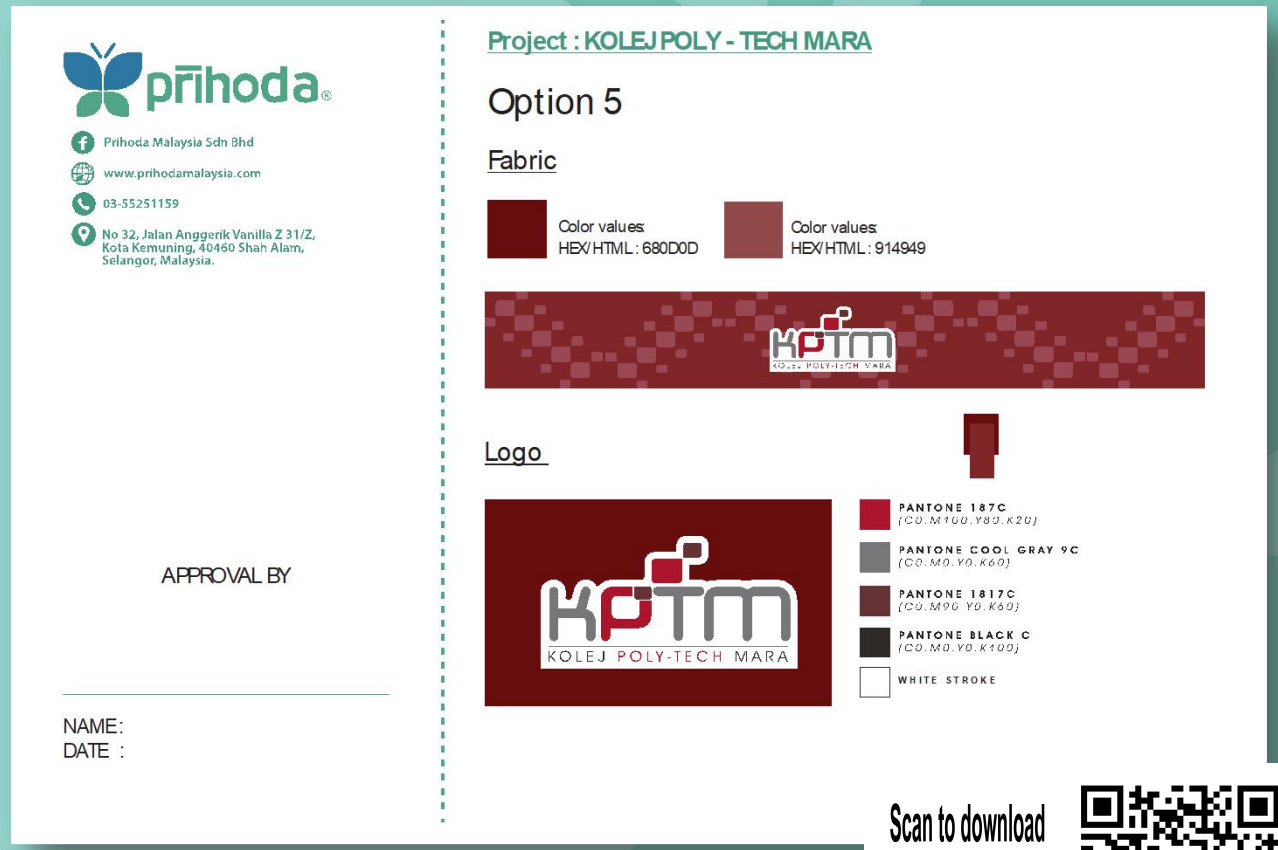
Prihoda Art Printing

Welcome Sign

Branding

Special Printing : Prihoda Art





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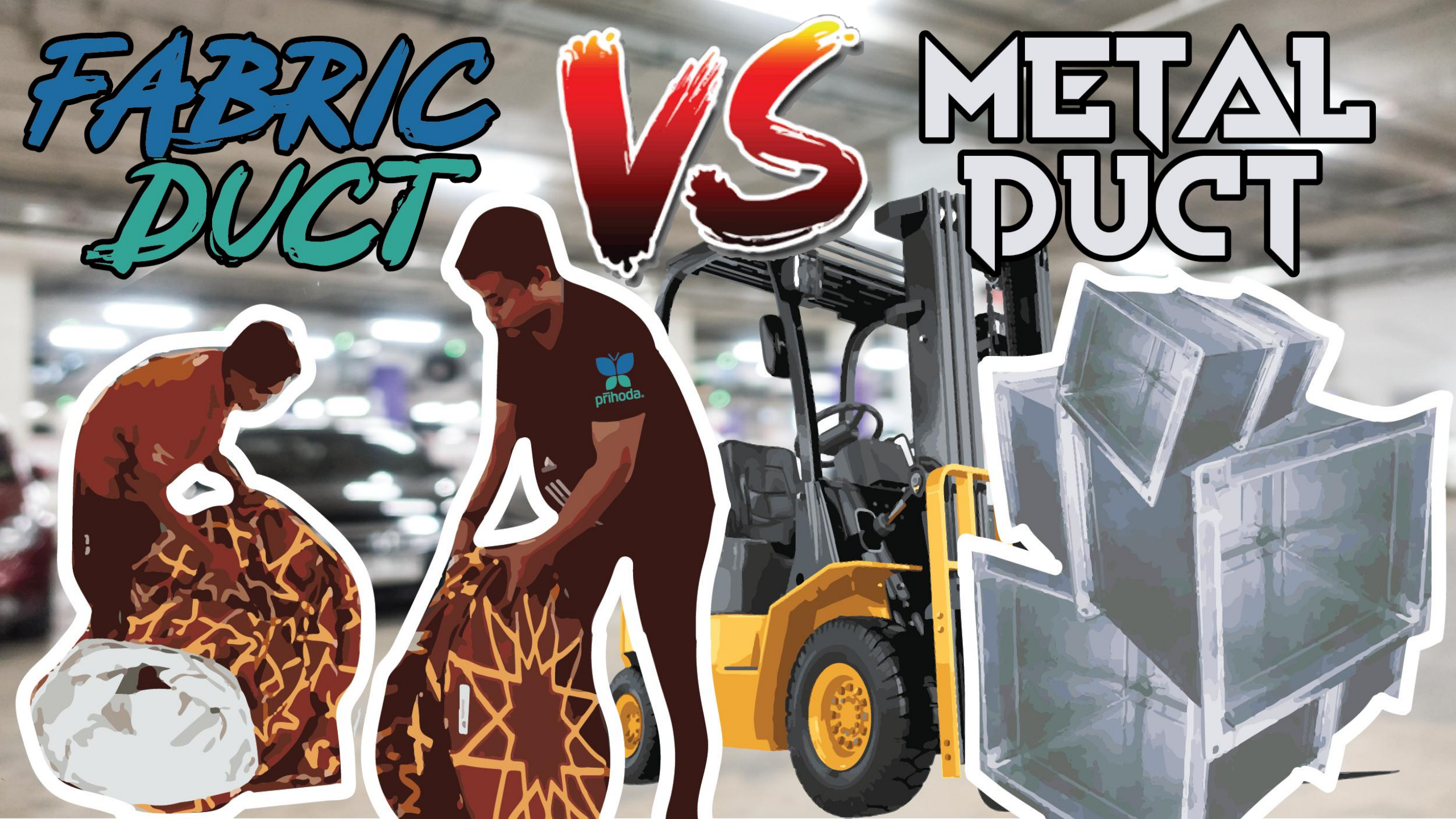
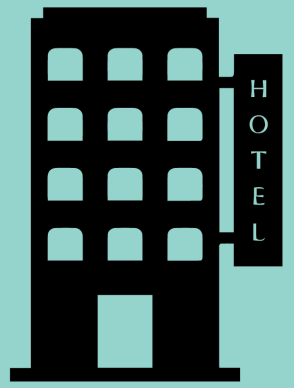
FABRIC DUCT VS METAL DUCT



Comparison

G.I DUCT	FABRIC DUCT
▪ Spot cooling ▪ Noisy (high velocity) ▪ Required balancing ▪ Heavy (30 - 60kg/m2) ▪ High running cost ▪ Required Diffusers ▪ Difficult to clean ▪ On Site assembly & Waste ▪ Skill installer	✓ Even distribution (Save cooling) ✓ Quite operation (Laminar Flow) ✓ Self balancing ✓ Light Weight 4 - 8kg/m2 ✓ Low running cost ✓ No Diffusers (2 in 1) ✓ Easy to clean ✓ No any waste ✓ D.I.Y (Ready to install after trained)

Project References



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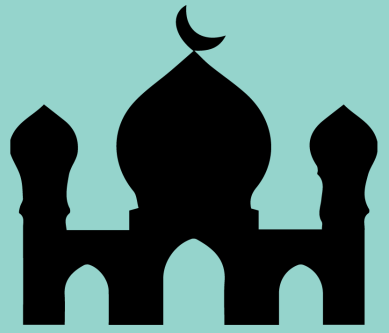

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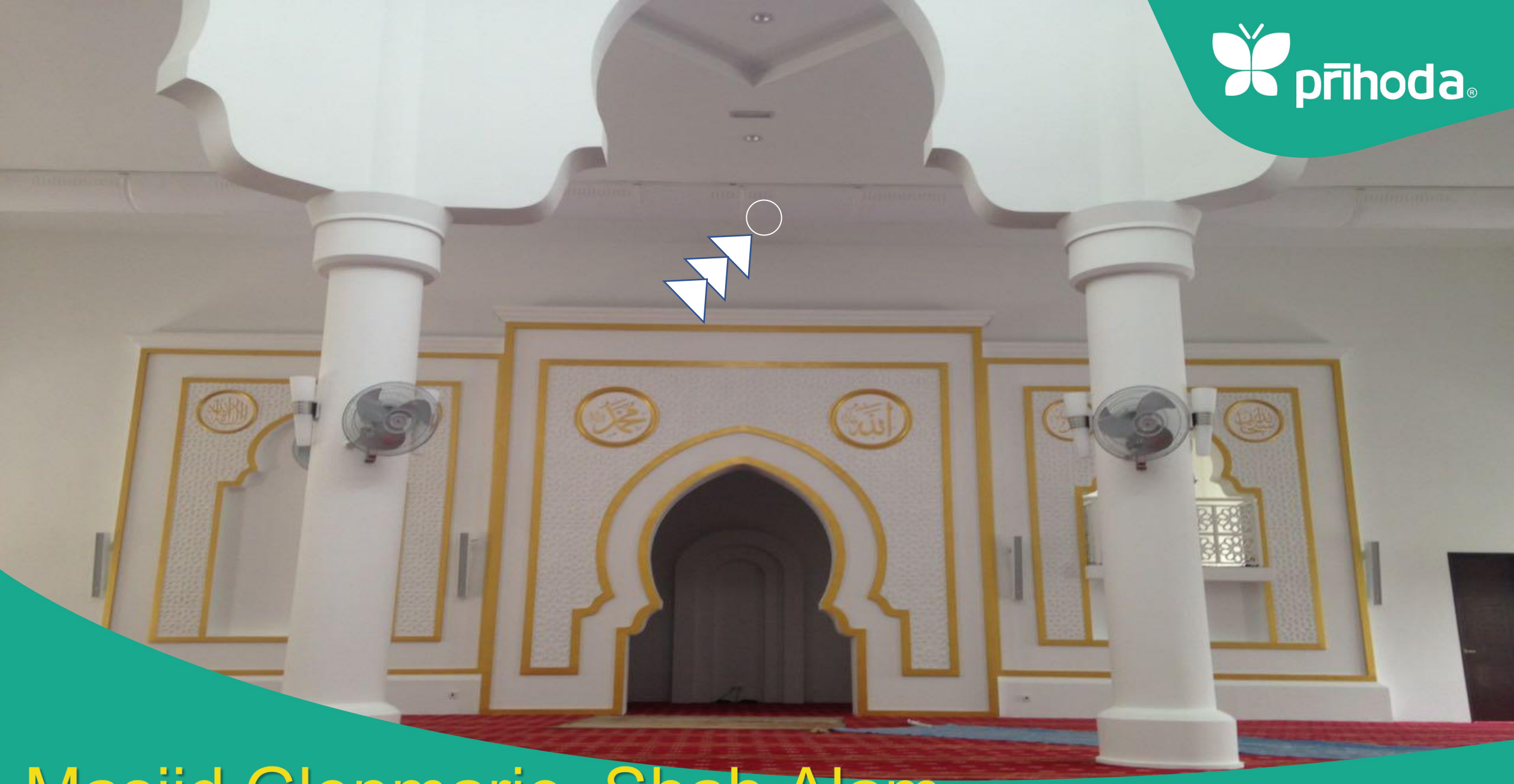

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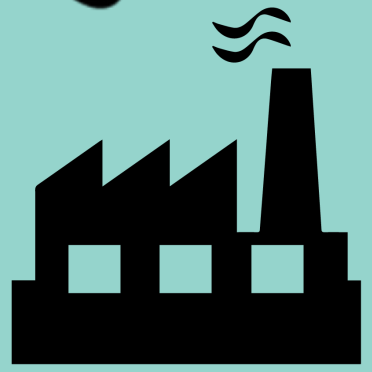

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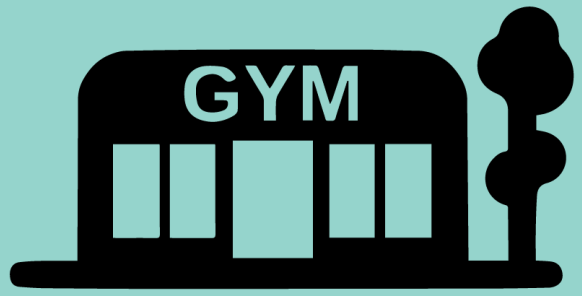

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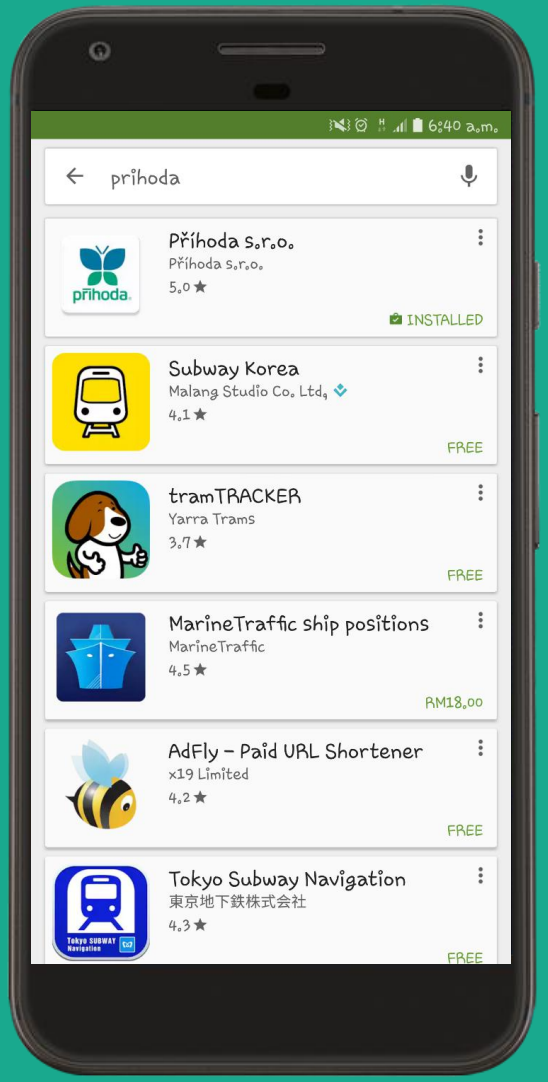

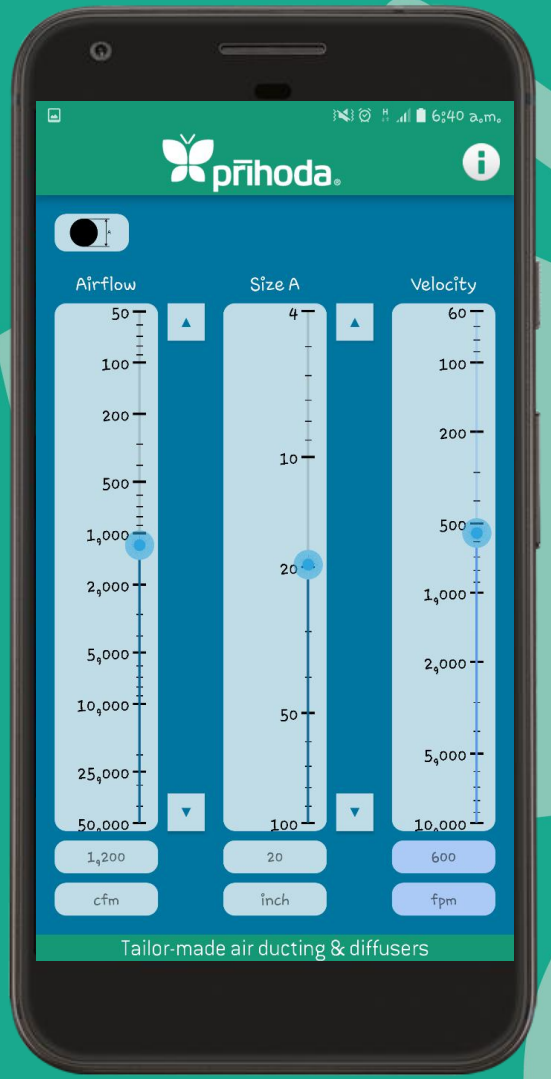

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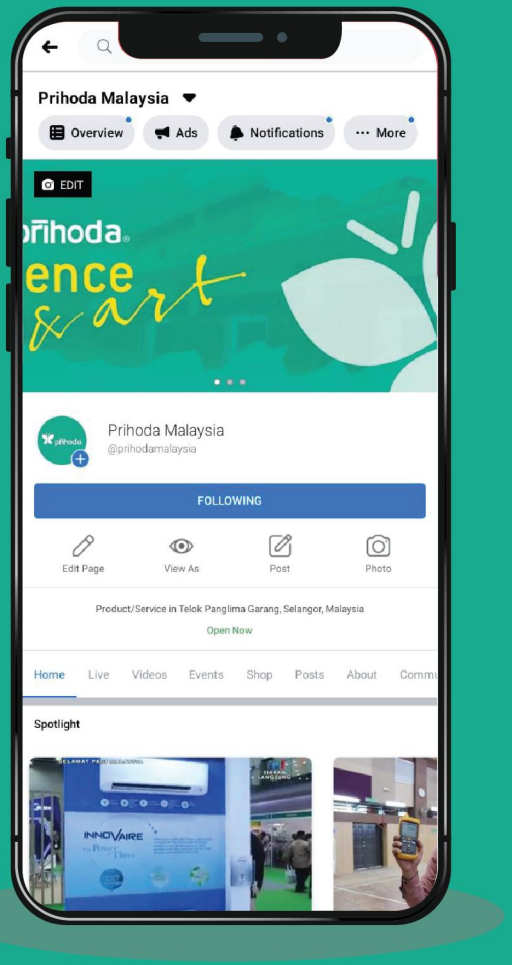

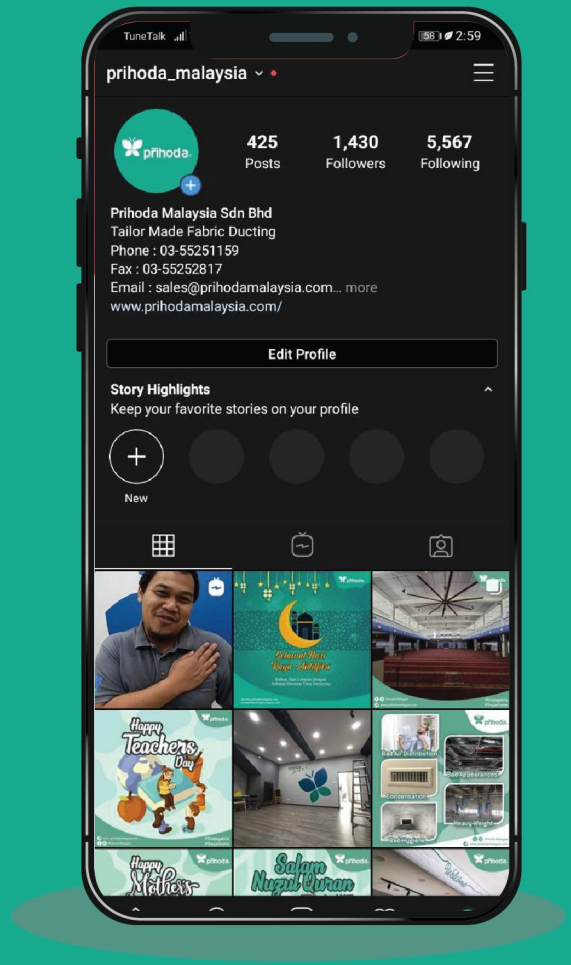

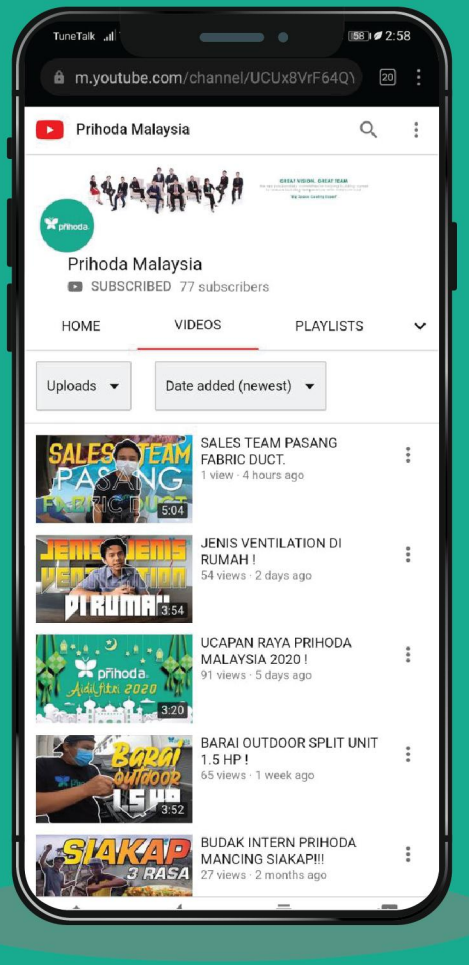

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