



INDOOR
ENVIRONMENT
SPECIALISTS



PVHR™

Purge Ventilation with Heat Recovery

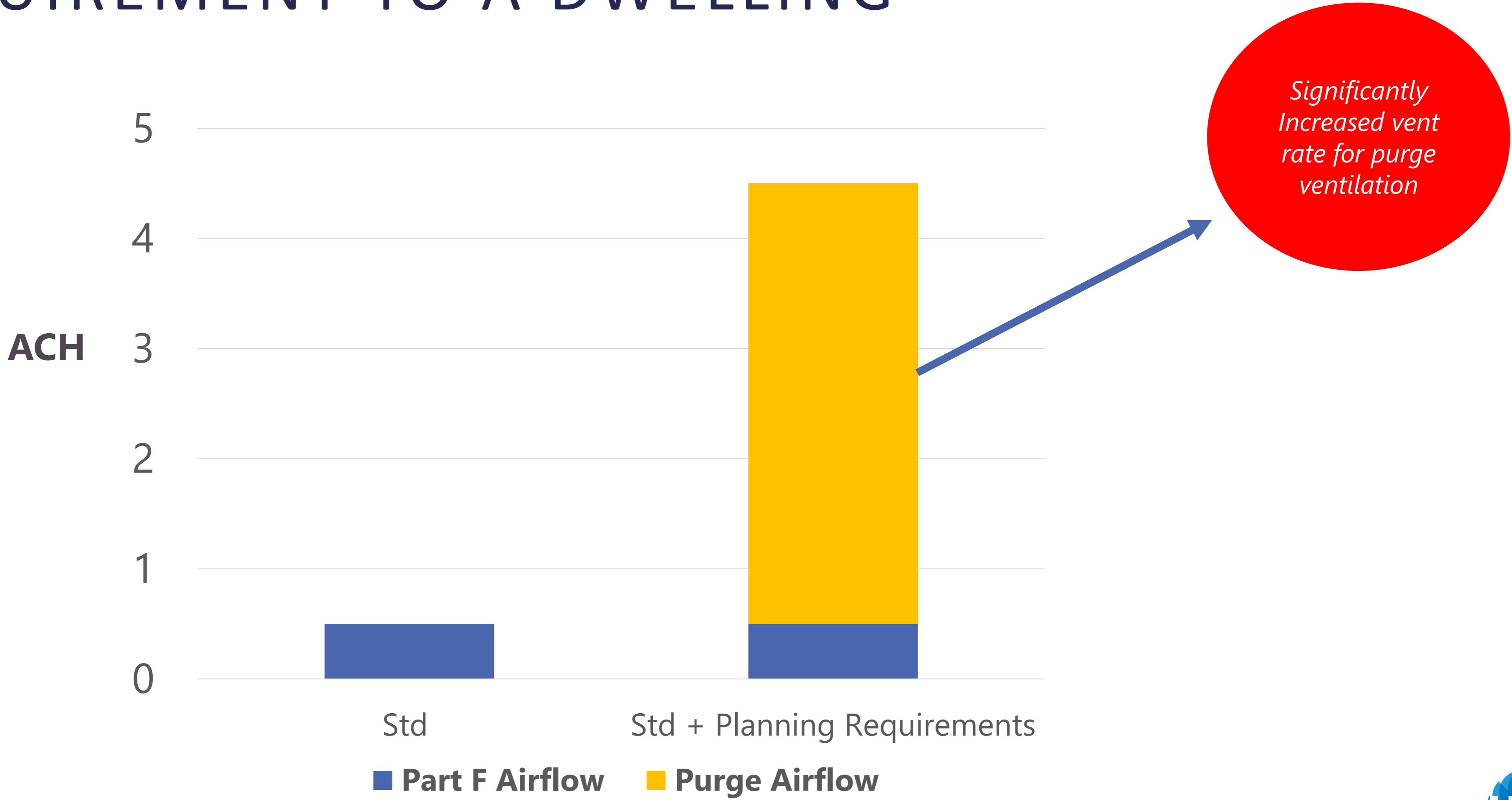
WHY IS THERE AN INCREASED NEED FOR PURGE?

Purge is driven by additional planning requirements around 3 key areas;

- Noise/Acoustics
- Overheating
- AQMA
- The above requirements impact the ability to use the window for 'purge' ventilation as required in Part F OF Building Regulations
- The additional PURGE Ventilation Rates can add to 2-4ACH+ depending on requirements



THIS IS A SIGNIFICANT INCREASE IN AIRFLOW REQUIREMENT TO A DWELLING



**HOW DOES THIS IMPACT THE
VENTILATION STRATEGY DESIGN & COST?**



STRATEGY & DESIGN

WHAT NEEDS TO BE DELIVERED WITH THE ADDITIONAL PURGE REQUIREMENT?

1. Continuous MVHR Whole House Rates (extract and supply) in ADF Building Regulations
2. Intermittent Purge Rates in habitable rooms (extract)
3. **Balanced supply and extract system**
e.g. when the PURGE rate/fan extract is activated, the supply air must be at the same volume to avoid negative pressure within the dwellin

WHAT IS THE ESTIMATED COST IMPACT ON THE VENT PACKAGE?

Design & specification
increasing ventilation
fan size and ducting
diameter
e.g. 300mm

Est Cost Per Plot

£7000*

***units & installation**

PVHR™ from HRV

Est Cost Per Plot

£2950*

***Units & installation**

Estimated costs based on a range of projects requiring purge ventilation

**WANT TO KNOW MORE ABOUT THE
PVHR™ FROM HRV GROUP?**



PVHR Case Study

- Part F Whole Building Ventilation Rates
- Planning Requirement: Purge ventilation (intermittent) due to non-openable windows and acoustic issues
- **£400K Saving with HRV PVHR strategy v's original consultant specification**

As a ventilation specialist, we designed, developed & delivered an alternative strategy that;

- **Met all Planning & Regulatory requirements**
- **Reduced the overall cost of a technically difficult ventilation strategy**
- **Delivered comfort and occupant satisfaction**



WE ARE HRV GROUP

We are specialists in the indoor environment

- Ventilation & Climate Control Solutions
- System Design & Installation
- System Servicing & Maintenance
- Mould & Condensation Investigation
- Indoor Air Quality Monitoring
- Independent Commissioning
- Bespoke Metal Fabrication & HVAC Supplies
- Installer Training

